PRESTON NEW ROAD - CARR BRIDGE BROOK UPSTREAM 2019 DATA	Q1 2019						Q2 2019						Partial Q3 2019			
Date	03/01/2019	15/01/2019	06/02/2019	18/02/2019	06/03/2019	21/03/2019	12/04/2019	24/04/2019	07/05/2019	23/05/2019	04/06/2019	25/06/2019	05/07/2019	08/08/2019	16/08/2019	21/08/2019
1,1,1,2-Tetrachloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	no sample taken - access issues	< .1
1,1,1-Trichloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,1,2,2-Tetrachloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,1,2-Trichloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,1-Dichloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,1-Dichloroethylene :- {1,1-Dichloroethene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,1-Dichloropropylene :- {1,1-Dichloropropene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,2,3-Trichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,2,3-Trichloropropane ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5		< .5
1,2,3-Trimethylbenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,2,4-Trichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1

1,2,4-Trimethylbenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,2-Dibromo-3-chloropropane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,2-Dibromoethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,2-Dichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,2-Dichloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,2-Dichloropropane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,2-Dimethylbenzene :- {o-Xylene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,3,5-Trichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,3,5-Trimethylbenzene :- {Mesitylene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,3-Dichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,3-Dichloropropane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
1,4-Dichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
2,2-Dichloropropane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
2-Chlorotoluene :- {1-Chloro-2-methylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
3-Chlorotoluene :- {3-Chloromethylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1

4-Chlorotoluene :- {1-Chloro-4-methylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
4-Isopropyltoluene :- {4-methyl-Isopropylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Acenaphthene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01	< .01	< .01	< .01	< .01	< .01		< .01
Acenaphthylene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.0152	< .01	< .01	< .01	< .01	< .01	< .01		< .01
Acrylamide ug/l	< .05	< .008	< .05	< .008	< .05	< .008	< .008	< .05	< .05	< .05	< .05	< .05	< .008	< .05		< .05
Alkalinity to pH 4.5 as CaCO3 mg/l	107	122	96	96	106	93	132	92	131	137	122	154	140	140		130
Aluminium ug/l	5420	2280	1660	622	4960	888	3410	829	1190	359	766	1160	580	380		1200
Aluminium, Dissolved ug/l	45.5	24.8	53.1	42.2	1620	44.7	23.6	18	25.3	11.2	15.4	20.9	18	47		46
Ammoniacal Nitrogen as N mg/l	1.02	1.15	0.335	0.467	0.339	0.383	4.37	0.616	3.41	3.64	2.99	3.36	5.3	2		1.4
Anthracene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.0205		< .01	< .01	< .01	< .01	< .01		< .01
Antimony ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1
Antimony, Dissolved ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1
Arsenic ug/l	1.06	2.13	1.3	< 1	3.77	1.31	3.43	2.86	2.66	2.55	3.1		2.7	8.3		3.1
Arsenic, Dissolved ug/l	< 1	< 1	< 1	< 1	1.77	< 1	1.38	1.55	1.76	2.29	2.25	1.95	2.5	2.6		2
Barium ug/l	78.1	70.9	40.5	36.8	80.3	32.3	87	43.4	50.4	33.3	41.6	77.5	44	45		55
Barium, Dissolved ug/l	32.4	36.2	31.5	31.4	42.4	26.3	28.3	30.6	21.3	17.3	17.2	23.4	16	29		32
Benzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Benzo(a)Anthracene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01
Benzo(a)Pyrene ug/l	< .01	0.011	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01
Benzo(b)Fluoranthene ug/l	< .01	0.0135	0.0149	< .01	< .01	< .01	< .01	0.0157	< .01	< .01	< .01	< .01	< .01	< .01		< .01
BenzoIPyrene ug/l	< .01	0.0119	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01

Benzo(g,h,i)Perylene ug/l	< .01	0.012	0.013	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01
Benzo(k)Fluoranthene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01
Beryllium ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1
Beryllium, Dissolved ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1
BOD : 5 Day ATU mg/l	3.9	3.28	2.01	2.02	3.87	5.56	6.07	2	7.02	5.16	4.2	10.5	26	4		8
Boron ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100		< 100
Boron, Dissolved ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100		< 100
Bromobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Bromochloromethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Bromodichloromethane ug/l	< .1	0.33	0.12	0.25	0.15	< .1	0.31	1.08	0.43	0.59	0.42	0.48	0.28	0.35		0.16
Bromoform :- {Tribromomethane} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Cadmium ug/l	0.195	0.13	< .1	< .1	0.199	< .1	0.211	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Cadmium, Dissolved ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Calcium mg/l	48.7	55.6	47	47.5	45.5	42.3	48	44.1	48.6	43.4	44.7	50.9	46	56		50
Calcium, Dissolved mg/l	47.1	53.5	47.1	47.5	45.3	41.6	48.1	44.6	44.9	43	41.7	52.1	44	55		48
Carbon Disulphide ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Carbon tetrachloride :- {Tetrachloromethane} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Chemical Oxygen Demand :- {COD} mg/l	75	70	45	35	73	42	56	21	63	46	33	75	36	85		67
Chloride mg/l	44.3	111	69.6	57.5	37.1	40.7	40.5	70.9	46.3	34.7	41.8	44.5	34	36		31
Chlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1

