

TABLE 4

TNRCC Segment 1808  
 TNRCC Station 12626  
 Station Number 4 San Marcos River near Luling Water Treatment Plant  
 Latitude 29/40/02 Longitude 97/39/14

Parameter	Date and 24 hour time												
	Parameter Code	3/23/87	4/24/87	5/27/87	6/23/87	7/21/87	8/17/87	9/14/87	10/20/87	11/24/87	12/15/87	1/29/88	2/12/88
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Flow (cfs)													
Fecal Coliform(org/100mL)	31616	50	1430	104	78	770	50	54	13	30	45	10	12
Suspended Solids(mg/L)	530	10.8	14.7	24.3	15.3	131	17.1	32.5	13.1	3.2	8.4	8.4	3.8
Turbidity(NTU)	82079	10.6	10.6	25.5	65.7	123	14	23.8	13.4	11.5	10.8	9.1	8.5
pH	400	7.89	7.92	8.11	7.93	7.98	7.56	7.42	7.56	7.7	7.89	8.01	7.75
Temperature(C)	10	20.82	22.93	29.5	26.5	25.74	28.31	26.29	22.83	19.62	13.21	14.56	12.44
Dissolved Oxygen(mg/L)	300	7.86	7.2	5.3	6.75	7.05	6.73	7.18	7.5	7.96	10.9	9.89	9.91
Conductivity(umhos/cm)	94	562	566	593	475	538	588	601	611	6.28	640	572	570
Total Phosphorus(mg/L)	665	0.04	0.03	0.09	0.27	0.23	0.09	0.07	0.05	0.13	0.09	0.06	0.13
Nitrate-N(mg/L)	620	2.6	1.5	2.2	6.4	1.76	1.8	1.4	1.2	1.48	2	1.3	1.44
Water Quality Index		89.32	87.47	77.11	80.17	0	86.61	87.64	91.18	91.01	89.09	89.91	89.31

Parameter	Date and 24 hour time												
	Parameter Code	3/23/88	4/25/88	5/16/88	6/29/88	7/27/88	8/29/88	9/29/88	10/27/88	11/22/88	12/20/88	1/12/89	2/14/89
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Flow (cfs)													
Fecal Coliform(org/100mL)	31616	75	20	38	68	25	50	95	36	74	42	26	48
Suspended Solids(mg/L)	530	17.2	13.6	16.8	18.4	11.5	13.9	10.1	8.7	12.6	13.4	13.5	11
Turbidity(NTU)	82079	9.9	10	16.1	19.3	8.7	16	13	9.2	16	13.4	11.5	18.4
pH	400	7.95	8.01	7.93	7.93	7.06	7.69	7.81	8.21	8.46	8.43	8.38	8.51
Temperature(C)	10	22.07	24.63	25.02	28	28.95	27.89	26.77		15.31	13.89	14.02	16.75
Dissolved Oxygen(mg/L)	300	7.21	7.97	7.06	6.59	7.95	6.98	7.51		8.44	9.14	8.87	9.39
Conductivity(umhos/cm)	94	597	590	564	551	544	559	587	575	591	592	594	504
Total Phosphorus(mg/L)	665	0.08	0.01	0.11	0.1	0.07	0.06	0.07	0.11	0.191	0.16	0.15	0.15
Nitrate-N(mg/L)	620	1	1.7	0.6	1.2	0.96	1.6	1.3	0.68	1.56	1.98	1.88	0.7
Water Quality Index		86.64	89.49	88.08	84.34	88.01	87.1	84.81	86.79	82.72	84.81	87.9	86.38

Parameter	Date and 24 hour time												
	Parameter Code	3/13/89	4/10/89	5/8/89	6/8/89	7/11/89	8/15/89	9/11/89	10/18/89	11/28/89	12/29/89	1/22/90	2/26/90
-----													
Flow (cfs)												91	89
Fecal Coliform(org/100mL)	31616	25	40	410	24	22	34	34	60	39	8	20	42
Suspended Solids(mg/L)	530	13.5	30.2	34.6	18.3	13.7	23	15.2	16.7	14.6	6	12.8	11
Turbidity(NTU)	82079	17.8	31.8	45	18.1	17.5	24.5	22	18	17	16	9.9	14
pH	400	8.11	7.83	7.43	7.65	7.97	7.87	8.1	8.05	8.38	8.11	8.27	8.22
Temperature(C)	10	21	20.22	26.94	29.83	30.51	26.46	28.35	20.69	18.04	10.23	16.55	17.3
Dissolved Oxygen(mg/L)	300	12.43	6.99	6.42	6.84	6.82	6.09	5.62	7.14	7.38	11.2	7.6	9.16
Conductivity(umhos/cm)	94	530	581	507	512	510	543	542	599	584	578	601	573
Total Phosphorus(mg/L)	665	0.08	0.12	0.09	0.09	0.08	0.08	0.11	0.16	0.2	0.12	0.17	0.17
Nitrate-N(mg/L)	620	0.71	0.8	0.99	0.74	0.64	1.2	1.2	0.5	1.9	2	2.5	4.4
Water Quality Index		94.71	87.87	4	86.2	84.56	86.25	83.74	86.73	85.36	86.53	86.33	87.63

TABLE 4 (Con't)

TNRCC Segment 1808  
 TNRCC Station 12626  
 Station Number 4 San Marcos River near Luling Water Treatment Plant  
 Latitude 29/40/02 Longitude 97/39/14

Parameter	Date and 24 hour time												
	Parameter Code	3/21/90	4/17/90	5/30/90	6/25/90	7/24/90	8/9/90	9/11/90	10/9/90	11/5/90	12/4/90	1/21/91	2/11/91
Flow (cfs)		135	128	207	107	166	121	318	114	108	117	552	537
Fecal Colliform(org/100mL)	31616	74	20	52	70	384	88	2600	787	52	116	400	112
Suspended Solids(mg/L)	530	22	20	16.7	32.7	20.1	15.2	42.5	23.9	18.2	19.7	106	41.2
Turbidity(NTU)	82079	18	27	16	15	3	15	37	25	7.8	9.5	52	23
pH	400	7.99	8.19	7.92	7.85	7.79	7.96	7.75	7.7	8.05	8.02	8.6	7.65
Temperature(C)	10	18.42	21.64	27.54	29.6	27.42	28.35	24.83	25.8	18.34	15.31	11.9	16.9
Dissolved Oxygen(mg/L)	300	8.07	7.14	8.12	7	6.63	7.6	6.11	6.77	7.32	9.91	9.94	9.29
Conductivity(umhos/cm)	94	480	448	489	526	564	540	386	548	581	560	573	522
Total Phosphorus(mg/L)	665	0.19	0.16	0.11	0.09	0.16	0.11	0.26	0.17	0.16	0.18	0.28	0.12
Nitrate-N(mg/L)	620	2.8	0.82	0.56	0.46	0.98	1	0.9	0.22	0.9	2.81	1.3	0.75
Water Quality Index		86.48	87.87	87.47	83	14.14	83.49	0	0	87.02	82.84	0	84.44

Parameter	Date and 24 hour time												
	Parameter Code	3/21/91	4/15/91	5/13/91	6/4/91	7/8/91	8/6/91	9/4/91	10/14/91	11/20/91	12/27/91	1/15/92	2/27/92
Flow (cfs)		261	1790	653	386	266	189	501	173	172	4510	1110	2290
Fecal Colliform(org/100mL)	31616	76	7200	175	84	325	260	1212	67	38	3000	48	712
Suspended Solids(mg/L)	530	13.6	551	67	11.4	26.4	14.3	73.7	10	17.2	219	52.7	136
Turbidity(NTU)	82079	8.5	186	34	11	24	13	40	8.8	15	76	24	57
pH	400	8.17	7.97	8.19	7.18	7.88	8.11	8.06	8.31	7.98	8.12	7.97	8.23
Temperature(C)	10	19.83	21.5	24.97	26.81	26.9	27.83	24.76	23.46	19.32	12.59	13.84	15.3
Dissolved Oxygen(mg/L)	300	7.97	6.97	7.35	6.84	7.83	6.62	6.52	7.12	7.35	9.38	9.5	9.38
Conductivity(umhos/cm)	94	527	364	482	497	519	544	562	576	554	420	578	526
Total Phosphorus(mg/L)	665	0.19	1.38	0.21	0.06	0.15	0.08	0.23	0.08	0.13	0.2	0.12	0.22
Nitrate-N(mg/L)	620	0.75	0.81	0.53	0.66	1.04	0.9	1.4	1.13	0.52	0.18	1.55	1.04
Water Quality Index		86.25	0	69.75	86.74	36.09	52.41	0	85.21	88.46	0	85.62	0

