

TABLE 25

TNRCC Segment 1803  
 TNRCC Station 12590  
 Station Number 25 Guadalupe River at FM 447, West of Nursery and upstream of South Texas Electric  
 Latitude 28/47/24 Longitude 97/00/36

Parameter	Parameter Code	Date and 24 hour time											
		10/18/99	1/17/99	4/24/00	7/01/00	10/30/00	1/23/01	4/16/01	7/10/01	10/16/01	1/16/02	4/15/02	7/22/02
Flow (cfs)		451	534	551	407	525	3650	1580	830	3280	2020	1739	10000
Fecal Coliform(org/100mL)	31616	30	42	16	13	88	900	40	8	760	**		
Suspended Solids(mg/L)	530	8.8	15.8	18.6	16.6	24.7	94.6	30.6	19.8	139	18.6	49.6	279
Turbidity(NTU)	82079	5	9.2	16	14	22	63.5	17	13	66	13	37	100
pH	400	8.2	7.91	8.09	8.04	7.39	7.84	8.18	8.1	7.81	8.09	7.91	7.69
Temperature(C)	10	22.83	17.53	26.04	31.67	24.68	9.71	21.16	31.29	21.77	14.25	23.46	27.9
Dissolved Oxygen(mg/L)	300	7.98	9.21	8.36	7.26	8.87	13.28	9.7	8.38	8.64	11.08	8.26	7.62
Conductivity(umhos/cm)	94	532	602	629	544	567	382	545	579	591	590	530	401
Total Phosphorus(mg/L)	665	0.11	0.071	0.15	0.1	0.06	0.33	0.13	0.1	0.2	0.16	0.2	0.18
Nitrate-N(mg/L)	620	0.728	1.72	1.1	0.458	1.04	0.8	1.1	1.12	0.8	3.6	1.8	0.38
Chloride(mg/L)	940	38.2	44.3	46	36	91	22.9	30.6	38.2	27.8	29.7	24.1	10.5
Sulfate(mg/L)	945	29.1	30	34	34	35.2	5	30.2	27.2	31.7	27.6	25.2	14.2
Total Hardness(mg/L)	900	213	235	267	213	229	170	388	233	206	271	132	296
Ammonia-N(mg/L)	610	0.23	0.15	0.12	0.17	0.05	0.06	<0.02	<0.02	0.03	0.04	0.07	0.07
E. coli(org/100mL)	31699	20	38	16	9	10	900	28	8	680	33	308	156
Chlorophyll a(mg/m <sup>3</sup> )	32211	3.7	<1	4.2	5.2	3.4	<1	1.8	6.1	<1	1.9	<1	<1
Pheophytin(mg/m <sup>3</sup> )	32218										4.2	17.5	25.4

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

Parameter	Parameter Code	Date and 24 hour time											
		10/16/02	1/13/03	4/15/03	7/28/03	10/07/03	01/13/04	04/14/04	7/15/04	10/18/04	1/11/05	3/02/05	6/07/05
Flow (cfs)	00061	2650	5840	1640	1230	935	870	7630	6070	2390	3230	4970	2030
E. coli(org/100mL)	31699	178	>2419	20	41	35	55	804	46	291	62	520	13
Suspended Solids(mg/L)	00530	107	132	19.8	22.6	8.4	14.6	375	197	88.2	37.5	114	51.7
Turbidity(NTU)	82079	70	61	12	19*	10.8	9.94	140	147	73	27.1	47.3	38.3
pH	00400	7.67	7.91	7.78	8.01	7.37	7.9	8.1	7.84	7.5	7.49	7.65	8.11
Temperature(C)	00010	21.7	11.3	22.5	30.2	25.6	14.7	18.6	28.7	24.4	18.4	17.1	29.8
Dissolved Oxygen(mg/L)	00300	8.75	11.7	9.57	7.41	7.92	11.6	9.16	6.78	7.95	9.91	10.47	8.03
Conductivity(umhos/cm)	00094	410	511	688	573	586	647	411	641	440	661	657	536
Total Phosphorus(mg/L)	00665	0.14	0.26	0.14	0.07	0.03	0.13	0.19	0.34	0.25	0.1	0.16	0.1
Nitrate-N(mg/L)	00620	0.15	0.26	0.73	0.46	0.57	1.04	0.68	0.55	0.34	1.39	1.2	1.24
Chloride(mg/L)	00940	15.2	28.8	39.3	29.1	28.8	34.4	20.4	17.9	28.4	33.1	41	24.2
Sulfate(mg/L)	00945	16.1	27	41	30.8	31.3	32.1	22	21.4	21.9	38	47.9	29.3
Total Hardness(mg/L)	00900	209	268	284	253	237	268	345	296	193	297	304	260
Ammonia-N(mg/L)	00610	0.02	0.02	0.73	0.46	0.02	0.02	0.12	0.02	0.05	0.02	0.09	0.27
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.0	<1.0	7.63	2.9	3.4	<5.0	<5.0	<5	<1	3.3	2.3	7.8
Pheophytin(mg/m <sup>3</sup> )	32218	6.3	16.2	2.94	6.7	<1.0	<3.0	9.2	<3	<3	<3	<3	<3

