

KMS15: Downstream of the Hex River																								
Year	2007			2008			2009			2010			2011			2012			2013			2014		
Variable/Stats	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
pH	8.113333	7.72	8.69	8.204167	7.92	8.76	7.928333	7.35	8.21	8.106667	7.66	8.86	8.203	7.53	8.42	8.31	7.94	9.03	8.285	7.93	8.87	8.87	8.285	7.93
EC (ns/m)	120.075	96.2	202	61.825	28.4	124	81.95	21.1	148	80.6833	14.1	35.19	11.8	60.8	81.99167	39.4	155	66.6667	36.8	89.4	155	66.6667	36.8	89.4
TDS mg/l	715.5	286	1313	350.833	112	880	315	144	532	179.167	70	241	170	48	296	365.35	181	669	159.667	163	469	669	159.667	163
Ca mg/l	60.71667	33.2	169	27.925	12.1	62.9	29.3	13.2	44.8	17.32167	7.56	27.6	17.081	6.41	26.4	38.10833	18.3	85.9	37	13.1	48.5	85.9	37	13.1
Mg mg/l	95.79167	11.8	187	46.51667	20.6	87.9	54.4	22	93.9	30.20833	10.2	41.5	29.993	7.83	51.1	61.10833	32.9	94.3	60.20833	33.2	72.1	94.3	60.20833	33.2
Na mg/l	47.14167	15.2	93.2	19.2817	4.85	76.8	16.27417	5.79	31.7	7.813333	1.0	4.899	19.3	17.3	22.14333	5.21	46.7	15.33333	10.7	28.2	46.7	15.33333	10.7	28.2
K mg/l	7.703333	2.18	30.9	2.777083	0.795	8.02	2.531583	0.709	5.4	1.567583	0.24	5.17	1.3071	0.805	1.09	2.416083	0.809	5.33	1.841583	0.817	3.13	5.33	1.841583	0.817
MLAX CaCO3/L	38.08333	15.8	107	16.87583	6.67	267	16.2333	8.8	342	124.5083	54.2	167	127.83	32.3	197	195.3333	118	354	217.0833	128	284	354	217.0833	128
Cr mg/l	77.26667	29.3	128	27.66417	7.67	74.9	26.06417	9.47	43.2	11.64833	3.33	17.9	11.4062	-1.08	22.4	38.475	10.6	89.7	38.9167	11.7	54.9	89.7	38.9167	11.7
NO3-N mg/l	447.9917	55.1	258	54.34167	26.1	303	59.923	36.3	110	33.475	15	49.5	23.55	6.43	45.8	68.66	30.3	94.2	61.25	29.5	86.2	94.2	61.25	29.5
NO3-N mg/l	19.95833	0.01	41.7	23.91917	-0.057	18.4	8.426667	1.58	18.6	1.686333	0.422	2.89	1.5847	0.787	12.4	24.50475	0.707	56.6	10.8475	23.4	25.2	56.6	10.8475	23.4
P mg/l	0.059833	0.019	0.101	-0.40167	-0.48	-0.01	0.131833	-0.48	0.464	-0.1075	-0.001	0.308	0.2228	0.041	0.484	0.101083	-0.183	0.363	0.016583	-0.183	0.34	0.363	0.016583	-0.183
Al mg/l	-0.005975	-0.001	0.021	0.038083	-0.006	0.183	0.012167	-0.006	0.146	0.01367	-0.006	0.639	0.0204	-0.006	0.122	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
Fe mg/l	0.009083	-0.01	0.04	0.056083	-0.004	0.197	0.017083	-0.006	0.083	0.121083	-0.006	0.641	0.0596	-0.001	0.205	0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
Mn mg/l	0.00625	-0.001	-0.001	-0.001	-0.001	-0.001	0.005667	-0.001	0.059	0.013667	-0.001	0.063	0.0177	-0.001	0.05	0.020833	-0.001	0.243	0.001	-0.001	0.001	0.243	0.001	-0.001
N_Amonia mg/l	1.44	-0.015	0.17	0.222333	-0.015	1.61	0.121833	-0.015	0.849	0.048083	-0.015	0.201	0.1648	-0.015	0.686	1.607833	0.025	5.52	0.435833	-0.015	2.99	5.52	0.435833	-0.015
Toitardness mg/l	546	234	1190	261.4167	120	619	297.0833	121	499	167.667	61	221	162	2	48	276	446.75	181	603	332.167	170	391	603	332.167
