



Armstrong House
3 Bassett Avenue
Southampton
SO16 7DP

T: 02381 555 000

VECTOR AEROSPACE, GOSPORT
NOISE ASSESSMENT

Technical Report: R10362-1 Rev 0

Date: 25th January 2024

For: ACS Testing
Unit 14 Blackhill Road West
Holton Heath Trading Park
Poole, Dorset
BH16 6LE

24 Acoustics Document Control Sheet

Project Title: Vector Aerospace, Gosport – Noise Assessment

Report Ref: R10362-1 Rev 0

Date: 25th January 2024

	Name	Position	Signature	Date
Prepared by	Aileen Reed BEng MIOA	Principal Consultant		25/1/2024
Reviewed & Approved by	Reuben Peckham BEng MPhil CEng MIOA	Principal Consultant		25/1/2024
For and on behalf of 24 Acoustics Ltd				

Document Status and Approval Schedule

Revision	Description	Prepared By	Reviewed By	Approved By
0	Approved for issue	Aileen Reed	Reuben Peckham	Reuben Peckham

DISCLAIMER

This report was completed by 24 Acoustics Ltd on the basis of a defined programme of work and terms and conditions agreed with the Client. The report has been prepared with all reasonable skill, care and diligence within the terms of the Contract with the Client and taking into account the project objectives, the agreed scope of works, prevailing site conditions and the degree of resources allocated to the project.

24 Acoustics Ltd accepts no responsibility whatsoever, following the issue of the report, for any matters arising outside the agreed scope of the works.

This report is issued in confidence to the Client and 24 Acoustics Ltd has no responsibility of whatsoever nature to third parties to whom this report or any part thereof is made known. Any such party relies upon the report at their own risk.

Unless specifically assigned or transferred within the terms of the agreement, 24 Acoustics Ltd retains all copyright and other intellectual property rights, on and over the report and its contents.

© 24 Acoustics Ltd 2024

CONTENTS	PAGE
1.0 INTRODUCTION	4
2.0 SITE DESCRIPTION AND PROPOSALS	4
3.0 CRITERIA	5
4.0 ASSESSMENT METHODOLOGY	6
5.0 ENVIRONMENTAL NOISE MEASUREMENTS	7
6.0 NOISE ASSESSMENT	10
7.0 CONCLUSIONS	13
REFERENCES	14
FIGURES	15
APPENDIX A: ACOUSTIC TERMINOLOGY	19
APPENDIX B: CALIBRATION CERTICATES	20
APPENDIX C: METEOROLOGICAL DATA	24
APPENDIX D: BACKGROUND NOISE SURVEY RESULTS	49
APPENDIX E: HELICOPTER TESTING DURING SURVEY	50
APPENDIX F: NOISE DATA FOR PROPOSED PLANT	51
APPENDIX G: MITIGATION DETAILS	52

1.0 INTRODUCTION

- 1.1 24 Acoustics Ltd has been instructed by ACS Testing, on behalf of Vector Aerospace International Ltd, to undertake an assessment of noise from elements of their operations at premises at Fleetlands in Gosport.
- 1.2 This report presents the results of the assessment, following site visits, investigations and background noise surveys undertaken during December 2023.
- 1.3 All noise levels in this report are presented in dB relative to 20 μ Pa.

2.0 SITE DESCRIPTION AND PROPOSALS

- 2.1 The company carries out maintenance and repair of aircraft and aircraft parts and the Gosport facility has been in operation for many years. Part of the facility, which undertakes jet engine dismantling and refurbishment, operates under an environmental permit (EPR/NP3930KB). These operations are to be expanded and, as such, this will require a new permit.
- 2.2 The existing permitted operations comprise the following:
- Metal cleaning, rinsing & treatment via a series of reagent tanks with local exhaust ventilation (LEV) – Northern end of Building 110;
 - Treatment of exhaust gases via wet scrubbers and a vent stack – to north of Building 110;
 - Mechanical pre-treatment of metal parts via various abrasive techniques – Northern end of Building 110;
 - Electrolytic stripping of metal coating & subsequent electroplating – Northern end of Building 110;
 - Treatment of liquid wastes in an on-site facility – Building 97;
 - Storage of liquid wastes in a tank farm for off-site haulage to final treatment or disposal – East of Building 97.
- 2.3 These operations occur between the hours of 06.00 and 16.30 Monday to Friday. No permitted operations take place at weekends.
- 2.4 The proposed expanded operations will comprise installation of a pair of cleaning lines into Building 118, ductwork running east of building 118 to a new wet scrubber with fan and stack for treatment of exhaust gases.

- 2.5 The proposed hours of operations of the new facility are 24 hours per day seven days per week. The plant will operate at normal operating duty during the hours 06.00 – 21.45 Monday to Friday and between 07.00 and 16.00 at weekends. Outside of these operating hours, the proposed plant will operate in a set-back 'Eco-Mode'.
- 2.6 The nearest residential properties are located at the northern end of Foxbury Lane, immediately to the south of the boundary of the Vector Aerospace site. Currently permitted operations are a minimum distance of 435 m from the nearest receptor with several intervening buildings which acoustically screen the operations.
- 2.7 The nearest plant associated with the proposed operations lie approximately 225 m from the nearest receptor.
- 2.8 Figure 1 shows the site location and surrounding area. Figure 2 shows the existing permitted areas with the proposed permit area shown in Figure 3. The layout of the new proposed plant is shown in Figure 4.

3.0 CRITERIA

- 3.1 The following represents current relevant guidance in relation to the proposed operations.

Environment Agency Guidance

- 3.2 EA guidance "Noise and vibration management: environmental permits" [Reference 1] provides guidance on how the agency will assess noise, how to manage noise and in particular how to carry out a noise impact assessment in the context of an environmental permit.
- 3.3 The guidance refers to BS 4142 to assess noise from industrial processes. It describes how the level of impact relates to BS 4142 descriptors and this is summarised below.
- *Unacceptable level of audible or detectable noise – this level of noise means that significant pollution is being or is likely to be caused at a receptor and you must take further action to reduce or stop operations. The closest corresponding BS 4142 descriptor is 'significant adverse impact'.*
 - *Audible or detectable noise – this level of noise means that noise pollution is being (or is likely to be) caused at a receptor – your duty is to use appropriate measures to prevent or minimise noise. You are not in breach if you are using appropriate measures. The closest corresponding BS 4142 descriptor is 'adverse impact'.*

- *No noise, or barely audible or detectable noise – this level of noise means that no action is needed beyond basic appropriate measures. The closest corresponding BS 4142 descriptor is 'low impact or no impact' following consideration of context. The agency may decide that taking action to minimise noise is a low priority.*

3.4 Reference 2 comprises EA guidance to the use of BS4142:2014+A1:2019 [Reference 3] in relation to permit applications.

BS 4142:2014+A1:2019 - Methods for Rating Industrial and Commercial Sound

3.5 BS 4142:2014+A1:2019 [Reference 3] provides a method for rating the effects of industrial and commercial sound on residential areas.

3.6 The standard advocates a comparison between the representative measured L_{A90} background noise level and L_{Aeq} noise level from the source being considered. For rating purposes if the noise source is tonal, intermittent or otherwise distinctive in character, a rating correction should be applied.

3.7 The standard states that a difference between the rating level and the background level of around +10 dBA is an indication of a significant adverse impact, depending on the context and a difference of around +5 dBA is likely to be an indication of an adverse impact, also depending on the context. Where the rating level does not exceed the background noise level, this is an indication of the specific sound source having a low impact (depending upon the context).

4.0 ASSESSMENT METHODOLOGY

4.1 The following assessment methodology has been used:

- i. A background noise survey has been undertaken to determine existing levels of background noise at locations representative of the nearest residential properties to the site;
- ii. An acoustic model of the proposed operations has been developed. This has predicted the operational noise level at the nearest residential property;
- iii. An assessment of the likely noise impact associated with the proposals has been undertaken, in accordance with BS 4142:2014+A1:2019.

5.0 ENVIRONMENTAL NOISE MEASUREMENTS

Background Noise Survey Methodology

5.1 A background noise survey was undertaken between 13th and 22nd December 2023. Measurements were undertaken at a location representative of the nearest residential receptor as described below:

- Location 1: To the south of the site west of the site, approximately 8m north of Receptor 1 (55 Foxbury Lane), at a height of 3m above local ground level in free-field conditions.

5.2 The measurement location is shown in Figure 1.

5.3 The instrumentation was setup to monitor background noise levels and store data in 15-minute intervals of the overall A-weighted L_{eq} , L_{max} and L_{90} using fast time weighting. The following instrumentation was used:

- 1 x Rion NL52 Type 1 sound level meter;
- B&K 4231 acoustic calibrator.

5.4 Calibration of the equipment was checked before and on completion of the measurements and no drift was recorded. Noise measurements were made in accordance with BS 7445: 1991 'Description and measurement of environmental noise Part 2 – Acquisition of data pertinent to land use' [Reference 3]. A calibration certificate for the meter can be seen at Appendix B.

5.5 Weather conditions during the measurements was variable with some periods of precipitation and / or wind speeds above 5m/s. Measurements affected by periods of rainfall and higher windspeeds have been omitted from the representative background noise levels. Meteorological data, which was collected adjacent to the noise monitoring location, is shown in Appendix C. The location of the meteorological kit is shown in Figure 1.

Background Noise Survey Results

5.6 The measured background noise levels are summarised in Table 1 and shown graphically in Appendix D. Testing of Chinook helicopters occasionally takes place on the site and a schedule of testing during the survey period is provided at Appendix E. Analysis has confirmed that this had no significant impact upon the measured background noise levels.

- 5.7 Due to the distance between the measurement location and the existing permitted plant (minimum 435 m) and the considerable acoustic screening provided by intervening buildings, it is confirmed that the measured noise levels were not influenced by the existing permitted plant.

Background Noise Survey, Location 1, 55 Foxbury Lane				
Date, Dec 23	06.00 – 07.00 L_{A90}, 15 min	07.00 – 16.30 L_{A90}, 1 hr	16.30 – 23.00 L_{A90}, 1 hr	23.00 – 06.00 L_{A90}, 15 min
Wed 6 th	-	44	45	38
Thu 7 th	-	46	45	34
Fri 8 th	41	46	46	38
Sat 9 th	-	47	47	36
Sun 10 th	35	42	47	37
Mon 11 th	41	47	44	39
Tue 12 th	-	47	46	34
Wed 13 th	40	47	45	34
Thu 14 th	40	45	46	35
Fri 15 th	41	43	46	33
Sat 16 th	-	44	45	32
Sun 17 th	34	41	44	31
Mon 18 th	40	47	44	36
Tue 19 th	-	-	46	34
Wed 20 th	41	46	45	36
Thu 21 st	40	48	46	37
Fri 22 nd	42	46	-	-

Table 1 - Location 1 - Measured Background Noise Levels

Source-term Noise Data

- 5.8 Source-term noise measurements of significant sources of noise associated with the existing permitted operations were undertaken at the site on 6th December 2023. Measurements were undertaken with the following equipment:

- Rion NL52 Type 1 sound level meter;
- Bruel & Kjaer 4231 calibrator.

- 5.9 Calibration of the equipment was checked before and on completion of the measurements and no drift was recorded. A calibration certificate for the meter can be seen at Appendix B.
- 5.10 Measurements were carried out following the guidance of BS EN ISO 3746: 2010 [Reference 4]. The measurement conditions and manufacturer's details for the crusher and screening plant are described below:

Area	Description
North of B110	Scrubbers / fans for cleaning lines within B110
East of B110	LEV for B110 machine room
North of B97	Compressed Air release valve

Table 2 - Existing Plant Description and Measurement Details

- 5.11 The three sets of scrubbers and fans to the north of Building B110 were all operating continuously under normal conditions producing steady noise levels. The LEV for the Building B110 machine shop was also steady in nature and operated continuously during the site visit. The compressed air release valve emitted a jet of compressed air approximately every 15 seconds.
- 5.12 The average temperature during the measurements was 5° Celsius with an atmospheric pressure of 102 kPh.
- 5.13 Calculations have been undertaken in accordance with BS EN ISO 3746 to determine the sound power level of each item. Calculated overall A-weighted sound power levels are shown below with single octave band calculation results shown in Appendix E:
- Scrubbers / fans for B110: 103 dB L_w ;
 - LEV for B110: 97 dB L_w ;
 - Compressed Air Relief Valve for B97: 99 dB L_w .
- 5.14 Manufacturer's data for the exhaust fan is provided in Appendix F along with the data provided or assumed for the fan motor, scrubber and circulating pump.

6.0 NOISE ASSESSMENT

Proposed Operations

- 6.1 The proposed operations will include a pair of new cleaning lines to be installed inside the eastern part of Building 118. Exhaust gases from the cleaning lines will be ducted out of the eastern façade of the building. The 960 mm diameter ductwork will run along the eastern side of the building at an elevation of 3.95 m to a wet scrubber with an associated exhaust fan and exhaust stack which will vent at a height of 15.3 m.
- 6.2 The plant will operate at normal operating duty during the hours 06.00 – 21.45 Monday to Friday and between 07.00 and 16.00 at weekends. Outside of these operating hours, the proposed plant will operate in a set-back Eco-Mode.
- 6.3 The proposed arrangement of these new plant items can be seen in Figure 4.

Acoustic Model

- 6.4 The source-term noise data and proposed operations described above have been used to populate an acoustic model of the site. IMMI 23 noise mapping software has been used following the methodology of ISO 9613 [Reference 5] to determine the noise levels from each relevant source at the receptor location, taking into account the effects of geometric divergence, screening and ground/atmospheric absorption. The model factors an ambient air temperature of 10 Celsius with 70% relative humidity and a $G=0.2$ for ground absorption.
- 6.5 Acoustic screening of existing and proposed noise sources provided by existing buildings has been taken into account.
- 6.6 The model takes into account the different operating periods over the daytime and night time periods. For the daytime period (07.00 – 23.00), the receptor height is assumed to be 1.5 m with a receptor height used for the night-time period (23.00 – 07.00).
- 6.7 Following preliminary noise modelling, noise mitigation measures were specified for a silencer between the proposed exhaust fan and the stack. Part of the ductwork between the proposed scrubber and Building 118 will be lagged with a minimum thickness of 50 mm Rock Wool (100 kg/m^3). Details of these are provided in Appendix G and Figure 4.
- 6.8 The results of the acoustic modelling are presented in Table 4 below with existing and proposed noise sources operational and with new plant operational in set-back Eco-mode.

Operating Mode	Cumulative Plant Noise Level, dB	
	Day	Night
All Plant Normal Operation	33	34
Set-back Eco-mode	12	13

Table 3 - Noise Modelling Results – Receptor Location Cumulative Plant Noise Levels

Assessment

- 6.9 Table 5 below shows the BS 4142 assessment for the selected receiver location considered. The plant is not considered to contain any tonal or otherwise distinctive noise characteristics at the receptor property, therefore, character corrections are not applicable.

Period	Specific Source Noise Level dB LAeq, T	Rating Level	Background Noise Level dB LA90, T	BS 4142 Assessment Level
55 Foxbury Lane – Weekdays				
Early morning (06.00 – 07.00)	34	34	37	-3
Daytime (07.00 – 21.45)	33	33	46	-13
Evening (21.45 – 23.00)	12	12	46	-34
Night-time (23:00 – 06:00)	13	13	35	-22
55 Foxbury Lane – Weekends				
Daytime (07.00 – 16.00)	33	33	46	-13
Evening (16.00 – 23.00)	12	12	46	-34
Night-time (23:00 – 07:00)	13	13	34	-21

Table 5: Assessment, All Plant

- 6.10 The rating values in Table 5 are lower than the prevailing background noise level and therefore this is less than a 'low' impact when assessed in accordance with the standard.

Context

- 6.11 Under BS 4142, consideration must be given to the context of the site and proposals.
- 6.12 In this instance, noise arising from the proposals will be similar in character to surrounding industrial/commercial premises.
- 6.13 Additionally, the predominantly daytime normal operation reduces the risk of noise disturbance.