Parameter	Date and 24 hour time												
	Parameter Code	3/17/92	4/29/92	5/13/92	6/9/92	7/29/92	8/18/92	9/16/92	10/21/92	11/25/92	12/16/92	3/39/90	2/25/93
Flow (cfs)		1590	791	650	3200	696	470	392	260	318	490	732	680
Fecal Colliform(org/100mL)	31616	76	76	46	254	156	51	68	24	221	16250	16800	688
Suspended Solids(mg/L)	530	63.6	31.2	12.3	112	25.9	13.3	22.7	16.2	13.4	27.6	97.7	27
Turbidity(NTU)	82079	26	24	6.2	44	17	25.6	18.8	9.7	24	30	74	18
pH	400	7.91	8.07	7.93	7.84	8.15	8.33	8.03	7.87	8.24	8.17	7.78	8.43
Temperature(C)	10	20.48	22.98	25.81	25.49	27.93	24.93	26.07	21.96	15.63	14.07	13.71	17.73
Dissolved Oxygen(mg/L)	300	8.03	7.16	7.22	7.16	6.87	7.23	6.29	7.48	8.92	9.13	9.31	8.72
Conductivity(umhos/cm)	94	599	600	584	503	559	569	527	607	574	558	593	506
Total Phosphorus(mg/L)	665	0.1	0.09	0.02	0.19	0.11	0.04	0.09	0.11	0.06	0.33	0.16	0.07
Nitrate-N(mg/L)	620	1.52	1.4	1.4	1.05	1.53	0.84	1.3	1.1	1.1	1.1	1.02	0.8
Water Quality Index		84.99	84.77	87.71	51.92	73.08	85.4	84.32	89.66	63.74	0	0	0

TABLE 4 (Con't)

TNRCC Segment 1808  
 TNRCC Station 12626  
 Station Number 4 San Marcos River near Luling Water Treatment Plant  
 Latitude 29/40/02 Longitude 97/39/14

Parameter	Date and 24 hour time												
	Parameter Code	3/25/93	4/19/93	5/28/93	6/22/93	7/20/93	8/11/93	9/29/93	10/14/93	11/17/93	12/29/93	1/19/94	2/23/94
Flow (cfs)		545	446	383	741	253	212	168	189	201	182	165	289
Fecal Colliform(org/100mL)	31616	950	28	48	512	92	72	50	164	84	54	36	462
Suspended Solids(mg/L)	530	37.4	248.8	18	92	19.8	21.7	12.5	10.9	13.2	11	15.6	22.6
Turbidity(NTU)	82079	24	21	17	44	18	8.7	6.5	4.6	8	6.7	9.7	20.2
pH	400	7.89	7.9	8.15	8	7.8	8.09	8.03	8.1	8.01	8.08	8.22	8.08
Temperature(C)	10	19.91	21.78	23.64	26.82	28.31	28.96	23.52	23.28	17.51	13.56	11.76	18.97
Dissolved Oxygen(mg/L)	300	7.55	7.06	8.1	6.46	6.06	7.01	7.89	7.78	7.69	9.51	10.03	7.77
Conductivity(umhos/cm)	94	520	538	536	478	549	547	585	629	591	576	579	540
Total Phosphorus(mg/L)	665	0.33	0.07	0.08	0.32	0.09	0.08	0.08	0.03	0.13	0.03	0.11	0.12
Nitrate-N(mg/L)	620	1.34	0.8	0.96	1.1	1.3	1.36	0.92	1.12	1.2	8.51	2.6	1.5
Water Quality Index		0	88.77	87.99	0	81.87	82.73	88.55	75.96	85.41	87	85.24	0

Parameter	Date and 24 hour time												
	Parameter Code	3/23/94	4/13/94	5/18/94	6/21/94	7/20/94	8/24/94	9/21/94	10/19/94	11/30/94	12/14/94	1/17/95	2/8/95
Flow (cfs)		279	196	698									
Fecal Colliform(org/100mL)	31616	25	75	312	70	72	36	104	67000	44	72	92	60
Suspended Solids(mg/L)	530	31	20.7	108	15	9.5	13.6	16.2	625	21	13	15.4	15.8
Turbidity(NTU)	82079	28	18	53	18	5	10	16	294	14	8.7	8.5	13
pH	400	7.96	8.07	7.71	8	7.67	7.13	7.93	7.62	7.96	8.2	8.07	7.94
Temperature(C)	10	21.7	21.78	24.63	28.3	26.61	29.26	25.88	22.74	17.06	15.14	17.33	14.34
Dissolved Oxygen(mg/L)	300	7.18	7.57	6.58	6.64	7.46	6.34	7.87	6.39	8.63	8.96	8.74	9.43
Conductivity(umhos/cm)	94	490	534	418	5.34	551	557	558	334	556	555	534	617
Total Phosphorus(mg/L)	665	0.17	0.14	0.28	0.11	0.1	0.08	<0.01	1.1	0.09	0.07	0.16	0.06
Nitrate-N(mg/L)	620	0.72	0.86	0.8	0.92	1	1.1	1.2	0.82	1.22	1.08	0.96	0.78
Water Quality Index		88.3	86.21	35.56	83.68	87.3	86.94	83.89	0	88.8	85.18	85.53	87.38

Parameter	Date and 24 hour time												
	Parameter Code	3/15/95	4/27/95	5/31/95	6/13/95	7/18/95	8/22/95	9/26/95	10/16/95	11/28/95	12/19/95	1/9/96	2/13/96
Flow (cfs)													
Fecal Colliform(org/100mL)	31616	1625	24	8800	116	32	30	56	14	60	88	10	16
Suspended Solids(mg/L)	530	104	25.1	391	41.9	13.1	11	20.3	9.2	10.9	15.5	9.2	7.1
Turbidity(NTU)	82079	57	13	173	21	13	8	18	6	7.9	9.4	6	4.6
pH	400	7.75	8.15	7.8	8.23	8.12	8.18	8.24		8.16	8.07	7.75	8.33
Temperature(C)	10	19.16	20.81	22.2	25.42	29.5	29.07	22.82	8.35	17.44	17.24	10.33	16.28
Dissolved Oxygen(mg/L)	300	7.57	8.73	7.97	7.35	7.69	7.55	7.86	21.02	8.37	8.29	12	10.42
Conductivity(umhos/cm)	94	440	560	290	500	500	520	561	576	571	577	534	528
Total Phosphorus(mg/L)	665	0.3	0.14	0.72	0.22	0.11	0.24	0.12	0.12	0.11	0.24	0.11	0.14
Nitrate-N(mg/L)	620	1.08	1.2	0.62	0.72	1.8	1	1.71	1.15	1.06	1.44	1.28	1.1
Water Quality Index		0	89.27	0	79.11	85.36	85.04	86.56	88.79	87.28	84.81	86.46	89.91



TABLE 4 (Cont)

TNRCC Segment 1808  
 TNRCC Station 12626  
 Station Number 4 San Marcos River near Luling Water Treatment Plant  
 Latitude 29/40/02 Longitude 97/39/14

Parameter	Parameter Code	Date and 24 hour time											
		3/14/99	4/13/99	5/19/99	6/9/99	7/14/99	8/23/99	9/14/99	10/25/99	11/09/99	12/13/99	1/18/00	2/17/00
Flow (cfs)		467	278	261	202	181	157	140	120	119	119	125	120
Fecal Coliform(org/100mL)	31616	38	32	80	28	173	82	25	16	9	20	20	45
Suspended Solids(mg/L)	530	8.5	12	12.8	15.2	13.2	7.7	7.5	4.9	3.1	8.1	5.3	9.6
Turbidity(NTU)	82079	5	8.3	12	14.5	9.7	4.9	4.5	15.0	3.4	3.4	4.8	5.6
pH	400	8.36	8.19	7.86	7.97	7.89	8.28	8.06	7.97	7.97	8.45	8.32	8.17
Temperature(C)	10	18.74	24.16	24.68	28.73	28.98	29.29	27.88	17.44	19.96	15.35	17.95	20.15
Dissolved Oxygen(mg/L)	300	9.19	6.54	7.07	7.21	6.68	7.12	8.97	9.11	8.78	9.03	8.94	8.51
Conductivity(umhos/cm)	94	627	582	586	550	481	505	496	520	592	558	553	546
Total Phosphorus(mg/L)	665	0.12	<0.01	0.14	0.13	0.085	<0.01	<0.01	0.024	0.151	0.08	<0.01	0.058
Nitrate-N(mg/L)	620	0.6	1.35	1.13	1.41	0.72	1.05	1.42	0.79	1.37	1.36	1.64	1.48
Chloride(mg/L)	940	27.2	27.5	40.6	33	19.1	27.6	28.4	25.5	26.3	30.1	27.1	29.7
Sulfate(mg/L)	945	28.6	32.5	31.7	31.8	8.2	24	27.5	24.8	28.5	26.2	26	30.2
Total Hardness(mg/L)	900	285	274	222	180	204	227	212	214	258	264	258	261
Ammonia-N(mg/L)	610		0.12		0.09		0.11		0.08		0.2		0.19
E. coli(org/100mL)	31648	38	28	48	24	173	10	4	12	9	18	16	45
Chlorophyll a(mg/m <sup>3</sup> )	32211	1.4	<1	1.9	3.2	1	1.5	<1	<1	<1	<1	<1	3.4