PO4 mg/l	0.116333	-0.01	0.008	0.020167	-0.021	0.05	0.036667	-0.021	0.532	0.03875	-0.021	0.41	0.0089	-0.021	0.178	0.00581	-0.021	0.228	-0.0182	-0.021	0.24	0.228	-0.0182	-0.021
Cd mg/l	-0.00055	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
Cr mg/l	-0.00667	-0.001	-0.002	-0.002	-0.002	-0.002	-0.0005	-0.002	0.003	0.003333	-0.002	0.036	-0.0019	-0.002	0.01	-0.00025	-0.002	0.014	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
Cr6+ mg/l	-0.00542	-0.001	-0.001	-0.008	-0.008	-0.008	-0.008	-0.008	0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
SAR	0.855833	0.12	1.52	0.469167	0.18	1.35	0.405	0.23	0.62	0.256667	0.23	0.43	0.204	0.11	0.45	0.5025	0.14	0.91	0.36	0.19	0.63	0.91	0.36	0.19

KMS14: Upstream of the Hex River																								
Year	2007			2008			2009			2010			2011			2012			2013					
Variable/Stats	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max			
pH	8.3	7.98	8.55	8.163333	7.85	8.79	7.96	7.49	8.32	8.008333	7.52	8.84	8.083	7.77	8.27	8.133333	7.96	8.54	8.241667	7.95	8.75			
EC (ns/m)	96.12727	70.1	109	42.575	15.2	84.1	53.04	16	89.8	35.20833	10.4	57.8	30.08	16.8	48.6	40.89167	21.5	58.2	49.05833	18.1	69.3			
TDS (mg/l)	574.0909	364	707	219.5833	54	574	269	80	512	157.6667	58	229	169.9	85	372	217.0833	135	291	270.6667	78	438			
Ca (mg/l)	40.52277	26.1	59	16.57417	6.29	33.9	21.459	6.69	47	13.0275	4.18	18.4	17.87	10	11.75583	11.5	23.9	19.88667	6.34	30				
Mg (mg/l)	95.50909	72.5	144	38.25167	12.2	83.2	52.29	14	102	28.87597	7.13	44.5	25.68	10	61.8	41.1	52.5	39.9	52.45	10	72.5			
Na (mg/l)	18.14545	8.9	42.1	6.773333	2.5	16.3	9.944	3.3	17.7	0.958333	-0.03	9.85	0.909	4.68	2.9	6.2975	1.95	16	1.828917	-0.03	8.34			
K (mg/l)	2.204546	0.001	4.78	1.08325	0.591	2.44	1.3956	0.562	2.16	1.22167	-0.041	4.1	1.6524	0.845	2.66	0.812667	-0.041	2.09	0.97	0.204	1.95			
MLAX CaCO3/L	351.0909	248	437	154.8833	39.2	291	185.87	51.6	327	108.5883	31.4	174	112.04	63.3	198	162.5	108	245	203.5883	95.7	292			
Cr (mg/l)	38.36364	28.9	59	11.2825	1.45	27.6	17.272	2.42	36.7	9.066667	2.73	142	11.87	34	72.2	14.7278	9.13	23.2	14.02667	4.22	21			
SO4 (mg/l)	114.0636	59.9	153	36.91667	16.6	78.3	46.62	20.7	105	31.31667	14.9	41.4	28.26	11.4	87.8	36.64167	21.1	52.4	46.51667	17.7	70.5			
NO3-N (mg/l)	7.596164	1.14	24.4	1.151083	-0.057	2.7	1.5	3.825	0.795	9.2	2.34025	0.317	7.04	1.8821	0.752	2.78	2.13525	-0.057	3.22	2.255833	-0.057	3.46		
P (mg/l)	0.071	0.042	0.102	-0.29125	-0.44	0.48	0.0478	-0.48	0.94	0.079833	-0.006	0.339	0.176	0.022	0.466	0.04025	-0.183	0.238	0.022833	-0.183	0.327			
Al (mg/l)	-0.00582	-0.001	0.016	0.078917	-0.006	0.296	0.142	-0.006	0.822	0.172333	-0.006	0.996	0.099	-0.006	0.692	-0.004	-0.006	0.013	1.30E-18	-0.006	0.066			
Fe (mg/l)	0.007909	-0.001	0.03	0.1465	-0.006	0.355	0.1586	-0.006	0.682	0.27167	-0.006	1.46	0.1081	-0.006	0.608	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006			
