

APPENDIX B: WATER QUALITY DATA FOR THE NEW RIVER **(SOURCE: USIBWC)**

Appendix B: Water Quality Data for New River at International Boundary. BOD and COD are collected once a month while other indicators are collected twice a month. (Source: USIBWC)

Table B1: 2005 Water Quality Data for New River at International Boundary										
Date	Time	Flow cfs	Air Temp °C	Water Temp. °C	DO mg/l	pH	EC Umhos	Fecal Colif #/100 ml	BOD mg/l	COD mg/l
1/19/2005	8:30	193	17	14.8	1.17	7.21	4,760	446,667	34	54
1/27/2005	12:15	238	22	17.5	1.41	7.33	4,420	383,000		
2/9/2005	8:05	239	6	15.4	1.15	7.3	4,440	150,000	28	48
2/23/2005	8:30	300	12	17	2.4	7.3	4,030	900		
3/9/2005	8:05	303	21	20.4	0.94	7.4	4,650	380,000	25	37
3/23/2005	9:15	300	19	18.7	1.44	7.34	4,890	115,000		
4/6/2005	8:00	200	18	20.9	0.41	7.35	4,840	135,000	15	58
4/20/2005	7:45	194	17	20	1.34	7.44	5,230	155,000		
5/11/2005	7:45	232	20	20.8	0.54	7.5	5,010	530,000	18	84
5/26/2005	11:00		38	28.3	0.22	7.51	5,550			
6/8/2005	8:05	137	26	25.8	0.14	7.41	5,670	250,000		
6/22/2005	8:15	177	36	29.3	0.18	7.45	5,400	380,000	40	70
7/6/2005	11:20	188	38	27.9	0.22	7.34	5,790	170,000	38	67
7/20/2005	10:00	264	35.5	30.8	0.81	7.18	5,701	751,667		
8/10/2005	7:55	379	26.5	29.8	0.09	7.29	3,277	,350,000	49	41
8/24/2005	8:00	167	31	30.7	0.29	7.39	4,350	583,333		
9/14/2005	8:30	143	21	23.9	0.13	7.57	5,002	,375,000	23	104
9/28/2005	9:20	153	33	24.8	0.07	7.51	4,586	380,000		
10/12/2005	7:45	138	18	22.8	1.2	7.43	4,910	360,000	57	147
10/26/2005	8:10	188	18	22	1.25	7.1	4,667	216,667		
11/9/2005	8:35	145	16	20.5	1.29	7.56	4,444	203,333	74	112
11/22/2005	11:00	153	23	16.8	1.08	7.41	4,574	280,000		
12/14/2005	8:00	208	16	12.7	1.05	7.61	4,272	136,666		
Mean		210.9	23.0	22.2	0.82	7.39	4,803	442,374	36	75
Geomean								256,708		

Table B2: 2006 Water Quality Data for New River at International Boundary										
Data	Time	Flow cfs	Air Temp °C	Water Temp. °C	DO mg/l	pH	EC Umhos	Fecal Colif #/100 ml	BOD mg/l	COD mg/l
1/11/2006	9:00	189	8	13.6	0.5	7.66	4,665	26,667	44	108
1/25/2006	11:00	200	18	12.9	0.45	8.31	4,678	20,000		
2/8/2006	8:30	198	15.4	8.5	0.56	7.93	4,682	43,333	33	81
2/22/2006	10:10	261	17	13.8	3.22	7.63	5,106	15,000		
3/8/2006	9:55	241	16.5	16	1.7	7.55	5,074	40,000	22	133
3/22/2006	8:45	268	13	15.9	2.02	7.55	4,619	00,000		
4/12/2006	7:50	264	17.5	20.7	1.17	7.6	5,170	36,667	31	82
4/26/2006	8:55	243	20	21.3	1.45	7.65	5,306	10,000		
5/10/2006	11:15	198	30	26.4	0.94	7.56	5,732	70,000	33	62
5/24/2006	8:40	182	25.5	25.6	0.12	7.43	5,774	,676,667		
6/7/2006	11:35	163	35	29.3	0	7.39	5,814	,350,000	37	81
6/28/2006	7:50	167	32	29.6	0.16	7.56	5,429	,900,000		
7/12/2006	11:45	156	41	32.4	0.1	7.31	5,619	,483,333	30	99
7/26/2006	7:15	159	31	31.7	0.73	7.52	5,481	,950,000		
8/2/2006	1:15	179	37	31.3	0.25	7.52	5,213	180,000	33	91
8/16/2006	9:00	113	34	31.1	0.6	7.58	5,174	,550,000		
9/13/2006	12:00	163	32	29.3	0.24	7.48	4,851	1,500,000	42	118
9/27/2006	7:50	158	25	26.4	0.4	7.56	4,593	1,833,333		
10/11/2006	12:25	143	32	23.1	0.27	7.5	4,634	1,036,667	34	64
10/25/2006	9:40	173	25	23	0.53	7.6	4,223	1,020,000		
11/15/2006	9:50	152	21	18.9	0.91	7.61	2,516	1,570,000	63	153
11/29/2006	8:40	129	9	14.6	5.98	7.33	5,229	1,816,667		
12/6/2006	1:15	143	23	12.1	3.8	7.46	4,729	606,667	21	74
12/20/2006	9:15	187	7	12.4	2.16	7.47	4,668	710,000		
Mean		184.5	23.5	21.7	1.18	7.6	4957.5	989,375	35.3	95.5
Geomean								671,449		