Water Quality Index

Parameter	Parameter Code	Date and 24 hour time											
		3/20/00	4/18/00	5/16/00	6/20/00	7/17/00	8/15/00	9/20/00	10/26/00	11/17/00	12/18/00	1/15/01	2/14/01
Flow (cfs)		120	109		197	121	106	89	129	295	125	588	473
Fecal Coliform(org/100mL)	31616	104	42	36	89	50	24	26	112	144	28	124	84
Suspended Solids(mg/L)	530	17.6	12.6	13	31.2	15.6	17.1	11.8	22.1	27.1	14.7	32.3	20.2
Turbidity(NTU)	82079	18	8.95	9	20	9	18	16.0	22.5	21.00	10	18	11.8
pH	400	8.12	8.00	7.84	7.31	8.00	7.72	8.06	7.64	8.10	8.24	8.16	7.79
Temperature(C)	10	18.08	24.57	27.57	28.90	31.49	29.08	25.20	23.34	16.17	13.13	13.79	17.66
Dissolved Oxygen(mg/L)	300	9.6	8.01	7.87	6.83	7.12	5.73	6.96	6.76	9.89	10.97	10.82	10.09
Conductivity(umhos/cm)	94	563	573	566	514	497	530	515	544	557.00	586	529	573
Total Phosphorus(mg/L)	665	0.147	0.052	0.08	0.08	0.02	0.065	0.06	0.07	0.07	0.08	0.08	0.06
Nitrate-N(mg/L)	620	1.59	1.42	1.42	0.981	1.13	0.937	1.08	1.75	1.61	1.25	0.95	1.26
Chloride(mg/L)	940	30.7	33.3		28.6	28	28.9	27	25.6	21.2	22.8	19.6	22.4
Sulfate(mg/L)	945	35.4	31.5		37.7	28.8	26.2	26.9	41	31.2	31.6	32.6	27.8
Total Hardness(mg/L)	900	240	257		236	202	241	233	223	295	304	263	294
Ammonia-N(mg/L)	610		0.12		0.14		0.14		0.3		0.1		0.02
E. coli(org/100mL)	31648	96	40		24	10	8	17	88	44	10	80	4
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	<1		<1	1.9	4.2	<1	5.8	<1	<1	<1	<1

Water Quality Index

Parameter	Parameter Code	Date and 24 hour time											
		3/19/01	4/17/01	5/7/01	6/21/01	7/16/01	8/9/01	9/11/01	10/11/01	11/17/01	12/10/01	1/15/02	2/12/02
Flow (cfs)		627	523	703	391	198	164	320	214	238	1170	721	533
Fecal Coliform(org/100mL)	31616	44	58	115	16	16	35	1400	89	34	**		
Suspended Solids(mg/L)	530	27.1	38	35.2	13.8	17.7	18.1	40.3	12.9	15.2	91.7	15.1	9.8
Turbidity(NTU)	82079	15	19	21	5.8	9.5	12	23.0	5.2	6.40	44	10	3.6
pH	400	8.12	7.90	8.07	7.63	7.84	8.16	8.08	7.70	8.02	8.04	7.98	7.91
Temperature(C)	10	15.42	23.98	24.35	28.05	29.92	29.80	25.96	23.86	19.84	15.34	14.84	17.67
Dissolved Oxygen(mg/L)	300	10.65	7.89	7.42	7.72	7.23	8.81	7.37	7.71	9.14	10.34	10.23	10.2
Conductivity(umhos/cm)	94	566	581	517	558	7.23	529	535	541	542.00	543	606	572
Total Phosphorus(mg/L)	665	0.11	0.08	0.08	0.02	<0.01	0.06	0.17	0.1	0.07	0.29	0.12	0.09
Nitrate-N(mg/L)	620	1.05	1.14	0.92	1.16	1.2	1.3	0.96	1.26	0.89	0.9	0.96	1.4
Chloride(mg/L)	940	22.8	24.1	24.8	31	41.4	29.4	16	26.2	24.6	17.8	23.2	13
Sulfate(mg/L)	945	29.6	26	28.6	23.8	24.4	25.8	23.5	26.8		30	12.6	26.8
Total Hardness(mg/L)	900	262	375	224	254	238	213	224	260	259	253	257	172
Ammonia-N(mg/L)	610		0.05		<0.02		<0.02		0.02		<0.02		<0.02
E. coli(org/100mL)	31648	32	44	20	12	12	8	56	14	34	1413	58	44
Chlorophyll a (mg/m <sup>3</sup> )	32211	<1	<1.0	<1	1.4	1	1.3	13.4	<1	<1	<1	3.3	<1
Pheophytin (mg/m <sup>3</sup> )	32118										40.6	1.7	11.4

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

TABLE 4 (Con't)

TCEQ Segment 1808  
 TCEQ Station 12626  
 Station Number 4 San Marcos River near Luling Water Treatment Plc  
 Latitude 29/40/02 Longitude 97/39/14

Parameter	Date and 24 hour time												
	Parameter Code	3/21/02	4/16/02	5/13/02	6/13/02	7/25/02	8/9/02	9/18/02	10/21/02	11/14/02	12/15/02	1/8/03	2/26/03
Flow (cfs)		540	497	187	203	1110	638	518	859	1070	1000	703	1310
E. coli(org/100mL)	31669	111	172	78	16	111	68	34	411	77	133	78	487
Suspended Solids(mg/L)	530	17.9	15.4	11.5	4.5	38	26.3	19.8	55.2	29.9	28.3	13.8	80.7
Turbidity(NTU)	82079	10	12	8.7	3.4	36	5.7	5.5	32.0	18	16.2	6.8	28.0
pH	400	8.11	7.93	7.84	7.86	7.89	7.86	7.77	7.95	7.86	8.04	7.72	7.57
Temperature(C)	10	19.64	24.21	26.05	29.59	27.6	27.4	25	21.4	17.8	10	15.4	10.7
Dissolved Oxygen(mg/L)	300	9.93	7.68	6.28	6.94	8.18	7.73	8.19	8.37	9.62		9.95	11.9
Conductivity(umhos/cm)	94	604	620	560	555	575	554	577	555	621	590	632	555
Total Phosphorus(mg/L)	665	0.07	0.1	0.08	0.12	0.13	<0.01	0.08	0.16	0.14	0.06	<0.05	0.1
Nitrate-N(mg/L)	620	1.5	1.3	1	1.1	1.23	0.5	0.61	0.66	0.56	0.62	0.8	0.55
Chloride(mg/L)	940	31.3	33	26.2	28	17.2	20	22.2	20.1	23.5	22.9	25.1	22.6
Sulfate(mg/L)	945	32	21.2	30	30.1	24.4	28.8	31.1	25.8	30.9	32.3	33.8	27.3
Total Hardness(mg/L)	900	340	216	247	276	305	249	267	273	292	305	260	276
Ammonia-N(mg/L)	610		0.04		0.05		<0.02		0.02		0.02		0.03
Chlorophyll a (mg/m <sup>3</sup> )	32211	2.3	1.4	1	1.2	<1	1.7	2.1	1.7	<1	1.07	<1	<1
Pheophytin (mg/m <sup>3</sup> )	32118	5.5	2.7	3.3	4.7	12.9	5.8	<1	2.5	<1	<1	1.71	2.07