\*Estimated Value - Sample was analyzed outside of holding time.

Parameter	Parameter Code	Date and 24 hour time											
		10/04/05	12/07/05	4/05/06	8/10/06	11/01/06	1/09/07	4/03/07	8/07/07	9/13/07	12/11/07	4/11/08	7/01/08
Flow (cfs)	00061	812	757	684	325	483	844	12000	8180	6460	1350	856	605
E. coli(org/100mL)	31699	53	50	60	62	59	1540	2300	80	30	82	75	65
Suspended Solids(mg/L)	00530	8.3	15.3	31	11	1437	79.5	948	401	104	21.7	43	40
Turbidity(NTU)	82079	15.9	15.2	28.3	10.2	12.8	69.9	384	130	75.3	14.3	26.8	32.6
pH	00400	8.02	8.09	8.13	8.03	8.17	7.94	7.61	7.97	7.99	8.13	8.1	8
Temperature(C)	00010	29.2	14.5	25.3	30	22.1	13.2	22.4	28.1	27.8	19.3	24.9	30.7
Dissolved Oxygen(mg/L)	00300	7.96	11.1	9.81	7.81	7.57	9.68	7.13	7.37	7.63	11.9	8	7.7
Conductivity(umhos/cm)	00094	530	594	585	521	569	548	302	460	473	592	604	529
Total Phosphorus(mg/L)	00665	0.07	<0.05	<0.05	<0.05	<0.05	0.38	0.29	0.16	0.25	0.07	0.09	0.07
Nitrate-N(mg/L)	00620	1.01	1.54	1.08	0.18	0.76	1.28	0.57	0.53	0.73	1.32	1	0.39
Chloride(mg/L)	00940	29.3	33	34.8	36.2	32.5	36.2	9.1	13.9	13.9	26.6	36.7	32.1
Sulfate(mg/L)	00945	29.6	32.6	32.4	31.5	30.5	26.6	12.3	20.2	19	28.9	37.2	32.7
Total Hardness(mg/L)	00900	249	271	205	204	232	170	232	238	293	293	278	245
Ammonia-N(mg/L)	00610	0.09	0.02	0.02	0.04	0.03	0.07	0.06	0.05	<0.1	<0.1	<0.1	<0.10
Chlorophyll a(mg/m <sup>3</sup> )	32211	5.8	3.1	2.5	4.9	2.6	1.1	<1	1.3	<1	2.8	7.1	11.9
Pheophytin(mg/m <sup>3</sup> )	32218	<1	<1	1.9	<1	<1	<1	<1	<1	<1	<1	2.6	1.8
Total Kjeldahl Nitrogen (mg/L)	00625									0.26	<0.5	0.28	0.44

TABLE 25 (cont.)

