Ektimo

Experts in air quality, odour and emission monitoring.



Emission Testing Report

Report: R020924

CPE Central Park Pty Ltd, Chippendale

ilac-MRA NATA

Accredited for compliance with ISO/IEC 17025 - Testing. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, calibration, and inspection reports.

Document Information

Client Name:	CPE Central Park Pty Ltd
Report Number:	R020924
Date of Issue:	20 October 2026
Attention:	Pheroshen Singh
Address:	3 Central Park Ave Chippendale NSW 2234
Testing Laboratory:	Ektimo Pty Ltd, ABN 86 600 381 413

Report Authorisation



Rick Peralta
Air Monitoring Consultant

NATA Accredited Laboratory
No. 14601



Aaron Davis
Ektimo Signatory

This document is confidential and is prepared for the exclusive use of CPE Central Park Pty Ltd and those granted permission by CPE Central Park Pty Ltd. The report shall not be reproduced except in full.

Please note that only numerical results pertaining to measurements conducted directly by Ektimo are covered by Ektimo terms of NATA accreditation as described in the Test Methods table. This does not include calculations that use data supplied by third-parties, comments, conclusions, or recommendations based upon the results. Refer to Test Methods section for full details of testing covered by NATA accreditation.

Table of Contents

1 Executive Summary 3

1.1 Background 3
1.2 Project Objective & Overview 3
1.3 Licence Comparison 3

2 Results 4

2.1 EPA ID No. 2 - Engine 2 4

3 Sample Plane Compliance 5

3.1 EPA ID No. 2 - Engine 2 5

4 Plant Operating Conditions 5

5 Test Methods 6

6 Deviations to Test Methods 6

7 Quality Assurance/Quality Control Information 7

8 Definitions 7

9 Appendices 8

Appendix A: Chain of Custody 8
Appendix B: Laboratory Results 9

1 Executive Summary

1.1 Background

Ektimo was engaged by Clean Peak Energy (CPE) Central Park Pty Ltd to perform emission testing at their Chippendale facility. Testing was carried out in accordance with Environment Protection Licence 20768.

1.2 Project Objective & Overview

The objective of the project was to quantify emissions from one (1) discharge point to determine compliance with CPE Central Park Pty Ltd's environmental licence.

Monitoring was performed as follows:

Location	Test Date	Test Parameters*
EPA ID No. 2 - Engine 2	08 October 2026	Nitrogen oxides (as NO_2) Ammonia (NH_3)

* Flow rate, velocity, temperature, and moisture were also determined.

All volume-based concentrations are reported on a dry basis at STP.

Plant operating conditions have been noted in this report.

1.3 Licence Comparison

The following licence comparison table shows that all analytes are within the licence limit set by the NSW EPA as per licence 20768 (last amended on 18 April 2016).

EPA No.	Location Description	Pollutant	Units	Licence Limit	Detected Values
2	Engine 2	Nitrogen Oxides	mg/m^3 at dry STP	57	**53**
		Ammonia	mg/m^3 at dry STP	4	**<0.1**

Please note that the measurement uncertainty associated with the test results was not considered when determining whether the results were compliant or non-compliant.

2 Results

2.1 EPA ID No. 2 - Engine 2

Date	8/10/2026	**Client**	CPE Central Park Pty Ltd
Report	R020924	**Stack ID**	EPA ID No.2 - Engine 2
Licence No.	20768	**Location**	Chippendale
Ektimo Staff	Rick Peralta	**State**	NSW
Process Conditions	Engine Load: 1120kW, SCR Temp (Deg C): 390.0 ; Exit - 393.0		*260902*

Stack Parameters		
Moisture content, %v/v	12	
Gas molecular weight, g/g mole	28.1 (wet)	29.5 (dry)
Gas density at STP, kg/m³	1.26 (wet)	1.32 (dry)
Gas density at discharge conditions, kg/m³	0.90	
Gas Flow Parameters		
Flow measurement time(s) (hhmm)	1054	
Temperature, °C	111	
Temperature, K	384	
Ambient pressure, kPa	102	
Stack pressure, kPa	102	
Velocity at sampling plane, m/s	15	
Volumetric flow rate, actual, m³/s	2.1	
Volumetric flow rate (wet STP), m³/s	1.5	
Volumetric flow rate (dry STP), m³/s	1.3	
Mass flow rate (wet basis), kg/h	6900	