Parameter	Date and 24 hour time												
	Parameter Code	3/19/03	4/14/03	5/14/03	6/23/03	7/25/03	8/19/03	9/15/03	10/06/03	11/04/03	12/05/03	01/12/04	02/16/04
Flow (cfs)		634	809	571	390	236	234	473	207	209	*	*	*
E. coli(org/100mL)	31669	56	37	78	37	38	40	356	93	27	29	20	86
Suspended Solids(mg/L)	530	7.5	9.3	16.2	9.6	14.1	11.3	110.0	8	12	10.7	12.8	15.7
Turbidity(NTU)	82079	6.3	5.7	7.8	7.6	6	14.2	49.7	10.3	10.3	10.2	9.98	14.6
pH	400	7.91	7.67	7.77	7.84	7.9	7.90	7.71	8.11	8.10	8.14	8.11	8.30
Temperature(C)	10	19.6	22.10	25.10	29.20	28.6	28.8	25	23.8	24	16.4	13.4	12.3
Dissolved Oxygen(mg/L)	300	9.68	8.87	9.02	6.91	7.65	10.5	7.71	8.24	7.96	9.46	14.5	10.8
Conductivity(umhos/cm)	94	608	614	604	561	561	543	445	580	522	534	587	577
Total Phosphorus(mg/L)	665	0.1	0.08	0.04	0.02	0.03	0.04	0.51	0.02	0.04	0.18	0.11	0.06
Nitrate-N(mg/L)	620	0.53	0.51	0.6	0.64	0.5	0.62	0.88	0.63	0.83	0.58	0.88	0.66
Chloride(mg/L)	940	27.6	29.5	28.2	24.9	24.6	24.1	18.5	25.9	26.7	28.5	26.5	29.6
Sulfate(mg/L)	945	36.3	35.9	34.3	33.2	33.7	30.1	29.2	30.9	31.2	33.3	31.8	39.2
Total Hardness(mg/L)	900	269	266	273	158	245	243	200	251	264	274	266	270
Ammonia-N(mg/L)	610		0.03		0.02		0.02		0.03		<0.02		0.07
Chlorophyll a (mg/m <sup>3</sup> )	32211	3.16	1.56	1.13	2.1	<1.0	<1.0	1.6	2	<1.0	<5.0	<5.0	<5.0
Pheophytin (mg/m <sup>3</sup> )	32118	2.29	1.68	<1.0	<1.0	3.8	1.9	2.8	<1.0	1.7	<3.0	<3.0	<3.0

\*Flow value was not reported due to construction on the flow gauge

Parameter	Date and 24 hour time												
	Parameter Code	03/08/04	04/16/04	05/20/04	06/15/04	7/14/04	8/9/04	9/13/04	10/19/04	11/9/04	12/8/04	1/7/05	2/9/05
Flow (cfs)		*	*	*	*	742	448	340	400	*	*	844	1200
E. coli(org/100mL)	31669	31	169	82	56	65	-----	91	107	-----	67	99	1740
Suspended Solids(mg/L)	530	22.6	36.8	40.9	106	22.6	25.7	18.6	35.2	36.3	75.7	29.4	115
Turbidity(NTU)	82079	15.7	30.5	30	75	16	7.0	16.7	20.80	24.6	56.5	16.8	85.1
pH	400	7.54	8.26	7.49	7.86	7.99	7.88	7.98	8.02	7.91	7.55	8.00	7.82
Temperature(C)	10	19.4	19.60	26.50	26.90	27.70	27.10	26.50	24.90	19.50	17.10	16.10	15.50
Dissolved Oxygen(mg/L)	300	9.79	10.5	6.26	6.99	7.2	7.49	7.2	7.45	9.33	12.2	9.77	9.57
Conductivity(umhos/cm)	94	623	531	590	499	567	539	601	558.00	559	602	613	531
Total Phosphorus(mg/L)	665	0.07	0.1	0.07	0.14	0.12	<0.06	0.06	0.10	0.07	0.13	0.07	0.13
Nitrate-N(mg/L)	620	0.63	0.57	0.31	0.32	0.69	0.46	0.58	0.41	0.84	1.15	1.38	1.55
Chloride(mg/L)	940	31.2	20.6	18.3	21.4	21.6	23.1	25.2	23	17.9	19.6	24.5	30
Sulfate(mg/L)	945	39	28.2	25.1	27.4	27.3	28.2	30.5	29.3	25.7	29.8	34.9	39.1
Total Hardness(mg/L)	900	261	258	251	270	262	252	249	273	273	313	290	262
Ammonia-N(mg/L)	610		0.02		0.04		0.03		0.04		0.02		0.09
Chlorophyll a (mg/m <sup>3</sup> )	32211	<5.0	<5.0	<5.0	<5.0	<5	<1	2.1	<1	<1	1.1	<1	2.7
Pheophytin (mg/m <sup>3</sup> )	32118	<3.0	4.6	<3.0	<3.0	<3	<3	<3	<3	<3	<3	<3	<3

\*Flow value was not reported due to construction on the flow gauge

TABLE 4 (Con't)

TCEQ Segment 1808  
 TCEQ Station 12626  
 Station Number 4 San Marcos River near Luling Water Treatment Plant  
 Latitude 29/40/02 Longitude 97/39/14

Parameter	Date and 24 hour time												
	Parameter Code	3/3/05	4/6/05	5/2/05	6/6/05	7/6/05	8/4/05	9/8/05	10/7/05	11/4/05	12/9/05	1/5/06	2/1/06
Flow (cfs)		772	538	434	304	216	173	180	187	139	151	149	
E. coli(org/100mL)	31669	9676	50	28	69	52	120	42	170	96	66	350	54
Suspended Solids(mg/L)	530	157	23.3	12.6	16	201	21.3	15.7	13	9.3	8.7	15.3	12
Turbidity(NTU)	82079	130	13.3	11.4	14.2	15	11.6	12.2	9.7	7	5.5	9.6	10.6
pH	400	7.95	7.73	8.03	7.92	7.90	7.92	7.98	8.01	8.05	8.00	8.04	7.78
Temperature(C)	10	15.30	20.70	21.50	27.3	29.4	29.1	27	24.7	19.2	10.3	16.9	17
Dissolved Oxygen(mg/L)	300	10.22	9.15	8.81	7.80	7.24	6.91	7.41	7.40	9.46	10.3	10.6	7.12
Conductivity(umhos/cm)	94	492	571	562	530	523	515	527	532	546	585	573	573
Total Phosphorus(mg/L)	665	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate-N(mg/L)	620	1.19	0.99	1.11	0.94	1.21	1.15	1.27	1.4	1.21	1.54	1.33	1.33
Chloride(mg/L)	940	26.8	22.4	23.6	22.2	23.4	23.1	24.7	25	25	27	28	31.5
Sulfate(mg/L)	945	35.3	31.1	30	28.9	28.2	28.8	28.9	29	34.9	30.1	33	38
Total Hardness(mg/L)	900	252	274	258	246	240	246	238	254	268	270	266	262
Ammonia-N(mg/L)	610		0.03		0.03		0.02		0.03		<0.02		0.03
Chlorophyll a (mg/m <sup>3</sup> )	32211	9.2	5	1.5	3.3	1	1.5	<1	<1	<1	<1	1	1.3
Pheophytin (mg/m <sup>3</sup> )	32118	4	<3	<3	<3	<3	<3	<3	<1	<1	<1	<1	<1

