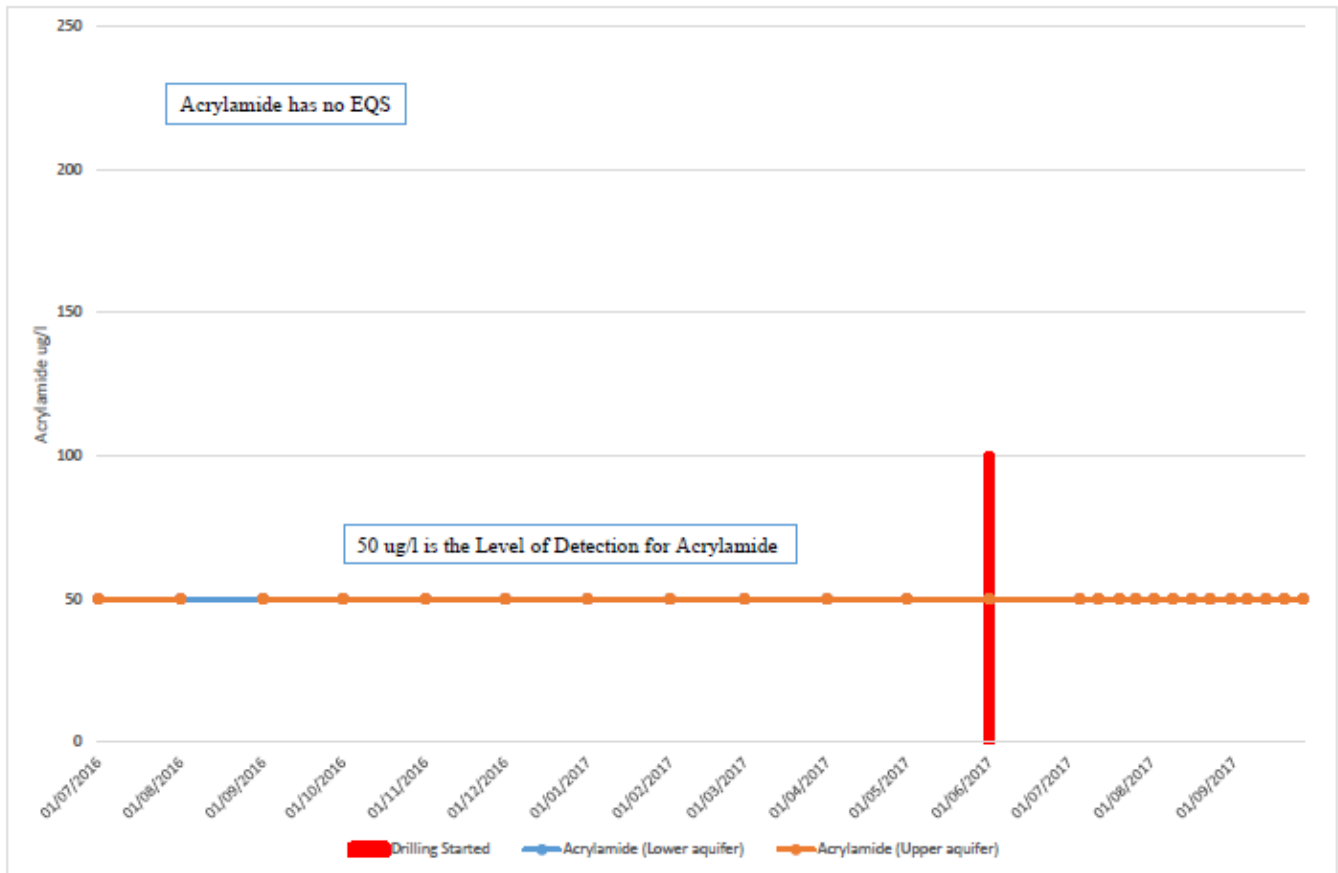


Preston New Road Groundwater Monitoring Data Q3 2017

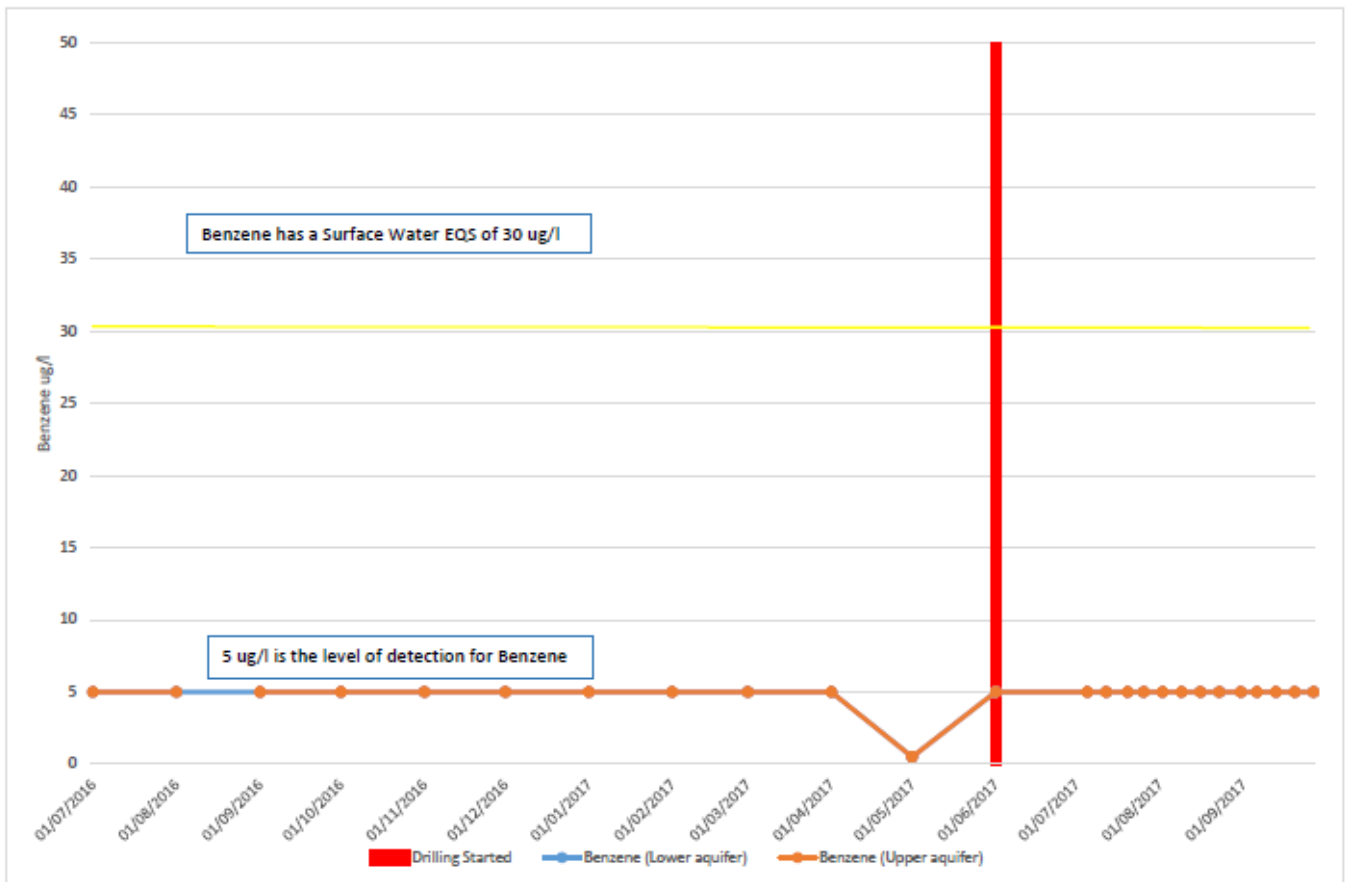
The following report includes Cuadrilla's quarterly groundwater monitoring data for Q3 2017 (July - September 2017).