Gas Analyser Results	Average		Minimum		Maximum	
Sampling time	1145 - 1245		1145 - 1245		1145 - 1245	
	Concentration mg/m³	Mass Rate g/min	Concentration mg/m³	Mass Rate g/min	Concentration mg/m³	Mass Rate g/min
Combustion Gases						
Nitrogen oxides (as NO_2)	53	4.2	42	3.4	63	5.1
	Concentration %v/v		Concentration %v/v		Concentration %v/v	
Carbon dioxide	5.9		5.7		6.2	
Oxygen	11.2		10.9		11.6	

Ammonia	Results	
Sampling time	1145-1245	
	Concentration mg/m³	Mass Rate g/min
Ammonia	<0.1	<0.009

3 Sample Plane Compliance

3.1 EPA ID No. 2 - Engine 2

Sampling Plane Details	
Source tested	Reciprocating engine - gas
Pollution control equipment	No pollution control equipment
Sampling plane dimensions	430 mm
Sampling plane area	0.145 m²
Sampling port size, number & depth	1" BSP (x2), 55 mm
Duct orientation & shape	Vertical Circular
Downstream disturbance	Bend 7 D
Upstream disturbance	Bend 6 D
No. traverses & points sampled	2 8
Sample plane conformance to AS 4323.1	Ideal sampling plane

4 Plant Operating Conditions

The below plant operating conditions have been supplied by CPE Central Park Pty Ltd personnel.

Location Description	Date	Sample Collection Time	Operating Load/Condition
EPA ID No. 2 - Engine 2	08 October 2026	1054 – 1245	1120kW, SCR Temp 390 °C, Exit Temp 393 °C

5 Test Methods

All sampling and analysis were performed by Ektimo unless otherwise specified. Specific details of the methods are available upon request.

Parameter	Sampling method	Analysis method	Uncertainty*	NATA accredited Sampling	NATA accredited Analysis
Sampling points - Selection	NSW EPA TM-1 (AS 4323.1)	NA	NA	✓	NA
Flow rate, temperature & velocity	NSW EPA TM-2 (USEPA Method 2)	NSW EPA TM-2 (USEPA Method 2)	8%, 2%, 7%	NA	✓
Moisture content	NSW EPA TM-22 (USEPA Alt-Method 008)	NSW EPA TM-22 (USEPA Alt-Method 008)	19%	✓	✓
Molecular weight	NA	NSW EPA TM-23 (USEPA Method 3)	not specified	NA	✓
Dry gas density	NA	NSW EPA TM-23 (USEPA Method 3)	not specified	NA	✓
Carbon dioxide	NSW EPA TM-24 (USEPA Method 3A)	NSW EPA TM-24 (USEPA Method 3A)	13%	✓	✓
Nitrogen oxides	NSW EPA TM-11 (USEPA Method 7E)	NSW EPA TM-11 (USEPA Method 7E)	12%	✓	✓
Oxygen	NSW EPA TM-25 (USEPA Method 3A)	NSW EPA TM-25 (USEPA Method 3A)	13%	✓	✓
Ammonia	Ektimo 260	Ektimo 260	not specified	✓	✓†

210826

* Uncertainties cited in this table are estimated using typical values and are calculated at the 95% confidence level (coverage factor = 2).

† Analysis performed by Ektimo. Results were reported on 14 October 2026 in report LV-009647.

6 Deviations to Test Methods

Ektimo notes that Environmental Licence 20768 references the sampling and analysis of ammonia via Special Method 1 i.e. Sampling Method SCAQMD Method 207.1 or USEPA CTM-027.

USEPA CTM-027 is an isokinetic method which was not possible to perform at testing locations EPA ID No. 1 or EPA ID No. 2, due to port size restrictions, out-of-stack obstructions, and positive pressure within the sampling planes at both test locations.

Sampling Method SCAQMD Method 207.1 utilises 0.1N sulfuric acid as a sampling solution and is analysed via ion selective electrode (ISE).

Ektimo utilised NATA accredited in-house method, Ektimo 260. Ektimo 260 is a mini-impinger method, which utilises 0.1N sulfuric acid as a sampling solution and is analysed via an in-house ion selective electrode (ISE) method.

Ektimo considers utilising Ektimo 260 to be a minor deviation.

7 Quality Assurance/Quality Control Information

Ektimo is accredited by the National Association of Testing Authorities (NATA) for the sampling and analysis of air pollutants from industrial sources. Unless otherwise stated test methods used are accredited with the National Association of Testing Authorities. For full details, search for Ektimo at NATA's website www.nata.com.au.