Mn (mg/l)	0.000909	-0.001	0.074	0.009167	-0.001	0.083	0.0403	-0.001	0.033	0.017833	-0.001	0.046	0.0596	-0.001	0.057	0.00667	-0.001	0.058	0.000833	-0.001	0.036			
N_Amonia (mg/l)	0.110309	-0.01	0.957	0.175833	-0.013	1.84	0.0375	-0.013	0.245	0.10325	-0.013	0.659	0.1477	-0.013	0.586	0.17333	0.024	1.44	0.121833	-0.013	0.261			
Totalhardness (mg/l)	511	364	711	199.0833	68	427	268.5	74	535	153.333	40	229	150.2	69	339	213.333	135	302	265.9167	85	375			
PO4 (mg/l)	-0.01236	-0.01	1.52	-0.01067	-0.025	0.147	0.0064	-0.025	0.129	0.026667	-0.025	0.134	0.0065	-0.025	0.107	-0.00142	-0.025	0.103	-0.004	-0.025	0.053			
Cd (mg/l)	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.00075	-0.001	0.002	-0.006	-0.001	0.001	-0.0005	-0.001	0.001	-0.001	-0.001	-0.001			
Cr (mg/l)	-0.00052	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008			
Cr6+ (mg/l)	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001			
SAR	0.348182	0.02	0.84	0.2025	0.13	0.34	0.282	0.17	0.34	0.251	0.17	0.34	0.251	0.17	0.34	0.251	0.17	0.34	0.251	0.17	0.34			
Cr (mg/l)	-0.00636	-0.001	-0.002	-0.002	-0.002	-0.002	-0.006	-0.002	0.004	0.006667	-0.002	0.019	0.014	-0.002	0.016	0.01667	-0.002	0.002	-0.002	-0.002	-0.002			

EC mS/m	93	85.7	106	77.8667	13.7	121	63.12727	10.4	139	45.65833	11	126	72.4	18.3	111	96.51667	60.8	127	41.15	26	53.1
Ca mg/l	540	486	628	474.9157	92	876	528.2727	71	744	208.063	96	564	376.4	85	642	583.833	362	678	216.25	128	346
Mg mg/l	40.6667	36.1	45.5	35.42157	4.1	59	28.42157	4.1	59	10.91667	4.1	59	31.11	4.1	59	33.41667	18.8	50	20.775	12	36.3
Na mg/l	61.6	72.1	91.5	77.16417	9.87	130	59.5145	7.97	149	31.455	8.86	103	67.21	12.4	127	108.0167	58.4	135	35.375	207	55.8
Na mg/l	19.73333	17	23.6	21.60833	1.42	38.2	14.00182	2.59	32.8	9.557417	-0.03	29.9	17.294	2.91	33.1	22.11667	11.9	30.4	3.58	137	6.3
Cr mg/l	0.113333	0.102	0.1498167	0.105	0.00000	0.102	0.1498167	0.105	0.102	0.1498167	0.105	0.102	0.1498167	0.105	0.102	0.1498167	0.105	0.102	0.1498167	0.105	0.102
MAUX CaCO3/L	208.6667	225	329	222.1	42.1	384	199.1667	30.3	385	116.7667	51.2	244	218.07	44.2	430	375.6667	243	482	148.275	80.1	206
Cr mg/l	0.113333	0.102	0.1498167	0.105	0.00000	0.102	0.1498167	0.105	0.102	0.1498167	0.105	0.102	0.1498167	0.105	0.102	0.1498167	0.105	0.102	0.1498167	0.105	0.102
SO4 mg/l	102.1333	88.4	115	117.85	5.6	238	75.8	13.1	168	39.81833	7.42	192	85.29	18.6	137	145.4333	78.2	193	59.05	207	91.8
NO3-N mg/l	2.413333	4.1	4.1	2.72783	-0.057	30.8	5.25364	-0.057	30.8	1.42525	-0.057	21.1	10.016	0.000	26	5.0565	0.285	20.7	0.33975	0.222	0.431
Cr mg/l	0.004	0.003	0.004	0.11083	-0.448	199	0.10309	-0.448	199	0.10309	-0.448	199	0.10309	-0.448	199	0.10309	-0.448	199	0.10309	-0.448	199
Al mg/l	-0.006	-0.006	-0.006	0.070333	-0.006	0.31	0.043634	-0.006	0.31	0.0721083	-0.006	0.31	0.0005	-0.006	0.31	0.0005	-0.006	0.31	0.0005	-0.006	0.31
Fe mg/l	0.004333	-0.0004	0.025	0.053083	-0.0004	0.286	0.035091	-0.0004	0.286	0.035091	-0.0004	0.286	0.035091	-0.0004	0.286	0.035091	-0.0004	0.286	0.035091	-0.0004	0.286