Chlorodibromomethane ug/l	< .1	0.19	< .1	0.13	< .1	< .1	0.15	0.43	0.23	0.33	0.24	0.28	0.16	0.19		< .1
Chloroform :- {Trichloromethane} ug/l	0.2	0.77	0.34	0.63	0.35	0.22	0.89	3.59	1.24	1.69	1.53	1.34	1.2	1.2		0.54
Chloromethane :- {Methyl Chloride} ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5		< .5
Chromium ug/l	9.28	4.65	2.89	1.37	10.3	1.59	7.67	1.92	2.98	1.2	2.21	3.29	1.8	1.5		3.1
Chromium, Dissolved ug/l	0.533	< .5	0.604	< .5	3.74	< .5	0.519	< .5	< .5	< .5	< .5	0.501	< .5	0.54		0.71
Chrysene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01			< .01	< .01	< .01	< .01	< .01		< .01
cis-1,2-Dichloroethylene :- {cis-1,2-Dichloroethene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
cis-1,3-Dichloropropylene :- {cis-1,3-Dichloropropene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Cobalt ug/l	3.25	2.05	< 1	< 1	3.18	< 1	2.77	< 1	1.45	< 1	1.1	2	1.3	1.4		2
Cobalt, Dissolved ug/l	< 1	< 1	< 1	< 1	1.16	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1		< 1
Conductivity at 20 C uS/cm	397	655	464	438	369	355	449	515	459	427	424	490	450	450		390
Conductivity at 25 C uS/cm	443	731	518	489	412	396	501	575	512	477	473	547	500	510		440
Copper ug/l	18.3	10.3	9.38	4.97	27.8	6.34	18.8	5.3	8.16	3.63	5.92	9.69	5	5.1		9.8
Copper, Dissolved ug/l	4.22	2.97	5.59	3.49	12.5	4.87	2.24	2.13	1.8	1.3	1.26	1.98	1.5	2.2		4.1
Dibenzo(a,h)Anthracene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01
Dibromomethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Dichloromethane :- {Methylene Dichloride} ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5		< .5
Dimethylbenzene : Sum of isomers (1,3- 1,4-) ug/l	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2		< .2

Equiv.Carbon No >5-44 : (TPH) : Screen mg/l																
Equiv.Carbon No >10-12 mg/l	< .01	< .02	< .02	< .01	< .02	< .01	< .01	< .01	< .01	< .1	0.02	0.01	0.01	0.01		
Equiv.Carbon No >10-16 mg/l	< .01	0.03	< .02	< .01	0.05	0.01	0.01	< .01	0.01	< .1	0.03	0.03	0.04	0.02		
Equiv.Carbon No >10-20 mg/l	0.02	0.11	< .02	0.02	0.22	0.04	0.03	0.02	0.04	< .1	0.06	0.08	0.08	0.04		
Equiv.Carbon No >10-24 mg/l	0.03	0.16	< .02	0.04	0.29	0.05	0.04	0.05	0.06	< .1	0.07	0.11	0.12	0.06		
Equiv.Carbon No >10-25 mg/l	0.02	0.16	< .02	0.04	0.31	0.06	0.04	0.05	0.07	< .1	0.07	0.12	0.13	0.05		
Equiv.Carbon No >10-35 mg/l	0.04	0.53	< .02	0.09	0.43	0.08	0.06	0.11	0.12	< .1	0.14	0.25	0.3	0.07		
Equiv.Carbon No >10-40 mg/l	0.05	0.6	< .02	0.08	0.41	0.09	0.08	0.12	0.14	< .1	0.14	0.31	0.37	0.12		
Equiv.Carbon No >10-44 mg/l	0.06	0.64	< .02	0.08	0.41	0.09	0.09	0.1	0.15	< .1	0.01	0.32	0.41	0.12		
Equiv.Carbon No >12-16 mg/l	< .01	0.02	< .02	< .01	0.05	0.01	< .01	< .01	0.01	< .1	0.01	0.02	0.02	0.01		
Equiv.Carbon No >16-21 mg/l	0.02	0.09	< .02	0.01	0.2	0.03	0.02	0.03	0.03	< .1	0.03	0.05	0.06	0.02		
Equiv.Carbon No >16-24 mg/l	0.02	0.13	< .02	0.03	0.24	0.04	0.03	0.05	0.05	< .1	0.04	0.08	0.09	0.04		
Equiv.Carbon No >16-35 mg/l	0.03	0.5	< .02	0.08	0.38	0.07	0.06	0.11	0.11	< .1	0.01	0.22	0.3	0.06		
Equiv.Carbon No >20-30 mg/l	< .01	0.27	< .02	0.05	0.13	0.04	< .01	0.05	0.06	< .1	0.03	0.11	0.09	0.01		
Equiv.Carbon No >20-40 mg/l	0.03	0.49	< .02	0.07	0.2	0.05	0.05	0.08	0.1	< .1	0.1	0.25	0.29	0.03		
Equiv.Carbon No >20-44 mg/l	0.03	0.54	< .02	0.07	0.2	0.05	0.06	0.08	0.12	< .1	0.1	0.27	0.32	< .01		
Equiv.Carbon No >21-35 mg/l	0.02	0.41	< .02	0.07	0.18	0.04	0.04	0.08	0.08	< .1	0.08	0.17	0.21	0.03		
Equiv.Carbon No >24-40 mg/l	0.02	0.4	< .02	0.05	0.16	0.03	0.05	0.07	0.07	< .1	0.09	0.2	0.25	0.06		