Table B3: 2007 Water Quality Data for New River at International Boundary										
Data	Time	Flow cfs	Air Temp °C	Water Temp. °C	DO mg/l	pH	EC Umhos	Fecal Colif #/100 ml	BOD mg/l	COD mg/l
1/10/2007	9:25	178	12	13	1.94	7.34	4,547	575,000	34	74
1/24/2007	12:00	198	20	12.2	3.28	7.37	4,643	360,000		
2/7/2007	7:50	235	7	15.2	2.39	7.26	4,293	310,000	28	112
2/21/2007	8:25	115	8	16.7	1.07	7.47	4,733	1,200,000		
3/7/2007	8:05	184	18	17.3	7.01	7.5	5,622	60,000	24	41
3/22/2007	9:00	195	18	19.3	7.21	7.55	6,089	18,000		
4/11/2007	8:40	205	23	23.4		7.56	5,916	22,000	7	31
4/25/2007	8:20	210	23	21.2	5.58	4.67	5,157	25,334		
5/9/2007	7:45	174	24	24.1	4.22	7.28	5,956	89,000	13	32
5/24/2007	9:00	143	29	26.9	1.79	5.04	6,561	287,500		
6/13/2007	8:05	146	28	26.6	2.58	7.18	6,161	78,000	11	35
6/27/2007	8:50		32.5	28.1	2.4	7.33	6,034	76,000		
7/12/2007	8:35		30	27	0.92	7.16	6,362	820,000	17	42
7/25/2007	8:30	123	34	29.7	1.54	7.54	6,624	581,667		
8/8/2007	7:55	123	28	28	1.94	7.38	6,690	165,000	13	68
8/22/2007	8:20		33	32	1.37	7.57	9,098	10,000		
9/5/2007	8:10		32	32	2.27	7.38	7,038	20,000	9	70
9/19/2007	9:50		31	25.7	6	7.44	5,840	54,750		
10/3/2007	7:55	129	28	25.7	5.73	7.47	5,393	65,750	5	65
10/17/2007	8:35	60	24	20.6	4.1	7.09	5,939	476,667		
11/7/2007	8:25	99	16	20.1	5.96	7.15	4,931	4,000	15	67
11/28/2007	8:50	122	11	14.2	5.05	6.76	5,209	660,000		
12/5/2007	8:15	181	9	13.3	4.95	7.35	5,365	57,334		55
12/19/2007	9:05	156	13	11.3	5.1	6.82	4,789	38,667		
Mean		156.6	22.1	21.8	3.7	7.1	5,791	252,278	16.0	57.7
Geomean								100,441		