Uncertainty

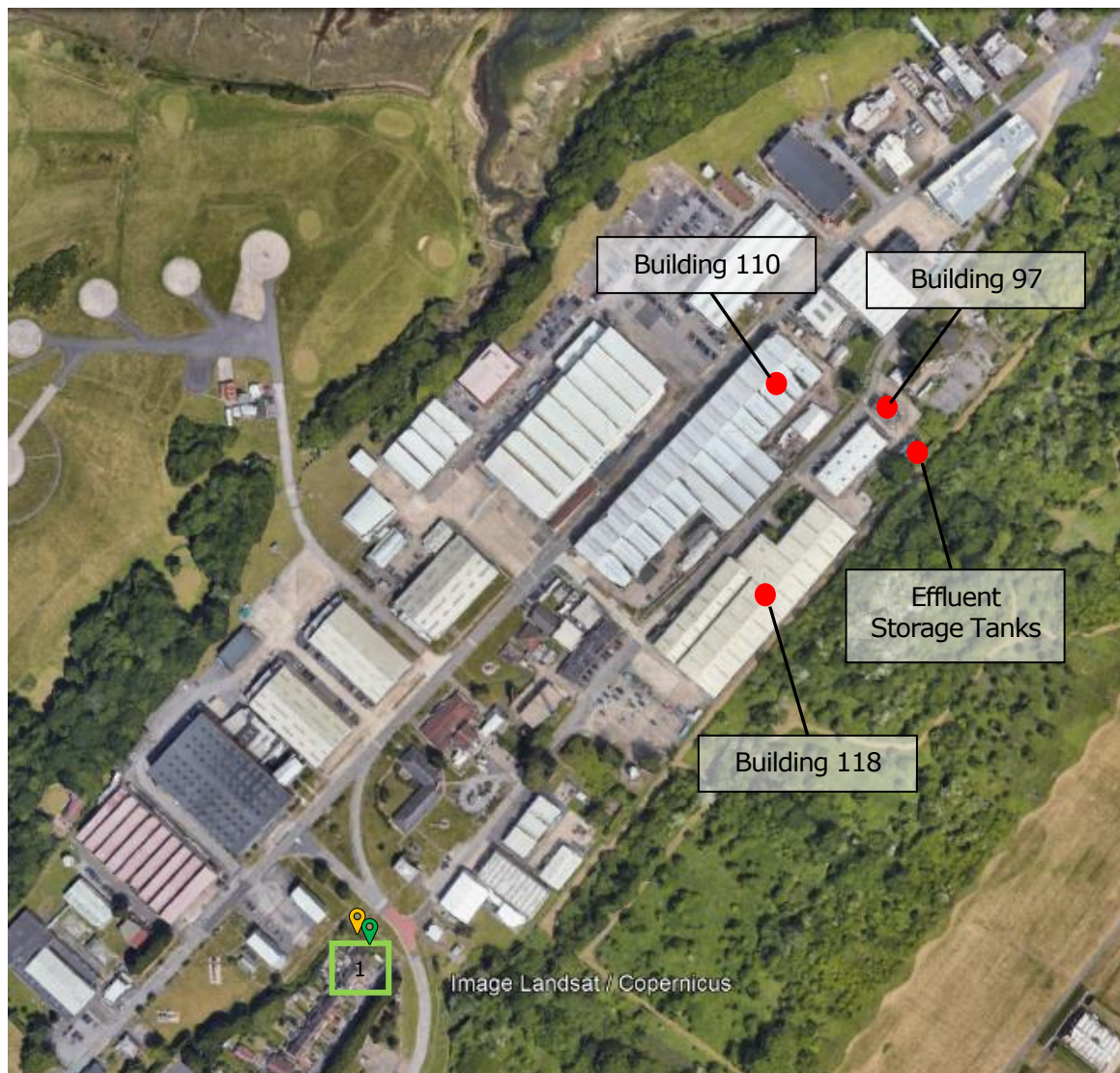
- 6.14 All reasonable measures have been undertaken to ensure minimal uncertainty in the measurement procedures and assessment. This includes:
- Representative background noise levels determined during periods of suitable weather conditions;
 - Measurement equipment fully calibrated to national standards and traceable with on-site calibration checks undertaken before and after the measurement exercises;
 - Real-world measurement data utilised of the existing plant and manufacturer's data for proposed plant;
 - Calculations undertaken using proprietary software including the calculation methodology of ISO 9613.
- 6.15 Based on the above, uncertainty associated with the assessment has been reduced to a minimum.

7.0 CONCLUSIONS

- 7.1 24 Acoustics Ltd has been instructed by ACS Testing, on behalf of Vector Aerospace International Ltd, to undertake an assessment of noise from elements of their operations at premises at Fleetlands in Gosport.
- 7.2 An assessment of proposed plant which requires a new environmental permit has been assessed. The assessment has been carried out following background noise measurements undertaken at representative locations of the closest residential property to the site and, following the production of an acoustic model of the proposed operations. Noise mitigation measures have been incorporated into the design to ensure acceptable noise levels at nearby receptors.
- 7.3 The assessment demonstrates that with the agreed noise mitigation measures, noise from new and existing plant at the nearest affected noise sensitive receptor will result in less than a 'low' impact in accordance with BS 4142:2014+A1:2019.

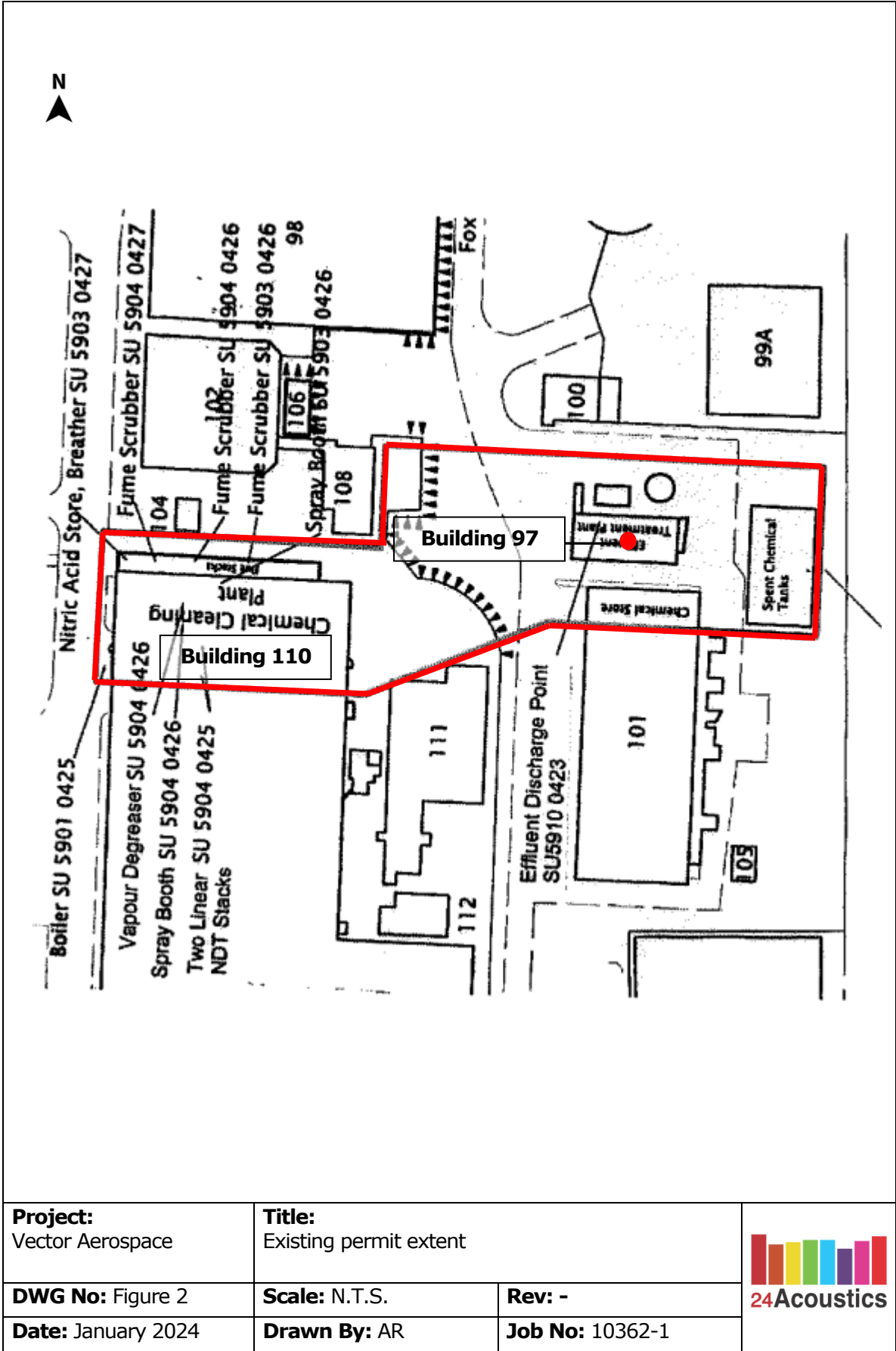
REFERENCES

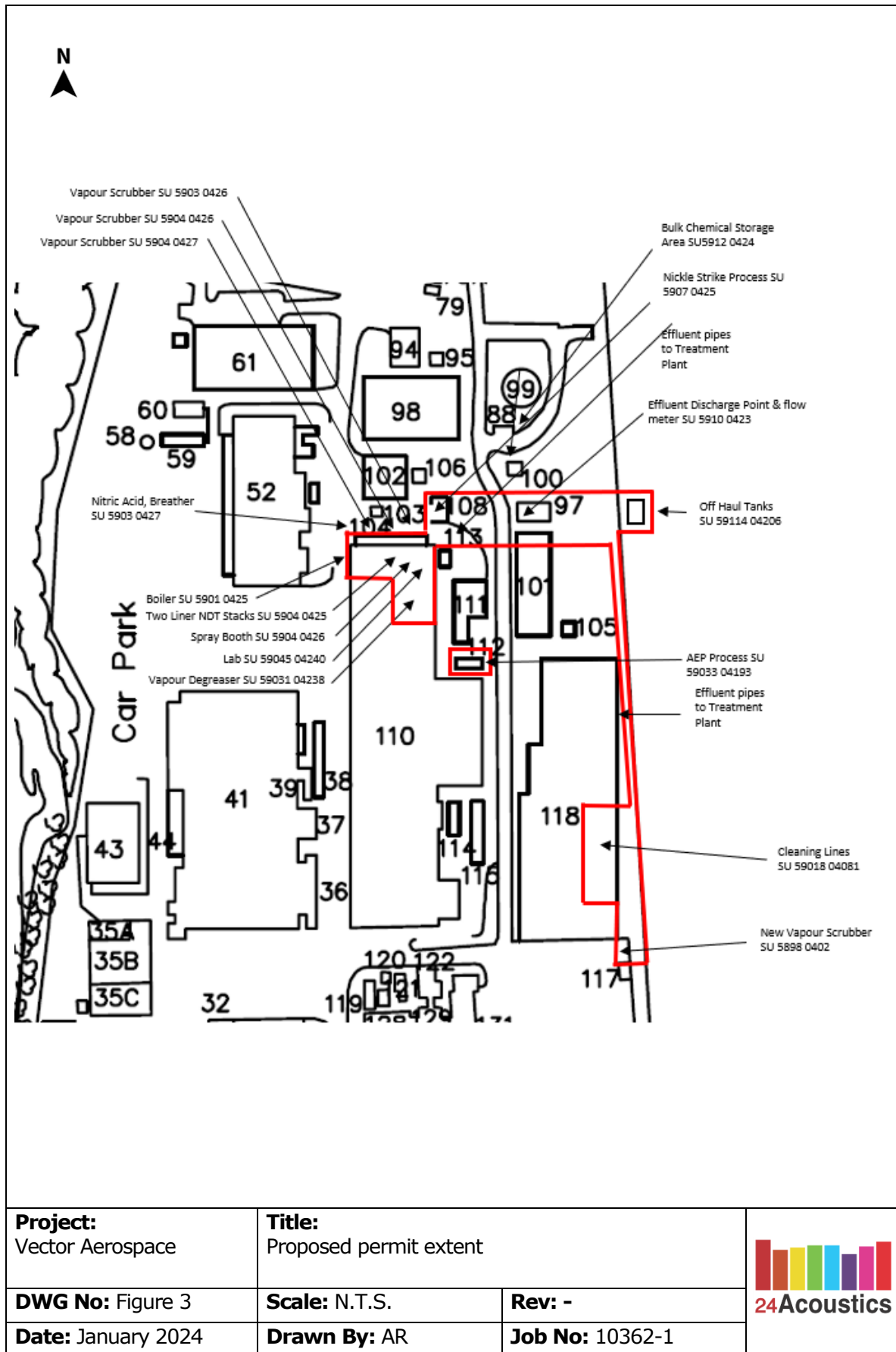
1. Environment Agency Guidance "Noise and Vibration Management: Environmental Permits", updated Jan 2022.
2. Environment Agency Guidance "Method implementation document (MID) for BS 4142", updated Dec 2023.
3. British Standards Institution. British Standard 4142:2014+A1:2019. Methods for Rating and Assessing Industrial and Commercial Sound, 2014.
4. British Standards Institution. BS 7445: 'Description and measurement of environmental noise Part 2 - Acquisition of data pertinent to land use' 1991.
5. British Standards Institution. BS 3746: 2010 Acoustics. Determination of sound power levels and sound energy levels of noise sources using sound pressure. Survey method using an enveloping measurement surface over a reflecting plane.
6. International Standards Organisation. ISO 9613. Acoustics - Propagation of Environmental Noise, 1997.

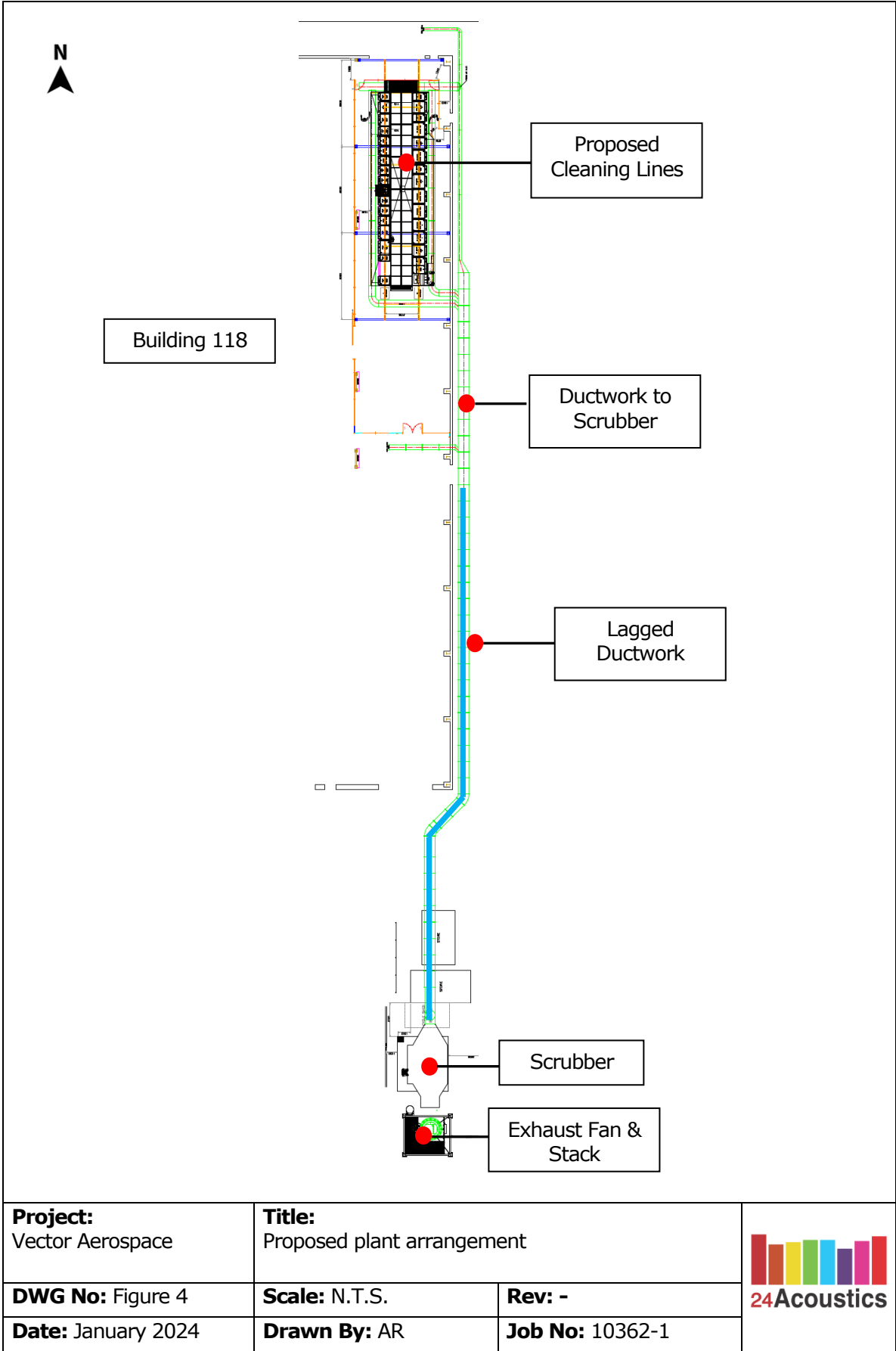


-  Noise Measurement Location 1
-  Meteorological Station
-  Receptor Location 1 (55 Foxbury Lane)

Project: Vector Aerospace	Title: Site, Receptor and Measurement Location		 24Acoustics
DWG No: Figure 1	Scale: N.T.S.	Rev: -	
Date: January 2024	Drawn By: AR	Job No: 10362-1	







APPENDIX A – ACOUSTIC TERMINOLOGY

Noise is defined as unwanted sound. The range of audible sound is from 0 to 140 dB. The frequency response of the ear is usually taken to be around 18 Hz (number of oscillations per second) to 18000 Hz. The ear does not respond equally to different frequencies at the same level. It is more sensitive in the mid-frequency range than the lower and higher frequencies and because of this, the low and high frequency components of a sound are reduced in importance by applying a weighting (filtering) circuit to the noise measuring instrument. The weighting which is most widely used and which correlates best with subjective response to noise is the dBA weighting. This is an internationally accepted standard for noise measurements.