Mn mg/l	0.004667	0.003	0.01	0.0125	-0.001	0.161	0.03382	-0.001	0.161	0.03382	-0.001	0.161	0.03382	-0.001	0.161	0.03382	-0.001	0.161	0.03382	-0.001	0.161
N_Amonia mg/l	0.339	-0.015	0.888	0.236417	-0.015	389	0.181727	-0.015	389	0.181727	-0.015	389	0.181727	-0.015	389	0.181727	-0.015	389	0.181727	-0.015	389
TotalHardness mg/l	436	399	490	356.4167	67	599	307.0909	57	761	181.75	59	493	354.1	81	612	528.8333	311	625	202.5	117	320
PO4 mg/l	0.263667	0.22	0.306	0.0242417	-0.025	0.251	0.062723	-0.025	0.251	0.062723	-0.025	0.251	0.062723	-0.025	0.251	0.062723	-0.025	0.251	0.062723	-0.025	0.251
Cr mg/l	-0.002	-0.002	-0.002	0.001083	-0.002	0.017	0.002272	-0.002	0.017	0.002272	-0.002	0.017	0.002272	-0.002	0.017	0.002272	-0.002	0.017	0.002272	-0.002	0.017
Cr mg/l	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
SAR	0.406667	0.37	0.46	0.4675	0.08	0.82	0.323636	0.12	0.57	0.255	0	0.64	0.379	0.14	0.58	0.4175	0.29	0.63	0.105	0.06	0.15

KM516: Vent shaft with water from underground																					
Year	2007			2008			2009			2010			2011			2012			2013		
Variable/Stats	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
pH	8.49	8.2	8.68	8.442	8.05	8.82	8.363333	8.16	8.63	8.523333	8.3	8.93	8.449	8.32	8.78	8.613	8.34	9			
EC mS/m	123.3333	108	129	126.6	112	140	120.667	71	128	128.667	124	135	122.1	115	130	112.2	107	132			
TDS mg/l	724.6667	709	754	789.2	666	880	641.7778	331	718	573.5	494	642	620.4	538	660	629.8	518	717			
Ca mg/l	48.03333	45.8	50.5	53.84	46.8	61.1	49.61111	33.2	59.1	46.93333	44.8	49.4	51.77	46	57.5	51.29	46.1	59			
Mg mg/l	114.6667	113	116	120.9	106	131	124.0778	94.7	149	105.95	89.1	120	116	100	129	114.88	81.6	130			
Na mg/l	24.5	24.2	24.7	27.77	24.8	31.5	26.83333	22.4	30.7	25.31667	21.5	27	24.41	19.2	28.2	25.52	17.6	46.8			
Cr mg/l	10.26333	9.023	11.7	10.655	9.15	11.7	9.68889	8.1	10.7	9.91667	8.41	8.188	6.81	7.851	10.55	10.1	6.719	11.8			
MAUX CaCO3/L	316.3333	293	345	339.3	241	383	322.6667	277	368	288.8333	254	321	315.9	199	429	354.7	257	439			
Cr mg/l	46.23333	45.6	46.9	43.45	34.1	48.7	47.15556	33.7	53.8	39.18333	34	45.7	39.31	30.8	46.3	35.89	30.7	56.1			
SO4 mg/l	127.6667	126	141	146.6	111	187	159.3333	121	208	148.8333	124	175	136.48	104	172	149.9	126	184			
NO3-N mg/l	17.33333	10.2	24.7	24.7	2.448	43.1	31.33333	17.28	39.7	25.88333	14.3	36.8	30.52	42.3	34.7	23	42.2				
P mg/l	0.021333	0.011	0.037	0.2872	-0.448	0.508	0.172667	-0.448	0.402	0.09	-0.093	0.241	0.2388	0.039	0.6	0.2228	-0.183	0.492			
Al mg/l	-0.006	-0.006	-0.006	0.0134	-0.006	0.188	-0.00011	-0.006	0.047	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.0047	-0.006	0.007			
Fe mg/l	-0.006	-0.006	-0.006	0.012	-0.006	0.006	0.006	-0.006	0.006	0.006	-0.006	0.016	0.013	-0.006	0.016	0.0108	-0.006	1.07			
Mn mg/l	0.006667	-0.001	0.021	0.0084	-0.001	0.057	0.00508	-0.001	0.057	0.00508	-0.001	0.057	0.00508	-0.001	0.057	0.00508	-0.001	0.057			