Equiv.Carbon No >24-44 mg/l	0.03	0.43	< .02	0.05	0.18	0.03	0.06	0.07	0.07	< .1	0.09	0.22	0.28	0.06		
Equiv.Carbon No >25-40 mg/l	< .01	0.29	< .02	0.04	0.11	0.03	0.04	0.05	0.07	< .1	0.09	0.21	0.24	0.03		
Equiv.Carbon No >30-40 mg/l	0.02	0.23	< .02	0.02	0.07	0.01	0.05	0.03	0.04	< .1	0.07	0.14	0.2	0.02		
Equiv.Carbon No >35-40 mg/l	< .01	0.07	< .02	< .01	0.02	< .01	0.01	0.01	< .01	< .1	< .01	0.05	0.07	< .01		
Equiv.Carbon No >35-44 mg/l	0.01	0.1	< .02	0.01	0.04	< .01	0.03	0.01	< .01	< .1	< .01	0.07	0.1	< .01		
Equiv.Carbon No >5-10 mg/l	< .01	< .01	< .01	< .01	< .01	< 10	< 10	< .01	< .01	< .1	< 10		< .01	< 10		
Equiv.Carbon No >5-40 mg/l	0.05	0.6	< .02	0.08	0.41	0.09	0.08	0.12	0.14	< .1	0.14		0.37	0.12		
Equiv.Carbon No >5-44 mg/l	0.06	0.63	< .02	0.08	0.41	0.09	0.09	0.12	0.14	< .1	0.01	0.01	0.41	0.12		
Equiv.Carbon No >5-8 mg/l	< .01	< .01	< .01	< .01	< .01	< 10	< 10	< .01	< .01	< .1	< 10	< .01	< .01	< 10		
Equiv.Carbon No >6-10 mg/l	< .01	< .01	< .01	< .01	< .01	< 10	< 10	< .01	< .01	< .1	< 10		< .01	< 10		
Equiv.Carbon No >6-40 mg/l	0.05	0.6	< .02	0.08	0.41	0.09	0.08	0.12	0.14	< .1	0.14		0.37	0.12		
Equiv.Carbon No >6-44 mg/l	0.06	0.63	< .02	0.08	0.41	0.09	0.09	0.12	0.14	< .1	0.01		0.41	0.12		
Equiv.Carbon No >6-8 mg/l	< .01	< .01	< .01	< .01	< .01	< 10	< 10	< .01	< .01	< .1	< 10		< .01	< 10		
Equiv.Carbon No >8-10 mg/l	< .01	< .01	< .01	< .01	< .01	< 10	< 10	< .01	< .01	< .1	< 10	< .01	< .01	< 10		
Ethyl tert-butyl ether :- {ETBE} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Ethylbenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Fluoranthene ug/l	< .01	< .01	0.0117	< .01	0.0103	< .01	< .01	0.103	0.0136	0.0149	0.0176	0.0124	0.01	0.014		< .01
Fluorene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01			< .01	< .01	< .01	< .01	< .01		< .01
Hexachlorobutadiene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Hexachloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1