For variable sources, such as traffic, a difference of 3 dB is just distinguishable. In addition, a doubling of traffic flow will increase the overall noise by 3 dB. The 'loudness' of a noise is a purely subjective parameter, but it is generally accepted that an increase/ decrease of 10 dB corresponds to a doubling/ halving in perceived loudness.

External noise levels are rarely steady, but rise and fall according to activities within an area. In attempt to produce a figure that relates this variable noise level to subjective response, a number of noise indices have been developed. These include:

i) The L_{Amax} noise level

This is the maximum noise level recorded over the measurement period.

ii) The L_{Aeq} noise level

This is "equivalent continuous A-weighted sound pressure level, in decibels" and is defined in British Standard BS 7445 as the "value of the A-weighted sound pressure level of a continuous, steady sound that, within a specified time interval, T, has the same mean square sound pressure as a sound under consideration whose level varies with time".

It is a unit commonly used to describe construction noise and noise from industrial premises and is the most suitable unit for the description of other forms of environmental noise. In more straightforward terms, it is a measure of energy within the varying noise.

iii) The L_{A10} noise level

This is the noise level that is exceeded for 10% of the measurement period and gives an indication of the noisier levels. It is a unit that has been used over many years for the measurement and assessment of road traffic noise.

iv) The L_{A90} noise level

This is the noise level that is exceeded for 90% of the measurement period and gives an indication of the noise level during the quieter periods. It is often referred to as the background noise level and is used in the assessment of disturbance from industrial noise.

APPENDIX B – CALIBRATION CERTIFICATES**Calibration Certificate**

Calibration undertaken by Noise and Vibration Calibration Services Ltd
The Old Kennels Building, 3 Bassett Avenue, Southampton, SO16 7DP
+44 (0)23 8155 5020 hello@nvcal.co.uk

**IEC 61672-3:2006 Calibration**

Procedures from IEC 61672-3:2006 were used to perform the periodic tests on **18th August 2022** for the following sound level meter:

Rion NL-52, serial number 00620851

The following tests were undertaken:

Acoustical signal tests of a frequency weighting	PASS
Electrical signal tests of frequency weightings	PASS
Frequency and time weightings at 1 kHz	PASS
Long-term stability	PASS
Level linearity on the reference level range	PASS
Level linearity including the level range control	PASS
Toneburst response	PASS
Peak C sound level	PASS
Overload indication	PASS

Calibration result

Sound level meter: Rion NL-52, serial 00620851
Performance Specification: IEC 61672-3:2006 Class 1
Date: 18th August 2022
Certificate Number: C00397

PASS

Approved Signatory:

Notes

No information on the uncertainty of measurement, required by 11.7 of IEC 61672-3:2006, of the adjustment data given in the instruction manual or obtained from the manufacturer or supplier of the sound level meter, or the manufacturer of the microphone, or the manufacturer of the multi-frequency sound calibrator was published in the instruction manual or made available by the manufacturer or supplier. The uncertainty of measurement of the adjustment data has therefore been assumed to be numerically zero for the purpose of this periodic test. If these uncertainties are not actually zero, there is a possibility that the frequency response of the sound level meter may not conform to the requirements of IEC 61672-1:2002.

This certificate provides traceability of measurement to the SI system of units and to units of measurements realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Certificate Number: C00397

Page 1 of 2

Device Details

Item	Manufacturer	Model	Serial
Sound level meter	Rion	NL-52	00620851
Microphone	Rion	UC-59	03687
Pre-amplifier	Rion	NH-25	20911

Test Notes

Calibration check frequency:	1 kHz
Reference sound pressure level:	94 dBA
Indicated level before adjustment:	94.0 dBA
Indicated level after adjustment:	94.0 dBA
Sensitivity after adjustment:	n/a
Static pressure:	101.0 - 101.0 kPa
Air temperature:	22.7 - 23.2 °C
Relative Humidity:	62.4 - 63.5 %
Configuration of SLM:	No microphone extension cable used
Power source:	Internal batteries
Instruction manual:	Instruction Manual for NL-42/NL-52 (provided by manufacturer)
Source of correction data:	Instruction Manual
SLM software version:	1.8
Calibration engineer:	MH

Self-generated noise

	Self-generated noise level (dB) for frequency weighting		
	A	C	Z
Electrical input device	8.9	11.7	16.0
Expanded uncertainty	0.2	0.2	0.2

This test laboratory does not undertake self-generated noise measurements with the microphone capsule installed

Test Equipment

Item	Manufacturer	Model	Serial	Date Calibrated
Signal Generator	Audio Precision	SYS-2722	SYS2-31891	19-Jan-22
Signal Generator	TTi	TG1010	055468	24-Jan-22
Acoustic Calibrator	Brüel & Kjær	4226	2288484	14-Jan-22

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full requirements of IEC 61672-1:2002 because evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002 and because the periodic tests of IEC 61672-3:2006 cover only a limited subset of the specifications in IEC 61672-1:2002.

Calibration Certificate

Calibration undertaken by Noise and Vibration Calibration Services Ltd
The Old Kennels Building, 3 Bassett Avenue, Southampton, SO16 7DP
+44 (0)23 8155 5020 hello@nvcal.co.uk



IEC 61672-3:2006 Calibration

Procedures from IEC 61672-3:2006 were used to perform the periodic tests on **18th November 2022** for the following sound level meter:

Rion NL-52, serial number 00620968

The following tests were undertaken:

Acoustical signal tests of a frequency weighting	PASS
Electrical signal tests of frequency weightings	PASS
Frequency and time weightings at 1 kHz	PASS
Long-term stability	PASS
Level linearity on the reference level range	PASS
Level linearity including the level range control	PASS
Toneburst response	PASS
Peak C sound level	PASS
Overload indication	PASS

Calibration result

Sound level meter: Rion NL-52, serial 00620968
Performance Specification: IEC 61672-3:2006 Class 1
Date: 18th November 2022
Certificate Number: C00406

PASS

Approved Signatory:

Notes

No information on the uncertainty of measurement, required by 11.7 of IEC 61672-3:2006, of the adjustment data given in the instruction manual or obtained from the manufacturer or supplier of the sound level meter, or the manufacturer of the microphone, or the manufacturer of the multi-frequency sound calibrator was published in the instruction manual or made available by the manufacturer or supplier. The uncertainty of measurement of the adjustment data has therefore been assumed to be numerically zero for the purpose of this periodic test. If these uncertainties are not actually zero, there is a possibility that the frequency response of the sound level meter may not conform to the requirements of IEC 61672-1:2002.

This certificate provides traceability of measurement to the SI system of units and to units of measurements realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Certificate Number: C00406

Page 1 of 2

Device Details

Item	Manufacturer	Model	Serial
Sound level meter	Rion	NL-52	00620968
Microphone	Rion	UC-59	03889
Pre-amplifier	Rion	NH-25	21009

Test Notes

Calibration check frequency:	1 kHz
Reference sound pressure level:	94 dBA
Indicated level before adjustment:	94.0 dBA
Indicated level after adjustment:	94.0 dBA
Sensitivity after adjustment:	n/a
Static pressure:	99.8 – 99.8 kPa
Air temperature:	22.2 – 22.2 °C
Relative Humidity:	53 - 53 %
Configuration of SLM:	No microphone extension cable used
Power source:	Internal batteries
Instruction manual:	Instruction Manual for NL-42/NL-52 (provided by manufacturer)
Source of correction data:	Instruction Manual
SLM software version:	1.8
Calibration engineer:	MH

Self-generated noise

	Self-generated noise level (dB) for frequency weighting		
	A	C	Z
Electrical input device	10.0	12.4	16.5
Expanded uncertainty	0.1	0.3	0.3

This test laboratory does not undertake self-generated noise measurements with the microphone capsule installed

Test Equipment

Item	Manufacturer	Model	Serial	Date Calibrated
Signal Generator	Audio Precision	SYS-2722	SYS2-31891	19-Jan-22
Signal Generator	TTi	TG1010	055468	24-Jan-22
Acoustic Calibrator	Brüel & Kjær	4226	2288484	14-Jan-22

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full requirements of IEC 61672-1:2002 because evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002 and because the periodic tests of IEC 61672-3:2006 cover only a limited subset of the specifications in IEC 61672-1:2002.

APPENDIX C – METEOROLOGICAL DATA

Start Time	Temp °C	Windspeed m/s	Wind Dir	Pressure, Bar	Rain, mm
06/12/2023 15:00	6.2	0.4	ENE	1017.1	0
06/12/2023 15:15	6.5	0.9	ENE	1016.8	0
06/12/2023 15:30	6.5	0.9	ENE	1016.6	0
06/12/2023 15:45	6.3	0.4	ENE	1016.6	0
06/12/2023 16:00	6.1	0.4	ENE	1016.5	0
06/12/2023 16:15	6.1	0.4	E	1016.1	0
06/12/2023 16:30	6.1	0.4	E	1016.2	0
06/12/2023 16:45	6.2	0.4	E	1016.3	0
06/12/2023 17:00	6.2	0.9	ENE	1016.2	0
06/12/2023 17:15	6.2	0.9	ENE	1016.2	0
06/12/2023 17:30	6.1	0.9	ENE	1016.1	0
06/12/2023 17:45	6.1	0.9	ENE	1016.1	0
06/12/2023 18:00	6.1	0.9	E	1016.3	0
06/12/2023 18:15	6.2	0.4	ENE	1016.3	0
06/12/2023 18:30	6.3	0.9	ENE	1016.3	0
06/12/2023 18:45	6.2	0.4	ENE	1016.2	0
06/12/2023 19:00	6.1	0	NNE	1016.7	0
06/12/2023 19:15	5.6	0	---	1016.5	0
06/12/2023 19:30	5.5	0	WSW	1016.8	0
06/12/2023 19:45	6	0	WSW	1016.8	0
06/12/2023 20:00	6.5	0	W	1016.8	0
06/12/2023 20:15	6.9	0	NNW	1016.6	0
06/12/2023 20:30	7.3	0	NNW	1016.2	0
06/12/2023 20:45	7.7	0	NE	1016.1	0
06/12/2023 21:00	7.9	0	W	1015.9	0
06/12/2023 21:15	8.1	0	W	1015.6	0
06/12/2023 21:30	8.2	0.4	N	1015.7	0
06/12/2023 21:45	8.2	0	NW	1015.9	0
06/12/2023 22:00	8.2	0	WSW	1015.6	0
06/12/2023 22:15	8.3	0	W	1015.5	0
06/12/2023 22:30	8.3	0	WNW	1015.2	0
06/12/2023 22:45	8.3	0	E	1014.9	0
06/12/2023 23:00	8.3	0.4	ENE	1014.9	0
06/12/2023 23:15	8.4	0.4	E	1014.5	0
06/12/2023 23:30	8.4	0.4	ENE	1014.6	0
06/12/2023 23:45	8.4	0.4	W	1014.6	0
07/12/2023 00:00	8.4	0.4	W	1014.6	0
07/12/2023 00:15	8.5	0.4	WNW	1014.6	0
07/12/2023 00:30	8.5	0.4	NNW	1014.5	0
07/12/2023 00:45	8.3	0.4	WSW	1014.6	0
07/12/2023 01:00	7.9	0.4	WSW	1014.3	0.2
07/12/2023 01:15	7.9	0.4	W	1014.1	0
07/12/2023 01:30	7.8	0	WSW	1013.8	0
07/12/2023 01:45	7.9	0.4	W	1013.7	0
07/12/2023 02:00	7.9	0.4	W	1013.5	0
07/12/2023 02:15	7.9	0.4	ENE	1013.2	0
07/12/2023 02:30	7.9	0.4	ENE	1012.7	0
07/12/2023 02:45	7.9	0.4	E	1012.6	0
07/12/2023 03:00	7.9	0.4	ENE	1013.1	0
07/12/2023 03:15	7.9	0	W	1013	0.2
07/12/2023 03:30	7.8	0.4	WSW	1012.8	0
07/12/2023 03:45	7.8	0.4	W	1012.6	0
07/12/2023 04:00	7.9	0	NNW	1012.7	0
07/12/2023 04:15	7.9	0.4	NW	1012.4	0.2
07/12/2023 04:30	7.9	0	NE	1012.3	0
07/12/2023 04:45	7.9	0.4	W	1012.1	0
07/12/2023 05:00	7.9	0.4	W	1011.7	0
07/12/2023 05:15	7.9	0.4	ENE	1011.3	0
07/12/2023 05:30	8	0.4	E	1011.2	0
07/12/2023 05:45	8.1	0.4	W	1011.1	0
07/12/2023 06:00	8.1	0.4	W	1011.1	0.2
07/12/2023 06:15	8	0.4	NNW	1011	0
07/12/2023 06:30	7.9	0.4	WSW	1011	0.2
07/12/2023 06:45	7.8	0.4	NE	1010.8	0