Acrylamide



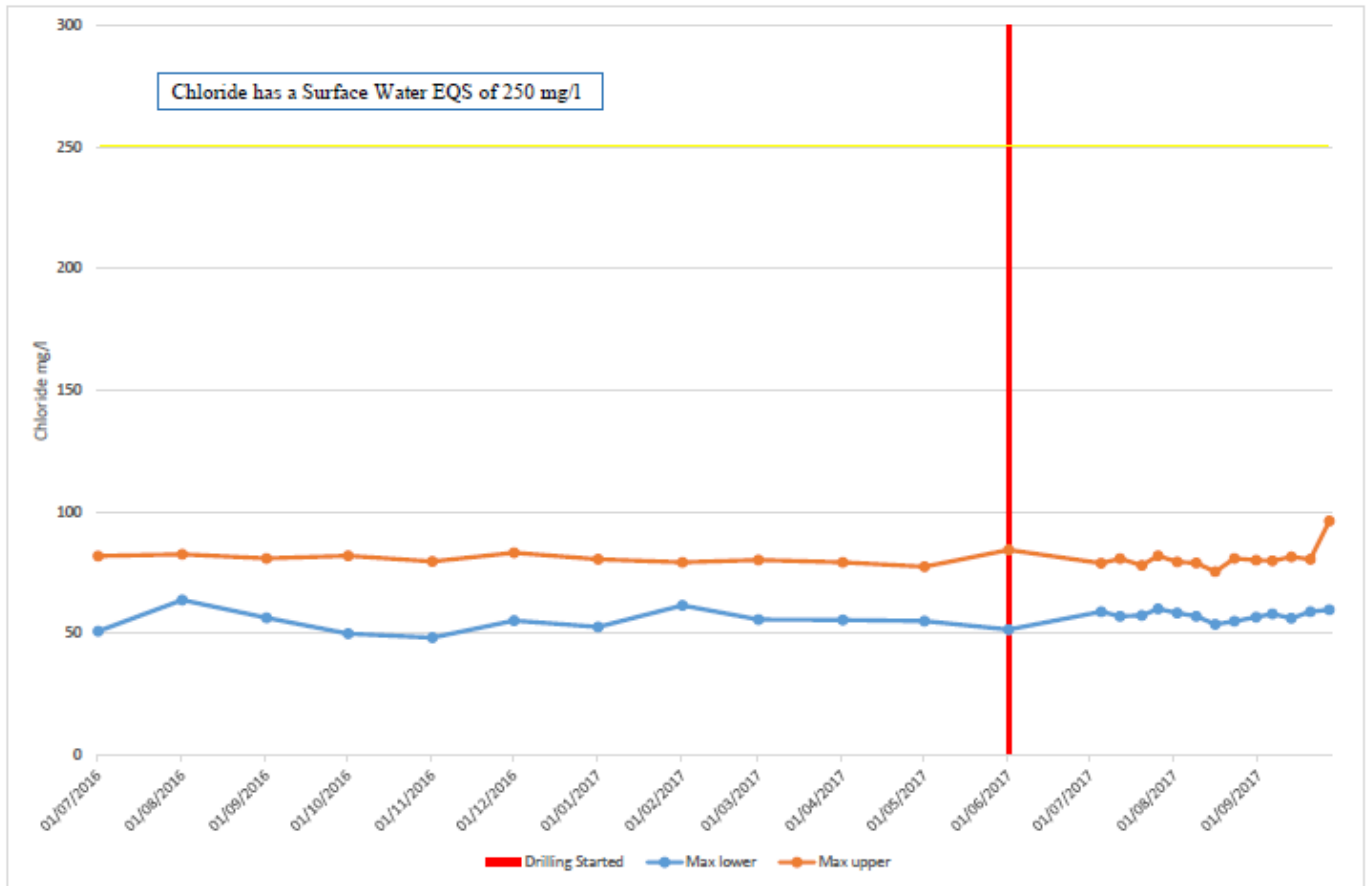
Groundwater Monitoring Preston New Road Acrylamide in 2 aquifers