TCEQ Segment 1803  
 TCEQ Station 12590  
 Station Number 25 Guadalupe River at FM 447, West of Nursery and upstream of South Texas Electric  
 Latitude 28/47/24 Longitude 97/00/36

Parameter	Parameter Code	Date and 24 hour time											
		10/08/08	1/06/09	4/13/09	6/02/09	10/12/09	12/07/09	4/20/10	7/12/10	11/18/10	1/3/11	3/2/11	6/6/11
Flow (cfs)	00061	396	492	336	313	2220	1640	4560	2200	905	860	798	300
E. coli(org/100mL)	31699	25	110	20	260	730	1550	2570	280	80	79	81	30
Suspended Solids(mg/L)	00530	16.7	15	28	40.3	217	99	379	118	41	16.4	35.4	31.8
Turbidity(NTU)	82079	16.1	15.1	25.5	18.3	169	92.1	275	87.4	27.5	14.2	20.7	24.1
pH	00400	7.9	8	8.1	8.1	7.8	7.8	7.9	8	8.2	8.1	8.2	8.3
Temperature(C)	00010	25.2	14.1	22.3	28.7	22	11.1	20.8	31.1	17.4	13.4	19.9	30.7
Dissolved Oxygen(mg/L)	00300	8.5	9.6	10.8	9.6	5.9	11.8	6.1	7.8	9.5	10.4	9.7	8.1
Conductivity(umhos/cm)	00094	519	611	573	572	363	342	327	458	571	580	577	560
Total Phosphorus(mg/L)	00665	0.05	0.06	0.07	0.12	0.33	0.23	0.38	0.3	0.06	0.05	0.05	0.05
Nitrate-N(mg/L)	00620	0.49	1.06	0.51	0.24	0.83	0.58	0.59	0.89	1	1.12	1.08	0.12
Chloride(mg/L)	00940	75.5	41.6	40.3	39.1	13.2	19.2	21.7	28.2	28.1	33.2	35.9	40.6
Sulfate(mg/L)	00945	67.8	35.3	34.2	30.1	18.7	24.4	20.5	28	28.6	32.3	34.7	34
Total Hardness(mg/L)	00900	214	276	245	234	188	169	250	241	283	232	242	232
Ammonia-N(mg/L)	00610	<0.1	0.18	<0.1	<0.1	0.13	0.14	0.16	<0.1	<0.1	<0.1	0.33	<0.1
Chlorophyll a(mg/m <sup>3</sup> )	32211	2.6	2	4.3	6.6	1.6	3.7	2.9	1.5	2.1	1.8	5	10.8
Pheophytin(mg/m <sup>3</sup> )	32218	<1.0	1.4	<1	1.7	<1	<1	<1	1.6	<1.0	<1	1.8	2.4
Total Kjeldahl Nitrogen (mg/L)	00625	<0.2	1.5	0.35	0.57	1.06	0.91	1.25	0.96	0.22	0.39	0.33	0.48

Parameter	Parameter Code	Date and 24 hour time											
		9/14/11	1/4/2012	3/7/12	6/12/12	10/15/12	12/19/12	5/15/13	7/8/2013	11/13/13	1/16/14	3/12/14	6/12/14
Flow (cfs)	00061	135	392	806	550	430	427	288	253	1560	397	462	431
E. coli(org/100mL)	31699	11	140	110	91	520	200	98	100	170	730	110	54
Suspended Solids(mg/L)	00530	20.8	26.5	25.2	22.3	51.3	16.5	33.8	30.3	136	12.2	18.7	29.3
Turbidity(NTU)	82079	13.6	20.8	15.5	15.6	37.6	12.1	32.1	25.9	108	4.6	14.2	22.2
pH	00400	7.8	8.0	8.3	8.3	7.9	7.9	8.2	8.1	8.2	8.1	7.9	7.8
Temperature(C)	00010	29.1	13.0	19.4	31.3	24.7	18.1	25.6	29.3	17.5	13.1	16.0	30.5
Dissolved Oxygen(mg/L)	00300	7.8	10.9	9.3	8.7	7.9	9.3	7.7	7.1	9.6	10.8	9.8	7.4
Conductivity(umhos/cm)	00094	571	652	569	534	517	563	547	488	381	588	590	444
Total Phosphorus(mg/L)	00665	0.04	0.08	0.08	0.05	0.08	0.05	0.09	0.07	0.16	0.02	0.04	0.14
Nitrate-N(mg/L)	00620	<0.05	1.08	1.25	0.33	0.65	0.58	0.28	0.09	0.97	0.50	0.67	0.49
Chloride(mg/L)	00940	51.3	39.5	30.6	31	33.6	36.6	37	33.8	14.2	37.4	47.4	25.0
Sulfate(mg/L)	00945	36.6	35.5	36.3	31.2	32.5	33.3	32.6	30.1	21.7	37.9	38.6	25.9
Total Hardness(mg/L)	00900	198	252	252	215	211	232	230	200	215	229	225	177
Ammonia-N(mg/L)	00610	0.12	0.23	0.23	0.18	0.12	0.15	0.12	0.17	<0.1	<0.10	0.35	0.3
Chlorophyll a(mg/m <sup>3</sup> )	32211	4.4	1.1	8.1	8.6	<1	<1	4.01	4.67	<1	6.88	---	8.47
Pheophytin(mg/m <sup>3</sup> )	32218	<1	<1.0	<1	3.7	6.9	7.02	3.94	2.8	5.77	1.57	---	<1.0
Total Kjeldahl Nitrogen (mg/L)	00625	0.38	0.31	0.32	0.46	0.36	0.2	0.39	0.43	2.39	0.37	0.387	0.72