N_Amonia mg/l	-0.015	-0.015	-0.015	0.1303	-0.015	0.84	0.051554	-0.015	0.26	0.308	-0.015	1.81	0.1695	-0.015	0.522	0.0953	0.034	0.195			
TotalHardness mg/l	592	578	602	612.2	553	694	634.5556	477	759	553.5	479	616	607.4	531	664	601.2	466	665			
PO4 mg/l	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025	-0.025			
Cd mg/l	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001			
Cr mg/l	-0.002	-0.002	-0.002	0.0007	-0.002	0.012	0.003333	-0.002	0.008	0.025833	0.02	0.035	0.0245	0.016	0.038	0.0099	-0.002	0.016			
Cr mg/l	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008			
SAR	0.44	0.44	0.44	0.441	0.44	0.53	0.465556	0.43	0.51	0.468333	0.43	0.51	0.432	0.36	0.49	0.455	0.3	0.87			

KM505: discharge outlet from Crocodile farm																					
Year	2007			2008			2009			2010			2011			2012			2013		
Variable/Stats	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
pH	8.11	7.91	8.4	7.71	7.31	8.17	8.07	7.78	7.78	8.15	7.76	8.44	8.13	7.53	8.81	8.28	8.04	8.08	8.46	8.025	8.6
EC mS/m	220.6667	182	247	216	183	308	247	74.7	74.7	146.925	60.4	268	141.67	73	202	129.77	87	192	108.425	99.7	112
TDS mg/l	966.6667	932	978	925	540	1262	650	650	650	656.375	601	1149	719.78	270	1035	725.9	493	886	645.5	568	689
Ca mg/l	56.4	55.1	57.8	62.475	40.2	97.1	79.4	79.4	79.4	69.4	48.8	20.9	77	47.31	20.6	81.8	46.9	37.9	57.9	49.375	45.8
Mg mg/l	143.6667	129	157	119.875	62.5	192	84.2	84.2	84.2	86.4	46.1	134	118.6	40	174	117.3	113	132	122.175	117	13
Na mg/l	45.96667	45.1	46.5	41.875	24.7	57	31.2	31.2	31.2	56.0875	11.1	243	35.85	10.7	61.2	53.87277	22	111.9	51.875	42	78
Cr mg/l	14.6667	8.8	18.2	18.8	14.1	27	6.65	6.65	6.65	6.94375	3.24	8.84	11.246	3.33	37.8	9.34546	1.38	24.3	1.04167	-5.48	5.02
MAUX CaCO3/L	489	496	934	602	267	1418	378	378	378	447.25	201	640	524.25	254	850	578.545	385	875	381.6667	257	460
SO4 mg/l	83	81.2	87.3	84.5	41.1	98	44.9	44.9	44.9	44.9	73.35	18.2	245	72.27	232	134	65.84545	38.8	119.5	87.16667	55.6
NO3-N mg/l	1.752	-0.057	5.37	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057	-0.057
Fe mg/l	0.061667	0.045	0.091	-0.21125	-0.48	0.59	0.134	0.134	0.134	0.148	-0.008	0.291	0.307	0.094	0.42	0.290364	-0.267	0.651	0.255883	-0.183	0.42
Am mg/l	-0.006	-0.006	0.006	0.0355	-0.006	0.136	-0.006	-0.006	-0.006	-0.00348	-0.006	0.007	0.009	-0.006	0.063	-0.009	-0.007	0.085	-0.006	-0.006	-0.006
Fe mg/l	0.041667	0.028	0.088	0.001	-0.011	0.101	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Am mg/l	0.326	0.214	0.424	0.254	-0.001	0.523	0.062	0.062	0.062	0.153775	0.011	0.455	0.307	-0.001	0.808	0.125273	-0.001	0.926	-0.001	-0.001	-0.001
N_Amonia mg/l	77.6	47	109	88.625	53.5	144	137	137	137	146.7464	2.96	296	13.6944	0.104	477	174.645	-14.1	50.5	0.602417	-0.089	1.13
Total phosphorus mg/l	17.3	35.6	76	34.5	10.5	140	34.5	34.5	34.5	34.875	2.75	140	21.8	0.21	140	34.875	37.6	69	37.6	69	69