07/12/2023 07:00	7.7	0.4	WSW	1010.7	0
07/12/2023 07:15	7.7	0.4	W	1010.5	0.2
07/12/2023 07:30	7.7	0.4	W	1010.4	0
07/12/2023 07:45	7.8	0.4	W	1010.4	0
07/12/2023 08:00	7.8	0.4	W	1010.2	0.2
07/12/2023 08:15	7.8	0.4	ENE	1009.8	0
07/12/2023 08:30	8	0.9	E	1009.7	0
07/12/2023 08:45	8.5	1.3	E	1009.6	0
07/12/2023 09:00	8.6	0.9	E	1009.5	0
07/12/2023 09:15	8.7	0.4	E	1009.4	0
07/12/2023 09:30	8.7	0.9	ENE	1009.4	0
07/12/2023 09:45	8.8	0.9	ENE	1009.1	0
07/12/2023 10:00	8.8	0.4	ENE	1008.7	0
07/12/2023 10:15	8.9	0.4	WSW	1008.5	0
07/12/2023 10:30	8.8	0.4	WSW	1008	0
07/12/2023 10:45	8.8	0.9	W	1007.9	0
07/12/2023 11:00	8.8	0.9	WSW	1007.9	0
07/12/2023 11:15	8.6	0.9	W	1007.4	0
07/12/2023 11:30	8.5	0.9	NW	1007.3	0
07/12/2023 11:45	8.8	0.9	WSW	1007.3	0
07/12/2023 12:00	8.7	0.4	WSW	1007.1	0
07/12/2023 12:15	8.6	0.9	WSW	1006.8	0
07/12/2023 12:30	8.3	0.9	W	1006.5	0
07/12/2023 12:45	8	0.4	W	1006	0.2
07/12/2023 13:00	7.9	0.4	WSW	1005.9	0.2
07/12/2023 13:15	7.7	0.4	W	1005.6	0.2
07/12/2023 13:30	7.4	0.4	W	1005.2	0.2
07/12/2023 13:45	7.3	0.4	WSW	1004.7	0.2
07/12/2023 14:00	7.3	0.9	W	1004.1	0.4
07/12/2023 14:15	7.4	0.9	ENE	1004	0.4
07/12/2023 14:30	7.4	0.4	ESE	1003.8	0.2
07/12/2023 14:45	7.4	0.9	ENE	1003.5	0.2
07/12/2023 15:00	7.5	0.4	W	1003.4	0.8
07/12/2023 15:15	7.6	0.4	NE	1002.7	0.6
07/12/2023 15:30	7.7	0.4	E	1002.3	0.6
07/12/2023 15:45	7.9	0.4	ENE	1001.6	0.8
07/12/2023 16:00	8	0.4	E	1001.4	0.4
07/12/2023 16:15	8.1	0.4	W	1001.3	0.8
07/12/2023 16:30	8.2	0.4	ENE	1000.9	0.4
07/12/2023 16:45	8.3	0.9	ENE	1000.9	0.2
07/12/2023 17:00	8.4	0.4	W	1000.8	0
07/12/2023 17:15	8.4	0.4	WSW	1000.8	1
07/12/2023 17:30	8.5	0.4	W	1000.7	1.2
07/12/2023 17:45	8.5	0.4	W	1000.5	1.4
07/12/2023 18:00	8.5	0.4	W	1000.3	0.4
07/12/2023 18:15	8.5	0.4	NW	1000.3	0.4
07/12/2023 18:30	8.6	0	W	1000.3	0.6
07/12/2023 18:45	8.7	0	NW	1000	0.6
07/12/2023 19:00	8.9	0.4	W	999.9	0
07/12/2023 19:15	9	0.4	W	999.8	0.2
07/12/2023 19:30	9.1	0	W	999.7	0
07/12/2023 19:45	9.2	0	W	999.8	0
07/12/2023 20:00	9.3	0	W	999.1	0
07/12/2023 20:15	9.5	0	WNW	999	0
07/12/2023 20:30	9.7	0	ESE	999.1	0
07/12/2023 20:45	9.9	0	WSW	999	0
07/12/2023 21:00	10.3	0	W	999.1	0
07/12/2023 21:15	10.3	0.4	WSW	999.1	0
07/12/2023 21:30	10.2	0	WSW	999.5	0
07/12/2023 21:45	10	0.4	WSW	999.4	0
07/12/2023 22:00	9.9	0.4	WSW	999.6	0
07/12/2023 22:15	9.8	0	W	999.5	0
07/12/2023 22:30	9.7	0	W	999.8	0
07/12/2023 22:45	9.3	0	---	999.9	0
07/12/2023 23:00	8.8	0	---	1000.1	0
07/12/2023 23:15	8.4	0	---	1000.3	0
07/12/2023 23:30	7.9	0	---	1000.7	0
07/12/2023 23:45	7.6	0	---	1001	0

08/12/2023 00:00	7.6	0	---	1001	0
08/12/2023 00:15	7.8	0	---	1001.2	0
08/12/2023 00:30	8.2	0	WSW	1001.5	0
08/12/2023 00:45	8.1	0	---	1001.5	0
08/12/2023 01:00	7.5	0	---	1001.7	0
08/12/2023 01:15	7.4	0	---	1001.9	0
08/12/2023 01:30	8.1	0	W	1001.9	0
08/12/2023 01:45	8.4	0	WSW	1002.1	0
08/12/2023 02:00	8.4	0	W	1002.3	0
08/12/2023 02:15	8	0	---	1002.4	0
08/12/2023 02:30	7.4	0	---	1002.6	0
08/12/2023 02:45	7.1	0	---	1002.6	0
08/12/2023 03:00	6.7	0	---	1002.8	0
08/12/2023 03:15	6.5	0	W	1002.9	0
08/12/2023 03:30	6.8	0	---	1003	0
08/12/2023 03:45	6.6	0	---	1003.1	0
08/12/2023 04:00	6.1	0	---	1003.1	0
08/12/2023 04:15	6.1	0	---	1003.2	0
08/12/2023 04:30	7.1	0	WNW	1003.2	0
08/12/2023 04:45	7.7	0	WSW	1003.3	0
08/12/2023 05:00	7.7	0	WSW	1003.3	0
08/12/2023 05:15	7.4	0	WSW	1003.3	0
08/12/2023 05:30	7	0	---	1003.6	0
08/12/2023 05:45	6.1	0	---	1003.7	0
08/12/2023 06:00	5.5	0	---	1003.7	0
08/12/2023 06:15	5.5	0	---	1003.8	0
08/12/2023 06:30	5.7	0	---	1004	0
08/12/2023 06:45	5.3	0	---	1004.2	0
08/12/2023 07:00	5.4	0	---	1004.3	0
08/12/2023 07:15	5.6	0	---	1004.4	0
08/12/2023 07:30	5.1	0	---	1004.5	0
08/12/2023 07:45	4.9	0	---	1004.7	0
08/12/2023 08:00	4.7	0	SW	1004.7	0
08/12/2023 08:15	4.4	0	---	1004.9	0
08/12/2023 08:30	4.1	0	---	1005	0
08/12/2023 08:45	4.3	0	NW	1005.2	0
08/12/2023 09:00	4.1	0	---	1005.2	0
08/12/2023 09:15	4.2	0	---	1005.4	0.2
08/12/2023 09:30	4.5	0	---	1005.5	0
08/12/2023 09:45	5.9	0	WSW	1005.7	0
08/12/2023 10:00	7.3	0	W	1005.6	0
08/12/2023 10:15	8.1	0	W	1005.7	0
08/12/2023 10:30	8.7	0	W	1005.8	0
08/12/2023 10:45	9.1	0	W	1005.7	0
08/12/2023 11:00	9.3	0	WSW	1005.8	0
08/12/2023 11:15	9.6	0.4	WSW	1005.7	0
08/12/2023 11:30	9.9	0.9	WSW	1005.8	0
08/12/2023 11:45	10.2	0.4	WSW	1005.8	0
08/12/2023 12:00	10.2	0.4	W	1005.9	0
08/12/2023 12:15	10.6	0.4	W	1005.7	0
08/12/2023 12:30	10.8	0.4	W	1005.8	0
08/12/2023 12:45	11	0.4	W	1005.9	0
08/12/2023 13:00	11.2	0.4	WSW	1005.8	0
08/12/2023 13:15	11.4	0.9	WSW	1005.8	0
08/12/2023 13:30	11.5	0.9	WSW	1005.9	0
08/12/2023 13:45	11.3	0.9	W	1005.8	0
08/12/2023 14:00	11.1	1.3	WSW	1006	0
08/12/2023 14:15	11.3	0.9	W	1006	0
08/12/2023 14:30	11.3	0.9	W	1006	0
08/12/2023 14:45	11.4	0.9	W	1006	0

08/12/2023 15:00	11.4	1.3	WSW	1006.2	0
08/12/2023 15:15	11.2	0.9	W	1006.2	0
08/12/2023 15:30	11.1	0.9	WSW	1006.3	0
08/12/2023 15:45	11.1	0.4	W	1006.3	0
08/12/2023 16:00	10.9	0.4	W	1006.3	0
08/12/2023 16:15	10.8	0.4	W	1006.3	0
08/12/2023 16:30	10.7	0.4	W	1006.4	0
08/12/2023 16:45	10.5	0.4	W	1006.4	0
08/12/2023 17:00	10.4	0	W	1006.4	0
08/12/2023 17:15	10.2	0	W	1006.5	0
08/12/2023 17:30	9.9	0.4	W	1006.6	0
08/12/2023 17:45	9.7	0.4	W	1006.5	0
08/12/2023 18:00	9.9	0.4	WSW	1006.7	0
08/12/2023 18:15	10.2	0.4	W	1006.6	0
08/12/2023 18:30	10.2	0.4	W	1006.7	0
08/12/2023 18:45	10.2	0.4	W	1006.6	0
08/12/2023 19:00	10.2	0.4	W	1006.6	0
08/12/2023 19:15	10.1	0.4	WSW	1006.6	0
08/12/2023 19:30	10.1	0.4	W	1006.6	0
08/12/2023 19:45	9.8	0.4	W	1006.7	0
08/12/2023 20:00	9.8	0.9	W	1006.7	0
08/12/2023 20:15	9.6	0.4	W	1006.9	0
08/12/2023 20:30	9.5	0.4	W	1006.9	0
08/12/2023 20:45	9.4	0.4	W	1006.9	0
08/12/2023 21:00	9.6	0.4	W	1006.8	0
08/12/2023 21:15	9.7	0.4	W	1006.5	0
08/12/2023 21:30	9.8	0.4	W	1006.6	0
08/12/2023 21:45	9.7	0.9	WSW	1006.9	0
08/12/2023 22:00	9.2	0	W	1006.7	0
08/12/2023 22:15	9	0	W	1006.9	0
08/12/2023 22:30	8.8	0	WSW	1006.8	0
08/12/2023 22:45	8.6	0	WSW	1006.9	0
08/12/2023 23:00	8.6	0	WSW	1006.8	0
08/12/2023 23:15	9	0	W	1006.8	0.8
08/12/2023 23:30	9.1	0	W	1006.4	0.2
08/12/2023 23:45	8.8	0	ESE	1006.4	0
09/12/2023 00:00	8.6	0	ESE	1006.5	0
09/12/2023 00:15	8.4	0	W	1006.5	0
09/12/2023 00:30	8	0	---	1006.4	0
09/12/2023 00:45	7.9	0	WNW	1006.5	0
09/12/2023 01:00	7.7	0	---	1006.1	0
09/12/2023 01:15	7.6	0	---	1005.9	0
09/12/2023 01:30	7.4	0	---	1005.7	0
09/12/2023 01:45	7.4	0	---	1005.6	0
09/12/2023 02:00	7.5	0	---	1005.4	0
09/12/2023 02:15	7.6	0	---	1005.2	0
09/12/2023 02:30	8.2	0	WSW	1004.8	0
09/12/2023 02:45	8.9	0	W	1004.6	0
09/12/2023 03:00	9.3	0	W	1004.5	0.2
09/12/2023 03:15	9.3	0	W	1004.1	0.2
09/12/2023 03:30	9.3	0	W	1003.8	0
09/12/2023 03:45	9.3	0	W	1003.2	0
09/12/2023 04:00	9.4	0	W	1002.8	0
09/12/2023 04:15	9.6	0	W	1002.4	0.2
09/12/2023 04:30	9.7	0	W	1002.1	0.2
09/12/2023 04:45	9.7	0	W	1001.5	0
09/12/2023 05:00	9.9	0	W	1001.1	0.4
09/12/2023 05:15	9.9	0.4	W	1000.6	0.6
09/12/2023 05:30	9.8	0.4	W	1000.3	0.6
09/12/2023 05:45	9.8	0.4	W	999.7	0.8
09/12/2023 06:00	9.8	0.4	W	999.4	0.6
09/12/2023 06:15	9.9	0.4	WSW	998.9	0.6
09/12/2023 06:30	10	0.4	NNW	998.1	0.8
09/12/2023 06:45	10.1	0.4	W	997.5	0.8

09/12/2023 07:00	10.1	0.4	W	996.9	0.4
09/12/2023 07:15	10.2	0.9	W	996.4	0.6
09/12/2023 07:30	10.2	0.4	WSW	995.8	0.4
09/12/2023 07:45	10.3	0.4	W	995.5	0.6
09/12/2023 08:00	10.3	0.4	W	995	0.4
09/12/2023 08:15	10.4	0.4	W	994.5	0
09/12/2023 08:30	10.4	0.9	W	993.8	0.2
09/12/2023 08:45	10.5	0.4	W	993.5	0.2
09/12/2023 09:00	10.6	0.4	WSW	993.1	0.8
09/12/2023 09:15	10.7	0.4	W	992.6	0.2
09/12/2023 09:30	10.8	0.4	WSW	992.3	0.8
09/12/2023 09:45	11	0	W	991.9	0.4
09/12/2023 10:00	11.3	0	W	991.3	0
09/12/2023 10:15	11.8	0	W	991.6	0.2
09/12/2023 10:30	12.3	1.8	W	991.5	0
09/12/2023 10:45	12.3	1.8	W	991.7	0
09/12/2023 11:00	12.3	1.8	WSW	991.5	0
09/12/2023 11:15	12.4	1.8	WSW	991.7	0
09/12/2023 11:30	12.2	1.8	WSW	991.8	0
09/12/2023 11:45	12.3	1.8	WSW	991.9	0
09/12/2023 12:00	12.2	2.2	W	991.8	0
09/12/2023 12:15	12.2	1.8	WSW	991.8	0
09/12/2023 12:30	12.3	1.8	W	991.8	0
09/12/2023 12:45	12.2	1.8	WSW	991.6	0
09/12/2023 13:00	12.2	1.3	W	991.5	0
09/12/2023 13:15	12.4	1.3	W	991.4	0
09/12/2023 13:30	12.6	1.8	WSW	991.5	0
09/12/2023 13:45	12.9	1.3	W	991.6	0
09/12/2023 14:00	13.4	2.2	W	991.9	0
09/12/2023 14:15	13.2	3.1	W	992.5	0
09/12/2023 14:30	12.9	3.1	W	993	0
09/12/2023 14:45	12.6	2.7	W	993.2	0
09/12/2023 15:00	12.4	2.7	W	993.7	0
09/12/2023 15:15	12.4	2.7	W	994	0
09/12/2023 15:30	12.2	3.1	W	994.2	0
09/12/2023 15:45	12.2	3.1	W	994.4	0
09/12/2023 16:00	12.1	2.7	W	994.6	0
09/12/2023 16:15	12.1	3.1	W	994.9	0
09/12/2023 16:30	12.1	3.6	W	995.2	0
09/12/2023 16:45	12	3.6	W	995.7	0
09/12/2023 17:00	11.8	3.1	W	996.1	0
09/12/2023 17:15	11.6	3.1	W	996.4	0
09/12/2023 17:30	11.4	3.1	W	996.8	0
09/12/2023 17:45	11.3	3.1	W	997.2	0
09/12/2023 18:00	11.2	2.7	W	997.4	0
09/12/2023 18:15	11.2	3.1	WSW	997.8	0
09/12/2023 18:30	11.2	2.7	W	998.3	0
09/12/2023 18:45	11.1	2.2	W	998.5	0
09/12/2023 19:00	10.9	2.7	W	998.9	0
09/12/2023 19:15	10.8	2.2	W	999	0
09/12/2023 19:30	10.6	1.8	WSW	999	0
09/12/2023 19:45	10.6	1.8	W	999.2	0
09/12/2023 20:00	10.5	2.2	WSW	999.7	0
09/12/2023 20:15	10.3	1.8	WSW	1000.2	0
09/12/2023 20:30	10.1	1.8	W	1000.3	0
09/12/2023 20:45	10.1	2.2	WSW	1000.7	0
09/12/2023 21:00	10.1	2.7	W	1000.7	0
09/12/2023 21:15	10.2	3.1	W	1001.3	0
09/12/2023 21:30	10.3	3.1	W	1002.1	0
09/12/2023 21:45	10.2	2.2	W	1002.3	0
09/12/2023 22:00	10.2	2.2	W	1002.4	0
09/12/2023 22:15	10.2	1.8	W	1002.7	0
09/12/2023 22:30	10.3	2.2	W	1002.9	0
09/12/2023 22:45	10.6	2.7	W	1003	0

