

<b>Permit Number</b>	EPR/AB3101MW	<b>Operator</b>	Cuadrilla Bowland Limited
<b>Facility</b>	Preston New Road Exploration Site	<b>Form Number</b>	Groundwater 1

Substance/ Parameter	Units	Test Method	Trigger Level	Jul-16
	Dissolved Aluminium #	ug/l	TM30/PM14	TBC
Dissolved Antimony #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Arsenic #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Barium #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Beryllium	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Boron	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Cadmium #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Calcium #	mg/l	TM30/PM14	TBC	Not Sampled
Total Dissolved Chromium #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Cobalt #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Copper #	ug/l	TM30/PM14	TBC	Not Sampled
Total Dissolved Iron #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Lead #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Lithium	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Magnesium #	mg/l	TM30/PM14	TBC	Not Sampled
Dissolved Mercury #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Nickel #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Potassium #	mg/l	TM30/PM14	TBC	Not Sampled
Dissolved Selenium #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Silver	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Sodium #	mg/l	TM30/PM14	TBC	Not Sampled
Dissolved Strontium	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Vanadium #	ug/l	TM30/PM14	TBC	Not Sampled
Dissolved Zinc #	ug/l	TM30/PM14	TBC	Not Sampled
EPH (C8-C40) #	ug/l	TM5/PM30	TBC	Not Sampled
GRO (>C4-C8) #	ug/l	TM36/PM12	TBC	Not Sampled
GRO (>C8-C12) #	ug/l	TM36/PM12	TBC	Not Sampled
GRO (>C4-C12) #	ug/l	TM36/PM12	TBC	Not Sampled
MTBE #	ug/l	TM31/PM12	TBC	Not Sampled
Benzene #	ug/l	TM31/PM12	TBC	Not Sampled
Toluene #	ug/l	TM31/PM12	TBC	Not Sampled
Ethylbenzene #	ug/l	TM31/PM12	TBC	Not Sampled
m/p-Xylene #	ug/l	TM31/PM12	TBC	Not Sampled
o-Xylene #	ug/l	TM31/PM12	TBC	Not Sampled
Fluoride	mg/l	TM27/PM0	TBC	Not Sampled
Bromide	mg/l	TM27/PM0	TBC	Not Sampled
Chloride #	mg/l	TM38/PM0	TBC	Not Sampled
Nitrate as NO3 #	mg/l	TM38/PM0	TBC	Not Sampled
Nitrite as NO2 #	mg/l	TM38/PM0	TBC	Not Sampled
Ammoniacal Nitrogen as NH4 #	mg/l	TM38/PM0	TBC	Not Sampled

Dissolved Ethene <sup>#</sup>	ug/l	TM25/PM0	TBC	Not Sampled
Dissolved Ethane <sup>#</sup>	ug/l	TM25/PM0	TBC	Not Sampled
Dissolved Butane	ug/l	TM25/PM0	TBC	Not Sampled
Dissolved Propane	ug/l	TM25/PM0	TBC	Not Sampled
Dissolved Methane	mg/l	GC-IRMS	TBC	Not Sampled
Dissolved Carbon Dioxide	mg/l	GC-IRMS	TBC	Not Sampled
δ13C - CH4	ppm ‰. VPDB	GC-IRMS	TBC	Not Sampled
δ13C - CO2	ppm ‰. VPDB	GC-IRMS	TBC	Not Sampled
Total Alkalinity as CaCO3 <sup>#</sup>	mg/l	TM75/PM0	TBC	Not Sampled
Acrylamide	ug/l	TM103/PM59	TBC	Not Sampled
Laurylamine	ug/l	TM103/PM59	TBC	Not Sampled
Hydroxyethyl ethylene diamine	ug/l	TM103/PM59	TBC	Not Sampled
Myristyl dimethylamine	ug/l	TM103/PM59	TBC	Not Sampled
Octyldimethylamine	ug/l	TM103/PM59	TBC	Not Sampled
para phenylene diamine	ug/l	TM103/PM59	TBC	Not Sampled
BOD (Settled) <sup>#</sup>	mg/l	TM58/PM0	TBC	Not Sampled
COD (Settled) <sup>#</sup>	mg/l	TM57/PM0	TBC	Not Sampled
pH <sup>#</sup>	pH units	TM73/PM0	TBC	Not Sampled
Salinity	%	TM64/PM0	TBC	Not Sampled
Total Dissolved Solids <sup>#</sup>	mg/l	TM20/PM0	TBC	Not Sampled
Total Suspended Solids <sup>#</sup>	mg/l	TM37/PM0	TBC	Not Sampled


