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Forward

PREMISES Gloucester Coal Seam Gas Project

Bucketts Way

Gloucester NSW 2422

LICENCE DETAILS Environment Protection Licence 20358

LICENCEE AGL Upstream Investments Pty Limited (AGL)

LICENCEE'S ADDRESS Locked Bag 1837, St Leonards, NSW 2065

MONITORING DATE 15 November 2017

MONITORING BY EMM Consulting Pty Ltd (EMM), on behalf of AGL

ANALYSIS BY ALS Laboratory, Smithfield (Work order: ES1728736)

DATE AGL OBTAINED DATA 7 December 2017

REPORT DATE 7 December 2017

REPORT PREPARED BY James Duggleby, Principal Hydrogeologist, EMM, on behalf of AGL



Introduction

On 4 February 2016 AGL Upstream Investments Pty Ltd (AGL) announced that the GGP will not proceed to final investment stage. AGL will relinquish Petroleum Exploration Licence (PEL) 285 to the NSW Government and are completing a comprehensive decommissioning and rehabilitation program for well sites and other infrastructure in the Gloucester region.

This Monitoring Report relates to the water monitoring activities specified in Part 5, Monitoring and Recording Conditions, of the Environment Protection Licence 20358. This report relates specifically to the monitoring surrounding the Tiedman Irrigation Program, and details monitoring results from a quarterly water sampling event at the Tiedman Irrigation Program (15 November 2017).

As per the Licence, the monitoring encompasses the monitoring points at the locations as shown in Table 1 and Figure 1. The specific analytes and frequency tested are shown in Table 2. The monitoring results for this reporting period are shown in Table 3, Table 4, and Table 5.

The monitoring points that are the subject of this report were part of the GGP groundwater monitoring network, as described in AGL's Water Management Plan for the Tiedman Irrigation Program (AGL, 2012a) and Soil Quality Monitoring and Management Program (AGL, 2012b)). Water monitoring results for the irrigation program are presented in a baseline water monitoring report (PB, 2013a) and six-monthly compliance reports (PB, 2013a, 2013b, 2014a, 2014b, 2015a, and 2015b).

The following sampling methods were used to obtain surface water and groundwater samples:

- Submersible 12V pump at the groundwater monitoring bores screened within relatively permeable geological materials: TMB01, TMB02 and TMB03. A minimum of three well volumes was purged prior to sampling.
- Submersible 12V pump at the seepage monitoring bores TMB04 and TMB05 which are screened
 within material of very low permeability. The physical parameters of the purged groundwater were
 initially tested, then the bores were purged dry and if any inflow was observed within 12 hours then
 physical parameters were tested again and a sample taken for analysis.
- Disposable bailer at the shallow perched soil water piezometers (with piezometers purged dry and
 if any inflow was observed within 12 hours then physical parameters were tested again and a
 sample taken for analysis). Note, all soil water piezometers were dry during the November 2017
 sampling event.
- Micro-purge low-flow sample pump for groundwater monitoring bores S4MB01, TTMB02 and TCMB01 screened within material of relatively low permeability.

EC and pH were monitored during purging to ensure that they had stabilised prior to sample collection. The water quality samples are analysed by an external NATA certified laboratory (ALS Environmental, Smithfield), in accordance with the EPA Approved Methods Publication "Approved Methods for the Sampling and Analysis of Water Pollutants in New South Wales" (EPA, 2004), with the exception of calcium, which underwent filtration rather than acid extraction as a preliminary treatment prior to analysis.

This report is prepared in accordance with the Requirements for Publishing Pollution Monitoring Data (EPA, 2012) (Publication Requirements).



The remaining water and land monitoring points in EPL 20358 will be reported in subsequent reports when the requirement for monitoring is triggered.