Parameter	Parameter Code	Date and 24 hour time											
		8/21/14	9/4/14	12/3/14	3/10/15	6/24/15	10/5/15	12/8/15	4/11/16	7/13/16	10/5/16	#####	3/16/17
Flow (cfs)	00061	129	133	417	4280	7680	654	1850	1090	1640	1470	1750	6010
E. coli(org/100mL)	31699	56	39	56	9200	450	50	110	55	36	72	410	690
Suspended Solids(mg/L)	00530	27.2	22.2	25.9	240	279	28.3	27.8	34.0	70.0	59.8	54.4	233
Turbidity(NTU)	82079	16.6	17.4	140	186	24.3	22.0	29.3	52	50.8	44.4	206	
pH	00400	8.1	8.5	7.6	7.7	7.7	8.1	8.2	7.9	7.9	8.0	7.8	7.5
Temperature(C)	00010	30.7	29.7	15.5	13.5	25.6	25.1	15.0	22.2	30.5	26.1	14.5	17.8
Dissolved Oxygen(mg/L)	00300	9.0	6.7	9.2	9.4	9.7	8.0	10.0	8.3	7.2	7.8	9.7	8.3
Conductivity(umhos/cm)	00094	524	564	575	342	412	537	569	606	530	525	430	295
Total Phosphorus(mg/L)	00665	0.04	0.07	0.06	0.24	0.20	0.04	0.07	0.07	0.06	0.10	0.18	0.47
Nitrate-N(mg/L)	00620	<0.05	0.08	0.69	0.38	0.65	0.69	1.14	1.04	1.05	1.24	1.28	0.75
Chloride(mg/L)	00940	50.6	41.6	23.7	16.3	30.9	27.8	33.8	24.8	23.6	19.4	17.0	
Sulfate(mg/L)	00945	33.0	35.4	18.5	20.1	29.8	31.5	36.9	26.9	28.3	25.5	18.9	
Total Hardness(mg/L)	00900	191	249	208	294	224	266	270	249	245	203	229	
Ammonia-N(mg/L)	00610	0.13	0.58	0.28	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorophyll a(mg/m <sup>3</sup> )	32211	2.82	5.23	<1.0	6.76	<1.00	7.71	1.84	7.58	2.70	2.59	<1.00	2.58
Pheophytin(mg/m <sup>3</sup> )	32218	<1.0	<1.0	<1.0	<1.0	<1.00	1.34	<1.00	1.09	1.08	<1.00	<1.00	1.53
Total Kjeldahl Nitrogen (mg/L)	00625	0.55	0.38	0.29	1.17	0.81	0.40	<0.20	0.41	0.30	<0.20	0.66	1.13

TABLE 25 (cont.)