PO4 mg/l	12.37667	8.03	17.7	19.225	7.6	14.3	3.01	3.01	3.01	3.01	0.771	0.478	5.67	3.009	0.821	9.1	5.400264	0.186	1.6	-0.19858	-1.463
Am mg/l	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
Am mg/l	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
Am mg/l	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
SAR	0.743333	0.72	0.76	0.7125	0.57	0.84	0.58	0.58	0.58	0.20875	0.31	4.37	0.63	0.3	0.88	0.851	0.39	1.38	0.645	0.57	0.7

MAK CaCO ₃ /L	122.5	81.8	193	86.525	64.1	124	111.1286	43.7	224	190	157	223	175.5	129	222	142.4667	99.6	183	130.9818	90.8	172
Cr mg/l	93.79	61.3	134	104.2625	59.7	159	95.03429	59.2	140	79.75	63.3	96.2	112.5	101	124	191.8	99.6	377	277.5455	180	402
SO ₄ mg/l	209.7	159	340	270.625	133	440	237.5714	96	355	165	154	176	183.5	176	193	186.8333	112	255	180.8182	78.6	245
NO ₃ -N mg/l	83.01	38.7	165	122.1288	1.33	233	104.1429	13.5	186	57.55	48	67.1	136.5	111	162	119.225	94.1	148	138.9273	63.5	197
F mg/l	0.1623	0.045	0.948	-0.0875	-0.48	0.738	0.114143	-0.48	0.471	0.0965	-0.001	0.194	0.2765	0.191	0.362	0.244167	-0.183	0.515	0.343	0.203	0.429
Al mg/l	-0.0684	-0.01	-0.006	-0.006	-0.006	-0.006	-0.00371	-0.006	0.01	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.00492	-0.006	0.007	-0.006	-0.006	-0.006
Fe mg/l	-0.0038	-0.01	0.015	-0.006	-0.006	-0.006	0	-0.006	0.017	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
Mn mg/l	0.0078	-0.01	0.039	0.08175	-0.001	0.288	0.022857	-0.001	0.049	0.016	0.007	0.025	0.044	0.018	0.072	0.00625	-0.001	0.055	0.01546	-0.001	0.059
N_Amonia mg/l	17.315	3.78	29.6	24.19	6.62	45.8	17.905	-0.015	0.424	6.12	5.09	7.15	23.95	21.7	26.2	16.34167	1.18	36.1	24.77636	4.44	46.9
Turbidiness mg/l	448.8	304	578	62.375	362	868	577.2857	201	818	508.5	413	600	662.5	631	990	682	560	803	758.0364	502	895
PO ₄ mg/l	0.0848	-0.1	0.337	0.02525	-0.025	0.377	0.084286	-0.025	0.399	-0.025	-0.025	-0.025	0.019	-0.025	0.063	0.061333	-0.025	0.567	-0.0055	-0.001	0.033
Cd mg/l	-0.0001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.00058	-0.001	0.002	-0.001	-0.001	-0.001
Cr mg/l	-0.0068	-0.01	-0.002	-0.002	-0.002	-0.002	0.005286	-0.002	0.016	0.011	0.01	0.012	0.0025	-0.002	0.007	0.016917	-0.002	0.178	0.002818	-0.002	0.012
Cr6+ mg/l	-0.0056	-0.01	-0.001	-0.004	-0.008	0.024	0.007714	-0.008	0.025	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.3645	-0.008	0.087	-0.008	-0.008	-0.008
SAR	2.344	1.84	3.17	2.60875	1.98	3.18	2.171429	0.98	3.02	1.7	1.54	1.86	2.155	1.86	2.045	1.68	2.41	2.515455	2.06	2.82	

KM507: Water run-off from KCM spiral plant																						
Variable/Stats	2007			2008			2009			2010			2011			2012			2013			
	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	
pH	7.68333	6.67	8.49	7.994167	7.44	8.64	8.040833	7.36	8.62	8.186667	7.02	8.82	8.433	7.71	8.77	8.34	7.77	8.65	8.248333	8.05	8.43	
EC mc/m	193.6667	179	234	145.8333	123	167	142.1167	75.8	258	163.3333	116	204	146.19	84.9	183	171.5455	121	250	210.8333	101	260	