More information on the groundwater monitoring of the GGP is available on the project website: agl.com.au/Gloucester



EPA ID no.	Monitoring Point	Type of monitoring point	Easting (m)	Northing (m)
30	TMB04	Groundwater quality monitoring	402558.1	6448921.7
31	TMB05	Groundwater quality monitoring	402650.1	6448725.3
39	TMB01	Groundwater quality monitoring	401996.98	6449419.7
40	TMB02	Groundwater quality monitoring	401905.11	6449100.6
41	TMB03	Groundwater quality monitoring	401969.53	6448755
42	S4MB01	Groundwater quality monitoring	402581.88	6449409.7
43	TCMB01	Groundwater quality monitoring	402501.7	6448899
44	TTMB02	Groundwater quality monitoring	402699	6449358
45	SP1B	Soil water quality monitoring	402570.3	6449381.3
46	SP2B	Soil water quality monitoring	402444.2	6449100.1
47	SP4B	Soil water quality monitoring	402252	6449131.3
48	SP6B	Soil water quality monitoring	402103.5	6449178.6
49	SP7B	Soil water quality monitoring	402144.8	6449292.1
50	SP8B	Soil water quality monitoring	402159.1	6449454.8
51	SP9B	Soil water quality monitoring	402387.5	6449016.9
52	SP10B	Soil water quality monitoring	402344.2	6448840.6
91	Tiedman Dams Irrigation Discharge	Discharge point of blended water	Tiedman	South Dam

Coordinate reference system: Map Grid of Australia 1994

 Table 1
 Water quality monitoring points: Irrigation Program (as per EPL 20358)



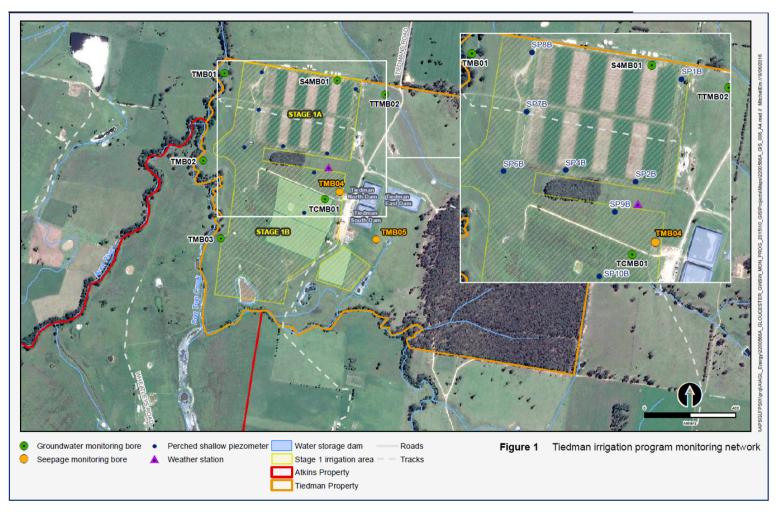


Figure 1 Location of groundwater and surface water quality monitoring points (as per EPL 20358)

Table 2: Analytes monitored and frequency - monitoring points 30 - 52, as per the EPL 20358 version valid at the time of sampling (version 5 January 2017)