Indeno(1,2,3-cd)pyrene ug/l	< .01	< .01	0.016	< .01	< .01		< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01
Iron ug/l	6370	4370	1520	875	6910	814	6150	1300	3050	1260	2490	4250	2800	2800		3000
Iron, Dissolved ug/l	225	213	192	160	2060	132	198	101	375	328	432	438	560	1200		530
Isopropylbenzene :- {Methylethylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Lead ug/l	20.6	11.8	2.73	2.23	19.7	2.07	17.2	3.4	7.56	2.56	5.14	9.16	3.4	3.1		6.2
Lead, Dissolved ug/l	< 2	< 2	< 2	< 2	5.09	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2
Lithium ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100		< 100
Lithium, Dissolved ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100		< 100
Magnesium mg/l	8.18	9.82	7.06	7.09	8.37	5.7	9.64	5.95	8.53	8.03	7.62	8.98	8	8		7.2
Magnesium, Dissolved mg/l	6.26	8.76	6.42	6.79	6.87	5.37	8.44	5.69	7.53	7.88	7.04	8.5	7.6	8.1		6.6
Manganese ug/l	538	502	103	133	399	70.7	533	177	561	408	493	895	670	680		610
Manganese, Dissolved ug/l	279	282	90	120	198	50	325	149	440	386	440	548	520	600		270
Mercury ug/l	0.0438	0.0155	0.0153	< .01	0.0502	< .01	0.0287	0.0159	0.0141	< .01	< .01	< .01	< .01	< .01		0.013
Mercury, Dissolved ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01
Methane as CH4 mg/l	< .01	< .01	< .01	0.029	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.02	< .01		< .01
Molybdenum ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3
Molybdenum, Dissolved ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3		< 3
MTBE :- {Methyl tert-butyl ether} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Naphthalene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
n-ButylBenzene :- {1-Phenylbutane} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Nickel ug/l	9.78	5.8	3.83	2.33	11.2	2.51	7.96	2.53	3.72	3.05	2.94	4.47	2.7	2.9		4.6

Nickel, Dissolved ug/l	1.87	1.71	1.74	1.46	4.88	1.62	1.69	1.02	1.61	2.21	1.57	2.1	1.5	2.1		2.4
Nitrite as N mg/l	0.0797	0.0573	0.0489	0.0224	0.0323	0.0174	0.0917	0.024	0.12	0.0847	0.104	0.157	0.22	0.13		0.12
Nitrogen, Total Oxidised as N mg/l	4.75	3.13	5.79	3.85	4.26	2.96	3.89	1.27	2.36	1.2	1.05	1.25	0.92	0.79		1.5
n-Propylbenzene :- {1-Phenylpropane} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Oil and Grease mg/l	< .2	< .2	< .2	< .2	< .2	< .2	0.21	< .2	< .2	< .2	< .2	< .2	< .2	< .2		< .2
Oil Type : Qualitative	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1
Orthophosphate, reactive as P mg/l	0.099	0.57	0.289	0.238	0.267	0.098	0.556	0.6	0.983	1.51	1.17	0.651	1.8	0.66		0.42
Perylene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01
pH pH units	7.18	7.04	6.93	7.11	7	7.37	7.2	7.29	7.27	7.43	7.39	7.1	7.3	7.1		6
Phenanthrene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01		0.0174	0.0197	0.0229	0.0154	0.015	0.012		< .01
Potassium mg/l	5.91	5.27	5.67	3.86	6.71	4.32	4.83	4.44	5.35	4.65	5.06	7.08	5.6	6.4		5.4
Potassium, Dissolved mg/l	5.5	5.08	5.53	3.81	6.46	4.3	4.46	4.36	5.13	4.6	4.83	6.57	5.7	6.3		5.2
Pyrene ug/l	< .01	< .01	0.0102	< .01	< .01	< .01	< .01	0.0718	0.0102	0.0104	0.0138	< .01	< .01	< .01		< .01
sec-Butylbenzene :- {1-Methylpropylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Selenium ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1		< 1
Selenium, Dissolved ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1
Silica, reactive as SiO2 mg/l	7.06	7.19	7.26	4.67	7.67	3.3	6.48	6.77	6.03	6.4	6.37	7.87	6.7	9		7.9
Silver ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1
Silver, Dissolved ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1
Sodium mg/l	26.5	71.6	38.9	37.5	23.2	27	28.4	59.8	38	30.8	34.3	36	32	32		25
Sodium, Dissolved mg/l	26.6	70.6	38.3	35.9	24.2	26.8	29.7	60.9	35.6	31.6	32.8	36	32	32		25

Solids, Dissolved at 105 C mg/l	296	451	334	332	283	253	310	323	301	1290	270	332	280	350		310
Solids, Suspended at 105 C mg/l	91	138	25.2	20.6	92.5	34	130	16.8	80.9	43.8	30.8	91.8	14	26		93
Solids, Total Dissolved at 180 C: {TDS} mg/l	246	406	287	291	255	238	285	284	252	265	224	309	270	330		270
Strontium ug/l	102	129	97.5	101	98.3	87.9	111	118	110	103	106	129	110	150		120
Strontium, Filtered ug/l	94.1	122	98.1	99.4	94.7	84.5	106	116	104	99.8	101	127	110	140		120
Styrene :- {Vinylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Sulphate as SO4 mg/l	28.9	50.2	26.2	34.4	24.3	19	37.4	63.5	40.6	45.8	41.1	42.3	47	52		35
Sulphate, Dissolved as SO4 ug/l	28	48.7	25.7	34.1	24.5	18.7	37.9	63.9	39	46	39.8	42.4	46	52		34
tert-Amyl methyl ether :- {TAME} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
tert-Butylbenzene :- {(1,1-Dimethylethyl)benzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Tetrachloroethylene :- {Perchloroethylene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Tin ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2
Tin, Dissolved ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2
Titanium ug/l	27.3	21.2	9.35	8.56	22.8	6.78	31.9	11.8	17.3	6.21	10.7	23.4	10	7.9		16
Titanium, Filtered ug/l	< 2	< 2	2.69	< 2	12.8	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2
Toluene :- {Methylbenzene} ug/l	< .1	0.13	< .1	0.12	< .1	0.17	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
trans-1,2-Dichloroethylene :- {trans-1,2-Dichloroethene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1