Parameter	Date and 24 hour time												
	Parameter Code	3/2/06	4/4/06	5/4/06	6/5/06	7/10/06	8/7/06	9/8/06	10/10/06	11/3/06	12/6/06	1/8/07	2/5/07
Flow (cfs)		141	127	109	110	213	93	97	103	106	126	205	
E. coli(org/100mL)	31669	250	25	27	15	2	70	24	460	34	140	270	57
Suspended Solids(mg/L)	530	5.3	15.7	17.3	8.7	4.7	14.7	22.7	29.3	17	11.3	20	25.7
Turbidity(NTU)	82079	9.4	12.4	16.5	8.3	4.2	20.9	19.1	14.4	15.9	9.3	20.1	18.7
pH	400	7.90	8.11	7.92	8.03	8.22	7.78	7.96	7.85	7.97	7.96	7.97	7.89
Temperature(C)	10	21.00	25.20	25.80	27.4	30.8	29.1	24.6	23.7	18.2	11.9	13.6	13.7
Dissolved Oxygen(mg/L)	300	10.1	8.67	8.46	8.46	7.6	5.22	6.98	7.17	9.46	10.9	12.6	10.7
Conductivity(umhos/cm)	94	568	564	540	525	675	494	522	506	563	595	750	635
Total Phosphorus(mg/L)	665	<0.05	<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)	620	1.24	1.2	1.3	1.01	<0.02	0.78	0.92	1.01	1.2	1.36	1.08	1.38
Chloride(mg/L)	940	29.4	29.4	29	28.8	43.9	28.2	27.2	28.3	27.6	31.3	56.5	23.5
Sulfate(mg/L)	945	33.3	33.9	32.2	32.9	44.8	30.2	31.4	30.8	30.1	30.8	63.8	35.6
Total Hardness(mg/L)	900	251	258	257	239	252	222	229	209	262	266	293	276
Ammonia-N(mg/L)	610		0.03		0.04		0.06		0.02		0.03		0.02
Chlorophyll a (mg/m <sup>3</sup> )	32211	1.2	1.2	2.2	<1	1.7	1.2	<1	<1	<1	<1	1.2	<1
Pheophytin (mg/m <sup>3</sup> )	32118	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Parameter	Date and 24 hour time												
	Parameter Code	3/8/07	4/4/07	5/9/07	6/15/07	7/9/07	8/6/07	9/12/07	10/11/07	11/14/07	12/12/07	1/7/08	2/15/08
Flow (cfs)	00061	146	990	637	396	1100	1400	880	589	466	428	352	277
E. coli(org/100mL)	31669	77	390	240	50	250	110	70	40	30	45	51	42
Suspended Solids(mg/L)	00530	17	118	52.3	12.7	96	73.3	36.7	55.7	18.7	15.3	10.7	14
Turbidity(NTU)	82079	15.3	85.9	35.9	9.46	53.6	45.3	22.2	25.40	12.4	13.7	10.3	10.9
pH	00400	7.95	7.96	8.04	7.89	7.99	7.97	7.91	7.80	7.89	7.88	8.00	7.80
Temperature(C)	00010	18.2	22.2	24.8	28.3	26.7	26.9	25.4	25.4	21.9	17.5	17.4	18
Dissolved Oxygen(mg/L)	00300	10.3	7.89	10.70	7.20	7.37	7.16	9.31	8.91	7.64	8.87	9.7	8.4
Conductivity(umhos/cm)	00094	597	520	526	500	482	540	513	534	569	561	569	534
Total Phosphorus(mg/L)	00665	<0.05	0.11	0.1	<0.05	0.11	0.07	0.08	0.05	<0.05	<0.05	<0.05	<0.05
Nitrate-N(mg/L)	00620	1.11	0.89	0.85	0.8	0.64	0.68	0.77	0.98	1.13	1.31	1.16	1.19
Chloride(mg/L)	00940	22.8	13.8	9.6	18.4	14.2	14.3	16.7	22.1	22.9	19.8	24.4	24.7
Sulfate(mg/L)	00945	33.5	26.2	24.9	27.5	21.7	22.9	25.1	31.5	32.4	26.6	29	33.7
Total Hardness(mg/L)	00900	264	298	284	248	258	270	275	263	261	295	271	313
Ammonia-N(mg/L)	00610		0.03		0.02		0.04		<0.10		0.13		<0.1
Chlorophyll a (mg/m <sup>3</sup> )	32211	1.1	<1	1.5	<1	2	<1	1	3.4	1.3	1.1	2.1	1
Pheophytin (mg/m <sup>3</sup> )	32218	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7	<1.0
Total Kjeldahl Nitrogen (mg/L)	00625								<0.50		<0.5		<0.5

TABLE 4 (Con't)

TCEQ Segment 1808  
 TCEQ Station 12626  
 Station Number 4 San Marcos River near Luling Water Treatment Plant  
 Latitude 29/40/02 Longitude 97/39/14

Parameter	Date and 24 hour time												
	Parameter Code	3/12/08	4/9/08	5/7/08	6/11/08	7/3/08	8/6/08	9/9/08	10/7/08	11/12/08	12/4/08	1/7/09	2/16/09
Flow (cfs)	00061	241	159	133	111	111	111	101	105	102	106	111	107
E. coli(org/100mL)	31669	80	44	44	45	55	49	55	40	32	72	76	51
Suspended Solids(mg/L)	00530	19.7	24	7.7	19.3	14.3	9.0	25.3	12	10.3	14.7	13	15.3
Turbidity(NTU)	82079	10.9	15.4	9.8	13.4	16	18.5	23.8	13.3	9.59	13.1	14.4	17.9
pH	00400	8.00	7.90	7.9	7.9	7.90	7.70	7.90	7.90	7.90	7.90	7.80	7.9
Temperature(C)	00010	17.00	25.00	24.40	28.8	27.1	29.2	28	24.2	20.2	14	12.1	16.3
Dissolved Oxygen(mg/L)	00300	9.2	7.4	7.60	6.20	6.6	5.6	6.9	6.90	7.6	8.6	11.2	9
Conductivity(umhos/cm)	00094	606	535	534	510	595	482	505	513	551	552	567	570
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	<0.05
Nitrate-N(mg/L)	00620	1.36	1.12	1.03	0.94	0.9	0.8	0.81		1.09	1.18	1.2	1.2
Chloride(mg/L)	00940	23.9	25.7	25.6	25	26.4	26.3	24.4	28.3	28.2	25.9	29.1	29.2
Sulfate(mg/L)	00945	31.3	35.3	32	30.3	30.9	31.6	27	31.6	32.4	28.7	29.8	31.2
Total Hardness(mg/L)	00900	283	262	253	249	242	226	212	227	253	266	269	276
Ammonia-N(mg/L)	00610		<0.1		<0.1		0.17		<0.1		0.13		0.21
Chlorophyll a (mg/m <sup>3</sup> )	32211	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pheophytin (mg/m <sup>3</sup> )	32218	1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Kjeldahl Nitrogen (mg/L)	00625		<0.2		0.2		<0.2		0.2		0.24		0.26

Parameter	Date and 24 hour time												
	Parameter Code	3/10/09	4/7/09	5/5/09	6/3/09	7/06/09	8/03/09	9/03/09	10/05/09	11/04/09	12/01/09	1/12/10	2/3/10
Flow (cfs)	00061	98	82	86	84	82	63	62	472	311	476	261	1010
E. coli(org/100mL)	31669	30	24	920	38	45	16	17	6130	410	310	26	540
Suspended Solids(mg/L)	00530	16	27	40.7	15.3	12.7	12.7	14.7	116	53.7	34	9.3	106
Turbidity(NTU)	82079	17.8	20	35	16.6	14.2	6.3	16.5	106	42.8	28.4	7.7	34.2
pH	00400	7.90	8.00	7.8	7.9	8.00	8.00	7.90	8.10	7.80	7.90	7.90	7.9
Temperature(C)	00010	22.10	17.60	25.20	27.8	31.2	29.9	27.3	24.2	18.5	15.4	10.3	12.5
Dissolved Oxygen(mg/L)	00300	8.4	9.5	6.20	8.40	5.7	6.2	7.4	7.10	9.3	10.9	11.3	11.3
Conductivity(umhos/cm)	00094	543	556	528	488	473	498	503	449	586	582	569	524
Total Phosphorus(mg/L)	00665	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.24	0.06	<0.05	<0.05	0.07
Nitrate-N(mg/L)	00620	1.05	0.98	1.03	0.81	0.49	0.55	0.08	1.4	1.24	1	1.1	1.03
Chloride(mg/L)	00940	26.9	31.3	26.8	25.4	31.7	26.6	26.6	18.2	18	21.7	24.2	16.1
Sulfate(mg/L)	00945	29.2	30.6	29.5	28.3	29.2	30.8	29.7	21.1	30.6	35.7	37.2	28.8
Total Hardness(mg/L)	00900	247	243	245	215	208	220	237	236	299	299	316	302
Ammonia-N(mg/L)	00610		<0.1		<0.1		0.13		0.19		0.1		<0.1
Chlorophyll a (mg/m <sup>3</sup> )	32211	1.2	<1	1	<1	1.2	<1	<1	<1	<1	<1	<1	<1
Pheophytin (mg/m <sup>3</sup> )	32218	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Kjeldahl Nitrogen (mg/L)	00625		0.2		0.24		<0.2		0.91		0.35		0.48

Parameter	Date and 24 hour time												
	Parameter Code	3/10/10	4/14/10	5/4/10	6/16/10	7/6/10	8/3/10	9/15/10	10/7/10	11/15/10	12/2/10	1/5/11	2/7/11
Flow (cfs)	00061	703	460	346	614	451	292	538	313	229	208	196	184
E. coli(org/100mL)	31669	48	69	66	74	75	64	160	28	28	28	70	35
Suspended Solids(mg/L)	00530	29	34.7	23	63.5	25	25.3	54.7	11.6	18.3	13.8	11.4	15.9
Turbidity(NTU)	82079	19	20.1	17.1	47.9	21.1	20.9	42.1	5.90	10.2	11.1	10.1	8.8
pH	00400	7.8	8.00	7.9	7.7	8.10	7.90	8.10	8.10	8.00	8.00	8.00	8.00
Temperature(C)	00010	19.8	21.5	22.9	29.2	28.1	29.2	28.4	20.4	17.9	13.8	14.8	11.3
Dissolved Oxygen(mg/L)	00300	9.2	9.8	8.60	6.90	7.3	9.8	6.8	8.60	8.4	9.7	9.4	11.4
Conductivity(umhos/cm)	00094	572	579	556	477	536	514	536	530	575	559	562	564
Total Phosphorus(mg/L)	00665	<0.05	<0.05	<0.05	0.08	0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate-N(mg/L)	00620	1.12	1.21	1.09	0.59	0.64	1.09	1.09	1.02	1.16	1.14	1.18	1.25
Chloride(mg/L)	00940	19.6	23.1	23.1	18.5	22.4	25.4	17.4	20.1	24.4	24	24.5	22.5
Sulfate(mg/L)	00945	28.6	34.3	31.8	28	32.8	31.9	26.7	27.1	30.7	29.6	30.9	25.9
Total Hardness(mg/L)	00900	282	282	262	223	245	238	298	232	257	280	272	262
Ammonia-N(mg/L)	00610		0.13		0.16		0.14		0.12		0.17		0.13
Chlorophyll a (mg/m <sup>3</sup> )	32211	<1	<1	<1	1.5	<1.0	<1	<1	<1	2.7	<1	<1	1.2
Pheophytin (mg/m <sup>3</sup> )	32218	<1	<1	<1	1.7	<1.0	<1	<1	<1	<1.0	<1	<1	<1
Total Kjeldahl Nitrogen (mg/L)	00625		0.42		0.46		0.27		<0.2		<0.2		0.2