TDS mg/l	1015.67	902	1170	828.75	619	990	647.6667	511	755	663.1667	516	764	641.6	436	810	826	673	1025	1098.83	506	1661	
Ca mg/l	28.06667	66.1	230	54.925	35	64.2	56.50833	38.6	71.4	56.91667	40.4	70.6	58.52	32.6	81.1	85.0991	47.2	114	101.6667	45.9	141	
Mg mg/l	101.9	91	120	98.8	75.4	113	96.76667	66.7	113	91.95833	76.4	103	94.84	75.5	111	101	89.3	116	102.8167	63.6	131	
Na mg/l	109.15	86.7	163	72.46667	45.1	95.4	77.78333	45.4	114	83.775	51.8	104	70.36	33.9	109	106.4364	74	139	143.175	67.1	200	
K mg/l	12.68333	10.7	17.2	8.319167	5.33	11.4	7.454167	5.06	9.28	7.649167	4.47	9.64	6.794	3.56	12.3	10.69727	2.29	16.8	16.8225	6.97	28.9	
MAK CaCO ₃ /L	138.8333	124	231	207	151	274	219.6667	139	272	232	169	311	227.6	201	263	178.4545	100	236	158.6667	113	190	
Cr mg/l	130.8333	109	158	84.575	69.1	107	90.83333	74.2	114	94.16667	55.1	139	84.77	50.9	116	142.0727	91	213	237.2	82.4	388	
SO ₄ mg/l	148.5	132	168	120.1167	96.4	149	125.5	106	154	137.4833	78.3	172	124.38	82.8	158	158.2727	104	228	150.2833	79	216	
NO ₃ -N mg/l	63.78333	28.9	140	48.44167	27.6	65.1	60.66667	11	82.9	61.75833	48	68.7	65.35	22.9	117	111	72.1	175	132.0883	43.7	216	
F mg/l	0.0485	0.034	0.065	0.31408	-0.48	0.571	0.391667	-0.48	0.48	0.192583	-0.001	0.371	0.2201	0.096	0.467	0.209455	-0.183	0.431	0.34617	0.235	0.497	
Al mg/l	-0.00667	-0.01	-0.006	0.01275	-0.006	0.219	-0.00183	-0.006	0.044	-0.00175	-0.006	0.024	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	
Fe mg/l	0.002833	-0.006	0.012	-0.00417	-0.006	0.016	0.000225	-0.006	0.01	0.01825	-0.006	0.114	0.0007	-0.006	0.014	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	
Mn mg/l	0.034833	0.018	0.057	0.0215	-0.001	0.025	0.03539	-0.001	0.044	0.025	-0.004	0.075	0.0372	0.006	0.072	0.010991	-0.001	0.086	0.00583	-0.001	0.086	
N_Amonia mg/l	19.6979	0.015	29	4.678	0.102	11.3	6.980833	-0.015	15.8	8.055833	1.36	15.1	9.0112	0.115	22.9	22.70291	4.86	50.6	34.26083	4.43	61.1	
Turbidness mg/l	614.8333	540	746	544.0833	401	618	539.6667	371	628	520.9167	430	588	536.7	392	644	629.6364	514	762	676.5833	368	832	
PO ₄ mg/l	-0.01067	-0.1	0.136	0.045667	-0.025	0.823	0.01375	-0.025	0.172	0.077583	-0.025	0.526	0.0973	-0.025	0.386	0.124273	-0.025	0.671	0.264333	0.027	1.05	
Cd mg/l	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.0005	-0.001	0.001	-0.001	-0.001	-0.001	0.0002	-0.001	0.003	-0.00082	-0.001	0.003	-0.001	-0.001	-0.001	
Cr6+ mg/l	-0.001	-0.001	0.012	0.02025	0.015	0.001	0.01825	-0.002	0.031	0.018417	-0.002	0.045	0.0306	-0.002	0.056	0.003455	-0.002	0.037	0.002833	-0.002	0.016	
SAR	1.903333	1.58	2.61	1.949167	1.98	1.74	1.455	0.88	2.04	1.5925	1.09	1.93	1.305	0.74	1.94	1.840909	1.42	2.25	2.371667	1.52	3.02	

RW511 Retain Water dam or containment dam																						
Year	2007			2008			2009			2010			2011			2012			2013			
Variable/Stats	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	