Ektimo is accredited by NATA to ISO/IEC 17025 - Testing. ISO/IEC 17025 - Testing requires that a laboratory have adequate equipment to perform the testing, as well as laboratory personnel with the competence to perform the testing. This quality assurance system is administered and maintained by the Quality Director.

NATA is a member of APAC (Asia Pacific Accreditation Co-operation) and of ILAC (International Laboratory Accreditation Co-operation). Through mutual recognition arrangements with these organisations, NATA accreditation is recognised worldwide.

Unless specifically noted, all samples were collected and handled in accordance with Ektimo's QA/QC standards.

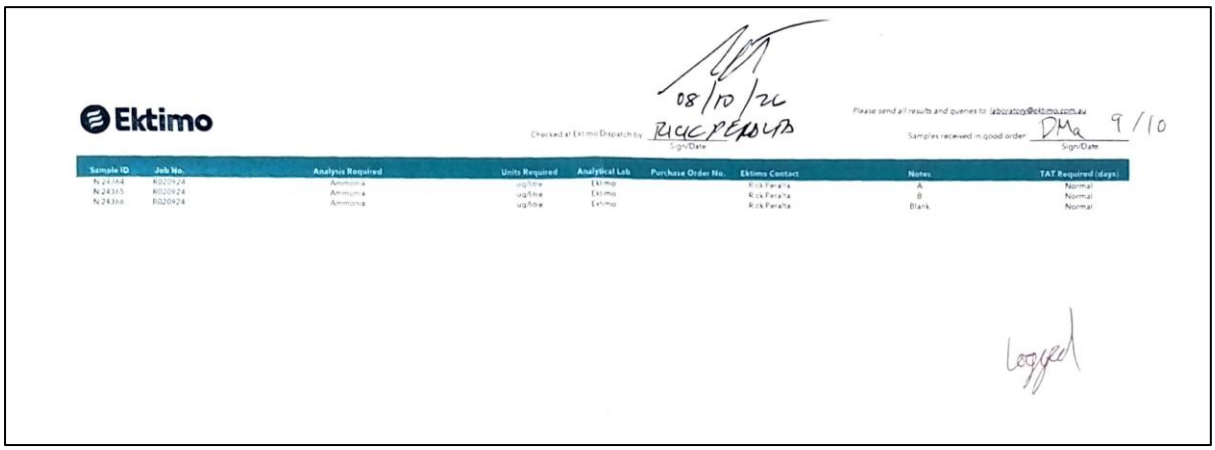
8 Definitions

The following symbols and abbreviations may be used in this test report:

% v/v	Volume to volume ratio, dry basis (except moisture)
~	Approximately
<	Less than
>	Greater than
≥	Greater than or equal to
AS	Australian Standard
CEM/CEMS	Continuous emission monitoring/Continuous emission monitoring system
CTM	Conditional test method
D	Duct diameter or equivalent duct diameter for rectangular ducts
D_{50}	'Cut size' of a cyclone is defined as the particle diameter at which the cyclone achieves a 50% collection efficiency i.e. half of the particles are retained by the cyclone and half pass through it. The D_{50} method simplifies the capture efficiency distribution by assuming that a given cyclone stage captures all of the particles with a diameter equal to or greater than the D_{50} of that cyclone and less than the D_{50} of the preceding cyclone.
DECC	Department of Environment & Climate Change (NSW)
Disturbance	A flow obstruction or instability in the direction of the flow which may impede accurate flow determination. This includes centrifugal fans, axial fans, partially closed or closed dampers, louvres, bends, connections, junctions, direction changes or changes in pipe diameter.
EPA	Environment Protection Authority
FTIR	Fourier transform infra-red
ISC	Intersociety Committee, Methods of Air Sampling and Analysis
ISO	International Organisation for Standardisation
Lower bound	When an analyte is not present above the detection limit, the result is assumed to be equal to zero.
Medium bound	When an analyte is not present above the detection limit, the result is assumed to be equal to half of the detection limit.
NA	Not applicable
NATA	National Association of Testing Authorities
NIOSH	National Institute of Occupational Safety and Health
NT	Not tested or results not required
OM	Other approved method
RATA	Relative accuracy test audit
STP	Standard temperature and pressure. Gas volumes and concentrations are expressed on a dry basis at 0 °C, at discharge oxygen concentration and an absolute pressure of 101.325 kPa.
TM	Test method
USEPA	United States Environmental Protection Agency
VDI	Verein Deutscher Ingenieure (Association of German Engineers)
Velocity difference	The percentage difference between the average of initial flows and after flows.
XRD	X-ray diffractometry
Upper bound	When an analyte is not present above the detection limit, the result is assumed to be equal to the detection limit.
95% confidence interval	Range of values that contains the true result with 95% certainty. This means there is a 5% risk that the true result is outside this range

