

AMENDED REPORT

This report, 0580019-JJ Ver 01, replaces
Report No: 0580019-JJ, issued on
14 March 2019

LABORATORY TEST REPORT

Client / Applicant:

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Date of Issue:

11 June 2019

Project No:

0580019-JJ Ver 01

Enquiries:

J.J. Louw

Subject: EVALUATION OF OZONE GENERATED BY THE YANEX 2M MACHINE AT NETCARE MONTANA HOSPITAL, PRETORIA. 15 FEBRUARY 2019.

1. TEST(S) REQUIRED

To establish if the concentration of Ozone generated by the Yanex 2M Machine at the **NETCARE MONTANA HOSPITAL, PRETORIA** complies with the statutory requirement.

2. DATE OF TEST(S)

Samples were collected on 15 February 2019 and analysis was conducted on 05 March 2019.

3. SITE LOCATION

The tests were conducted at the following premises:

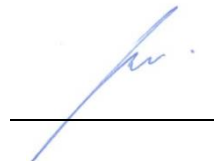
NETCARE MONTANA HOSPITAL

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Montana Park
Pretoria
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4. STATUTORY REQUIREMENT

Exposure to ozone is governed by the Regulations for Hazardous Chemical Substances, OHSAAct (85 of 1993), unless stated otherwise. The Occupational Exposure Limit (OEL) for Ozone is given in Table 2 of the above-mentioned regulations and in Table 1 of this report.

5. INSTRUMENTATION AND METHOD(S)

The following instrumentation and methods were used:

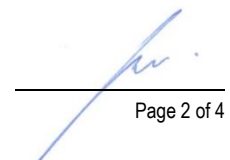
INSTRUMENTATION	○ GILAIR constant flow sampling pump calibrated at 1,5 l/min before sampling and again checked after sampling to ensure that the airflow rate remained constant. ○ Nitrite-impregnated Glass Fiber filter (37 mm diameter). ○ Gilian Gilibrator (S/N: 1006015, 1006034-S), Calibration Certificate No L72591 (14 January 2019).
METHOD(S)	OSHA ID 214.
DEVIATIONS, ADDITIONS TO, OR EXCLUSIONS FROM METHOD(S)	No deviations, additions to, or exclusions from the method.

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6. RESULT(S)

The results are reflected in Table 1 below.

TABLE 1: OZONE GENERATED BY THE YANEX 2M MACHINE AT THE NETCARE MONTANA HOSPITAL, PRETORIA. 15 FEBRUARY 2019.

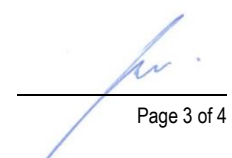
SAMPLE NO	AREA / LOCATION	LABORATORY RESULT (mg)	15 MIN SHORT TERM EXPOSURE LEVEL (mg/m ³)	STATUTORY REQUIREMENT (mg/m ³)	TOTAL SAMPLING TIME (Min)
OCSA G090/19*	50cm from Yanex 2M machine / High Care Room 6A ($\pm$ 33 m ³ volume, windows closed and central ventilation system in normal operation) / Maternity Ward	< 0,0005	BDL	0,6 (RL)	15
OCSA G091/19*		0,0025	0,11		15
OCSA G092/19*		0,0017	0,07		15

LEGEND	
mg/m ³	Milligrams per cubic metre.
RL	Recommended Limit.
*	Analysis conducted by SANAS Test Laboratory T0574.
mg	Milligrams.
BDL	Below detection limit.
Note 1	The Statutory Requirement is a South African standard, which is reflected in the Regulations for Hazardous Chemical Substances (OHSAct, No 85 of 1993), unless stated otherwise.
Note 2	The accuracy of the analytical method OSHA ID 214 is $\pm$ 12,3 %.
Note 3	The detection limit for ozone is 0,0005 mg.

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7. CONCLUSION

From the results of this survey, it may be concluded that the Ozone levels generated by the Yanex 2M Machine at the **NETCARE MONTANA HOSPITAL PRETORIA** complied with the statutory requirement.

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