**BH03 (CMT 5)**

<i>Aug-16</i>	<i>Sep-16</i>	<i>Oct-16</i>	<i>Nov-16</i>	<i>Dec-16</i>	<i>Jan-17</i>	<i>Feb-17</i>	<i>Mar-17</i>	<i>Apr-17</i>
Not Sampled	20	20	20	20				
Not Sampled	2	2	2	2				
Not Sampled	2.5	2.5	6.5	3.6				
Not Sampled	59	58	51	57				
Not Sampled	0.5	0.5	0.5	0.5				
Not Sampled	48	48	50	48				
Not Sampled	0.5	0.5	0.5	0.5				
Not Sampled	113.8	112.8	112.7	107.2				
Not Sampled	1.5	1.5	1.5	1.5				
Not Sampled	2	2	2	2				
Not Sampled	7	7	7	7				
Not Sampled	20	926	630	582				
Not Sampled	5	5	5	5				
Not Sampled	10	12	12	13				
Not Sampled	34.3	33.1	32.4	31.4				
Not Sampled	1	1	1	1				
Not Sampled	5	2	2	2				
Not Sampled	2	1.9	2	1.9				
Not Sampled	3	3	3	3				
Not Sampled	5	5	5	5				
Not Sampled	27.8	26.7	26.7	25.1				
Not Sampled	491	511	488	493				
Not Sampled	1.5	1.5	1.5	1.5				
Not Sampled	8	3	3	3				
Not Sampled	10	10	10	10				
Not Sampled	10	10	10	10				
Not Sampled	10	10	10	10				
Not Sampled	10	10	10	10				
Not Sampled	5	5	5	5				
Not Sampled	5	5	5	5				
Not Sampled	5	5	5	5				
Not Sampled	5	5	5	5				
Not Sampled	5	5	5	5				
Not Sampled	5	5	5	5				
Not Sampled	0.3	0.3	0.3	0.3				
Not Sampled	0.08	0.13	0.05	0.11				
Not Sampled	48.9	49.8	48.3	50.6				
Not Sampled	0.2	0.2	0.3	0.2				
Not Sampled	0.02	0.02	0.02	0.02				
Not Sampled	0.03	0.03	0.03	0.03				

Not Sampled	1	1	1	1				
Not Sampled	1	1	1	1				
Not Sampled	2	2	2	2				
Not Sampled	2	2	2	2				
Not Sampled	0.01	0.02	0.02	0.02				
Not Sampled	26.8	25.4	9.8	24.79				
Not Sampled	0	0	0	0				
Not Sampled	-24.39	-27.25	-27.75	-27.2				
Not Sampled	336	338	334	328				
Not Sampled	50	50	50	50				
Not Sampled	50	50	50	50				
Not Sampled	50	50	50	50				
Not Sampled	50	50	50	50				
Not Sampled	50	50	50	50				
Not Sampled	50	50	50	50				
Not Sampled	2	1	1	1				
Not Sampled	7	13	7	7				
Not Sampled	7.75	7.65	7.89	7.55				
Not Sampled	0.1	0.5	0.1	0.1				
Not Sampled	526	466	461	540				
Not Sampled	2226	670	22	21				

<i>May-17</i>	<i>Jun-17</i>	<i>Jul-17</i>	<b>Uncertainty</b>
			0.00
			0.00
			1.85
			3.52
			0.00
			0.98
			0.00
			2.93
			0.00
			0.00
			0.00
			370.70
			0.00
			1.23
			1.19
			0.00
			1.47
			0.06
			0.00
			0.00
			1.09
			10.16
			0.00
			2.45
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.03
			0.99
			0.05
			0.00
			0.00

			0.00
			0.00
			0.00
			0.00
			0.00
			7.82
			0.00
			1.49
			4.23
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.49
			2.94
			0.14
			0.20
			39.77
			1019.29