

AGL UPSTREAM INVESTMENTS PTY LTD ROSALIND PARK GAS PLANT Air Monitoring Report

Reporting Period: October 2012

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Foreword

PREMISES Rosalind Park Gas Plant

Lot 35 Medhurst Road GILEAD NSW 2560

LICENCE DETAILS Environment Protection Licence 12003

LICENCEE AGL Upstream Investments Pty Limited

LICENCEE'S ADDRESS Locked Bag 1837, North Sydney, NSW 2060

REPORTING PERIOD 01 October to 31 October 2012

REPORT DATE 19 December 2012

REPORT PREPARED BY Aaron Clifton

Environmental Manager

SUMMARY OF ACTIVITY

Rosalind Park Gas Plant, located approximately 60km south west of Sydney, is a natural gas processing and treatment plant, used to process coal seam natural gas from the Camden Gas Project.

Produced natural gas is cleaned, dehydrated, compressed and odourised before being measured and transported by pipeline about 500 metres into the nearby Moomba to Sydney Natural Gas Pipeline. The premises covered by this Environment Protection Licence also includes all gas wells, gas gathering, reticulation systems, trunk lines and associated effluent storage areas and work areas of the Camden Gas Project.

This Monitoring Report relates to those air monitoring activities specified in Part 5, Monitoring and Recording Conditions, of the Environment Protection Licence. The Licence conditions stipulate air monitoring is required to be carried out at the locations, at the frequency and using the test methods as set out in the tables below.

This report sets out the results of continuous monitoring summarized on a monthly basis. A separate report is issued for quarterly monitoring.



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

AIR MONITORING LOCATIONS

Point	Location	Monitoring Frequency
1	Exhaust Stack 1 on Compression Engine 1	Continuous
2	Exhaust Stack 2 on Compression Engine 2	Continuous
3	Exhaust Stack 3 on Compression Engine 3	Continuous

Note: monitoring is only undertaken when the compression engines are running.

AIR MONITORING TEST METHODS

Parameter	NSW EPA Test Method (Sampling Method)	Reference Method	
Oxides of Nitrogen	CEM-2	USEPA Performance Specification 2	
Temperature	TM-2	USEPA Method 2	
Moisture content	TM-22	USEPA Method 4	
Volumetric Flow Rate	CEM-6	USEPA Performance Specification 6	
Oxygen	CEM-3	USEPA Performance Specification 3	

USEPA Method refers to the US Environmental Protection Agency 2000, Code of Federal Regulations, Title 40, Part 60, Appendix A Methods.

USEPA Performance Specification refers to the US Environmental Protection Agency 2000, Code of Federal Regulations, Title 40, Part 60, Appendix B, Performance Specifications.



Air Monitoring Results

Continuous monitoring results are based on test results obtained over a one-hour averaging period as set out in Schedule 5 of the *Protection of the Environment Operations (Clean Air) Regulation* 2010 (NSW).

Monitoring Point	Description	Pollutant	Units of measure	Oxygen correction	Sampling method	Monitoring frequency required by licence	Number of times measured during sampling period	Minimum value	Average value	Maximum value	Concentration limit
1	Compressor						Compressor Engine 1				
	Engine 1	Oxides of Nitrogen	milligrams per cubic metre	7% oxygen	CEM-2	Continuous	operated from 01-15 and 23-31 October.	183	232	308	461
		Temperature	degrees Celsius		TM-2	Continuous	The CEMS of Compressor Engine 1	318	333	379	
		Moisture	percent		TM-22	Continuous	was operating for 45 minutes of every one	See Note 1	See Note 1	See Note 1	
		Volumetric flow rate	cubic metres per second		CEM-6	Continuous	hour period. The remaining 15 minute period was down time	See Note 1	See Note 1	See Note 1	
		Oxygen	percent		CEM-3	Continuous	for cleaning purposes. See Note 1	11.37	12.75	13.20	
2	Compressor Engine 2	Oxides of Nitrogen	milligrams per cubic metre	7% oxygen	CEM-2	Continuous	Compressor Engine 2 operated on 12 October and from 15-	153	247	361	461
		Temperature	degrees Celsius		TM-2	Continuous	31 October. The CEMS of	289	460	513	
		Moisture	percent		TM-22	Continuous	Compressor Engine 2 was operating for 45	See Note 2	See Note 2	See Note 2	
		Volumetric flow rate	cubic metres per second		CEM-6	Continuous	minutes of every one hour period. The remaining 15 minute	See Note 2	See Note 2	See Note 2	
		Oxygen	percent		CEM-3	Continuous	period was down time for cleaning purposes. See Note 2.	0.40	0.54	1.07	
3	Compressor Engine 3	Oxides of Nitrogen	milligrams per cubic metre	7% oxygen	CEM-2	Continuous	Compressor Engine 3 operated from 01-21	57	88	130	461
		Temperature	degrees Celsius		TM-2	Continuous	October. The CEMS of	392	449	521	
		Moisture	percent		TM-22	Continuous	Compressor Engine 3	See Note 3	See Note 3	See Note 3	
		Volumetric flow rate	cubic metres per second		CEM-6	Continuous	was operating for 45 minutes of every one hour period. The	See Note 3	See Note 3	See Note 3	
		Oxygen	percent		CEM-3	Continuous	remaining 15 minute period was down time	0.07	0.61	0.78	