Benzene



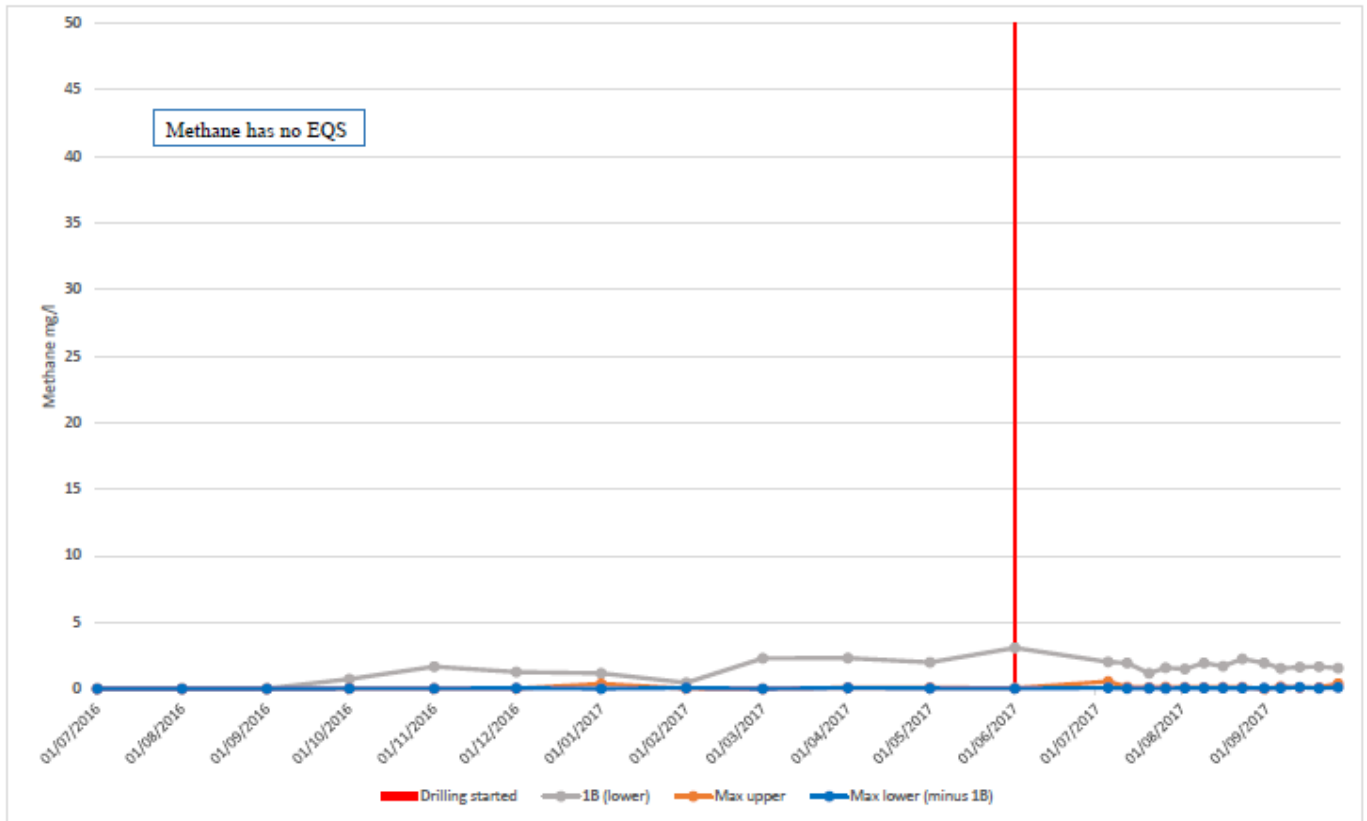
Groundwater Monitoring Preston New Road Benzene in 2 Aquifers (Maximum Values)

Chloride



Groundwater Monitoring Preston New Road Chloride in 2 Aquifers (Maximum Values)

Methane



Groundwater Monitoring Preston New Road Methane in 2 aquifers (Maximum Values)

The single highs are not indicative of a water quality change in excess of the background. The dissolved Lithium value in all 4 boreholes requires further observation in future monitoring to see if this is a rising trend.

Cuadrilla Preston New Road Groundwater Quality Monitoring Q3 2017 - Lower Aquifer