TABLE 4 (Con't)

TCEQ Segment 1808  
 TCEQ Station 12626  
 Station Number 4 San Marcos River near Luling Water Treatment Plant  
 Latitude 29/40/02 Longitude 97/39/14

Parameter	Date and 24 hour time												
	Parameter Code	3/3/11	4/5/11	5/13/11	6/2/11	7/12/11	8/1/11	9/13/11	10/18/11	11/7/11	12/6/11	1/10/2012	2/13/2012
Flow (cfs)	00061	158	146	146	108	89	84	69	80	93	131	122	236
E. coli(org/100mL)	31669	67	43	94	20	43	18	16	34	44	>2420	93	290
Suspended Solids(mg/L)	00530	17.4	19.5	15.7	12.2	21.1	19.4	14.3	16.6	9.1	26.3	20.1	24.9
Turbidity(NTU)	82079	11	8.2	12.5	7.7	13.8	11.7	12.1	13	6	23.4	14.5	17.5
pH	00400	8.00	8.00	7.9	8	8.00	7.90	7.70	7.60	7.90	7.90	7.8	8
Temperature(C)	00010	18.90	21.70	24.90	28.8	30	30.4	26.8	22.7	17.7	13	14.6	12.4
Dissolved Oxygen(mg/L)	00300	9.2	8.2	6.30	7.10	5.8	5.6	7.4	7.90	8.6	9.2	8.6	10
Conductivity(umhos/cm)	00094	555	555	524	510	500	514	506	518	563	611	575	618
Total Phosphorus(mg/L)	00665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	0.02	<0.02	0.14	0.03	0.11
Nitrate-N(mg/L)	00620	1.05	1.18	1.19	0.94	0.6	0.87	0.73	1.16	1.29	1.46	1.21	1.84
Chloride(mg/L)	00940	28.2	28.1	28.7	30	29	28	27.3	23.1	31.4	29.7	27.1	27.1
Sulfate(mg/L)	00945	33.1	31.3	30.7	31.1	29.8	52.8	27.3	26.3	31.4	30.3	29.7	35.3
Total Hardness(mg/L)	00900	258	262	260	232	220	212	216	248	254	282	265	308
Ammonia-N(mg/L)	00610		0.16		0.12		0.16	<0.1		0.13		0.22	
Chlorophyll a (mg/m <sup>3</sup> )	32211	<1	1.2	<1	1.2	1.3	<1	<1	<1	<1	<1	1.8	<1.0
Pheophytin (mg/m <sup>3</sup> )	32218	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1.0	<1.0
Total Kjeldahl Nitrogen (mg/L)	00625		0.3		0.24		<0.2	0.28	0.21	0.22	0.59	0.22	0.29

Parameter	Date and 24 hour time												
	Parameter Code	3/6/12	4/4/12	5/2/12	6/14/12	7/10/12	8/14/12	9/5/12	10/17/12	11/19/12	12/18/12	1/7/13	2/4/13
Flow (cfs)	00061	198	366	197	241	217	136	146	169	157	153	139	144
E. coli(org/100mL)	31669	91	86	36	35	44	38	53	40	43	66	13	37
Suspended Solids(mg/L)	00530	15.3	36.7	12.3	8.4	14.5	15.5	14.9	13.4	7.6	8.88	5.57	7.8
Turbidity(NTU)	82079	9.4	23.1	10.7	7.8	7.6	13.0	13.1	6.58	5.3	7.7	5.8	7.4
pH	00400	7.80	7.90	7.9	8	8.00	7.80	7.90	7.60	7.90	8.00	8.20	8
Temperature(C)	00010	18.70	24.40	25.20	28.4	29.6	29.9	28.7	23	15.8	15.9	10.9	16.9
Dissolved Oxygen(mg/L)	00300	9.1	7.4	7.50	7.20	7.4	7.6	7.5	8.00	9.9	10	11.4	10.4
Conductivity(umhos/cm)	00094	392	613	574	530	490	511	512	547	552	582	565	543
Total Phosphorus(mg/L)	00665	0.03	0.05	0.03	0.02	0.03	0.02	0.02	0.02	<0.02	0.08	0.15	0.02
Nitrate-N(mg/L)	00620	1.53	1.38	1.28	1.06	1.16	1.01	1.22	1.35	1.41	1.31	1.35	1.25
Chloride(mg/L)	00940	28	24.7	25.2	25.4	25.6	25.2	26.5	28.6	26.8	26.8	26.1	28.1
Sulfate(mg/L)	00945	35.4	33.9	31.4	31.5	29.6	29.2	29.9	31.9	29.2	29	29.2	30.7
Total Hardness(mg/L)	00900	282	294	270	222	232	232	236	242	244	270	260	248
Ammonia-N(mg/L)	00610	0.23		0.26		<0.1		0.18		0.2		0.10	
Chlorophyll a (mg/m <sup>3</sup> )	32211	1.2	1.1	1.1	<1	1.1	<1	<1	<1	<1	<1	<1	<1
Pheophytin (mg/m <sup>3</sup> )	32218	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1	30.7
Total Kjeldahl Nitrogen (mg/L)	00625	0.21	0.41	0.33	0.21	0.27	0.23	<0.2	<0.2	<0.2	<0.2	<0.2	0.29

Parameter	Date and 24 hour time												
	Parameter Code	3/20/13	4/17/13	5/14/13	6/5/13	7/10/13	8/7/13	9/10/13	10/2/13	11/18/13	12/4/13	1/13/14	2/5/14
Flow (cfs)	00061	135	122	115	168	114	208	97	147	377	325		193
E. coli(org/100mL)	31669	50	64	32	82	20	42	24	18	80	47		99
Suspended Solids(mg/L)	00530	13.1	17.9	16	25.4	10.9	15.8	13.7	36.8	16.6	9.5	5.90	13.7
Turbidity(NTU)	82079	10.6	12.2	13.5	17.6	7.3	16.8	14.1	32.1	9.2	4.9	4.0	7.5
pH	00400	7.70	7.90	8	8	7.80	8.00	7.90	7.90	8.10	7.90	8.1	7.8
Temperature(C)	00010	21.60	23.90	24.50	29.1	29.2	30.6	27.8	26.1	21.2	18.3	15.7	13.4
Dissolved Oxygen(mg/L)	00300	8	7.2	8.20	7.10	6.7	5.9	6.5	7.40	7.9	8.7	10.5	10.9
Conductivity(umhos/cm)	00094	569	574	599	541	488	491	517	449	614	615	585	596
Total Phosphorus(mg/L)	00665	0.02	0.1	0.02	0.04	0.03	0.03	0.03	0.13	0.04	0.02	0.02	0.02
Nitrate-N(mg/L)	00620	0.97	1.12	1.04	1.08	0.58	0.63	1.04	1.46	1.83	1.43	1.33	1.30
Chloride(mg/L)	00940	30.3	30.7	28.4	22.4	28	29.5	29.2	21.6	25.2	24.3	26.8	26.8
Sulfate(mg/L)	00945	32	32.1	29.5	28.8	30.5	31.1	31	27.4	33.9	33.7	31.9	31.9
Total Hardness(mg/L)	00900	247	259	252	251	219	208	223	195	296	292		272
Ammonia-N(mg/L)	00610	0.27		0.15		0.22		0.15		<0.1			
Chlorophyll a (mg/m <sup>3</sup> )	32211	<1	<1	<1	1.29	<1	<1	<1	2.94	1.45	1.78		2.08
Pheophytin (mg/m <sup>3</sup> )	32218	<1	<1	1.19	<1	<1	<1	<1	<1	<1	<1		<1.0
Total Kjeldahl Nitrogen (mg/L)	00625	0.59	0.22	0.88	<0.2	0.3	<0.2	<0.2		<0.2			

TABLE 4 (Con't)