trans-1,3-Dichloropropylene :- {trans-1,3-Dichloropropene} ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5		< .5
Trichloroethylene :- {Trichloroethene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Trichlorofluoromethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Turbidity NTU	86.8	112	45.2	22.6	140	26.5	86	20.2	56.1	28.6	21.7	53.3	4.6	18		41
Vanadium ug/l	8.75	4.68	2.9	< 2	8.74	< 2	5.56	2.54	3	< 2	2.42	3.07	2	< 2		3.4
Vanadium, Dissolved ug/l	< 2	< 2	< 2	< 2	3.55	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2		< 2
Vinyl chloride :- {Chloroethylene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1		< .1
Zinc ug/l	57.1	34.5	16.3	22.3	83.6	28.3	71.3	15.4	30.7	34.9	23.3	44.4	22	17		27
Zinc, Dissolved ug/l	5.06	8.57	8.12	10.8	28	12	6.41	< 5	6.86	16.7	< 5	13.9	< 5	8		7.2

PRESTON NEW ROAD – CARR BRIDGE BROOK DOWNSTREAM 2018/19 DATA	Q1 2019						Q2 2019						Partial Q3 2019			
Date	03/01/2019	15/01/2019	06/02/2019	18/02/2019	06/03/2019	21/03/2019	12/04/2019	24/04/2019	07/05/2019	23/05/2019	04/06/2019	25/06/2019	05/07/2019	08/08/2019	16/08/2019	21/08/2019
1,1,1,2-Tetrachloroethane ug/l	< .1	< .1	<.1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,1,1-Trichloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,1,2,2-Tetrachloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,1,2-Trichloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,1-Dichloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,1-Dichloroethylene :- {1,1-Dichloroethene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,1-Dichloropropylene :- {1,1-Dichloropropene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,2,3-Trichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,2,3-Trichloropropane ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5
1,2,3-Trimethylbenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,2,4-Trichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,2,4-Trimethylbenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,2-Dibromo-3-chloropropane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1

1,2-Dibromoethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,2-Dichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,2-Dichloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,2-Dichloropropane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,2-Dimethylbenzene :- {o-Xylene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,3,5-Trichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,3,5-Trimethylbenzene :- {Mesitylene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,3-Dichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,3-Dichloropropane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
1,4-Dichlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
2,2-Dichloropropane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
2-Chlorotoluene :- {1-Chloro-2-methylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
3-Chlorotoluene :- {3-Chloromethylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
4-Chlorotoluene :- {1-Chloro-4-methylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1

4-Isopropyltoluene :- {4-methyl-Isopropylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Acenaphthene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acenaphthylene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acrylamide ug/l	< .05	< .008	< .05	< .008	< .05	< .008	< .008	< .05	< .05	< .008	< .05	< .05	< .008	< .05	< .05	< .05
Alkalinity to pH 4.5 as CaCO3 mg/l	185	228	150	184	161	150	248	213	281	294	293	268	260	270	210	220
Aluminium ug/l	224	149	1060	375	1160	351	239	148	45.4	59.5	53.3	70.5	79	130	240	140
Aluminium, Dissolved ug/l	79.9	63.2	80	78.8	79	96.5	45.3	24.5	25.8	21.2	25.5	34.1	31	45	53	60
Ammoniacal Nitrogen as N mg/l	0.102	0.085	0.072	0.076	0.078	0.064	0.226	0.044	0.162	< .03	.032	.066	.041	0.063	0.079	0.077
Anthracene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01	< .01	< .01	< .01	< .01	< .01	< .01
Antimony ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Antimony, Dissolved ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Arsenic ug/l	1.11	1.34	1.4	1.18	1.96	1.49	1.54	1.84	1.51	1.5	1.58	1.64	1.6	2	1.9	1.8
Arsenic, Dissolved ug/l	< 1	< 1	< 1	< 1	1.37	1.15	1.15	1.52	1.31	1.41	1.39	1.65	1.5	1.7	1.5	1.6
Barium ug/l	56.9	66	60.6	60.3	59.9	49.7	63.4	56.7	61.3	62.7	61.4	61.9	63	65	62	59
Barium, Dissolved ug/l	53.4	64.2	53.5	53.5	50.9	47.1	60.4	49.9	60.2	61.4	59.7	61.8	61	62	59	59
Benzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Benzo(a)Anthracene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Benzo(a)Pyrene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Benzo(b)Fluoranthene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Benzo(e)Pyrene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Benzo(g,h,i)Perylene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Benzo(k)Fluoranthene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01

