

2016 Sample Analysis

90%of permitted level

Concerning levels

End of Pipe of H2O Treatment Plant- 11678

HAD03	mg/l	22nd Sept	19th Sept	13th Sept	6th Sept	30th Aug	23rd Aug	17th Aug	10th Aug	2nd Aug	25th July	20th July	18th July	13th July	6th July	29th June	27th June	23rd June	June 7th	31st May	25th May	17th May	10th May	5th May	19th April	13th April	11th April	4th April	29th March	23rd March	15th March	8th March
Total Suspended solids	15	<1	<1	<1	<1	<1	<1	<1	1.5	<1	<1	<1	<1	1.1	1.3	1.1	1.3	3.6	1.9	3.8	16.5	9.1	4.5	3	4.7	7.2	4.9	9	5.2	8.6	14.2	4.9
Nitrates	9.7	9.1	9.34	8.99	9.51	9.2	8.78	8.73	9.04	8.87	8.6	8.72	8.92	8.51	8.15	9.03	8.84	8.57	8.8	8.55	8.75	8.51	8.66	8.79	8.43	9.51	8.71	7.7	7.77	9.47	8.78	8.72
Ammonia	0.41	0.0795	0.0955	0.108	0.136	0.141	0.117	0.109	0.112	0.115	0.110	0.111	0.117	0.119	0.122	0.177	0.171	0.188	0.105	0.126	0.132	0.111	0.146	0.144	0.0985	0.0606	0.022	0.0522	0.0755	0.0351	0.14	0.0624
Phosphorus	0.09	0.0037	0.0031	0.0025	0.0056	0.0036	<0.0020	<0.0020	<0.0020	0.0032	0.0049	0.0049	0.0044	0.0056	0.0100	0.0151	0.0121	0.0165	0.005	0.0053	0.0063	0.007	0.003	0.0058	0.0089	0.0161	0.0129	0.0081	0.0123	0.005	0.01	0.007
Sulphate	720	575	559	555	589	568	544	540	558	552	536	544	558	533	507	559	551	537	551	539	545	528	524	542	559	595	553	504	506	545	530	512
Arsenic	0.0034	0.00102	0.00098	0.00089	0.00089	0.00094	0.00098	0.00094	0.00084	0.00096	0.00085	0.00092	0.0009	0.00072	0.00085	0.00085	0.00089	0.00096	0.00049	0.00047	0.0006	0.00044	0.00049	0.00043	0.00053	0.00049	0.00045	0.00043	0.00041	0.00058	0.00049	0.00045
Copper	0.012	0.00338	0.00378	0.00348	0.00294	0.00291	0.0029	0.0025	0.0026	0.00446	0.00332	0.00437	0.00289	0.00308	0.00338	0.00612	0.0151	0.00519	0.00168	0.00019	0.00305	0.00217	0.0024	0.0036	0.0132	0.0166	0.0144	0.0229	0.0118	0.00683	0.00763	0.00706
Cadmium	N/A	<0.000015	<0.000020	0.00001	<0.000025	0.0000124	<0.000015	<0.000020	<0.000020	<0.000015	0.0000107	0.0000096	<0.000015	0.0000054	0.0000227	0.000007	0.00001	0.000015	0.0000088	0.0000061	8.5E-06	<0.000020	<0.000010	<0.000020	0.0000755	0.0000883	<0.00010	0.0000753	0.0000788	0.000051	0.0000578	0.000047
Chromium	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Iron	0.11	<0.03	<0.03	<0.03	<0.03	<0.03	<0.030	<0.030	<0.030	0.041	0.033	0.037	<0.030	<0.030	<0.030	0.074	0.066	0.112	<0.030	<0.030	0.032	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.045	0.038	<0.030	<0.030
Molybdenum	0.2	0.175	0.018	0.181	0.172	0.17	0.18	0.167	0.184	0.171	0.175	0.178	0.175	0.172	0.165	0.174	0.174	0.181	0.172	0.171	0.177	0.168	0.178	0.171	0.139	0.134	0.138	0.136	0.139	0.164	0.152	0.138
Selenium	0.06	0.037	0.0349	0.0389	0.0355	0.0338	0.0406	0.0349	0.0355	0.0360	0.0355	0.0353	0.0332	0.0324	0.0372	0.0356	0.0359	0.0376	0.0334	0.0384	0.0358	0.0356	0.0376	0.0371	0.0421	0.0490	0.0448	0.0373	0.0324	0.0374	0.0367	0.0326
Vanadium	0.0081	0.00128	0.00121	0.00109	0.00102	0.00106	0.00117	0.00108	0.00097	0.00110	0.00101	0.00108	0.00104	0.00101	0.00103	0.00105	0.00117	0.00133	0.00075	0.0008	0.00085	0.00059	0.0007	0.00174	0.00097	0.00086	0.00081	0.00087	0.00083	0.00088	0.00075	0.00072
Zinc	0.0083	<0.0030	<0.0030	<0.0030	<0.0030	0.0041	<0.0030	<0.0030	<0.0030	<0.0030	0.0035	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0061	0.0064	0.0047	0.0125	0.0074	0.0067	0.0065
Report Errors		Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0		Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0	Iron 1.0
Weekly Report Date		29th Sept	29th Sept	22nd Sept	22nd Sept	22nd Sept	15th Sept	8th Sept	18th Aug	11th Aug	11th Aug	11th Aug	4th Aug	21st July	14th July	7th July	7th July	7th July	23rd June	16th June	16th June	9th June	2nd June	12th May	28th April	28th April	28th April	21st April	14th April	7th April	31st March	24th March