		Monitoring points								
Analyte	Units of measure	30,31		39,40,41,42,43,44		45,46,47,48,49,50,51, 52		91 ^b		
		Frequency	sampling method	Frequency	sampling method	Frequency	sampling method	Frequency	sampling method	
Aluminium	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Ammonia	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Arsenic	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Barium	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Benzene	micrograms per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Beryllium	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Bicarbonate	milligrams per litre	Special Frequency 1	Grab sample					Monthly	Grab sample	
Boron	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Cadmium	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Calcium	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Chloride	milligrams per litre	Special Frequency 1	Grab sample					Monthly	Grab sample	
Chromium	milligrams per litre			Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Cobalt	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Copper	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Dissolved oxygen	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample			
Electrical conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Fortnightly	Probe	
Ethyl benzene	micrograms per litre ^a	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Fluoride	milligrams per litre							Monthly	Grab sample	
Iron	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Lead	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Magnesium	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Manganese	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Mercury	milligrams per litre			Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Molybdenum	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Nickel	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Nitrate	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Nitrite	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
	milligrams per litre							Monthly	Grab sample	
	pH			Quarterly	Grab sample	Quarterly	Grab sample	Fortnightly	Probe	
Phosphorus (total)	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Potassium	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Reactive Phosphorus	milligrams per litre	Special Frequency 1	Grab sample							
Redox potential	millivolts	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Fortnightly	Probe	
Selenium	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Silica	milligrams per litre			Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Sodium Adsorption Ratio	milligrams per litre ^c							Monthly	Grab sample ^c	
Standing water level	meters (Australian Height Datum)	Special frequency 8	Special method 5	Special frequency 8	Special method 5	Quarterly	Special method 1			
Strontium (dissolved)	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Sulfate	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Temperature	degrees Celcius							Fornightly	Probe	
Toluene	micrograms per litre ^a	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Total alkalinity	milligrams per litre			Quarterly	Grab sample			Monthly	Grab sample	
Total dissolved solids	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Fornightly	Probe	
Total organic carbon	milligrams per litre	Special Frequency 1	Grab sample					Monthly	Grab sample	
solids	milligrams per litre	Consider F	Out to the	O to . t	Ough as i	0 1	Ough as d	Monthly	Grab sample	
	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Vanadium	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
	micrograms per litre ^a	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	
Zinc	milligrams per litre	Special Frequency 1	Grab sample	Quarterly	Grab sample	Quarterly	Grab sample	Monthly	Grab sample	

Notes:

Special Frequency 1 - Quarterly if inflow within 12 hours of purging dry.

Special Frequency 8 - Every 6 hours. Note these monitoring points may form part of AGL's rehabilitation work, and should a monitoring point be rehabilitated, than monitoring will no longer be required from that point.

Special Method 1 - Manual dip Special Method 4 - By calculation Special Method 5 - Automated datalogger

Shaded grey - not required to be analysed

^aEPL20358 (issued 5 January 2017) contains inconsistancies in the required Units of Measure for Toluene, Ethyl Benzene and Xylene. For consistency with laboratory data BTEX concentrations are reported here in micrograms per litre.

^bMonitoring Point 91 is only required during periods when the Licensee is utilising the water irrigation or stock use.



^c Unit of measure is incorrectly referenced as 'miligrams per litre' - should be 'ratio'. And sampling method is incorrectly assigned as 'grab sample' in EPL - should be 'Special Method 4 - By calculation'