Beryllium ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Beryllium, Dissolved ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
BOD : 5 Day ATU mg/l	< 1	< 1	1.05	< 1	2.39	1.75	1.38	< 1	1.71	< 1	< 1	< 1	< 1	< 1	< 2.8	< 1
Boron ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Boron, Dissolved ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Bromobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Bromochloromethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Bromodichloromethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Bromoform :- {Tribromomethane} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Cadmium ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Cadmium, Dissolved ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Calcium mg/l	84.7	102	72.3	83.7	67.6	69.4	96.5	82.4	102	104	108	97.1	100	100	90	91
Calcium, Dissolved mg/l	82.7	97.7	73.9	82.1	69.2	68.9	98.2	83.3	103	105	105	102	110	100	89	94
Carbon Disulphide ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Carbon tetrachloride :- {Tetrachloromethane} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Chemical Oxygen Demand :- {COD} mg/l	25	13	47	23	59	55	25	17	16	< 10	< 10	17	10	21	37	27
Chloride mg/l	44.2	52.5	48.3	51.1	34.2	39.1	46.8	54.2	49.7	48	48.5	46.8	48	45	37	39
Chlorobenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Chlorodibromomethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1

Chloroform :- {Trichloromethane} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	0.36	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Chloromethane :- {Methyl Chloride} ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5
Chromium ug/l	0.564	< .5	1.89	0.864	2.33	0.828	0.685	< .5	< .5	< .5	< .5	< .5	.56	< .5	0.76	0.57
Chromium, Dissolved ug/l	< .5	< .5	0.567	< .5	0.786	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	0.51	< .5
Chrysene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01			< .01	< .01	< .01	< .01	< .01	< .01	< .01
cis-1,2-Dichloroethylene :- {cis-1,2-Dichloroethene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
cis-1,3-Dichloropropylene :- {cis-1,3-Dichloropropene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Cobalt ug/l	< 1	< 1	1.14	1.17	1.15	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cobalt, Dissolved ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Conductivity at 20 C uS/cm	601	728	566	633	506	512	718	665	751	771	770	730	770	720	610	630
Conductivity at 25 C uS/cm	671	812	632	706	565	571	801	742	838	861	859	815	860	800	690	710
Copper ug/l	3.71	2.05	7.33	23	10.1	4.61	1.79	1.81	< 1	1.02	< 1	1.31	< 1	1.4	4.2	2.7
Copper, Dissolved ug/l	3.16	1.67	5.35	2.54	7.23	3.87	1.38	2	< 1	< 1	< 1	1.22	1.1	1.2	3.9	2.5
Dibenzo(a,h)Anthracene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Dibromomethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Dichloromethane :- {Methylene Dichloride} ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5

Dimethylbenzene : Sum of isomers (1,3- 1,4-) ug/l	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2
Equiv.Carbon No >5-44 : (TPH) : Screen mg/l																
Equiv.Carbon No >10-12 mg/l	0.02	< .02	< .02	< .01	< .1	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >10-16 mg/l	0.08	< .02	< .02	< .01	0.26	0.01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >10-20 mg/l	0.11	0.03	< .02	< .01	0.87	0.03	< .01	< .01	0.03	< .1	< .01	< .01	< .01	< .01	0.01	< .01
Equiv.Carbon No >10-24 mg/l	0.13	0.03	0.03	0.01	1.1	0.04	< .01	0.01	0.05	< .1	< .01	< .01	< .01	< .01	0.01	< .01
Equiv.Carbon No >10-25 mg/l	0.12	0.04	0.02	0.01	1.2	0.05	< .01	0.01	0.04	< .1	< .01	< .01	< .01	< .01	0.01	< .01
Equiv.Carbon No >10-35 mg/l	0.16	0.05	0.04	0.03	2	0.05	< .01	0.02	0.12	< .1	< .01	< .01	< .01	< .01	0.02	< .01
Equiv.Carbon No >10-40 mg/l	0.17	0.06	0.02	0.02	2.1	0.05	< .01	0.02	0.14	< .1	< .01	< .01	< .01	< .01	0.02	< .01
Equiv.Carbon No >10-44 mg/l	0.18	0.06	0.02	0.02	2.1	0.05	< .01	0.03	0.15	< .1	< .01	< .01	< .01	0.01	0.01	< .01
Equiv.Carbon No >12-16 mg/l	0.06	< .02	< .02	< .01	0.23	0.01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >16-21 mg/l	0.04	< .02	< .02	< .01	0.69	0.02	< .01	< .01	0.03	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >16-24 mg/l	0.04	< .02	0.02	< .01	0.84	0.03	< .01	0.01	0.05	< .1	< .01	< .01	< .01	< .01	0.01	< .01
Equiv.Carbon No >16-35 mg/l	0.08	0.03	0.05	0.02	1.8	0.04	< .01	0.02	0.12	< .1	< .01	< .01	< .01	0.01	< .01	< .01
Equiv.Carbon No >20-30 mg/l	0.04	< .02	< .02	0.01	0.76	0.02	< .01	0.02	0.04	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >20-40 mg/l	0.06	0.03	0.02	0.01	1.2	0.02	< .01	0.03	0.11	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >20-44 mg/l	0.07	0.03	0.02	0.01	1.3	0.02	< .01	0.03	0.12	< .1	< .01	< .01	< .01	< .01	< .01	< .01