09/12/2023 23:00	10.6	3.1	WSW	1003.3	0
09/12/2023 23:15	10.4	2.2	W	1003.3	0
09/12/2023 23:30	10.7	3.6	WSW	1003.5	0
09/12/2023 23:45	10.4	2.7	W	1004	0
10/12/2023 00:00	10.3	2.7	WSW	1004.3	0
10/12/2023 00:15	10	1.3	W	1004.7	0
10/12/2023 00:30	9.9	1.3	WSW	1005.2	0
10/12/2023 00:45	9.9	1.3	WSW	1005.4	0
10/12/2023 01:00	9.9	1.8	W	1005.5	0
10/12/2023 01:15	10	1.8	W	1005.8	0
10/12/2023 01:30	10	1.8	W	1006.2	0
10/12/2023 01:45	9.9	1.8	WSW	1006.3	0
10/12/2023 02:00	9.9	2.2	WSW	1006.5	0
10/12/2023 02:15	9.8	1.8	WSW	1006.8	0
10/12/2023 02:30	9.8	1.8	W	1006.8	0
10/12/2023 02:45	9.9	1.8	W	1007.1	0
10/12/2023 03:00	9.9	1.8	WSW	1007.3	0
10/12/2023 03:15	9.8	1.8	W	1007.7	0
10/12/2023 03:30	9.9	1.8	WSW	1007.7	0
10/12/2023 03:45	10.1	2.2	WSW	1008	0
10/12/2023 04:00	10.2	2.2	WSW	1007.9	0
10/12/2023 04:15	10	1.3	WSW	1007.8	0
10/12/2023 04:30	9.8	1.3	W	1007.8	0
10/12/2023 04:45	9.9	1.3	W	1008.1	0
10/12/2023 05:00	10.2	1.3	WSW	1008.4	0
10/12/2023 05:15	10.4	1.3	WSW	1008.3	0
10/12/2023 05:30	10.4	1.3	W	1008.2	0
10/12/2023 05:45	10.3	1.3	W	1008.3	0
10/12/2023 06:00	10.2	0.9	W	1008.2	0
10/12/2023 06:15	10.1	0.9	WSW	1008.2	0
10/12/2023 06:30	10.1	0.4	W	1008	0
10/12/2023 06:45	10.1	0.4	W	1008.2	0
10/12/2023 07:00	10	0.4	W	1008.1	0
10/12/2023 07:15	9.9	0	W	1008.2	0
10/12/2023 07:30	9.8	0	W	1007.8	0
10/12/2023 07:45	9.6	0	W	1007.7	0
10/12/2023 08:00	9.4	0	W	1007.5	0
10/12/2023 08:15	9.3	0	ENE	1007.4	0
10/12/2023 08:30	9	0	ENE	1007	0
10/12/2023 08:45	8.9	0	ENE	1007	0
10/12/2023 09:00	9.2	0	WSW	1006.8	0
10/12/2023 09:15	9.7	0	W	1006.5	0
10/12/2023 09:30	10	0	W	1006.1	0
10/12/2023 09:45	10.5	0	W	1005.8	0
10/12/2023 10:00	10.9	0	W	1005.6	0
10/12/2023 10:15	11.2	0.4	W	1005.3	0
10/12/2023 10:30	11.4	0.4	W	1005	0
10/12/2023 10:45	11.4	0.4	W	1004.9	0
10/12/2023 11:00	11.4	0	W	1004.4	0
10/12/2023 11:15	11.4	0.4	W	1004.3	0
10/12/2023 11:30	11.3	0.4	W	1004	0
10/12/2023 11:45	10.9	0.4	W	1003.5	0.6
10/12/2023 12:00	10.7	0	W	1002.6	0.6
10/12/2023 12:15	10.5	0.4	W	1002.4	0.6
10/12/2023 12:30	10.3	0	W	1001.5	0.2
10/12/2023 12:45	10.2	0.4	E	1000.9	0.2
10/12/2023 13:00	10.2	0	W	1000.5	1.2
10/12/2023 13:15	10.4	0	W	999.8	0.4
10/12/2023 13:30	11.3	0.4	W	999.2	0.2
10/12/2023 13:45	11.7	0.9	W	998.7	0.2

10/12/2023 14:00	12	0.9	W	998.4	0
10/12/2023 14:15	12.3	0.9	W	998.1	0
10/12/2023 14:30	12.7	0.9	WSW	997.7	0.2
10/12/2023 14:45	12.8	1.8	W	998.1	0
10/12/2023 15:00	12.6	2.7	WSW	998.2	0
10/12/2023 15:15	12.4	1.8	W	998.2	0
10/12/2023 15:30	12.3	1.8	W	998.3	0
10/12/2023 15:45	12.1	1.3	WSW	998.3	0
10/12/2023 16:00	11.9	1.3	WSW	998.5	0
10/12/2023 16:15	11.9	1.3	WSW	998.7	0
10/12/2023 16:30	11.7	1.3	WSW	999.1	0
10/12/2023 16:45	11.4	0.9	W	999.4	0
10/12/2023 17:00	11.1	0.4	W	999.7	0
10/12/2023 17:15	10.6	0.4	W	999.7	0
10/12/2023 17:30	10.4	0.4	W	999.9	0
10/12/2023 17:45	10.4	0.4	WSW	999.8	0
10/12/2023 18:00	10.3	0.9	W	999.9	0
10/12/2023 18:15	10.4	1.3	WSW	1000	0
10/12/2023 18:30	10.4	1.3	WSW	1000.2	0
10/12/2023 18:45	10.5	1.3	W	1000.2	0
10/12/2023 19:00	10.6	1.3	W	1000.3	0
10/12/2023 19:15	10.7	1.3	W	1000.5	0
10/12/2023 19:30	10.9	1.3	WSW	1000.3	0
10/12/2023 19:45	11.1	1.3	WSW	1000.2	0
10/12/2023 20:00	11.1	1.8	WSW	1000.4	0
10/12/2023 20:15	11.1	1.8	WSW	1000.5	0
10/12/2023 20:30	11	1.3	W	1000.5	0
10/12/2023 20:45	10.9	1.3	W	1000.2	0
10/12/2023 21:00	10.9	0.9	W	1000	0
10/12/2023 21:15	11.2	1.3	WSW	1000.3	0
10/12/2023 21:30	11.3	2.2	WSW	1000.2	0
10/12/2023 21:45	11.2	2.2	WSW	1000.3	0
10/12/2023 22:00	11.1	1.8	WSW	1000.2	0
10/12/2023 22:15	11	1.3	W	1000	0
10/12/2023 22:30	11.1	2.2	WSW	999.7	0
10/12/2023 22:45	11.1	1.8	WSW	999.7	0
10/12/2023 23:00	11.2	2.2	W	999.8	0
10/12/2023 23:15	11.3	1.8	W	999.9	0
10/12/2023 23:30	11.2	2.2	WSW	999.7	0
10/12/2023 23:45	11.4	2.2	W	999.4	0
11/12/2023 00:00	11.4	2.7	WSW	999.7	0
11/12/2023 00:15	11.6	3.1	W	999.8	0
11/12/2023 00:30	11.6	3.1	WSW	999.6	0
11/12/2023 00:45	11.4	3.1	WSW	999.6	0
11/12/2023 01:00	11.4	2.7	W	999.5	0
11/12/2023 01:15	11.3	2.2	WSW	999.6	0
11/12/2023 01:30	11.6	2.7	WSW	999.8	0
11/12/2023 01:45	11.8	2.2	W	1000.1	0
11/12/2023 02:00	11.9	3.1	WSW	1000.3	0
11/12/2023 02:15	11.8	2.2	WSW	1000.3	0
11/12/2023 02:30	11.7	1.8	W	1000.4	0
11/12/2023 02:45	11.8	2.7	WSW	1000.4	0
11/12/2023 03:00	11.8	2.7	W	1000.4	0
11/12/2023 03:15	11.8	3.1	WSW	1000.3	0
11/12/2023 03:30	11.7	2.2	WSW	1000.4	0
11/12/2023 03:45	11.4	1.8	W	1000.8	0
11/12/2023 04:00	11.4	1.8	WSW	1001.1	0
11/12/2023 04:15	11.3	1.8	W	1001.1	0
11/12/2023 04:30	11.2	1.8	W	1001.2	0
11/12/2023 04:45	11.2	2.2	W	1001.2	0

11/12/2023 05:00	11.2	2.2	W	1001.3	0
11/12/2023 05:15	11.2	2.2	W	1001.3	0
11/12/2023 05:30	11.1	1.8	W	1001.6	0
11/12/2023 05:45	11	1.3	W	1001.8	0
11/12/2023 06:00	10.8	1.3	WSW	1002	0
11/12/2023 06:15	10.7	1.8	W	1002.3	0
11/12/2023 06:30	10.7	1.8	W	1002.5	0
11/12/2023 06:45	10.8	1.3	W	1002.8	0
11/12/2023 07:00	10.7	1.8	W	1003	0
11/12/2023 07:15	10.4	1.8	WSW	1003	0
11/12/2023 07:30	10	1.8	W	1003.1	0
11/12/2023 07:45	9.9	1.3	WSW	1003.3	0
11/12/2023 08:00	9.7	1.3	W	1003.4	0
11/12/2023 08:15	9.4	1.3	W	1003.7	0
11/12/2023 08:30	9.4	1.3	W	1003.8	0
11/12/2023 08:45	9.5	1.3	W	1004.1	0
11/12/2023 09:00	9.8	1.3	W	1004.3	0
11/12/2023 09:15	9.9	1.3	W	1004.5	0
11/12/2023 09:30	10	1.3	W	1004.8	0
11/12/2023 09:45	10	1.3	WSW	1005.2	0
11/12/2023 10:00	10.1	1.3	W	1005.2	0
11/12/2023 10:15	10.2	1.8	W	1005.5	0
11/12/2023 10:30	10.3	1.8	W	1005.5	0
11/12/2023 10:45	10.3	0.9	WSW	1005.9	0
11/12/2023 11:00	10.5	0.9	W	1006	0
11/12/2023 11:15	10.6	1.3	WSW	1006.1	0
11/12/2023 11:30	10.6	1.3	W	1006.2	0
11/12/2023 11:45	10.8	1.3	W	1006.3	0
11/12/2023 12:00	11.3	1.3	W	1006.4	0
11/12/2023 12:15	11.6	1.8	W	1006.4	0
11/12/2023 12:30	11.8	1.3	W	1006.3	0
11/12/2023 12:45	11.6	0.4	WSW	1006.4	0
11/12/2023 13:00	11.6	0.9	WSW	1006.2	0
11/12/2023 13:15	11.7	0.4	W	1006.3	0
11/12/2023 13:30	11.7	0.4	W	1006.4	0
11/12/2023 13:45	11.8	0.9	W	1006.3	0
11/12/2023 14:00	11.7	0.4	W	1006.3	0
11/12/2023 14:15	11.6	0	W	1006.4	0
11/12/2023 14:30	11.5	0.4	WSW	1006.4	0
11/12/2023 14:45	11.3	1.3	WSW	1006.6	0
11/12/2023 15:00	11.3	0.9	W	1006.6	0
11/12/2023 15:15	11.1	0.9	WSW	1006.6	0
11/12/2023 15:30	11	0.9	W	1006.6	0
11/12/2023 15:45	10.9	0.9	WSW	1006.6	0
11/12/2023 16:00	10.7	0.9	W	1006.8	0
11/12/2023 16:15	10.6	0.9	W	1006.8	0
11/12/2023 16:30	10.3	0.4	WSW	1006.8	0
11/12/2023 16:45	10	0	W	1006.9	0
11/12/2023 17:00	9.8	0	WSW	1007	0
11/12/2023 17:15	9.3	0	W	1006.9	0
11/12/2023 17:30	9	0	---	1007	0
11/12/2023 17:45	8.4	0	---	1006.9	0
11/12/2023 18:00	8.5	0	---	1006.8	0
11/12/2023 18:15	8.5	0	W	1006.9	0
11/12/2023 18:30	8.8	0	---	1007	0
11/12/2023 18:45	9.3	0	NNE	1007	0
11/12/2023 19:00	9.3	0	---	1006.8	0
11/12/2023 19:15	9.1	0	---	1006.8	0
11/12/2023 19:30	8.8	0	---	1006.8	0
11/12/2023 19:45	9	0	NNE	1006.8	0

11/12/2023 20:00	8.9	0	---	1006.6	0
11/12/2023 20:15	9.1	0	NNE	1006.7	0
11/12/2023 20:30	9.2	0	NNE	1006.7	0
11/12/2023 20:45	9.1	0	N	1006.6	0
11/12/2023 21:00	8.9	0	---	1006.5	0
11/12/2023 21:15	9	0	---	1006.5	0
11/12/2023 21:30	9.6	0	---	1006.4	0
11/12/2023 21:45	9.8	0	W	1006.3	0
11/12/2023 22:00	10.2	0	---	1006.1	0
11/12/2023 22:15	10.3	0	---	1006	0
11/12/2023 22:30	10.3	0	---	1006	0
11/12/2023 22:45	10.4	0	---	1006	0
11/12/2023 23:00	10.6	0	---	1005.7	0
11/12/2023 23:15	10.8	0	---	1005.7	0
11/12/2023 23:30	10.7	0	---	1005.4	0
11/12/2023 23:45	10.7	0	---	1005.3	0
12/12/2023 00:00	10.9	0	WSW	1005.1	0
12/12/2023 00:15	11	0	WSW	1004.8	0
12/12/2023 00:30	11.1	0	W	1004.6	0
12/12/2023 00:45	11.1	0	WNW	1004.6	0
12/12/2023 01:00	11.3	0	W	1004.4	0.2
12/12/2023 01:15	11.3	0	NNE	1004	0
12/12/2023 01:30	11.4	0	WSW	1003.8	0
12/12/2023 01:45	11.6	0	W	1003.5	0
12/12/2023 02:00	11.6	0	W	1003.3	0
12/12/2023 02:15	11.6	0	SSE	1003.1	0
12/12/2023 02:30	11.8	0	W	1002.9	0.2
12/12/2023 02:45	11.9	0	W	1002.7	0.2
12/12/2023 03:00	11.8	0	W	1002.6	0
12/12/2023 03:15	11.8	0	W	1002.2	0
12/12/2023 03:30	11.8	0	W	1002.1	0
12/12/2023 03:45	11.9	0	W	1001.9	0
12/12/2023 04:00	11.8	0	W	1001.6	0.2
12/12/2023 04:15	11.9	0	W	1001.6	0
12/12/2023 04:30	11.9	0	NNE	1001.2	0
12/12/2023 04:45	11.9	0	W	1000.9	0
12/12/2023 05:00	11.9	0	W	1000.7	0.2
12/12/2023 05:15	11.9	0	W	1000.6	0.2
12/12/2023 05:30	11.9	0	W	1000.5	0
12/12/2023 05:45	11.9	0	W	1000.2	0.4
12/12/2023 06:00	12	0	W	1000.3	0.4
12/12/2023 06:15	12	0.4	W	1000.3	0.2
12/12/2023 06:30	11.9	0	W	1000.1	0.8
12/12/2023 06:45	11.9	0.4	W	1000	0
12/12/2023 07:00	11.9	0.4	W	1000	0
12/12/2023 07:15	11.6	0.4	W	1000	0
12/12/2023 07:30	11.4	0.4	W	999.9	0
12/12/2023 07:45	11.2	0	WSW	999.8	0
12/12/2023 08:00	11.3	0	W	999.9	0
12/12/2023 08:15	11.5	0	W	999.7	0
12/12/2023 08:30	11.4	0	W	999.5	0
12/12/2023 08:45	11.3	0	W	999.5	0
12/12/2023 09:00	11.2	0	W	999.4	0
12/12/2023 09:15	11.2	0	W	999.4	0