TCEQ Segment 1808  
 TCEQ Station 12626  
 Station Number 4 San Marcos River near Luling Water Treatment Plant  
 Latitude 29/40/02 Longitude 97/39/14

Parameter	Date and 24 hour time												
	Parameter Code	3/10/14	4/9/14	5/8/14	6/10/14	7/2/14	8/6/14	9/3/14	10/6/14	11/3/14	12/1/14	1/5/15	2/3/15
Flow (cfs)	00061	196	152	128	207	173	137	107	108	73	151	141	152
E. coli(org/100mL)	31669	83	29	64	88	63	29	38	170	81	52	55	67
Suspended Solids(mg/L)	00530	10.9	11.4	7.50	9.90	6.20	21.6	36.7	20.8	10.4	5.00	5.80	11.8
Turbidity(NTU)	82079	10.1	8.5	6.9	7.8	4.1	14.3	19.6	10.2	3.7	3.1	5.0	9.6
pH	00400	7.9	7.9	8.0	7.7	7.7	7.8	7.9	8.1	8.1	7.7	7.9	8.1
Temperature(C)	00010	14.30	19.4	24.1	27.7	29.7	29.6	30.0	25.0	19.4	18.1	10.7	14.4
Dissolved Oxygen(mg/L)	00300	10.3	8.9	7.40	7.3	7.7	6.8	7.6	7.9	8.6	8.9	11.4	10.8
Conductivity(umhos/cm)	00094	596	589	560	556	523	512	493	537	523	587	581	568
Total Phosphorus(mg/L)	00665	0.02	<0.02	0.02	0.02	<0.02	0.06	0.03	0.02	<0.02	0.08	<0.02	0.03
Nitrate-N(mg/L)	00620	1.67	1.16	0.88	0.86	0.79	0.79	0.88	1.05	1.09	1.07	1.72	1.10
Chloride(mg/L)	00940	28.4	30.8	29.1	25.7	26.5	27.5	27.9	27.6	30.1	28.5	27.2	24.5
Sulfate(mg/L)	00945	33.1	33.7	30.7	32.0	30.7	30.6	30.3	30.5	31.4	34.1	31.2	33.0
Total Hardness(mg/L)	00900	267	257	266	246	228	257	224	234	242	268	271	266
Ammonia-N(mg/L)	00610	0.34		0.30		0.30		0.17		0.20		0.19	
Chlorophyll a (mg/m <sup>3</sup> )	32211	---	2.02	<1.0	<1.0	<1.0	<1.00	<1.0	<1.00	<1.0	<1.0	<1.0	<1.0
Pheophytin (mg/m <sup>3</sup> )	32218	---	1.41	<1.0	10.0	<1.0	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Kjeldahl Nitrogen (mg/L)	00625	<0.20		<0.200		<0.20		0.38		<0.20		<0.20	

Parameter	Date and 24 hour time												
	Parameter Code	3/11/15	4/8/15	5/7/15	6/9/15	7/9/15	8/3/15	9/17/15	10/7/15	11/18/15	12/2/15	1/5/16	2/8/16
Flow (cfs)	00061	362	239	278	1190	624	439	304	268	630	647	551	415
E. coli(org/100mL)	31669	6900	140	100	130	99	28	67	34	360	120	110	39
Suspended Solids(mg/L)	00530	37.0	14.8	70.5	130	23.9	18.5	15.9	15.1	41.1	32.60	17.9	14.0
Turbidity(NTU)	82079	31.6	15.3	25.4	81.5	17.4	12.4	12.0	7.8	33.8	20.7	12.2	9.0
pH	00400	7.8	7.9	7.7	7.8	8.0	7.8	7.8	7.9	7.9	8.1	8.0	8.0
Temperature(C)	00010	15.3	23.8	25.0	26.0	27.2	27.5	26.3	23.0	19.1	15.8	14.0	14.9
Dissolved Oxygen(mg/L)	00300	8.8	7.2	7.2	8.0	7.4	7.3	7.5	7.7	8.6	9.3	10.1	10.0
Conductivity(umhos/cm)	00094	521	563	586	613	578	567	541	547	584	559	579	564
Total Phosphorus(mg/L)	00665	0.10	0.02	0.05	0.09	0.02	<0.02	<0.02	<0.02	0.04	0.04	0.02	0.02
Nitrate-N(mg/L)	00620	0.98	0.88	0.95	1.33	1.39	1.32	1.43	1.50	1.53	1.34	1.35	1.38
Chloride(mg/L)	00940	25.7	28.7	26.6	20.6	23.3	24.4	23.8	24.7	20.9	20.4	22.1	23.8
Sulfate(mg/L)	00945	36.3	36.4	32.9	28.7	35.3	30.6	29.1	29.1	29.4	29.5	30.4	32.0
Total Hardness(mg/L)	00900	238	268	297	378	283	258	248	251	294	282	275	270
Ammonia-N(mg/L)	00610	0.12		<0.10		<0.10				<0.10		<0.10	
Chlorophyll a (mg/m <sup>3</sup> )	32211	2.71	<1.0	1.03	5.34	2.67	1.19	1.99	1.07	<1.00	<1.00	1.66	3.06
Pheophytin (mg/m <sup>3</sup> )	32218	<1.0	<1.0	<1.0	2.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.0
Total Kjeldahl Nitrogen (mg/L)	00625	0.43		0.21		<0.20				<0.20		0.25	

Parameter	Date and 24 hour time												
	Parameter Code	3/1/16	4/6/16	5/2/16	6/8/16	7/12/16	8/1/16	9/7/16	10/4/16	11/14/16	12/12/16	1/11/17	2/20/17
Flow (cfs)	00061	375	416	703	1380	558	474	530	484	350	427	298	1050
E. coli(org/100mL)	31669	64	53	110	100	55	70	110	240	150	180	83	13000
Suspended Solids(mg/L)	00530	12.0	18.3	9.60	42	26.8	9.80	9.00	26.7	16.9	37.4	13.4	95.8
Turbidity(NTU)	82079	7.2	10.9	12.5	71.1	16.1	12.9	12.8	18.0	13.6	18.7	6.6	65.3
pH	00400	7.8	7.8	8.1	7.9	7.8	7.7	7.8	8.0	7.8	7.7	7.8	7.6
Temperature(C)	00010	20.1	20.9	23.9	25.4	28.3	28.1	27.7	24.2	19.8	15.1	16.1	20.0
Dissolved Oxygen(mg/L)	00300	7.5	8.4	7.7	7.5	7.2	6.6	7.5	7.8	8.7	9.6	9.2	7.9
Conductivity(umhos/cm)	00094	563	542	526	537	529	530	521	570	568	564	554	712
Total Phosphorus(mg/L)	00665	<0.02	0.02	0.03	0.07	0.02	0.02	0.07	0.04	0.03	0.06	0.02	0.14
Nitrate-N(mg/L)	00620	1.28	1.17	0.93	0.75	1.38	1.33	1.23	1.23	1.14	1.52	1.41	0.85
Chloride(mg/L)	00940	27.0	22.7	18.2	14.3	21.8	21.4	21.6	20.7	21.7	26.1	25.9	60.7
Sulfate(mg/L)	00945	34.2	30.1	26.1	22.3	28.1	27.8	27.6	27.6	29.1	34.9	32.9	41.3
Total Hardness(mg/L)	00900	260	254	262	317	245	246	248	263	266	277	263	360
Ammonia-N(mg/L)	00610			<0.10		<0.10		<0.10		<0.10		<0.10	
Chlorophyll a (mg/m <sup>3</sup> )	32211	3.71	4.90	1.60	1.60	2.05	1.51	3.68	<1.00	<1.00	<1.00	4.24	15.60
Pheophytin (mg/m <sup>3</sup> )	32218	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.00	<1.00	<1.00	<1.00	<1.00	6.120
Total Kjeldahl Nitrogen (mg/L)	00625			0.28		<0.20		<0.20		<0.20		<0.20	

TABLE 4 (Con't)

TCEQ Segment 1808  
 TCEQ Station 12626  
 Station Number 4 San Marcos River near Luling Water Treatment Plant  
 Latitude 29/40/02 Longitude 97/39/14