Equiv.Carbon No >21-35 mg/l	0.04	0.02	0.04	0.02	1.1	0.02	< .01	0.02	0.09	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >24-40 mg/l	0.04	0.02	0.04	0.02	1	< .01	< .01	0.02	0.11	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >24-44 mg/l	0.05	0.02	0.05	0.02	1.1	< .01	< .01	0.02	0.13	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >25-40 mg/l	0.02	0.02	0.03	0.01	0.87	< .01	< .01	0.02	0.09	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >30-40 mg/l	0.02	< .02	0.02	< .01	0.46	< .01	< .01	0.01	0.07	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >35-40 mg/l	< .01	< .02	< .02	< .01	0.13	< .01	< .01	< .01	0.03	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >35-44 mg/l	0.02	< .02	< .02	< .01	0.2	< .01	< .01	< .01	0.06	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Equiv.Carbon No >5-10 mg/l	< .01	< .01	< .01	< .01	< .01	< 10	< 10	< .01	< .01	< .1	< 10		< .01	< 10	< 10	< .01
Equiv.Carbon No >5-40 mg/l	0.17	0.06	0.02	1.2	2.1	0.05	< .01	0.02	0.14	< .1	< .01		< .01	< .01	0.02	< .01
Equiv.Carbon No >5-44 mg/l	0.18	0.06	0.02	1.28	2.1	0.05	< .01	0.02	0.16	< .1	< .01		< .01	< .01	0.02	< .01
Equiv.Carbon No >5-8 mg/l	< .01	< .01	< .01	< .01	< .01	< 10	< 10	< .01	< .01	< .1	< 10		< .01	< 10	< 10	< .01
Equiv.Carbon No >6-10 mg/l	< .01	< .01	< .01	< .01	< .01	< 10	< 10	< .01	< .01	< .1	< 10		< .01	< 10	< 10	< 10
Equiv.Carbon No >6-40 mg/l	0.17	0.06	0.02	1.2	2.1	0.05	< .01	0.02	0.14	< .1	< .01		< .01	< .01	0.02	< .01
Equiv.Carbon No >6-44 mg/l	0.18	0.06	0.02	1.28	2.1	0.05	< .01	0.02	0.16	< .1	< .01		< .01	< .01	0.02	< .01
Equiv.Carbon No >6-8 mg/l	< .01	< .01	< .01	< .01	< .01	< 10	< 10	< .01	< .01	< .1	< 10		< .01	< 10	< 10	< .01
Equiv.Carbon No >8-10 mg/l	< .01	< .01	< .01	< .01	< .01	< 10	< 10	< .01	< .01	< .1	< 10		< .01	< 10	< 10	< .01
Ethyl tert-butyl ether :- {ETBE} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Ethylbenzene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1

Fluoranthene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Fluorene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01			< .01	< .01	< .01	< .01	< .01	< .01	< .01
Hexachlorobutadiene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Hexachloroethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Indeno(1,2,3-cd)pyrene ug/l	< .01	< .01	< .01	< .01	< .01		< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Iron ug/l	313	304	1140	656	1360	500	586	357	178	144	136	236	180	360	490	410
Iron, Dissolved ug/l	125	121	141	118	195	166	147	71.3	81.8	35.3	49.8	89.9	45	110	140	200
Isopropylbenzene :- {Methylethylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Lead ug/l	< 2	< 2	< 2	< 2	2.29	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Lead, Dissolved ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Lithium ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Lithium, Dissolved ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Magnesium mg/l	17.3	24.1	13.2	18.3	12.5	13.4	25	21.1	27.9	29.9	30.5	25.8	30	26	18	20
Magnesium, Dissolved mg/l	16.6	23.5	13.2	18.3	12.3	13.1	25.3	21.3	27.8	30.3	29.5	26.7	30	27	18	21
Manganese ug/l	100	125	94.8	177	104	99	139	87.4	55.9	42.4	31.4	66.3	48	120	110	150
Manganese, Dissolved ug/l	95.5	120	70	94.9	73.6	87.6	115	68.6	52.5	38.4	25	63.2	34	110	86	140
Mercury ug/l	< .01	< .01	< .01	< .01	0.0167	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Mercury, Dissolved ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methane as CH4 mg/l	< .01	0.011	< .01	0.015	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Molybdenum ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Molybdenum, Dissolved ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