pH	7.7525	6.93	8.33	8.078182	7.65	8.78	8.030833	7.3	8.56	8.388	8.08	8.73	8.375	7.98	8.88	8.195	7.76	8.67	8.179091	7.9	8.45	
EC mc/m	174.25	135	210	152.8182	129	190	139.5083	68.4	235	159.6	118	198	153.57	83.7	201	178.1667	120	267	218.8182	168	251	
TDS mg/l	1008.17	888	1134	888.9091	648	1090	639.8333	411	731	628.8	513	705	656.3	419	811	937.9167	702	1281	1126	762	1620	
Ca mg/l	71.39167	62.6	85.8	57.61818	40.9	68.7	57.64167	33.2	66.8	54.75	42.1	65.1	60.15	32	94	92.05	50.9	129	107.818	78.1	140	
Mg mg/l	95.29167	79.8	110	101.4182	83	114	95.29167	51.9	113	86.19	72.8	94.1	95.24	64.3	111	109.0667	89.9	151	106.7545	82.8	138	
Na mg/l	101.2917	81.2	151	80.13636	64.1	99.4	78.49232	46.8	97.1	80.2	59	108	76.78	27.8	129	127.6823	88.8	184	145.6545	109	192	
K mg/l	11.99917	9.01	16.8	9.12	6.79	12.1	8.0225	5.33	10	7.975	6.59	8.99	8.014	4.38	15	19.0225	6.39	40.9	17.4545	11.5	27.4	
MAK CaCO ₃ /L	190.1667	123	272	195.6364	147	239	206.25	108	268	201.4	111	252	196.2	150	230	129.6	91.7	171	142.2364	99.6	186	
Cr mg/l	112	82.5	150	88.20909	73.1	107	81.75	69.1	123	92.88	59.7	131	95.06	55.9	137	181.0667	92.8	317	249.8182	187	370	
SO ₄ mg/l	167.4167	122	246	153.8182	108	190	124.7417	75.1	176	131.61	78.9	157	128.82	86.2	162	207.4167	109	311	150.1364	79.1	206	
NO ₃ -N mg/l	64.275	25.9	115	57.28182	28.4	97	57.98333	11.4	83.4	54.43	35.5	81.7	74.25	25	148	120.2333	82.8	175	140.0545	86.4	205	
F mg/l	0.0565	0.029	0.084	-0.00709	-0.48	1.5	0.191083	-0.48	0.453	0.1686	-0.001	0.384	0.2529	-0.075	0.693	0.112333	-0.183	0.374	0.340546	0.26	0.478	
Al mg/l	-0.00813	-0.01	-0.006	0.016091	-0.006	0.217	-0.00167	-0.006	0.048	-0.0041	-0.006	0.011	-0.006	-0.006	-0.006	-0.00375	-0.006	0.006	-0.006	-0.006	-0.006	
Fe mg/l	-0.00083	-0.01	-0.006	-0.006	-0.006	-0.00125	-0.006	0.013	0.0195	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	
Cl mg/l	0.000583	-0.01	0.025	0.004364	-0.001	0.026	0.0105	-0.001	0.034	0.0233	-0.001	0.048	0.0152	0.001	0.04	0.014083	-0.001	0.17	0.001	-0.001	-0.001	
Mn mg/l	0.21888	-0.1	25.5	0.042999	-0.001	12.6	5.77921	-0.015	30.7	6.382	1.85	7.9	17.91	-0.015	24.0	10.18917	0.051	28.5	32.9684	184	53.7	
Ammonia mg/l	520.4167	68	68	68	62.2	36.4167	68	465	68	68	68	542	2	348	68	678.9333	68	907	70.545	68	68	
PO ₄ mg/l	-0.001	-0.1	0.433	-0.01355	-0.025	0.001	-0.00867	-0.025	0.051	0.057	-0.025	0.279	0.001	-0.025	0.22	0.0125	-0.025	0.004	0.153727	0.001	0.453	
CO ₂ mg/l	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.00083	-0.001	0.001	-0.001	-0.001	-0.001	
Cr mg mg/l	-0.001	-0.001	-0.000834	-0.008	-0.008	0.015827	-0.008	-0.008	0.0008	0.008	0.028	0.008	0.008	0.008	0.008	0.008	0.008	-0.008	-0.008	-0.008	-0.008	
Lab	1.51	2.5	1.47096	1.27	8.1	1.475	1.76	1.76	1.475	1.76	1.475	1.475	1.475	1.475	1.475	2.1275	1.499	2.8	2.039879	1.93	1.96	
Cl mg/l	0.043667	-0.001	0.013	0.023	0.013	0.035	0.015917	-0.002	0.028	0.0209	-0.002	0.041	0.015	-0.002	0.043	0.041127	-0.002	0.016	0.037892	-0.002	0.03	