AGL UPSTREAM INVESTMENTS PTY LTD CAMDEN GAS PROJECT

Monthly Flare Pit Water Quality Monitoring Report

Reporting Period: June 2020

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Foreword

PREMISES Rosalind Park Gas Plant

Lot 35 Medhurst Road

GILEAD NSW 2560

LICENCE DETAILS <u>Environment Protection Licence 12003</u>

LICENCEE AGL Upstream Investments Pty Limited (AGL)

LICENCEE'S ADDRESS Locked Bag 3013, Australia Square, NSW 1215

MONITORING DATE

June 2020 (03 June 2020)

MONITORING BY AGL

ANALYSIS BY ALS Laboratory, Smithfield (Work order Number: ES2019148)

DATE DATA OBTAINED 11 June 2020

REPORT DATE 12 June 2020

REPORT PREPARED BY David Mudd, Environment Business Partner



1. Introduction

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. The premises are covered by Environment Protection Licence 12003 which 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 water monitoring activities specified in Part 5, Monitoring and Recording Conditions, of the Environment Protection Licence, specifically monitoring point 16 (Rosalind Park Gas Plant Flare Pit) (Table 1). The Licence conditions stipulate water monitoring is required to be carried out at the locations, at the frequency and using the test methods as set out in Table 2.

Table 3 presents the results of this month's water monitoring. This report is prepared in accordance with the Requirements for Publishing Pollution Monitoring Data (EPA, October, 2013) (**Publication Requirements**).

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 phenols and PAHs, which were analysed with an alternate method following written approval from the EPA (EPA, 2014) (refer to Table 2 for analytical methodology).

Table 1 – Flare Pit water quality monitoring point location

EPA monitoring point	Location	Latitude	Longitude
16	RPFP	34°07'17.0"S	150°46'08.1"E

Coordinate reference system: Map Grid of Australia 1994 Zone 56

Table 2 - Analytes monitored, Frequency (as per EPL 12003) and methodology

Analyte	Units of measure	Frequency	Sampling Method	Analytical method
Electrical Conductivity	Microsiemens per centimetre	Monthly	Grab sample	APHA (1998) section 2510 B
Total Suspended Solids	milligrams per litre	Monthly	Grab sample	APHA 2540 D
Total Organic Carbon	milligrams per litre	Monthly	Grab sample	APHA 5310 B
Oil and Grease	milligrams per litre	Monthly	Grab sample	APHA 5520 B
Biochemical Oxygen Demand (BOD)	milligrams per litre	Monthly	Grab sample	APHA 5210 B using APHA 4500- O G for the determination of dissolved oxygen
Total petroleum hydrocarbons	micrograms per litre	Monthly	Grab sample	USEPA (1996h) method 8015B
Phenois	micrograms per litre	Monthly	Grab sample	USEPA (1996a) method 8270 D
Total PAH's	micrograms per litre	Monthly	Grab sample	USEPA (1996a) method 8270 D



Table 3 – Flare Pit water Monitoring Results

		Monitoring Point	16
		Location	RPFP
		Sampled Date	03/06/2020
		Data Obtained	12/06/2020
Analyte	Units	Limit of Reporting	
Electrical Conductivity	μS/cm	1	9290
Total Suspended Solids	mg/L	5	40
Total Organic Carbon	mg/L	1	5
Oil and Grease	mg/L	5	< 5
Biochemical Oxygen Demand (BOD)	mg/L	2	3
Total Petroleum Hydrocarbons			
C6 - C9 Fraction	μg/L	20	< 20
C10 - C14 Fraction	μg/L	50	< 50
C15 - C28 Fraction	μg/L	100	< 100
C29 - C36 Fraction	μg/L	50	< 50
C10 - C36 Fraction (sum)	μg/L	50	< 50
Phenois			
Phenol	μg/L	1	< 1.0
2-Chlorophenol	μg/L	1	< 1.0
2-Methylphenol	μg/L	1	< 1.0
3- & 4-Methylphenol	μg/L	2	< 2.0
2-Nitrophenol	μg/L	1	< 1.0
2.4-Dimethylphenol	μg/L	1	< 1.0
2.4-Dichlorophenol	μg/L	1	< 1.0
2.6-Dichlorophenol	μg/L	1	< 1.0
4-Chloro-3-methylphenol	μg/L	1	< 1.0
2.4.6-Trichlorophenol	μg/L	1	< 1.0
2.4.5-Trichlorophenol	μg/L	1	< 1.0
Pentachlorophenol	μg/L	2	< 2.0



Manifeston Dates	46		
Monitoring Point	16		
Location	RPFP		
Sampled Date	03/06/2020		
Data Obtained	12/06/2020		

Units	Limit of Reporting	
μg/L	1	< 1.0
μg/L	0.5	< 0.5
μg/L	1	< 1.0
μg/L	1	< 1.0
μg/L	1	< 1.0
μg/L	0.5	< 0.5
μg/L	0.5	< 0.5
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References

Environment Protection Authority (EPA), 2014. Letter correspondence to AGL Upstream Investments Pty Ltd., titled: *Environment Protection Licence 12003*, EPA reference: EF13/2522:DOC14/95163-07:CK, dated 28 August 2014, signed: Greg Newman (Acting Manager Illawarra).

Environment Protection Authority (EPA), 2004. Approved Methods for the Sampling and Analysis of Water Pollutants in New South Wales, The Department of Environment and Conservation, Sydney, Australia. Available online: http://www.environment.nsw.gov.au/resources/water/approvedmethods-water.pdf

The State of NSW and Environment Protection Authority (EPA), 2013. Requirements for publishing pollution monitoring data. Environment Protection Authority, Sydney, Australia. Available online:

http://www.epa.nsw.gov.au/resources/licensing/130742regpubpmdata.pdf