Parameter	Date and 24 hour time												
	Parameter Code	3/13/17	4/3/17	5/8/17	6/5/17	7/24/17	8/7/17	9/18/17	10/2/17	11/14/17	12/6/17	1/23/18	2/21/18
Flow (cfs)	00061	737	682	380	347	205	237	271	282	230	228	200	198
E. coli(org/100mL)	31669	2000	240	38	85	23	210	51	41	22	1800	14	82
Suspended Solids(mg/L)	00530	117	40.3	10.4	15.4	12.0	13.6	8.70	18.2	13.8	37.4	10.6	15.4
Turbidity(NTU)	82079	106	28.2	2.9	16.3	8.1	12.7	8.9	8.3	7.2	15.8	9.4	5.8
pH	00400	7.6	7.8	7.8	7.9	7.8	8.0	7.9	7.9	7.8	8.0	8.0	8
Temperature(C)	00010	17.1	22.6	23.5	25.8	30.7	28.9	27.4	24.9	21.0	18.1	14.8	20.4
Dissolved Oxygen(mg/L)	00300	8.1	7.3	8.50	7.8	5.8	7.5	7.6	7.7	8.9	8.3	10.0	8.1
Conductivity(umhos/cm)	00094	446	545	568	555	518	516	554	578	580	573	578	582
Total Phosphorus(mg/L)	00665	0.22	0.04	0.02	0.02	<0.02	0.02	0.02	0.02	<0.02	0.04	<0.02	0.02
Nitrate-N(mg/L)	00620	1.95	1.24	1.55	1.94	1.35	1.53	1.59	1.69	1.65	1.62	1.70	1.62
Chloride(mg/L)	00940	17.0	24.4	25.7	24.5	25.7	24.9	26.9	27.2	25.6	26.6	27.9	29.7
Sulfate(mg/L)	00945	25.3	31.7	31.9	33.5	30.4	30.0	31.2	34.2	29.5	31.1	33.4	34.3
Total Hardness(mg/L)	00900	236	252	258	259	229	233	249	265	265	282	273	268
Ammonia-N(mg/L)	00610	<0.10		<0.10		<0.10		<0.10		<0.10		<0.10	
Chlorophyll a (mg/m <sup>3</sup> )	32211	1.92	4.17	1.84	2.88	<1.00	<1.00	2.76	1.25	<1.00	1.63	2.73	3.47
Pheophytin (mg/m <sup>3</sup> )	32218	1.52	2.12	<1.00	<1.00	<1.00	1.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	1.31		<0.20		<0.20		<0.20		<0.20		<0.20	

Parameter	Date and 24 hour time												
	Parameter Code	3/13/18	4/5/18	5/8/18	6/14/18	7/10/18	8/6/18	9/17/18	10/9/18	11/19/18	12/5/18	1/7/19	2/5/19
Flow (cfs)	00061	186	332	178	114	356	123	280	216	369	344	1050	554
E. coli(org/100mL)	31669	38	200	81	16	41	17	370	77	20		360	73
Suspended Solids(mg/L)	00530	8.6	44.2	15.8	10.1	19.2	19.3	56.70	23.5	74.1	20.1	141.0	26.5
Turbidity(NTU)	82079	3.3	37.7	8.8	5.1	7.3	14.3	52.2	23.2	24.3	13	75.0	15
pH	00400	8.0	7.8	8	8.0	7.9	8.0	7.8	7.9	7.8	7.9	7.7	7.5
Temperature(C)	00010	18.4	21.2	25.5	30.4	28.3	28.7	26.1	26.1	15.0	15.2	14.8	19.4
Dissolved Oxygen(mg/L)	00300	9.9	7.7	7.7	7.4	6.8	7.1	6.3	6.9	9.6	9.2	9.6	8.1
Conductivity(umhos/cm)	00094	565	532	577	527	507	512	451	549	567	572	517	576
Total Phosphorus(mg/L)	00665	0.02	0.09	0.03	0.02	0.02	0.02	0.18	0.03	0.05	0.03	0.08	0.03
Nitrate-N(mg/L)	00620	1.53	1.3	1.33	1.28	1.14	1.16	1.19	1.42	1.34	1.16	0.98	1.34
Chloride(mg/L)	00940	28.6	24	30.9	27.8	23.8	27.4	17.3	24.5	22.6	24.9	16.8	22.7
Sulfate(mg/L)	00945	32.4	32.3	38.9	31.9	28.7	31.9	26.9	31.5	31.6	32.7	26.4	32.5
Total Hardness(mg/L)	00900	257	241	254	225	229	234	216	264	288	282	297	286
Ammonia-N(mg/L)	00610	<0.10		<0.10		<0.10		4.17		<0.10		<0.10	
Chlorophyll a (mg/m <sup>3</sup> )	32211	2.97	4.06	2.55	2.2	<1.00	427	1.36	<1.00	<1.00	<1.00	2.27	<1.00
Pheophytin (mg/m <sup>3</sup> )	32218	1.37	<1.00	<1.00	<1.00	<1.00	430	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	<0.20		0.28		0.72		11.1		<0.20		0.33	

Parameter	Date and 24 hour time												
	Parameter Code	3/13/19	4/4/19	5/13/19	6/12/19	7/24/19	8/8/19	9/5/19	10/9/19	11/20/19	12/5/19	1/29/20	2/17/20
Flow (cfs)	00061	335	335	1190	423	287	249	208	190	193	188	176	160
E. coli(org/100mL)	31669	68	260	150	40	28	22	28	42	46	56	52	86
Suspended Solids(mg/L)	00530	9.1	11.1	198.0	14.0	46.2	119	25.20	17.4	9.7	6.7	33.5	38.7
Turbidity(NTU)	82079	6.1	9.7	100	8.6	30.0	60.0	31.0	17	5.2	10	19.0	21
pH	00400	8.1	8.1	8.2	7.9	8.0	7.8	7.9	7.9	8.0	8.1	7.6	7.9
Temperature(C)	00010	20.8	19.1	20.9	25.6	28	29.4	28.1	24.9	17.2	15	16	16.6
Dissolved Oxygen(mg/L)	00300	8.3	8.8	7.4	6.9	7.3	6.8	7	8.0	7.4	7.8	9.4	9.3
Conductivity(umhos/cm)	00094	555	571	513	520	525	521	522	576	564	579	565	566
Total Phosphorus(mg/L)	00665	<0.02	0.022	0.102	0.021	0.03	0.06	0.024	<0.02	0.021	<0.02	0.26	0.034
Nitrate-N(mg/L)	00620	1.25	1.4	0.913	1.11	1.25	1.24	1.29	1.24	1.43	1.4	1.60	1.54
Chloride(mg/L)	00940	24.2	25.2	14.4	22.7	26.5	26.8	25.2	25.9	27.7	28.8	30.7	30.5
Sulfate(mg/L)	00945	33.1	32.5	24.5	30.3	32.4	32.4	30.0	30.6	31.4	32.6	36.7	35.1
Total Hardness(mg/L)	00900	273	279	335	255	262	293	254	255	275	285	273	285
Ammonia-N(mg/L)	00610	<0.10		<0.10		<0.10		<0.10		<0.10		<0.10	
Chlorophyll a (mg/m <sup>3</sup> )	32211	2.55	1.51	<1.00	3.98	2.1	3.07	2.11	<1.00	1.94	1.46	<1.00	<1.00
Pheophytin (mg/m <sup>3</sup> )	32218	<1.00	1.1	<1.00	<1.00	<1.00	2.91	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	<0.20		0.47		0.35		0.35		<0.20		0.25	

TCEQ Segment 1808  
 TCEQ Station 12626  
 Station Number 4 San Marcos River near Luling Water Treatment Plant  
 Latitude 29/40/02 Longitude 97/39/14

Parameter	Date and 24 hour time				
	Parameter Code	3/9/20	4/13/20	5/14/20	6/10/20
Flow (cfs)	00061	153	190	688	275
E. coli(org/100mL)	31669	98	120	960	60
Suspended Solids(mg/L)	00530	15.4	64	84.5	38.9
Turbidity(NTU)	82079	7.5	16	270	8
pH	00400	7.9	8.0	7.8	7.9
Temperature(C)	00010	17.8	22.0	23.4	28.6
Dissolved Oxygen(mg/L)	00300	8.8	8.5	11.00	7.1
Conductivity(umhos/cm)	00094	593	559	345	534
Total Phosphorus(mg/L)	00665	0.027	0.043	0.189	0.033
Nitrate-N(mg/L)	00620	1.37	1.06	0.677	0.918
Chloride(mg/L)	00940	31.5	28	16.2	23.8
Sulfate(mg/L)	00945	34.2	36.5	25.3	31.1
Total Hardness(mg/L)	00900	265	275	255	255
Ammonia-N(mg/L)	00610	<0.10		<0.10	
Chlorophyll a (mg/m <sup>3</sup> )	32211	1.01	<1.00	7.79	<1.00
Pheophytin (mg/m <sup>3</sup> )	32218	<1.00	<1.00	2.18	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	<0.20		1.03	

Parameter	Date and 24 hour time
	Parameter
Flow (cfs)	00061
E. coli(org/100mL)	31669
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

Parameter	Date and 24 hour time
	Parameter
Flow (cfs)	00061
E. coli(org/100mL)	31669
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

Data after February 2018 is preliminary and subject to change during data review and validation process

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