Substance/ Parameter	Units	BH01 (B)												BH02 (B)													
		05-Jul-17	12-Jul-17	20-Jul-17	26-Jul-17	02-Aug-17	09-Aug-17	16-Aug-17	23-Aug-17	31-Aug-17	06-Sep-17	13-Sep-17	20-Sep-17	27-Sep-17	05-Jul-17	12-Jul-17	20-Jul-17	26-Jul-17	02-Aug-17	09-Aug-17	16-Aug-17	23-Aug-17	31-Aug-17	06-Sep-17	13-Sep-17	20-Sep-17	27-Sep-17
Dissolved Aluminium [#]	ug/l	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
Dissolved Antimony [#]	ug/l	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Dissolved Arsenic [#]	ug/l	3.4	2.5	3	3.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	13.1	13.8	15.7	14.9	11.5	13.1	2.5	9.5	10.7	14.4	16.5	13.2	11.8	
Dissolved Barium [#]	ug/l	237	263	248	251	251	251	256	252	240	245	248	222	224	64	64	65	65	66	66	64	69	64	66	65	61	67
Dissolved Beryllium [#]	ug/l	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Dissolved Boron [#]	ug/l	31	35	27	36	27	36	37	42	33	33	41	31	19	38	47	41	48	48	47	48	46	48	43	52	42	42
Dissolved Cadmium [#]	ug/l	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Dissolved Calcium [#]	mg/l	112.7	107.7	119.7	108.3	116	109	111	110	112.4	106.5	110.8	110.5	110.7	118.4	114.1	124.9	113.3	123	115	104	117	120	115	118.3	118.4	118.5
Total Dissolved Chromium [#]	ug/l	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Dissolved Cobalt [#]	ug/l	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dissolved Copper [#]	ug/l	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Total Dissolved Iron [#]	ug/l	20	20	20	20	20	20	20	20	20	20	20	20	20	645	682	633	650	20	669	704	710	662	651	680	645	637
Dissolved Lead [#]	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Dissolved Lithium [#]	ug/l	5	9	6	20	10	7	20	32	30	9	7	39	13	10	15	18	29	14	12	26	55	29	15	13	40	17
Dissolved Magnesium [#]	mg/l	36.9	36.1	37.8	37.4	36.4	36	37.6	38.9	37.3	35.6	37.6	37.6	37.5	34.6	34.8	35.8	35.9	35	34.4	35.7	37	35.6	34	35.7	35.4	35.7
Dissolved Mercury [#]	ug/l	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dissolved Nickel [#]	ug/l	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dissolved Potassium [#]	mg/l	2.2	2.2	2.4	2.1	2.3	2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.2	1.8	1.8	1.9	1.7	2	1.7	1.7	1.7	2	1.8	1.7	1.9	1.8
Dissolved Selenium [#]	ug/l	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Dissolved Silver [#]	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Dissolved Sodium [#]	mg/l	35.7	32.9	35.5	32	35	32.6	34	35.5	34.6	32.4	33.4	36.1	35.2	29.1	28.3	29.8	27.9	30.1	27.7	28.7	28.6	29.1	27.9	28.2	29.2	28.9
Dissolved Strontium [#]	ug/l	233	274	292	254	251	254	244	244	244	237	235	271	573	603	683	553	588	564	550	545	558	566	554	566	623	623
Dissolved Vanadium [#]	ug/l	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Dissolved Zinc [#]	ug/l	5	10	3	6	6	6	3	6	7	5	5	4	5	3	3	3	3	3	3	3	3	3	3	3	3	3
EPH (C8-C40) [#]	ug/l	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
GRO (>C4-C8) [#]	ug/l	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
GRO (>C8-C12) [#]	ug/l	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
GRO (>C4-C12) [#]	ug/l	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
MTBE [#]	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Benzene [#]	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Toluene [#]	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Ethylbenzene [#]	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
m/p-Xylene [#]	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
o-Xylene [#]	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Fluoride	mg/l	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	-	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Bromide	mg/l	0.05	0.06	0.08	0.05	0.05	0.12	0.1	0.12	0.05	0.1	0.05	0.11	0.14	0.11	0.05	0.11	0.05	0.08	0.12	0.07	0.15	0.08	0.17	0.03	0.14	0.13
Chloride [#]	mg/l	59	57.1	57.5	60.1	58.4	57.1	53.8	55	56.7	58.1	56.3	59	59.8	48.7	49.6	48.5	49.7	48.9	49	46.9	49.8	49.3	49.2	51	51.4	50.4
Nitrate as NO3 [#]	mg/l	7.5	3.8	12.7	8.8	12	8.8	9.7	9.1	8.4	10.3	8.1	12	9.6	0.2	0.2	0.2	0.2	0.9	0.2	0.8	0.2	0.2	0.2	0.3	0.2	0.2
Nitrite as NO2 [#]	mg/l	0.14	0.09	0.18	0.14	0.17	0.17	0.16	0.16	0.2	0.2	0.11	0.12	0.14	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ammoniacal Nitrogen as NH4 [#]	mg/l	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.07	0.04	0.04	0.06	0.06	0.03
Dissolved Ethene [#]	ug/l	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dissolved Ethane [#]	ug/l	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dissolved Butane	ug/l	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dissolved Propane	ug/l	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dissolved Methane	mg/l	2.02	1.94	1.17	1.58	1.49	1.95	1.7	2.25	1.95	1.54	1.63	1.66	1.55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Dissolved Carbon Dioxide	mg/l	34.3	33.9	35.6	34.6	33.2	34.8	38.1	34.8	33.5	33.7	31.4	30.5	31.9	31.9	30.6	30.6	31.6	32.8	29	34.7	32	31.1	31.5	30.1	26.3	30.6
δ13C - CH4	ppm % VPDB	-67.8	-71.5	-64.4	-73.6	-72	-70.2	-67.4	-66.2	-67.7	-67.7	-68	-68.1	-65.2	-	-	-	-	-	-	-	-	-	-	-	-	-
δ13C - CO2	ppm % VPDB	-25.9	-27.9	-28.2	-27.9	-28.3	-28.9	-29	-28.7	-29.1	-28.6	-28.5	-31	-30.8	-23.5	-26.5	-26.9	-26.1	-26.7	-27	-27	-26.6	-27.2	-27.6	-27.2	-29.5	-30
Total Alkalinity as CaCO3 [#]	mg/l	384	348	346	370	344	436	374	370	376	372	386	374	430	352	316	296	350	326	416	348	350	342	350	376	344	392
Acrylamide	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Laurylamine	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Hydroxyethyl ethylene diamine	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Myristyl dimethylamine	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Octyldimethylamine	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
para phenylene diamine	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
BOD (Settled) [#]	mg/l	3	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
COD (Settled) [#]	mg/l	7	7																								