MTBE :- {Methyl tert-butyl ether} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Naphthalene ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
n-ButylBenzene :- {1-Phenylbutane} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Nickel ug/l	2.81	2.27	3.68	2.56	4.54	2.9	1.75	1.12	1.03	< 1	< 1	< 1	2.4	1.6	2.4	2.4
Nickel, Dissolved ug/l	2.39	1.88	2.49	1.82	2.94	2.5	1.54	< 1	< 1	< 1	< 1	< 1	< 1	1.2	2.3	2.2
Nitrite as N mg/l	0.0407	0.0257	0.0201	0.0174	0.0222	0.0124	0.0402	0.0096	0.0366	.012	.0149	.0214	.016	0.022	0.023	0.02
Nitrogen, Total Oxidised as N mg/l	6.29	3.67	9.17	4.65	6.41	3.69	2.89	1.84	1.79	1.91	1.84	1.58	1.9	1.9	3.5	2.2
n-Propylbenzene :- {1-Phenylpropane} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Oil and Grease mg/l	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2	< .2
Oil Type : Qualitative	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Orthophosphate, reactive as P mg/l	0.068	0.074	0.154	0.09	0.207	0.089	0.065	0.199	0.095	.089	.107	.168	.11	0.16	0.15	0.14
Perylene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
pH pH units	7.46	7.77	7.34	7.64	7.31	7.62	7.81	8.04	8.12	8.12	8.16	7.77	8.1	7.9	7.5	7.6
Phenanthrene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01		< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Potassium mg/l	4.75	3.78	6.26	3.82	6.86	4.41	3.21	2.74	2.72	2.33	2.83	3.52	2.7	3.5	5.2	4.4
Potassium, Dissolved mg/l	4.58	3.77	6.28	3.8	6.89	4.44	3.18	2.76	2.75	2.31	2.77	3.59	2.6	3.5	5.2	4.4
Pyrene ug/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
sec-Butylbenzene :- {1-Methylpropylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Selenium ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Selenium, Dissolved ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Silica, reactive as SiO2 mg/l	9.14	11.1	8.55	8.46	8.48	6.7	9.94	8.31	9.2	11.3	11.6	11.8	13	12	10	10
Silver ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Silver, Dissolved ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Sodium mg/l	27.4	32.6	28.5	32.2	22.4	26.3	28.8	38.2	29.8	30.1	31.3	30.5	31	28	25	26
Sodium, Dissolved mg/l	26.2	31.4	28.6	31.3	22.5	26.1	29.7	38.4	30.6	30.3	29.9	30	30	29	25	27
Solids, Dissolved at 105 C mg/l	475	572	430	515	388	393	558	497	565	598	583	562	610	580	630	520
Solids, Suspended at 105 C mg/l	4.05	4.97	16.6	11.1	37	8.3	11.2	5.02	12	< 3	< 3	3.6	4	6.4	11	4.2
Solids, Total Dissolved at 180 C: {TDS} mg/l	403	499	375	445	348	368	515	442	466	554	519	530	560	540	490	450
Strontium ug/l	283	396	214	299	203	226	402	331	441	459	469	427	460	430	320	350
Strontium, Filtered ug/l	273	392	218	294	205	216	403	330	444	462	463	440	470	430	310	350
Styrene :- {Vinylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Sulphate as SO4 mg/l	82.9	103	62.7	80.7	54.3	56.4	88.5	78.4	88	86.8	88.2	85.5	88	93	84	88
Sulphate, Dissolved as SO4 ug/l	80.8	102	64.6	80.5	55.7	55.6	89.4	78.8	87.2	87.1	86.5	88.4	87	93	81	90
tert-Amyl methyl ether :- {TAME} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
tert-Butylbenzene :- {(1,1-Dimethylethyl)benzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Tetrachloroethylene :- {Perchloroethylene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Tin ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2

Tin, Dissolved ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Titanium ug/l	3.56	< 2	8.4	6.35	10.7	5.12	5.47	2.77	< 2	< 2	2.02	3.82	< 2	3.3	4.5	2.9
Titanium, Filtered ug/l	< 2	< 2	2.11	< 2	2.51	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Toluene :- {Methylbenzene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
trans-1,2-Dichloroethylene :- {trans-1,2-Dichloroethene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
trans-1,3-Dichloropropylene :- {trans-1,3-Dichloropropene} ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5	< .5
Trichloroethylene :- {Trichloroethene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Trichlorofluoromethane ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Turbidity NTU	6	5.5	24	9.4	45.2	9.8	8.5	4.9	7.5	2.6	2.5	2.9	2.7	4	9.2	4.2
Vanadium ug/l	< 2	< 2	2.1	< 2	2.69	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vanadium, Dissolved ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl chloride :- {Chloroethylene} ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1	< .1
Zinc ug/l	7.08	5.92	13.5	24.9	15	13.8	< 5	< 5	< 5	6.93	< 5	< 5	< 5	< 5	< 5	< 5
Zinc, Dissolved ug/l	5.84	5.4	8.8	15.9	8.08	10.5	< 5	< 5	< 5	< 5	< 5	10.8	< 5	< 5	< 5	< 5