01/08/2016

11/03/2016

QUL 58- QL Dilution

Zone	Life 30 Day Average	1st Aug	1st Aug	1st Aug	1st Aug	7th July	7th July	7th July	7th July	7th July	7th July	7th July	7th July	7th July	28th June	28th June	28th June	28th June	20th June	20th June	20th June	25th May	25th May	25th May	17th May	17th May	17th May	10th May	10th May	10th May	27th April	27th April	27th April
Hardness - as CaCO3	Maximum	48.9	51.1	52.9	56	48.9	51.1	52.9	56	46.7	47.5	54.3	54.4	48	48.1	54.7	55.7	48.2	54.3	56.9	51.6	54.2	55.3	50.8	53.7	55.4	54.7	54.4	56.1	53.7	54.6	54.4	
Total Suspended solids	" + 25 from background	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	2.2	<1.0	3.6	4.3	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	
Nitrates- as N	32.8	0.064	0.095	0.143	0.179	0.064	0.0947	0.143	0.179	0.055	0.066	0.155	0.145	0.061	0.069	0.158	0.142	0.07	0.134	0.183	0.09	0.132	0.144	0.096	0.133	0.168	0.121	0.135	0.129	0.112	0.128	0.128	
Copper - as Cu	see note 1	0.0008	0.0018	0.00552	0.00284	0.008	0.0018	0.00552	0.00284	0.00072	0.00099	0.00095	0.00137	0.0008	0.00105	0.00102	0.00138	0.0007	0.00111	0.0012	0.00082	0.00121	0.00152	0.00163	0.00545	0.00437	0.00108	0.00112	0.00142	0.00102	0.00148	0.00151	
Molybdenum- as Mo	2	0.000339	0.000338	0.000597	0.00133	0.000339	0.000338	0.000597	0.00133	0.000356	0.000367	0.00085	0.00072	0.000357	0.000336	0.000945	0.000572	0.000362	0.000503	0.00146	0.000366	0.000467	0.000805	0.000378	0.000483	0.00118	0.000473	0.000497	0.000569	0.000425	0.000579	0.000583	
Selenium- as Se	No Max	0.000104	0.00095	0.000122	0.000264	0.000104	0.000095	0.000122	0.000264	0.000105	0.000107	0.000179	0.000168	0.000112	0.000106	0.000191	0.000127	0.000104	0.000119	0.000324	0.000127	0.000115	0.00017	0.000128	0.00014	0.000218	0.000108	0.000127	0.000116	0.00011	0.000141	0.000146	
Sulphate	No max	5.6	5.81	6.64	8.87	5.6	5.81	6.64	8.87	5.5	5.59	7.95	7.33	5.78	5.78	8.55	7.21	5.78	6.91	10.10	6.08	6.8	7.81	6.16	6.85	9.38	6.88	7.12	7.29	6.83	7.56	7.48	
Cadmium- as Cd	see note 3,4	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	0.000005	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	
Weekly Report Date		Sept 1st				Aug 25th				Aug 4th				July 21st				July 21st			June 23rd			June 23rd			26th May			12th May			

Note 1
Hardness dependant Cu guideline: BC max WQG (mg/L) = (0.094 (hardness) =2/100
BC 30D WQG (mg/L) = 0.002 at hardness ≤50mg/L at hardness >50mg/L = 0.04*hardness/1000

Note 2
Hardness dependant sulphur guideline: BC30d WQG (mg/L) =128 at hardness, 30mg/L at hardness 31-75mg/L= 218,
at hardness 76-180mg/L=309, at hardness 181-250mg/L=429, at hardness 250mg/L determine base on site water

Note 3
Hardness dependant dissolved Cd guideline: mx BC WQG (mg/L)= (exp(1.03*hardness)-5.274)/1000;
BC 30D WQG (mg/L) = (exp(0.736*ln(hardness)-4.943))/1000

Note 4
Water quality guidelines are for dissolved cadmium