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			for cleaning purposes. See Note 3.		



Air Monitoring Results

EML Air Pty Ltd has been engaged by AGL to undertake independent monitoring each month for Monitoring Points 1, 2 and 3. This is additional monitoring beyond the conditions of EPL 12003. Results for monitoring undertaken by EML Air Pty Ltd (Report N89976) on 11 October 2012 are as follows:

Monitoring Point	Description	Pollutant	Units of measure	Oxygen correction	Sampling method	Monitoring frequency required by licence	Result	Concentration limit
1	Compressor Engine 1	Oxides of Nitrogen	milligrams per cubic metre	7% oxygen	TM-11	Not applicable	350	461
		Temperature	degrees Celsius	7 % Oxygen	TM-2	Not applicable	320	401
		Moisture	percent		TM-22	Not applicable	8.2	
		Volumetric flow rate	cubic metres per second		TM-2	Not applicable	3.1	
		Oxygen	percent		TM-25	Not applicable	13.0	
2	Compressor Engine 2	Oxides of Nitrogen	milligrams per cubic metre	7% oxygen	TM-11	Not applicable		461
		Temperature	degrees Celsius		TM-2	Not applicable	Compressor	
		Moisture	percent		TM-22	Not applicable	Engine 2 was not operating.	
		Volumetric flow rate	cubic metres per second		TM-2	Not applicable		
		Oxygen	percent		TM-25	Not applicable		
3	Compressor Engine 3	Oxides of Nitrogen	milligrams per cubic metre	7% oxygen	TM-11	Not applicable	140	461
		Temperature	degrees Celsius		TM-2	Not applicable	420	
		Moisture	percent		TM-22	Not applicable	6.2	
		Volumetric flow rate	cubic metres per second		TM-2	Not applicable	0.91	
		Oxygen	percent		TM-25	Not applicable	0.8	



Notes:

In accordance with Section 3.4.1 of the EPA Publication Requirements, the
following data points have not been included for Monitoring Point 1
(Compressor #1 exhaust stack) as AGL knows that the data collected is
incorrect. The data is incorrect because the component of the equipment
measuring the relevant parameter has either failed or was not operating. AGL
has taken and is currently taking actions to rectify the issue (e.g. replacement
of failed components of measuring equipment).

	Approximate total	
Date	hours	Pollutant
11.10.2012 to		Oxides of Nitrogen, Temperature and
25.10.2012	4	Oxygen
23.10.2012 to		
25.10.2012	2	Oxides of Nitrogen and Oxygen
01.10.2012 to		
15.10.2012 and	411	Volumetric Flow Rate, Moisture
23.10.2012 to		
26.10.2012		
26.10.2012 to	137	Oxides of Nitrogen, Temperature and
31.10.2012		Oxygen, Volumetric Flow Rate, Moisture

2. In accordance with Section 3.4.1 of the EPA Publication Requirements, the following data points have not been included for Monitoring Point 2 (Compressor #2 exhaust stack) as AGL knows that the data collected is incorrect. The data is incorrect because the component of the equipment measuring the relevant parameter has either failed or was not operating. AGL has taken and is currently taking actions to rectify the issue (e.g. replacement of failed components of measuring equipment).

	Approximate total	
Date	hours	Pollutant
25.10.2012 to		
31.10.2012	7	Oxides of Nitrogen
12.10.2012, and		
15.10.2012 to	386	Volumetric Flow Rate, Moisture
31.10.2012		

3. In accordance with Section 3.4.1 of the EPA Publication Requirements, the following data points have not been included for Monitoring Point 3 (Compressor #3 exhaust stack) as AGL knows that the data collected is incorrect. The data is incorrect because the component of the equipment measuring the relevant parameter has either failed or was not operating. AGL has taken and is currently taking actions to rectify the issue (e.g. replacement of failed components of measuring equipment).

	Approximate total	
Date	hours	Pollutant
01.10.2012 to		
21.10.2012	428	Volumetric Flow Rate, Moisture