9 Appendices

Appendix A: Chain of Custody



Ektimo

08/10/26

Checked at Ektimo Dispatch by RICK PERKINS Sign/Date

Please send all results and queries to laboratory@ektimo.com.au

Samples received in good order DMa 9/10 Sign/Date

Sample ID	Job No.	Analysis Required	Units Required	Analytical Lab	Purchase Order No.	Ektimo Contact	Notes	TAT Required (days)
N 24364	R020924	Ammonia	ug/litre	Ektimo		Rick Peralta	A	Normal
N 24365	R020924	Ammonia	ug/litre	Ektimo		Rick Peralta	B	Normal
N 24366	R020924	Ammonia	ug/litre	Ektimo		Rick Peralta	Blank	Normal

Logged

Appendix B: Laboratory Results

1300 364 005
+61 2 4003 3296
info@ektimo.com.au
ektimo.com.au
ABN 86 600 381 413

CERTIFICATE OF ANALYSIS

Testing Laboratory:	Ektimo 26 Redland Drive Mitcham, VIC 3132
Report Number:	LV-009647
Job Number:	R020924
Date of Issue:	14/10/2026
Date samples received:	9/10/2026
Number of samples received:	3
Date samples analysed:	13/10/2026
No of samples analysed:	3
Test method(s) used:	Ektimo 260

Comments

QC Acceptance Criteria:

Parameter	Criteria	Pass/Fail
Standard Curve	$R^2 > 0.99$	Pass
Range	All samples <110% of highest standard	Pass
Repeat samples	Between 80% - 120%	Pass
Method Blanks	All method blanks < PQL	Pass
QC sample	2 standard deviations of theoretical	Pass
Chemical Expiry	All chemicals within expiry date	Pass

This report supersedes any previous report(s) with this reference. Sample(s) have been analysed as received.

Ektimo is accredited by the National Association of Testing Authorities (NATA) for the sampling and analysis of air pollutants from industrial sources. Unless otherwise stated test methods used are accredited with the National Association of Testing Authorities. For full details, search for Ektimo at NATA's website www.nata.com.au.

Ektimo is accredited by NATA (National Association of Testing Authorities) to ISO/IEC 17025 - Testing. ISO/IEC 17025 - Testing requires that a laboratory have adequate equipment to perform the testing, as well as laboratory personnel with the competence to perform the testing. This quality assurance system is administered and maintained by the Quality Director.

NATA is a member of APAC (Asia Pacific Laboratory Accreditation Co-operation) and of ILAC (International Laboratory Accreditation Co-operation). Through the mutual recognition arrangements with both of these organisations, NATA accreditation is recognised world -wide.

A formal Quality Control program is in place at Ektimo to monitor analyses performed in the laboratory and sampling conducted in the field. The program is designed to check where appropriate; the sampling reproducibility, analytical method, accuracy, precision and the performance of the analyst. The Laboratory Manager is responsible for the administration and maintenance of this program.

REPORT AUTHORISATION

Version: 110926

Daniel Balaam
Senior Laboratory Chemist

Matthew Cook
Laboratory Manager

NATA Accredited Laboratory 14601

Accredited for compliance with ISO/IEC 17025. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

Ektimo

Analytical Results

Report No. LV-009647
Job No. R020924
Client Name: CPE Central

Parameter	PQL	Units	N 24364 R020924	N 24365 R020924	N 24366 R020924
Volume	1	mL	25	25	40
Ammonia as N	0.1	mg/L	0.11	<0.1	<0.1

* Results marked with an asterisk are outside the acceptable calibration range of the instrument.

ilac-MRA NATA
NATA Accredited Laboratory 14601

Ektimo

Experts in air quality, odour and emission monitoring.

Melbourne
(Head Office)
26 Redland Dr
Mitcham, VIC 3132

Wollongong
1/10 Doyle Ave
Unanderra
NSW 2526

Brisbane
3/109 Riverside Pl
Morningside
QLD 4170

Perth
52 Cooper Rd
Cockburn Central
WA 6164

1300 364 005

ektimo.com.au