Substance/ Parameter	Units	BH03 (CMT 5)																BH04 (B)															
		05-Jul-17	12-Jul-17	20-Jul-17	26-Jul-17	02-Aug-17	09-Aug-17	16-Aug-17	23-Aug-17	31-Aug-17	06-Sep-17	13-Sep-17	20-Sep-17	27-Sep-17	05-Jul-17	12-Jul-17	20-Jul-17	26-Jul-17	02-Aug-17	09-Aug-17	16-Aug-17	23-Aug-17	31-Aug-17	06-Sep-17	13-Sep-17	20-Sep-17	27-Sep-17						
Dissolved Aluminium #	ug/l	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20							
Dissolved Antimony #	ug/l	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2							
Dissolved Arsenic #	ug/l	2.5	2.5	3.9	4.2	2.5	2.5	2.5	2.5	2.5	2.5	3	2.8	2.5	15.6	13.5	15	12.6	17.1	13.3	2.9	11	10.2	11.9	12.9	14.6	9.3						
Dissolved Barium #	ug/l	58	56	55	57	57	57	60	61	57	58	58	54	59	64	63	72	65	63	64	67	69	61	66	70	62	68						
Dissolved Beryllium	ug/l	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5						
Dissolved Boron	ug/l	42	45	42	46	47	55	49	53	46	48	51	40	42	38	45	50	43	45	54	43	46	45	46	50	36	38						
Dissolved Cadmium #	ug/l	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5						
Dissolved Calcium #	mg/l	114.2	108.5	119.9	107.5	115	111	109	113	112	108	112.1	108	113.6	117.9	115.2	127.1	112.1	116	120	119	120	118	118	114.3	116.9							
Total Dissolved Chromium #	ug/l	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5						
Dissolved Cobalt #	ug/l	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2						
Dissolved Copper #	ug/l	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7						
Total Dissolved Iron #	ug/l	509	551	497	513	565	536	555	576	574	536	537	527	517	750	766	804	657	803	776	794	807	749	723	500	748	654						
Dissolved Lead #	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
Dissolved Lithium	ug/l	11	16	14	33	13	12	27	46	32	14	13	47	15	14	14	17	30	16	11	26	39	32	14	13	41	14						
Dissolved Magnesium #	mg/l	32.9	32.7	33.9	33.7	32.3	33.1	34.3	35.4	33.1	32	33.7	33.7	33.9	34.6	35.3	36.1	35.9	34.9	35.3	36.7	38.1	36	35.6	36.4	36.2	35.5						
Dissolved Mercury #	ug/l	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Dissolved Nickel #	ug/l	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	15	2	2	2	2	2	2	2	2	2	7					
Dissolved Potassium #	mg/l	1.9	1.8	2	1.7	1.8	1.8	1.9	1.7	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.7	1.9	1.7	1.9	1.7	1.8	2.2	1.7	1.7	1.8						
Dissolved Selenium #	ug/l	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3						
Dissolved Silver	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
Dissolved Sodium #	mg/l	27.7	26.6	28.3	26.2	27.5	26.5	27.7	27.3	26.6	26	26.5	26.6	27.4	26.7	26.5	27.9	25.5	27.6	26	27.4	26.8	26.6	26.7	26.3	26.3	26.3						
Dissolved Strontium	ug/l	459	507	585	463	475	485	469	464	472	472	477	482	530	510	547	623	213	535	523	529	505	515	528	531	526	566						
Dissolved Vanadium #	ug/l	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5						
Dissolved Zinc #	ug/l	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7	3	3	3	3	3	3	3	3	4						
EPH (C8-C40) #	ug/l	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10						
GRO (>C4-C8) #	ug/l	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10						
GRO (>C8-C12) #	ug/l	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10						
GRO (>C4-C12) #	ug/l	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10						