Groundwater and surface water monitoring results

Table 3: November 2017 water monitoring results for monitoring points 30-44

		Monitoring points	30	31	39	40	41	42	43	44
		Location	TMB04	TMB05	TMB01	TMB02	TMB03	S4MB01	TCMB01	TTMB02
		Sampled date	15/11/2017	15/11/2017	15/11/2017	15/11/2017	15/11/2017	15/11/2017	15/11/2017	15/11/2017
		Date AGL obtained	6/12/2017	6/12/2017	6/12/2017	6/12/2017	6/12/2017	6/12/2017	6/12/2017	6/12/2017
A maluka	Units of	data	6/12/2017	0/12/2017	0/12/2017	6/12/2017	6/12/2017	8/12/2017	8/12/2017	8/12/2017
Analyte	measure	Limit of reporting	0.01	0.00	2.24	0.01	2.21	0.01	0.01	
Aluminium	mg/L	0.01	0.04	0.30	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ammonia	mg/L	0.01	0.16	0.26	0.74	0.28	0.13	1.87	1.23	0.67
Arsenic	mg/L	0.001	<0.001	< 0.001	<0.001	0.002	0.002	<0.001	<0.001	<0.001
Barium	mg/L	0.001	0.085	0.179	0.246	0.778	0.174	4.77	8.83	0.728
Benzene	μg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium	mg/L	0.001	<0.001	0.002	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate	mg/L	1	164	26	.0.05	.0.05	.0.05	0.14	-0.05	-0.05
Boron	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.14	< 0.05	<0.05
Cadmium	mg/L	0.0001	0.0011	0.0012	< 0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	1	78	52	240	134	160	249	210	180
Chromium	mg/L	0.1	1980	2310	.0.001	.0.001	.0.001	.0.001	.0.001	.0.001
Cohalt	mg/L	0.001	0.070	0.177	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001
Copper	mg/L	0.001 0.001	0.079	0.177	<0.001 0.007	0.002	0.003	<0.001	<0.001	<0.001
Copper Dissolved oxygen ^{d e}	mg/L mg/L	0.001	1.15	1.18	1.01	2.73	0.002	0.44	0.002	0.88
Electrical conductivity	μS/cm	1	7190	7110	9210	4100	5590	4530	2990	2400
Ethyl benzene	μg/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Fluoride		0.1	< 2	<2	< 2	< 2	< 2	< 2	< 2	< 2
Iron	mg/L mg/L	0.05	3.56	12.4	2.62	5.38	1.01	0.37	1.96	0.17
Lead	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	1	205	222	250	88	120	50	67	54
Manganese	mg/L	0.001	9.32	19.4	0.820	1.20	1.32	0.191	0.037	0.102
Mercury	mg/L	0.0001	7.32	17.4	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Molybdenum	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	mg/L	0.001	0.035	0.086	<0.001	0.001	0.001	<0.001	<0.001	<0.001
Nitrate	mg/L	0.01	0.02	0.20	0.02	0.03	0.02	0.02	<0.01	<0.01
Nitrite	mg/L	0.01	< 0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01
Nitrogen (total)	mg/L	0.1								
pH ^d	pН	0.01			6.61	6.40	6.72	7.03	7.01	6.71
Phosphorus (total)	mg/L	0.01	0.13	0.13	0.12	0.06	0.02	0.06	0.04	0.36
Potassium	mg/L	1	20	15	3	3	1	5	4	4
Reactive Phosphorus	mg/L	0.01	0.13	< 0.01						
Redox potential ^d	mV	0.1	20.6	77.9	-111.2	-39.2	-30.2	-153.7	-101.4	-79.4
Selenium	mg/L	0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01
Silica	mg/L	0.05			34.9	33.2	30.4	26.7	20.1	33.4
Sodium	mg/L	1	1030	953	1260	535	821	620	274	268
Sodium Adsorption Ratio	ratio	0.01								
Standing water level	m AHD	-	Refer to Table 5							
Strontium (dissolved)	mg/L	0.001	0.717	0.718	5.84	2.73	3.55	21.0	12.4	2.87
Sulfate	mg/L	1	570	204	75	42	218	14	<1	61
Temperature ^d	°C	0.1								
Toluene	μg/L	2	<2	<2	15	<2	<2	<2	<2	<2
Total alkalinity	mg/L	1			690	214	600	448	324	411
Total dissolved solids	mg/L	10	4430	4260	5510	2520	3180	2770	1800	1470
Total organic carbon	mg/L	1	5	4						
Total suspended solids	mg/L	5								
Uranium	mg/L	0.001	< 0.001	< 0.001	0.005	< 0.001	0.012	< 0.001	< 0.001	< 0.001
Vanadium	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01
Xylene	μg/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc	mg/L	0.005	0.195	0.656	0.006	0.014	0.012	0.005	0.006	< 0.005

Key:

Shaded grey = not required to be analysed

^dmeasured with calibrated field meter

na - not analysed as no sample collected

^eDissolved Oxygen results from 04/12/2017 - reanalysed due to malfunction of Disolved Oxygen field meter on 15/11/17.