Table B4: 2008 Water Quality Data for New River at International Boundary										
		Flow cfs	Air Temp °C	Water Temp. °C	DO mg/l	pH	EC Umhos	Fecal Colif #/100 ml	BOD mg/l	COD mg/l
1/9/2008	8:35	149	9.00	12.00	6.54	6.62	4,958	10,667	14	53
1/23/2008	10:35	163	14.00	11.60		7.28	5,187	72,667		
2/6/2008	8:45	208	7.00	11.80	6.07	7.11	4,589	25,000	13	49
2/21/2008	10:45	183	20.00	14.80	8.85	7.53	5,462	18,333		
3/12/2008	8:45	253	20.00	18.80	4.78	7.39	5,406	84,000	15	55
3/26/2008	11:25	205	31.00	20.80	7.00	7.26	6,162	25,333		
4/23/2008	1:45	205	32.00	21.40	5.49	7.45	6,093	80,750	15	45
5/21/2008	8:40	152	27.00	26.00	3.11	7.08	6,726	60,000		
5/28/2008	8:15	152	23.00	21.40	2.15	6.74	5,750	98,333	17	55
6/11/2008	9:05	138	33.00	26.80	0.64	7.37	6,763	86,250		
6/26/2008	7:10	143	27.00	28.60	1.86	7.28	6,465	490,000	18	72
7/9/2008	9:10	140	35.00	31.00	0.90	7.00	5,843	2,500,000		
7/30/2008	7:35	129	30.00	30.50	3.26	6.30	6,190	11,000	10	45
8/13/2008	8:35	113	33.00	30.70	2.74	7.27	6,502	78,000		
8/28/2008	7:00	137	33.00	31.30	3.72	7.28	6,154	54,000	11	19
9/10/2008	8:50	153	30.10	28.40	3.64	7.07	5,682	162,500		
9/17/2008	7:40	173	28.00	28.10	3.51	7.22	4,828	175,000	14	53
10/15/2008	8:30	117	16.00	18.90	4.39	7.12	6,387	795,000		
10/29/2008	8:00	149	22.00	21.90	4.33	6.55	5,581	260,000	4	73
11/05/2008	9:10	142	16.00	17.00	4.60	7.38	5,608	55,000		
11/19/08	8:50	148	17.0	17.8	5.66	7.67	5,299	120,500		
12/3/08	9:20	165	16.00	17.50	6.41	7.27	5,331	600,000		
Mean		159.86	23.60	22.14	4.27	7.15	5,771	275,561	13.10	51.90
Geomean								101,021		

Table B5: 2009 Water Quality Data for New River at International Boundary										
Date	Time	Flow cfs	Air Temp	Water Temp.	DO mg/l	pH	EC Umhos	Fecal Colif #/100 ml	BOD mg/l	COD mg/l
			°C	°C						
1/14/09	9:00	209	10.0	13.1	5.98	6.03	5,542	12,000		
1/28/09	8:30	187	3.0	12.9	6.61	6.98	5,843	20,000	107.00	129
2/4/09	8:50	189	8.0	11.0	6.04	6.74	5,760	10,000		
2/18/09	8:15	233	6.0	13.5	6.73	7.17	5,581	52,750	6.43	92
3/11/09	8:25	208	8.7	22.0	8.65	2.82	6,171	37,000		
3/25/09	8:00	262	20.0	18.0	6.35	7.64	6,119	30,000	10.70	102
4/8/09	11:00	240	19.0	19.0	6.16	7.70	6,163	9,000		
5/13/09	9:00	218	30.0	26.1	5.68	7.62	6,047	46,666		
6/3/09	5:15	181	29.0	27.2	5.78	7.58	6,474	11,000		
6/17/09	8:00	191	26.00	24.20	6.15	7.66	6,326	6,500	8.50	
7/8/09	8:55	150	33.00	29.60	4.14	7.54	6,791	11,000		
7/21/09	8:10	139	33.00	31.50	4.28	7.59	6,954	10,000	5.30	124
8/12/09	8:45	137	35.0	30.1	3.36	7.30	7,017	29,000		
8/26/09	8:00	126	29.00	30.20	4.20	7.29	6,905	45,000	10.40	123
9/9/09	8:45	135	31.00	29.00	5.12	7.31	6,508	18,000		
9/23/09	7:40	137	21.00	26.00	3.30	7.29	6,188	232,500	16.10	125
10/7/09	8:55	139	20.00	20.20	7.18	7.49	5,770	55,000		
10/27/09	8:45	143	19.00	20.20	6.84	7.59	5,541	8,000	7.72	121
11/4/09	9:15	131	23.00	19.10	8.45	7.56	5,471	10,000		
11/18/09	8:55	123	11.00	15.00	7.86	7.51	6,129	5,000		
Mean		174	20.73	21.90	5.94	7.12	6,165	32,921	21.52	116.57
Geomean								19,379		