MTBE #	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
Benzene #	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
Toluene #	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
Ethylbenzene #	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
m/p-Xylene #	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
o-Xylene #	ug/l	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
Fluoride	mg/l	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3						
Bromide	mg/l	0.11	0.07	0.06	0.05	0.05	0.11	0.13	0.13	0.1	0.09	0.05	0.11	0.12	0.06	0.03	0.1	0.05	0.06	0.15	0.11	0.12	0.06	0.16	0.05	0.13	0.14						
Chloride #	mg/l	49.2	48.5	47.7	48.7	47.2	48.2	45.4	48.4	54.9	48.4	49	50.2	48.8	44.2	44.3	43.7	44.2	43.3	43.3	41.4	44.3	43.6	45.2	45.9	44.7							
Nitrate as NO3 #	mg/l	0.2	0.2	0.2	0.2	0.2	0.2	0.7	0.2	0.4	0.4	0.2	4.8	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.2	0.2	0.2	1.8	0.2	0.2							
Nitrite as NO2 #	mg/l	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02						
Ammoniacal Nitrogen as NH4 #	mg/l	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.06	0.05	0.05	0.05	0.06	0.05	0.05	0.06	0.05	0.07	0.07	0.06	0.06							
Dissolved Ethene #	ug/l	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Dissolved Ethane #	ug/l	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Dissolved Butane	ug/l	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2						
Dissolved Propane	ug/l	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2						
Dissolved Methane	mg/l	0.07	0.02	0.04	0.03	0.05	0.05	0.05	0.06	0.06	0.12	0.04	0.1	0.04	0.03	0.03	0.03	0.05	0.03	0.01	0.01	0.02	0.02	0.03	0.04	0.03							
Dissolved Carbon Dioxide	mg/l	24	24.5	24.1	26	23.6	23.4	24.7	24.1	24.1	23.2	23.1	20.9	24	36.6	34.1	34.4	36.8	32.2	36.1	32.8	33.5	32.7	30.8	31.9	30.4	34						
δ13C - CH4	ppm % VPDB	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*						
δ13C - CO2	ppm % VPDB	-26	-26.3	-26.7	-25.7	-26.3	-27.3	-26.7	-26.6	-27.1	-27.9	-27.4	-30.8	-29.9	-26.7	-26.5	-27.2	-26.6	-27.2	-26.7	27.2	-27.1	-27.7	-28.4	-27.5	-29.5	-30.1						
Total Alkalinity as CaCO3 #	mg/l	292	306	262	320	304	386	332	334	342	330	326	322	374	350	324	296	344	352	410	332	362	346	350	342	350	398						
Acrylamide	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50						
Laurylamine	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50						
Hydroxyethyl ethylene diamine	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50						
Myristyl dimethylamine	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50						
Octyldimethylamine	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50						
para phenylene diamine	ug/l	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50						
BOD (Settled) #	mg/l	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
COD (Settled) #	mg/l	7	7	7	8	7	7	7	7	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	13	14	7					
pH #	pH units	7.53	7.39	7.79	7.67	7.45	7.51	7.75	7.8	7.71	7.75	7.54	7.56	7.62	7.5	7.27																	

Dissolved Nickel shows a single high value in BH4B on 13 September 2017.

The single highs are not indicative of a water quality change in excess of the background. The dissolved Lithium value in all 4 boreholes requires further observation in future monitoring to see if this is a rising trend.