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Groundwater and surface water monitoring results

Table 4: November 2017 water monitoring results for monitoring points 45 – 52

		Monitoring points	45	46	47	48	49	50	51	52
		Location	SP1B ^b	SP2B ^b	SP4B ^b	SP6B ^b	SP7B ^b	SP8B ^b	SP9B ^b	SP10B ^b
		Sampled date	15/11/2017	15/11/2017	15/11/2017	15/11/2017	15/11/2017	15/11/2017	15/11/2017	15/11/2017
		Date AGL	na							
	Units of	obtained data Limit of	110	Tig.	110	110	110	110	710	110
Analyte	measure	reportina								
Aluminium	mg/L	0.01	na							
Ammonia	mg/L	0.01	na							
Arsenic	mg/L	0.001	na							
Barium	mg/L	0.001	na							
Benzene	ηg/L	1	na							
Beryllium	mg/L	0.001	na							
Bicarbonate	mg/L	1								
Boron	mg/L	0.05	na							
Cadmium	mg/L	0.0001	na							
Calcium	mg/L	1	na							
Chloride	mg/L	0.1								
Chromium	mg/L	0.001	na							
Cobalt	mg/L	0.001	na							
Copper	mg/L	0.001	na							
Dissolved oxygen ^a	mg/L	0.01	na							
Electrical conductivity ^a	μS/cm	1	na							
Ethyl benzene	ųg/L	2	na							
Fluoride	mg/L	0.1								
Iron	mg/L	0.05	na							
Lead	mg/L	0.001	na							
Magnesium	mg/L	1	na							
Manganese	mg/L	0.001	na							
Mercury	mg/L	0.0001	na							
Molybdenum	mg/L	0.001	na							
Nickel	mg/L	0.001	na							
Nitrate	mg/L	0.01	na							
Nitrite	mg/L	0.01	na							
Nitrogen (total)	mg/L	0.1								
pH ^a	pН	0.01	na							
Phosphorus (total)	mg/L	0.01	na							
Potassium	mg/L	1	na							
Reactive Phosphorus	mg/L	0.01								10.0
Redox potential ^a	mV	0.1	na							
Selenium Silica	mg/L	0.01	na							
Sodium	mg/L mg/L	1	na na							
Sodium Adsorption Ratio	ratio	0.01	Ha	Ha	Ha	Ha	Ha	Ha	Tia	Ha
Standing water level	m AHD	-	na							
Strontium (dissolved)	mg/L	0.001	na				na			na
Sulfate	mg/L	1	na	na na	na na	na na	na	na na	na na	na
Temperature ^a	°C	0.1	Ha							
Toluene	цg/L	2	na							
Total alkalinity	mg/L	1	i id	na	i id	na				
Total dissolved solids	mg/L	10	na							
Total organic carbon	mg/L	10	i id	na	na	na				
Total suspended solids	mg/L	5								
Uranium	mg/L	0.001	na							
Vanadium	mg/L	0.001	na	na	na	na na	na	na	na	na
Xylene	ug/L	2	na							
Zinc		0.005	na							
ZIIIC	mg/L	0.005	Ha	na						

Shaded grey = not required to be analysed

na - not analysed as no sample collected



^a measured with calibrated field meter

^b No water present at this location at the time of sampling



Table 5: Continuous water level monitoring results for monitoring points 30, 31, 39 - 44 for the period 8 August 2017 – 15 November 2017

Monitoring point	30	31	39	40	41	42	43	44			
Location	TMB04	TMB05	TMB01	TMB02	TMB03	S4MB01	TCMB01	TTMB02			
Data type		Standing water level									
Units		mAHD									
Data date range	8/8/17 – 15/11/17	9/8/17 – 15/11/17	8/8/20)17 – 15/11	/2017	9/8/2017 — 15/11/2017					
Date data downloaded	15/11/17	15/11/17		15/11/2017	,		15/11/2017	,			
Date data supplied to AGL				07/12	/2017						
Monitoring frequency required by EPL 20358		Every 6 hours									
Actual monitoring frequency		Every 6 hours									
No. of times measured during monitoring period	395	392	395	395	395	392	392	392			
Min. value	111.43	110.88	102.08	102.54	103.52	111.76	113.74	113.89			
Mean value	113.69	113.17	102.42	102.66	103.63	113.36	113.81	113.96			
Median value	113.72	113.22	102.48	102.66	103.62	113.36	113.81	113.96			
Max. value	113.77	113.28	102.82	102.81	103.73	113.44	113.88	114.03			



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