TCEQ Segment 1803  
 TCEQ Station 12590  
 Station Number 25 Guadalupe River at FM 447, West of Nursery and upstream of South Texas Electric  
 Latitude 28/47/24 Longitude 97/00/36

Parameter	Date and 24 hour time												
	Parameter Code	6/8/17	10/4/17	2/19/18	4/17/18	6/4/18	#####	4/24/19	6/6/19	9/11/19	#####	2/19/20	3/2/20
Flow (cfs)	00061	1320	1420	797	761	466	3280	1320	1590	673	630	524	93
E. coli(org/100mL)	31699	52	1100	50	47	15	4400	40	41	140	58	72	140
Suspended Solids(mg/L)	00530	79.5	75.8	22.9	105	22.1	150	66.5	182	44.9	26.5	64	5.7
Turbidity(NTU)	82079	55.1	45.2	8	38.8	16.4	116	75	90	35	9.6	22	2.4
pH	00400	8.2	8.0	8.1	8	7.9	7.8	7.9	8.1	7.9	8.2	8	7.3
Temperature(C)	00010	28.9	27.1	18.5	22	31	26.7	23.2	29.8	29.6	14.8	17.6	15.9
Dissolved Oxygen(mg/L)	00300	7.3	7.4	9.4	8.8	6.9	7	8.3	6.7	7.3	10.3	8.8	9.1
Conductivity(umhos/cm)	00094	545	626	634	599	570	343	530	520	503	568	559	516
Total Phosphorus(mg/L)	00665	0.11	0.14	0.03	0.15	0.04	0.14	0.181	0.14	0.061	0.036	0.068	<0.02
Nitrate-N(mg/L)	00620	1.32	1.38	1.6	1.52	0.5	0.74	1.46	1.15	0.894	1.19	1.46	0.372
Chloride(mg/L)	00940	31.7	39.8	44.3	36.6	45.6	16.7	37.7	28.9	32.4	37.1	35.9	24.4
Sulfate(mg/L)	00945	33.9	37.5	41.9	37.7	41	17.6	36	30.4	32.2	35.9	36.1	23.3
Total Hardness(mg/L)	00900	243	257	265	282	215	168	223	249	223	254	260	256
Ammonia-N(mg/L)	00610	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorophyll a(mg/m <sup>3</sup> )	32211	11.0	10.4	5.7	12.1	9.97	4.14	1.96	12.7	7.11	3.42	4.54	<1.00
Pheophytin(mg/m <sup>3</sup> )	32218	2.07	6.21	<1.0	1.1	2.89	3.06	<1.00	1.79	2.07	<1.00	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	0.50	0.54	0.47	0.46	0.2	0.67	0.63	0.54	0.37	0.3	0.38	0.41

TCEQ Segment 1803  
 TCEQ Station 12590  
 Station Number 25 Guadalupe River at FM 447, West of Nursery and upstream of South Texas Electric  
 Latitude 28/47/24 Longitude 97/00/36

Parameter	Date and 24 hour time	
	Parameter Code	5/7/20
Flow (cfs)	00061	524
E. coli(org/100mL)	31699	11
Suspended Solids(mg/L)	00530	28.4
Turbidity(NTU)	82079	22
pH	00400	7.9
Temperature(C)	00010	26.7
Dissolved Oxygen(mg/L)	00300	8.4
Conductivity(umhos/cm)	00094	523
Total Phosphorus(mg/L)	00665	0.036
Nitrate-N(mg/L)	00620	0.584
Chloride(mg/L)	00940	37.6
Sulfate(mg/L)	00945	37.1
Total Hardness(mg/L)	00900	219
Ammonia-N(mg/L)	00610	<0.10
Chlorophyll a(mg/m <sup>3</sup> )	32211	18.3
Pheophytin(mg/m <sup>3</sup> )	32218	2.92
Total Kjeldahl Nitrogen (mg/L)	00625	0.39

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 Latitude 28/47/24 Longitude 97/00/36

Parameter	Date and 24 hour time	
	Parameter Code	
Flow (cfs)	00061	
E. coli(org/100mL)	31699	
Suspended Solids(mg/L)	00530	
Turbidity(NTU)	82079	
pH	00400	
Temperature(C)	00010	
Dissolved Oxygen(mg/L)	00300	
Conductivity(umhos/cm)	00094	
Total Phosphorus(mg/L)	00665	
Nitrate-N(mg/L)	00620	
Chloride(mg/L)	00940	
Sulfate(mg/L)	00945	
Total Hardness(mg/L)	00900	
Ammonia-N(mg/L)	00610	
Chlorophyll a(mg/m <sup>3</sup> )	32211	
Pheophytin(mg/m <sup>3</sup> )	32218	
Total Kjeldahl Nitrogen (mg/L)	00625	