12/12/2023 10:15	10.3	0.4	WSW	998.6	0.4
12/12/2023 10:30	9.9	0	W	998.4	0.2
12/12/2023 10:45	9.8	0	W	998	0
12/12/2023 11:00	10	0	W	997.9	0.2
12/12/2023 11:15	9.9	0	W	997.5	0.2
12/12/2023 11:30	10.1	0	WSW	997.2	0.6
12/12/2023 11:45	10.4	0	WSW	996.7	0.8
12/12/2023 12:00	10.9	0.4	W	996.6	0
12/12/2023 12:15	11.5	0.4	W	996.3	0.6
12/12/2023 12:30	11.9	0.4	W	996	0.6
12/12/2023 12:45	11.8	0.4	WNW	996.1	0
12/12/2023 13:00	11.2	1.8	W	996.4	0.2
12/12/2023 13:15	9.9	1.3	W	995.8	0.2
12/12/2023 13:30	9.7	0	W	995.6	0.2
12/12/2023 13:45	9.9	0	W	995.4	0
12/12/2023 14:00	10.1	0.4	W	995.2	0
12/12/2023 14:15	10.2	0.4	W	995.1	0
12/12/2023 14:30	10.4	0.4	W	995	0
12/12/2023 14:45	10.5	0.9	W	994.9	0
12/12/2023 15:00	10.4	0.4	W	994.8	0
12/12/2023 15:15	10.3	0.4	W	994.7	0
12/12/2023 15:30	10.3	0.4	W	994.8	0
12/12/2023 15:45	10.2	0.4	W	994.8	0
12/12/2023 16:00	10.1	0	W	994.8	0
12/12/2023 16:15	9.9	0	W	994.7	0
12/12/2023 16:30	9.6	0	W	994.7	0
12/12/2023 16:45	9.3	0	W	994.7	0
12/12/2023 17:00	9.2	0	W	994.6	0
12/12/2023 17:15	9.1	0	W	994.6	0
12/12/2023 17:30	9.2	0.4	W	994.6	0
12/12/2023 17:45	9.3	0.4	W	994.6	0
12/12/2023 18:00	9.4	0.9	WSW	994.7	0
12/12/2023 18:15	9.4	0.4	W	994.7	0
12/12/2023 18:30	9.3	0.4	W	994.7	0
12/12/2023 18:45	9.2	0.4	WSW	994.8	0
12/12/2023 19:00	9.1	0.4	W	994.9	0
12/12/2023 19:15	9	0.4	WSW	995	0
12/12/2023 19:30	8.8	0	W	994.9	0
12/12/2023 19:45	8.8	0	W	994.9	0
12/12/2023 20:00	8.7	0	W	995	0
12/12/2023 20:15	8.6	0	W	995.1	0.2
12/12/2023 20:30	8.6	0	W	995.1	0
12/12/2023 20:45	8.6	0	W	995.1	0
12/12/2023 21:00	8.7	0.4	W	995.1	0
12/12/2023 21:15	8.6	0.4	W	995.2	0
12/12/2023 21:30	8.5	0.4	WSW	995.2	0
12/12/2023 21:45	8.4	0.4	W	995.2	0
12/12/2023 22:00	8.4	0.4	W	995.3	0
12/12/2023 22:15	8.3	0.4	W	995.4	0
12/12/2023 22:30	8.2	0.4	W	995.3	0
12/12/2023 22:45	8.3	0.9	W	995.3	0
12/12/2023 23:00	8.3	0.9	W	995.3	0
12/12/2023 23:15	8.2	0.4	W	995.5	0
12/12/2023 23:30	8.1	0.9	W	995.4	0
12/12/2023 23:45	7.9	0.4	W	995.5	0
13/12/2023 00:00	7.6	0.4	W	995.5	0
13/12/2023 00:15	7.4	0.4	W	995.5	0
13/12/2023 00:30	7.3	0.4	W	995.5	0
13/12/2023 00:45	7.1	0.4	W	995.5	0
13/12/2023 01:00	6.9	0	WSW	995.5	0
13/12/2023 01:15	6.8	0.4	W	995.6	0
13/12/2023 01:30	6.8	0.4	W	995.8	0
13/12/2023 01:45	7.2	0.4	W	995.9	0

13/12/2023 02:00	7.4	0.4	W	996	0
13/12/2023 02:15	7.4	0.9	W	996.1	0
13/12/2023 02:30	7.6	0.9	W	996.2	0
13/12/2023 02:45	7.8	0.9	W	996.5	0
13/12/2023 03:00	7.8	0.4	W	996.6	0
13/12/2023 03:15	7.9	0.4	W	996.7	0
13/12/2023 03:30	8.2	0.4	W	996.9	0
13/12/2023 03:45	8.2	0.4	W	997	0
13/12/2023 04:00	8.2	0.9	W	997.2	0
13/12/2023 04:15	8.2	0.4	NW	997.3	0
13/12/2023 04:30	8.2	0.4	W	997.3	0
13/12/2023 04:45	8.2	0.4	W	997.4	0
13/12/2023 05:00	8.2	0.4	W	997.4	0
13/12/2023 05:15	8.1	0.4	W	997.5	0
13/12/2023 05:30	8.2	0.4	W	997.7	0
13/12/2023 05:45	8.2	0.4	W	997.9	0
13/12/2023 06:00	8.3	0.4	W	998.2	0
13/12/2023 06:15	8.3	0.4	W	998.4	0
13/12/2023 06:30	8.3	0.4	W	998.7	0
13/12/2023 06:45	8.1	0.4	W	998.9	0
13/12/2023 07:00	8.1	0.4	W	999.1	0
13/12/2023 07:15	8.2	0.4	W	999.3	0
13/12/2023 07:30	8.4	0.9	W	999.5	0
13/12/2023 07:45	8.4	0.9	NW	999.5	0
13/12/2023 08:00	8.6	0.9	NW	999.8	0
13/12/2023 08:15	8.5	0.9	W	1000	0
13/12/2023 08:30	8.4	0.4	W	1000.3	0
13/12/2023 08:45	8.5	0.9	W	1000.6	0
13/12/2023 09:00	8.5	0.9	W	1000.8	0
13/12/2023 09:15	8.4	1.3	W	1001.1	0
13/12/2023 09:30	8.4	1.3	W	1001.4	0
13/12/2023 09:45	8.2	0.9	W	1001.6	0
13/12/2023 10:00	8	0.4	W	1001.8	0
13/12/2023 10:15	7.9	0.9	W	1002	0
13/12/2023 10:30	8.1	0.9	NW	1002.2	0
13/12/2023 10:45	8.2	1.3	NW	1002.5	0
13/12/2023 11:00	8.2	1.3	NW	1002.7	0
13/12/2023 11:15	8.3	1.3	NW	1003	0
13/12/2023 11:30	8.3	1.8	NNW	1003.3	0
13/12/2023 11:45	8.3	1.8	NNW	1003.4	0
13/12/2023 12:00	8.3	2.2	NNW	1003.7	0
13/12/2023 12:15	8.4	2.2	NNW	1004	0
13/12/2023 12:30	8.4	3.1	NNW	1004.2	0
13/12/2023 12:45	8.4	2.7	NNW	1004.4	0
13/12/2023 13:00	8.4	2.2	NNW	1004.4	0
13/12/2023 13:15	8.4	1.8	NNW	1004.6	0
13/12/2023 13:30	8.4	2.7	NNW	1004.9	0
13/12/2023 13:45	8.3	2.2	NNW	1005.2	0
13/12/2023 14:00	8.2	2.7	NNW	1005.4	0
13/12/2023 14:15	8.2	2.7	NNW	1005.8	0
13/12/2023 14:30	8	2.7	NNW	1005.9	0
13/12/2023 14:45	7.9	2.2	NW	1006.2	0
13/12/2023 15:00	7.8	2.7	NNW	1006.4	0
13/12/2023 15:15	7.8	2.7	NW	1006.7	0
13/12/2023 15:30	7.7	2.7	NNW	1006.8	0
13/12/2023 15:45	7.7	2.7	NW	1007.2	0
13/12/2023 16:00	7.7	2.2	NNW	1007.6	0
13/12/2023 16:15	7.7	2.2	NNW	1007.9	0
13/12/2023 16:30	7.7	2.7	NNW	1008.3	0
13/12/2023 16:45	7.7	2.7	NNW	1008.8	0

13/12/2023 17:00	7.7	2.7	NNW	1009.1	0
13/12/2023 17:15	7.7	2.7	NNW	1009.6	0
13/12/2023 17:30	7.7	2.7	NNW	1010	0
13/12/2023 17:45	7.7	2.2	NNW	1010.2	0
13/12/2023 18:00	7.6	1.8	NNW	1010.5	0
13/12/2023 18:15	7.6	1.3	NW	1010.9	0
13/12/2023 18:30	7.5	1.3	NW	1011.2	0
13/12/2023 18:45	7.4	1.3	NW	1011.5	0
13/12/2023 19:00	7.3	1.3	NNW	1011.8	0
13/12/2023 19:15	7.3	1.3	NNW	1012	0
13/12/2023 19:30	7.3	0.9	W	1012.4	0
13/12/2023 19:45	7.3	0.9	NW	1012.9	0
13/12/2023 20:00	7.2	1.3	NW	1012.8	0
13/12/2023 20:15	7	1.8	NW	1013.2	0
13/12/2023 20:30	7.1	1.3	NW	1013.5	0
13/12/2023 20:45	7.1	1.3	NNW	1014	0
13/12/2023 21:00	7.1	1.3	NNW	1014.4	0
13/12/2023 21:15	7	1.8	NNW	1014.5	0
13/12/2023 21:30	6.8	1.3	NNW	1014.9	0
13/12/2023 21:45	6.8	0.9	NW	1015	0
13/12/2023 22:00	6.7	0.9	NW	1015.2	0
13/12/2023 22:15	6.7	0.9	NW	1015.5	0
13/12/2023 22:30	6.7	0.9	NNW	1015.6	0
13/12/2023 22:45	6.4	0.4	W	1015.9	0
13/12/2023 23:00	6.3	0.4	NW	1016.1	0
13/12/2023 23:15	6.2	0.4	W	1016.3	0
13/12/2023 23:30	6.1	0.4	W	1016.5	0
13/12/2023 23:45	6.2	0.4	W	1016.8	0
14/12/2023 00:00	6	0.9	W	1016.9	0
14/12/2023 00:15	5.8	0.9	W	1017.2	0
14/12/2023 00:30	5.6	0.4	W	1017.5	0
14/12/2023 00:45	5.4	0.9	W	1017.7	0
14/12/2023 01:00	5.2	0.4	W	1017.9	0
14/12/2023 01:15	4.9	0.4	W	1018.1	0
14/12/2023 01:30	4.6	0.4	W	1018.3	0
14/12/2023 01:45	4.2	0	W	1018.6	0
14/12/2023 02:00	3.8	0	W	1018.6	0
14/12/2023 02:15	3.6	0	W	1019.1	0
14/12/2023 02:30	3.4	0.4	W	1019.3	0
14/12/2023 02:45	3.1	0	W	1019.1	0
14/12/2023 03:00	2.9	0	W	1019.2	0
14/12/2023 03:15	2.9	0.4	W	1019.4	0
14/12/2023 03:30	2.8	0	W	1019.6	0
14/12/2023 03:45	2.6	0	W	1019.8	0
14/12/2023 04:00	2.7	0	W	1020	0
14/12/2023 04:15	2.7	0	WSW	1020.1	0
14/12/2023 04:30	2.7	0	W	1020.3	0
14/12/2023 04:45	2.9	0	W	1020.4	0
14/12/2023 05:00	3.2	0.4	W	1020.5	0
14/12/2023 05:15	3.2	0	W	1020.7	0
14/12/2023 05:30	3.3	0	W	1020.8	0
14/12/2023 05:45	3.4	0	W	1021	0
14/12/2023 06:00	3.5	0	W	1021.1	0
14/12/2023 06:15	3.6	0	W	1020.9	0
14/12/2023 06:30	3.6	0	---	1021	0
14/12/2023 06:45	3.6	0	---	1021	0
14/12/2023 07:00	3.6	0	WSW	1021.3	0
14/12/2023 07:15	3.7	0	W	1021.4	0
14/12/2023 07:30	3.8	0	---	1021.4	0
14/12/2023 07:45	3.9	0	W	1021.4	0

14/12/2023 08:00	4.1	0	W	1021.5	0
14/12/2023 08:15	4.2	0	W	1021.6	0
14/12/2023 08:30	4.3	0	---	1021.7	0
14/12/2023 08:45	4.4	0	---	1021.9	0
14/12/2023 09:00	4.6	0	---	1021.8	0
14/12/2023 09:15	4.8	0	---	1021.8	0
14/12/2023 09:30	4.9	0	---	1022	0
14/12/2023 09:45	5.2	0	W	1022	0
14/12/2023 10:00	5.5	0	E	1022.1	0
14/12/2023 10:15	5.8	0	ESE	1022.2	0
14/12/2023 10:30	6.3	0	---	1022.2	0
14/12/2023 10:45	6.8	0	---	1022	0
14/12/2023 11:00	7.6	0	ESE	1022	0
14/12/2023 11:15	8.2	0	ESE	1021.8	0
14/12/2023 11:30	8.6	0	---	1021.6	0
14/12/2023 11:45	8.9	0	W	1021.6	0
14/12/2023 12:00	9.2	0	W	1021.5	0
14/12/2023 12:15	9.4	0	W	1021.3	0
14/12/2023 12:30	9.6	0	W	1021.1	0
14/12/2023 12:45	9.8	0	W	1021	0
14/12/2023 13:00	10.1	0.4	W	1021	0
14/12/2023 13:15	10	0.4	W	1021	0
14/12/2023 13:30	10	0.9	W	1021.2	0
14/12/2023 13:45	10.1	0.9	WSW	1021.3	0
14/12/2023 14:00	10.1	0.4	W	1021.5	0
14/12/2023 14:15	10.1	0.4	W	1021.7	0
14/12/2023 14:30	10.1	0.4	W	1022	0
14/12/2023 14:45	10.2	0	NW	1022.3	0
14/12/2023 15:00	10.2	0	WSW	1022.4	0
14/12/2023 15:15	10.2	0	W	1022.6	0
14/12/2023 15:30	10.2	0	W	1022.9	0
14/12/2023 15:45	9.9	0.4	W	1022.9	0
14/12/2023 16:00	9.3	0	W	1023.2	0
14/12/2023 16:15	8.8	0	W	1023.5	0
14/12/2023 16:30	8.2	0	---	1023.8	0
14/12/2023 16:45	7.6	0	---	1024	0
14/12/2023 17:00	7.2	0	---	1024.5	0
14/12/2023 17:15	7.1	0	---	1024.6	0
14/12/2023 17:30	7	0	---	1024.9	0
14/12/2023 17:45	6.7	0	---	1025.1	0
14/12/2023 18:00	6.3	0	---	1025.5	0
14/12/2023 18:15	6.5	0	---	1025.7	0
14/12/2023 18:30	6.7	0	---	1025.7	0
14/12/2023 18:45	7.2	0	---	1025.7	0
14/12/2023 19:00	7.4	0	NW	1026.2	0
14/12/2023 19:15	7.3	0	---	1026.3	0
14/12/2023 19:30	7.3	0	---	1026.6	0
14/12/2023 19:45	7.3	0	---	1026.8	0
14/12/2023 20:00	7.4	0	---	1026.8	0
14/12/2023 20:15	7.4	0	---	1026.9	0
14/12/2023 20:30	7.7	0	NNW	1027.2	0
14/12/2023 20:45	8	0	W	1027.5	0
14/12/2023 21:00	8.1	0	NW	1027.9	0
14/12/2023 21:15	8.1	0	W	1028.1	0
14/12/2023 21:30	8.2	0	W	1028.1	0
14/12/2023 21:45	8.4	0.4	W	1028.4	0
14/12/2023 22:00	8.6	0	W	1028.6	0
14/12/2023 22:15	8.6	0	W	1028.6	0
14/12/2023 22:30	8.4	0	W	1028.7	0
14/12/2023 22:45	8.2	0	---	1028.9	0

14/12/2023 23:00	8	0	---	1029.1	0
14/12/2023 23:15	7.8	0	---	1029.3	0
14/12/2023 23:30	7.5	0	---	1029.4	0
14/12/2023 23:45	7.4	0	W	1029.5	0
15/12/2023 00:00	7.4	0	W	1029.7	0
15/12/2023 00:15	7.1	0	---	1030	0
15/12/2023 00:30	6.7	0	---	1030	0
15/12/2023 00:45	6.2	0	---	1030.3	0
15/12/2023 01:00	5.7	0	---	1030.5	0
15/12/2023 01:15	5	0	---	1030.8	0
15/12/2023 01:30	5.2	0	W	1031.1	0
15/12/2023 01:45	5.2	0	---	1031.4	0
15/12/2023 02:00	5.1	0	---	1031.6	0
15/12/2023 02:15	4.9	0	---	1032	0
15/12/2023 02:30	4.6	0	---	1032.4	0
15/12/2023 02:45	4.2	0	---	1032.5	0
15/12/2023 03:00	3.6	0	---	1032.5	0
15/12/2023 03:15	3.3	0	N	1032.9	0
15/12/2023 03:30	4.2	0	WSW	1032.9	0
15/12/2023 03:45	4.1	0	---	1032.9	0
15/12/2023 04:00	4.2	0	---	1033.2	0
15/12/2023 04:15	4.2	0	W	1033.1	0
15/12/2023 04:30	4.1	0	---	1033.4	0
15/12/2023 04:45	3.9	0	---	1033.5	0
15/12/2023 05:00	3.7	0	---	1033.7	0
15/12/2023 05:15	3.2	0	---	1034	0
15/12/2023 05:30	3	0	---	1034.2	0
15/12/2023 05:45	2.5	0	---	1034.3	0
15/12/2023 06:00	2.4	0	---	1034.4	0
15/12/2023 06:15	2.7	0	---	1034.7	0
15/12/2023 06:30	3.1	0	---	1034.7	0
15/12/2023 06:45	3.4	0	NW	1035.1	0
15/12/2023 07:00	3.7	0	---	1035.1	0
15/12/2023 07:15	3.6	0	---	1035.3	0
15/12/2023 07:30	3.1	0	---	1035.2	0
15/12/2023 07:45	2.9	0	---	1035.6	0
15/12/2023 08:00	2.9	0	---	1036.1	0
15/12/2023 08:15	3.2	0	---	1036.9	0
15/12/2023 08:30	3.5	0	---	1036.9	0
15/12/2023 08:45	3.6	0	---	1037.1	0
15/12/2023 09:00	3.7	0	---	1037.5	0
15/12/2023 09:15	4	0	---	1037.7	0
15/12/2023 09:30	4.5	0	---	1037.8	0.2
15/12/2023 09:45	4.9	0	---	1037.9	0
15/12/2023 10:00	5.6	0	W	1038.1	0
15/12/2023 10:15	6.2	0	---	1038	0
15/12/2023 10:30	6.8	0	W	1038	0
15/12/2023 10:45	7.2	0	WNW	1038	0
15/12/2023 11:00	7.7	0	---	1038.1	0
15/12/2023 11:15	8	0	NW	1038.1	0
15/12/2023 11:30	8.4	0	---	1038	0
15/12/2023 11:45	8.8	0	---	1038	0
15/12/2023 12:00	8.8	0	---	1038	0
15/12/2023 12:15	9	0	---	1037.9	0
15/12/2023 12:30	9.1	0	---	1037.9	0
15/12/2023 12:45	9.2	0	WNW	1038.1	0
15/12/2023 13:00	9.4	0	W	1037.9	0
15/12/2023 13:15	9.6	0	W	1038.1	0
15/12/2023 13:30	9.7	0	W	1038	0
15/12/2023 13:45	9.8	0	W	1037.9	0

15/12/2023 14:00	9.8	0	WSW	1037.8	0
15/12/2023 14:15	9.9	0	W	1037.8	0
15/12/2023 14:30	10	0	W	1037.7	0
15/12/2023 14:45	9.8	0	W	1037.8	0
15/12/2023 15:00	9.6	0	W	1038.1	0
15/12/2023 15:15	9.6	0	W	1038.3	0
15/12/2023 15:30	9.4	0	W	1038.4	0
15/12/2023 15:45	9.3	0	W	1038.5	0
15/12/2023 16:00	9	0	WSW	1038.6	0
15/12/2023 16:15	8.4	0	W	1038.8	0
15/12/2023 16:30	8	0	WSW	1038.8	0
15/12/2023 16:45	7.4	0	---	1038.7	0
15/12/2023 17:00	6.8	0	---	1039	0
15/12/2023 17:15	6.4	0	W	1039.2	0
15/12/2023 17:30	6.3	0	W	1039.3	0
15/12/2023 17:45	6.1	0	W	1039.3	0
15/12/2023 18:00	5.7	0	---	1039.6	0
15/12/2023 18:15	5.7	0	---	1039.7	0
15/12/2023 18:30	5.3	0	---	1039.9	0
15/12/2023 18:45	5.2	0	---	1040	0
15/12/2023 19:00	4.9	0	---	1040.1	0
15/12/2023 19:15	4.8	0	---	1040.2	0
15/12/2023 19:30	4.4	0	---	1040.2	0
15/12/2023 19:45	4.6	0	---	1040.3	0
15/12/2023 20:00	4.6	0	---	1040.3	0
15/12/2023 20:15	4.3	0	---	1040.3	0
15/12/2023 20:30	4.2	0	---	1040.3	0
15/12/2023 20:45	4.2	0	---	1040.5	0
15/12/2023 21:00	3.9	0	---	1040.5	0
15/12/2023 21:15	3.4	0	---	1040.5	0
15/12/2023 21:30	3.3	0	---	1040.6	0
15/12/2023 21:45	3.6	0	---	1040.8	0
15/12/2023 22:00	3.4	0	---	1040.7	0
15/12/2023 22:15	3	0	---	1040.7	0
15/12/2023 22:30	3.6	0	W	1040.8	0
15/12/2023 22:45	3.5	0	---	1040.7	0
15/12/2023 23:00	3.7	0	---	1040.7	0
15/12/2023 23:15	4.2	0	---	1040.7	0
15/12/2023 23:30	4.9	0	---	1040.8	0
15/12/2023 23:45	5.4	0	---	1040.7	0
16/12/2023 00:00	6	0	NW	1040.7	0
16/12/2023 00:15	6.8	0	W	1040.5	0
16/12/2023 00:30	7.8	0	W	1040.3	0
16/12/2023 00:45	8.7	0.4	W	1040.2	0
16/12/2023 01:00	9.3	0.9	W	1040.2	0
16/12/2023 01:15	9.6	0.4	W	1040.2	0
16/12/2023 01:30	9.6	0	W	1040	0
16/12/2023 01:45	9.4	0	W	1040.1	0
16/12/2023 02:00	9.4	0	WNW	1040.1	0
16/12/2023 02:15	9.4	0	---	1040.1	0
16/12/2023 02:30	9.5	0	WSW	1040	0
16/12/2023 02:45	9.6	0	W	1039.9	0
16/12/2023 03:00	9.8	0.4	W	1039.9	0
16/12/2023 03:15	9.9	0	W	1039.8	0
16/12/2023 03:30	10	0	W	1039.7	0
16/12/2023 03:45	10	0	WSW	1039.6	0
16/12/2023 04:00	10	0	WSW	1039.7	0
16/12/2023 04:15	10.2	0	W	1039.6	0
16/12/2023 04:30	10.3	0	W	1039.5	0
16/12/2023 04:45	10.2	0	W	1039.6	0

16/12/2023 05:00	10.4	0.4	W	1039.7	0
16/12/2023 05:15	10.6	0.4	W	1039.6	0
16/12/2023 05:30	10.7	0.4	W	1039.5	0.2
16/12/2023 05:45	10.7	0.9	WSW	1039.5	0
16/12/2023 06:00	10.7	0.4	W	1039.6	0
16/12/2023 06:15	10.7	0.4	WSW	1039.6	0
16/12/2023 06:30	10.6	0.9	WSW	1039.6	0
16/12/2023 06:45	10.4	0.9	W	1039.7	0
16/12/2023 07:00	10.4	1.3	WSW	1039.8	0
16/12/2023 07:15	10.5	0.9	W	1039.8	0
16/12/2023 07:30	10.4	0.9	WSW	1039.8	0
16/12/2023 07:45	10.4	0.9	WSW	1039.7	0
16/12/2023 08:00	10.4	0.9	WSW	1039.8	0
16/12/2023 08:15	10.5	0.9	WSW	1039.9	0
16/12/2023 08:30	10.4	0	WSW	1040	0
16/12/2023 08:45	10.4	0	W	1040.2	0
16/12/2023 09:00	10.4	0.4	WSW	1040.2	0
16/12/2023 09:15	10.5	0.4	W	1040.3	0
16/12/2023 09:30	10.7	0.9	W	1040.4	0
16/12/2023 09:45	10.7	0.9	W	1040.5	0
16/12/2023 10:00	10.9	1.3	WSW	1040.5	0
16/12/2023 10:15	11.1	0.9	W	1040.7	0
16/12/2023 10:30	11.1	0.9	W	1040.6	0
16/12/2023 10:45	11.3	1.3	W	1040.6	0
16/12/2023 11:00	11.3	1.3	WSW	1040.5	0
16/12/2023 11:15	11.3	1.3	WSW	1040.3	0
16/12/2023 11:30	11.3	1.3	W	1040.1	0
16/12/2023 11:45	11.4	0.9	W	1039.9	0
16/12/2023 12:00	11.4	0.9	W	1039.5	0
16/12/2023 12:15	11.5	0.9	W	1039.7	0
16/12/2023 12:30	11.3	0.9	WSW	1039.4	0
16/12/2023 12:45	11.3	0.9	WSW	1039.5	0
16/12/2023 13:00	11.3	0.4	W	1039.4	0
16/12/2023 13:15	11.1	0.9	W	1039.2	0
16/12/2023 13:30	10.9	1.3	WSW	1038.9	0
16/12/2023 13:45	11.1	1.8	WSW	1038.8	0
16/12/2023 14:00	11	1.3	W	1038.8	0
16/12/2023 14:15	10.9	0.9	W	1038.5	0
16/12/2023 14:30	10.7	1.3	W	1038.7	0
16/12/2023 14:45	10.7	0.9	W	1038.7	0
16/12/2023 15:00	10.7	0.9	WSW	1038.5	0
16/12/2023 15:15	10.6	0.4	W	1038.5	0
16/12/2023 15:30	10.5	0.9	W	1038.6	0
16/12/2023 15:45	10.5	0.4	W	1038.7	0
16/12/2023 16:00	10.4	0.4	W	1038.7	0
16/12/2023 16:15	10.4	0.9	W	1038.7	0
16/12/2023 16:30	10.4	0.9	WSW	1038.8	0
16/12/2023 16:45	10.4	1.3	WSW	1039	0
16/12/2023 17:00	10.4	1.3	W	1038.8	0
16/12/2023 17:15	10.4	0.4	W	1039	0
16/12/2023 17:30	10.4	0.9	W	1038.9	0
16/12/2023 17:45	10.4	0.4	W	1038.9	0
16/12/2023 18:00	10.3	0	W	1038.9	0
16/12/2023 18:15	10.3	0.4	WSW	1038.8	0
16/12/2023 18:30	10.4	0	W	1038.8	0
16/12/2023 18:45	10.5	0	W	1039.1	0
16/12/2023 19:00	10.6	0.4	W	1039.3	0
16/12/2023 19:15	10.6	0.9	WSW	1039.3	0
16/12/2023 19:30	10.6	0.4	W	1039.5	0
16/12/2023 19:45	10.7	0.9	W	1039.3	0

16/12/2023 20:00	10.6	0.4	WSW	1039.2	0
16/12/2023 20:15	10.5	0.4	W	1039.2	0
16/12/2023 20:30	10.3	0.4	W	1039	0
16/12/2023 20:45	10.3	0.4	W	1039	0
16/12/2023 21:00	10.1	0.4	W	1039	0
16/12/2023 21:15	10.1	0.4	W	1038.9	0
16/12/2023 21:30	10.1	0	W	1038.7	0
16/12/2023 21:45	10.1	0.4	W	1038.8	0
16/12/2023 22:00	10.2	0.4	W	1038.7	0
16/12/2023 22:15	10.1	0	W	1038.7	0
16/12/2023 22:30	10.2	0.4	WSW	1038.6	0
16/12/2023 22:45	10.2	0.4	W	1038.6	0
16/12/2023 23:00	10.3	0.4	W	1038.6	0
16/12/2023 23:15	10.3	0.4	WSW	1038.6	0
16/12/2023 23:30	10.3	0	W	1038.7	0
16/12/2023 23:45	10.3	0	W	1038.6	0
17/12/2023 00:00	10.3	0.4	W	1038.5	0
17/12/2023 00:15	10.3	0.4	W	1038.3	0
17/12/2023 00:30	10.2	0	W	1038.2	0
17/12/2023 00:45	10.2	0	W	1037.9	0
17/12/2023 01:00	10.3	0	W	1037.6	0
17/12/2023 01:15	10.3	0	W	1037.6	0
17/12/2023 01:30	10.2	0	W	1037.4	0
17/12/2023 01:45	10.2	0	W	1037.2	0
17/12/2023 02:00	10.1	0	WSW	1037	0
17/12/2023 02:15	10.1	0	W	1037.3	0
17/12/2023 02:30	10.1	0	W	1037.3	0
17/12/2023 02:45	10.1	0	WSW	1037.1	0
17/12/2023 03:00	10.1	0	W	1037	0
17/12/2023 03:15	10	0	W	1036.9	0
17/12/2023 03:30	9.9	0	WSW	1036.8	0
17/12/2023 03:45	9.5	0	W	1036.7	0
17/12/2023 04:00	8.9	0	WNW	1036.5	0
17/12/2023 04:15	8.4	0	NNW	1036.4	0
17/12/2023 04:30	8	0	W	1036.3	0
17/12/2023 04:45	7.7	0	---	1036.1	0
17/12/2023 05:00	8	0	SE	1036.1	0
17/12/2023 05:15	8.4	0	W	1036	0
17/12/2023 05:30	8.7	0	W	1035.9	0
17/12/2023 05:45	9	0	W	1035.7	0
17/12/2023 06:00	9.3	0	W	1035.7	0
17/12/2023 06:15	9.6	0.4	W	1035.8	0
17/12/2023 06:30	9.7	0.4	W	1035.9	0
17/12/2023 06:45	9.7	0	W	1035.9	0
17/12/2023 07:00	9.7	0	W	1035.8	0
17/12/2023 07:15	9.6	0	W	1035.9	0
17/12/2023 07:30	9.6	0	W	1035.8	0
17/12/2023 07:45	9.6	0	W	1035.8	0
17/12/2023 08:00	9.7	0	W	1035.8	0
17/12/2023 08:15	9.6	0	W	1035.8	0
17/12/2023 08:30	9.6	0	W	1035.9	0
17/12/2023 08:45	9.7	0	W	1036.1	0
17/12/2023 09:00	9.8	0	W	1036.1	0
17/12/2023 09:15	10	0	W	1036.1	0
17/12/2023 09:30	10.2	0	W	1036.2	0
17/12/2023 09:45	10.3	0	W	1036	0
17/12/2023 10:00	10.5	0	W	1036	0
17/12/2023 10:15	10.6	0.4	W	1035.9	0
17/12/2023 10:30	10.8	0.4	W	1035.9	0
17/12/2023 10:45	11	0	WNW	1035.8	0

17/12/2023 11:00	11.3	0	W	1035.6	0
17/12/2023 11:15	11.2	0.4	W	1035.5	0
17/12/2023 11:30	11.1	0.4	W	1035.3	0
17/12/2023 11:45	10.9	0.4	W	1035.2	0
17/12/2023 12:00	10.8	0.4	WNW	1035	0
17/12/2023 12:15	10.8	0.4	WNW	1034.7	0
17/12/2023 12:30	10.8	0.4	W	1034.8	0
17/12/2023 12:45	10.8	0.4	W	1034.7	0
17/12/2023 13:00	10.7	0.9	W	1034.5	0
17/12/2023 13:15	10.7	0.4	W	1034.4	0
17/12/2023 13:30	10.7	0.4	W	1034.2	0
17/12/2023 13:45	10.7	0.4	W	1034.1	0
17/12/2023 14:00	10.7	0.4	W	1033.9	0
17/12/2023 14:15	10.7	0.4	W	1033.8	0
17/12/2023 14:30	10.7	0.4	W	1033.6	0
17/12/2023 14:45	10.6	0.4	WSW	1033.5	0
17/12/2023 15:00	10.6	0.4	W	1033.4	0
17/12/2023 15:15	10.6	0.4	W	1033.4	0
17/12/2023 15:30	10.6	0	W	1033.4	0
17/12/2023 15:45	10.6	0.4	W	1033.3	0
17/12/2023 16:00	10.6	0.4	W	1033.3	0
17/12/2023 16:15	10.6	0.4	W	1033.3	0
17/12/2023 16:30	10.6	0.4	W	1033.1	0
17/12/2023 16:45	10.6	0.4	W	1033.2	0
17/12/2023 17:00	10.6	0.4	W	1033.2	0
17/12/2023 17:15	10.6	0.9	WSW	1033.2	0
17/12/2023 17:30	10.6	0.9	WSW	1033.3	0
17/12/2023 17:45	10.7	0.4	WSW	1033.3	0
17/12/2023 18:00	10.7	0.4	WSW	1033.3	0
17/12/2023 18:15	10.7	0.4	W	1033.5	0
17/12/2023 18:30	10.8	0.4	W	1033.6	0
17/12/2023 18:45	10.8	0.9	W	1033.5	0
17/12/2023 19:00	10.8	0.4	W	1033.4	0
17/12/2023 19:15	10.8	0.4	W	1033.5	0
17/12/2023 19:30	10.8	0.9	WSW	1033.2	0
17/12/2023 19:45	10.9	1.3	W	1033.2	0
17/12/2023 20:00	11	1.3	W	1033.2	0
17/12/2023 20:15	10.9	0.9	WSW	1033.1	0
17/12/2023 20:30	10.9	1.3	W	1032.9	0
17/12/2023 20:45	11.1	1.3	WSW	1033	0
17/12/2023 21:00	10.9	0.9	WSW	1033	0
17/12/2023 21:15	10.8	0.4	WSW	1033	0
17/12/2023 21:30	10.8	0.9	W	1033.1	0
17/12/2023 21:45	10.9	0.9	W	1033.1	0
17/12/2023 22:00	10.9	0.9	W	1033.1	0
17/12/2023 22:15	10.8	0.9	WSW	1033	0
17/12/2023 22:30	10.8	0.9	W	1033	0
17/12/2023 22:45	10.9	0.9	WSW	1033.1	0
17/12/2023 23:00	11	1.3	WSW	1033	0
17/12/2023 23:15	10.9	0.9	W	1032.9	0
17/12/2023 23:30	11	1.3	W	1032.9	0
17/12/2023 23:45	11.1	1.3	W	1032.9	0
18/12/2023 00:00	11.1	0.9	WSW	1032.9	0
18/12/2023 00:15	11	0.9	WSW	1032.8	0
18/12/2023 00:30	10.9	0.4	WSW	1032.7	0
18/12/2023 00:45	10.8	0.4	W	1032.5	0
18/12/2023 01:00	10.8	0.4	W	1032.3	0
18/12/2023 01:15	10.8	0.4	W	1032.2	0
18/12/2023 01:30	10.8	0.9	W	1032	0
18/12/2023 01:45	10.8	0.9	W	1032	0

18/12/2023 02:00	10.9	0.9	W	1032	0
18/12/2023 02:15	10.8	0.9	W	1032	0
18/12/2023 02:30	10.8	0.9	WSW	1032	0
18/12/2023 02:45	10.8	0.4	W	1031.9	0
18/12/2023 03:00	10.7	0.4	W	1031.8	0
18/12/2023 03:15	10.7	0.4	W	1031.6	0
18/12/2023 03:30	10.6	0.4	WSW	1031.4	0
18/12/2023 03:45	10.7	0.4	W	1031.4	0
18/12/2023 04:00	10.7	0.4	W	1031.3	0
18/12/2023 04:15	10.7	0.9	W	1031.1	0
18/12/2023 04:30	10.7	0.9	WSW	1031	0
18/12/2023 04:45	10.7	0.9	WSW	1031	0
18/12/2023 05:00	10.7	0.4	W	1031	0
18/12/2023 05:15	10.7	0.4	W	1031	0
18/12/2023 05:30	10.8	0.4	W	1031.1	0
18/12/2023 05:45	10.8	0.9	WSW	1031.1	0
18/12/2023 06:00	10.7	0.9	W	1031	0
18/12/2023 06:15	10.7	0.4	W	1031	0
18/12/2023 06:30	10.7	1.3	WSW	1031	0
18/12/2023 06:45	10.7	0.4	W	1030.9	0
18/12/2023 07:00	10.8	0.4	W	1031.1	0
18/12/2023 07:15	10.8	0.9	W	1031.3	0
18/12/2023 07:30	10.8	1.3	WSW	1031.1	0
18/12/2023 07:45	10.6	0.9	WSW	1031	0
18/12/2023 08:00	10.9	1.8	WSW	1031.1	0
18/12/2023 08:15	10.9	1.3	W	1031	0
18/12/2023 08:30	10.8	0.4	W	1031	0
18/12/2023 08:45	10.8	0.4	W	1031.3	0
18/12/2023 09:00	10.9	0.4	W	1031.1	0
18/12/2023 09:15	11.1	0.9	W	1031.2	0
18/12/2023 09:30	11.1	0.9	WSW	1031.2	0
18/12/2023 09:45	11.1	0.4	WSW	1031.1	0
18/12/2023 10:00	11.1	0.4	W	1031	0
18/12/2023 10:15	11.3	0.4	W	1030.8	0
18/12/2023 10:30	11.5	0.4	WSW	1030.4	0
18/12/2023 10:45	11.7	0.4	W	1030.2	0
18/12/2023 11:00	11.8	0.4	W	1029.9	0
18/12/2023 11:15	12	0.4	W	1030.1	0
18/12/2023 11:30	12.1	0.9	W	1029.9	0
18/12/2023 11:45	12.2	0.4	W	1029.6	0
18/12/2023 12:00	12.2	0.4	WSW	1029.5	0
18/12/2023 12:15	12.1	0.9	W	1029.1	0
18/12/2023 12:30	12.1	0.4	W	1029.1	0
18/12/2023 12:45	12.1	0.9	W	1028.9	0
18/12/2023 13:00	12.1	0.4	W	1028.9	0
18/12/2023 13:15	12	0.9	W	1028.9	0
18/12/2023 13:30	11.9	0.9	W	1028.7	0
18/12/2023 13:45	11.9	0.4	W	1028.5	0
18/12/2023 14:00	11.9	0.9	W	1028.3	0
18/12/2023 14:15	11.9	0.4	W	1028.1	0
18/12/2023 14:30	12	0.9	W	1028.1	0
18/12/2023 14:45	11.9	0.9	WSW	1028.1	0
18/12/2023 15:00	11.9	0.9	W	1027.8	0
18/12/2023 15:15	11.9	0.9	WSW	1027.9	0
18/12/2023 15:30	11.9	1.3	WSW	1028	0
18/12/2023 15:45	11.9	1.3	W	1027.7	0
18/12/2023 16:00	11.9	1.3	W	1027.8	0
18/12/2023 16:15	11.9	0.9	W	1027.6	0
18/12/2023 16:30	11.9	0.9	WSW	1027.5	0
18/12/2023 16:45	11.9	1.3	WSW	1027.4	0

18/12/2023 17:00	11.9	1.3	WSW	1027.5	0
18/12/2023 17:15	12.1	0.9	W	1027.3	0
18/12/2023 17:30	12.1	0.9	W	1027.4	0
18/12/2023 17:45	12.2	0.9	W	1027.3	0
18/12/2023 18:00	12.2	0.9	W	1027.4	0
18/12/2023 18:15	12.1	0.9	W	1027.3	0
18/12/2023 18:30	12.1	0.9	WSW	1027	0
18/12/2023 18:45	12.1	0.4	W	1026.9	0
18/12/2023 19:00	12.1	0.4	W	1026.9	0
18/12/2023 19:15	12.2	0.9	W	1027.3	0
18/12/2023 19:30	12.1	0.9	W	1026.9	0
18/12/2023 19:45	12.2	0.9	WSW	1026.8	0
18/12/2023 20:00	12.2	0.9	W	1026.7	0
18/12/2023 20:15	12.2	1.3	W	1026.5	0
18/12/2023 20:30	12.3	1.3	W	1026.2	0
18/12/2023 20:45	12.3	1.3	WSW	1026.1	0
18/12/2023 21:00	12.3	0.9	W	1026	0
18/12/2023 21:15	12.3	0.9	WSW	1025.7	0
18/12/2023 21:30	12.3	0.9	W	1025.7	0
18/12/2023 21:45	12.3	0.9	W	1025.7	0
18/12/2023 22:00	12.3	1.3	W	1025.7	0
18/12/2023 22:15	12.3	0.9	W	1025.7	0
18/12/2023 22:30	12.2	0.9	W	1025.5	0
18/12/2023 22:45	12.2	0.9	WSW	1025.3	0
18/12/2023 23:00	12.2	0.9	WSW	1025.1	0
18/12/2023 23:15	12	0.9	WSW	1024.7	0
18/12/2023 23:30	12.1	0.9	WSW	1024.6	0
18/12/2023 23:45	12.1	0.9	WSW	1024.6	0
19/12/2023 00:00	12.1	0.9	WSW	1024.3	0
19/12/2023 00:15	12.2	1.3	W	1024.1	0
19/12/2023 00:30	12.3	1.8	W	1024.1	0
19/12/2023 00:45	12.3	2.2	WSW	1023.9	0
19/12/2023 01:00	12.3	1.8	WSW	1023.7	0
19/12/2023 01:15	12.4	1.8	W	1023.5	0
19/12/2023 01:30	12.3	2.2	W	1023.6	0
19/12/2023 01:45	12.3	2.2	W	1023.4	0
19/12/2023 02:00	12.2	1.3	W	1023.4	0.2
19/12/2023 02:15	12.1	1.3	W	1023.2	0
19/12/2023 02:30	12.1	0.9	W	1023.3	0
19/12/2023 02:45	12.1	0.9	W	1023.2	0
19/12/2023 03:00	12.1	0.9	W	1022.9	0
19/12/2023 03:15	12.1	0.9	WSW	1022.6	0
19/12/2023 03:30	12.1	1.3	W	1022.4	0
19/12/2023 03:45	12.1	1.3	W	1022	0
19/12/2023 04:00	12.1	1.3	W	1021.9	0
19/12/2023 04:15	12.1	1.3	WSW	1021.7	0
19/12/2023 04:30	12.1	1.3	W	1021.4	0
19/12/2023 04:45	12.1	0.9	W	1021.2	0
19/12/2023 05:00	12.1	1.3	WSW	1021.2	0
19/12/2023 05:15	12.1	1.3	W	1021.1	0.2
19/12/2023 05:30	12.1	0.9	W	1020.9	0
19/12/2023 05:45	12.1	0.9	W	1020.7	0.4
19/12/2023 06:00	12.1	0.9	W	1020.6	0.2
19/12/2023 06:15	12.2	0.9	W	1020.5	0
19/12/2023 06:30	12.1	0.9	W	1020.3	0.2
19/12/2023 06:45	12.2	0.9	WSW	1020.2	0
19/12/2023 07:00	12.2	0.9	W	1020.1	0
19/12/2023 07:15	12.3	1.3	W	1019.8	0.2
19/12/2023 07:30	12.3	1.3	W	1019.7	0
19/12/2023 07:45	12.3	1.3	W	1019.5	0

19/12/2023 08:00	12.3	0.9	W	1019.3	0.2
19/12/2023 08:15	12.3	0.9	W	1019.3	0
19/12/2023 08:30	12.3	0.9	W	1019.3	0.2
19/12/2023 08:45	12.1	1.3	W	1019.1	0.2
19/12/2023 09:00	12.1	0.4	W	1019	0.4
19/12/2023 09:15	12.2	0.9	WSW	1019	0.2
19/12/2023 09:30	12.1	0.4	W	1018.8	0
19/12/2023 09:45	12.1	0.9	WSW	1018.6	0.4
19/12/2023 10:00	12	0.9	WSW	1018.7	0.8
19/12/2023 10:15	12	1.3	W	1018.7	0.8
19/12/2023 10:30	11.9	2.2	WSW	1018.6	0.8
19/12/2023 10:45	12.1	2.2	WSW	1018.5	0.6
19/12/2023 11:00	12	1.8	WSW	1018.3	0.8
19/12/2023 11:15	11.9	1.8	WSW	1018	0.6
19/12/2023 11:30	11.9	1.3	WSW	1017.9	0.6
19/12/2023 11:45	11.1	1.8	NNW	1018.2	1
19/12/2023 12:00	10.8	1.3	NNW	1018	0.4
19/12/2023 12:15	10.7	1.8	NNW	1018.3	0.2
19/12/2023 12:30	10.7	1.8	NNW	1018.3	0.4
19/12/2023 12:45	10.6	1.3	NW	1018.2	0
19/12/2023 13:00	10.6	1.3	NNW	1018.5	0.2
19/12/2023 13:15	10.5	0.9	NW	1018.6	0.2
19/12/2023 13:30	10.4	0.4	NW	1018.8	0.2
19/12/2023 13:45	10.4	0.4	NW	1019.1	0.2
19/12/2023 14:00	10.3	0.4	NW	1019	0
19/12/2023 14:15	10.3	0.4	NW	1018.8	0.2
19/12/2023 14:30	10.4	0	NW	1019	0
19/12/2023 14:45	10.3	0.4	W	1019.1	0
19/12/2023 15:00	10.2	0.4	W	1019.2	0
19/12/2023 15:15	10.1	0.4	W	1019.4	0.2
19/12/2023 15:30	10.1	0.4	W	1019.6	0
19/12/2023 15:45	10.1	0.4	W	1019.9	0
19/12/2023 16:00	10	0.9	W	1020.1	0
19/12/2023 16:15	9.9	0.9	W	1020.4	0
19/12/2023 16:30	9.9	0.4	W	1020.6	0
19/12/2023 16:45	9.8	0.9	W	1020.9	0
19/12/2023 17:00	9	1.8	NW	1021.6	0
19/12/2023 17:15	8.7	1.3	NNW	1021.8	0
19/12/2023 17:30	8.6	0.4	NW	1021.8	0
19/12/2023 17:45	8.3	0.4	W	1021.9	0
19/12/2023 18:00	8.1	0.4	W	1022.2	0
19/12/2023 18:15	7.9	0.9	W	1022.5	0
19/12/2023 18:30	7.7	0.9	W	1022.8	0
19/12/2023 18:45	7.4	0.4	W	1022.9	0
19/12/2023 19:00	7	0.4	W	1023	0
19/12/2023 19:15	6.7	0.4	W	1022.9	0
19/12/2023 19:30	6.4	0	W	1023.2	0
19/12/2023 19:45	6.1	0	W	1023.2	0
19/12/2023 20:00	5.9	0.4	W	1023.3	0
19/12/2023 20:15	6	0.9	W	1023.5	0
19/12/2023 20:30	5.9	0.9	W	1023.5	0
19/12/2023 20:45	5.8	0.9	W	1023.6	0
19/12/2023 21:00	5.7	0.9	W	1023.7	0
19/12/2023 21:15	5.8	0.9	W	1023.9	0
19/12/2023 21:30	5.7	0.9	W	1023.9	0
19/12/2023 21:45	5.6	0.9	W	1024.1	0
19/12/2023 22:00	5.5	0.9	W	1023.9	0
19/12/2023 22:15	5.5	1.3	W	1023.8	0
19/12/2023 22:30	5.7	1.3	W	1023.7	0
19/12/2023 22:45	5.7	1.3	W	1023.6	0

19/12/2023 23:00	5.8	0.9	W	1023.7	0
19/12/2023 23:15	5.8	0.9	WSW	1023.9	0
19/12/2023 23:30	6.2	1.3	W	1024	0
19/12/2023 23:45	6.1	0.9	W	1024	0
20/12/2023 00:00	5.9	0.9	W	1023.9	0
20/12/2023 00:15	5.8	0.9	W	1024.1	0
20/12/2023 00:30	5.8	0.9	WSW	1024.1	0
20/12/2023 00:45	5.9	1.3	WSW	1023.9	0
20/12/2023 01:00	6	0.9	WSW	1023.9	0
20/12/2023 01:15	5.9	0.4	WSW	1023.7	0
20/12/2023 01:30	6.1	0.9	WSW	1023.6	0
20/12/2023 01:45	6.2	0.9	W	1023.6	0
20/12/2023 02:00	6.3	1.3	W	1023.5	0
20/12/2023 02:15	6.3	1.3	W	1023.6	0
20/12/2023 02:30	6.3	0.9	W	1023.6	0
20/12/2023 02:45	6.3	1.3	W	1023.6	0
20/12/2023 03:00	6.3	1.3	W	1023.6	0
20/12/2023 03:15	6.2	1.3	W	1023.6	0
20/12/2023 03:30	6.3	1.3	W	1023.4	0
20/12/2023 03:45	6.4	0.9	WSW	1023.3	0
20/12/2023 04:00	6.3	0.9	W	1023.5	0
20/12/2023 04:15	6.4	0.9	WSW	1023.4	0
20/12/2023 04:30	6.3	0.9	WSW	1023.4	0
20/12/2023 04:45	6.3	0.9	WSW	1023.2	0
20/12/2023 05:00	6.3	1.3	WSW	1023.3	0
20/12/2023 05:15	6.4	1.3	W	1023.3	0
20/12/2023 05:30	6.4	0.9	WSW	1023.4	0
20/12/2023 05:45	6.5	0.9	WSW	1023.4	0
20/12/2023 06:00	6.8	0.9	WSW	1023.1	0
20/12/2023 06:15	6.9	0.9	W	1023	0
20/12/2023 06:30	7.1	0.9	W	1023	0
20/12/2023 06:45	7.5	0.9	W	1022.9	0
20/12/2023 07:00	7.7	1.3	WSW	1022.9	0
20/12/2023 07:15	7.8	1.3	W	1022.8	0
20/12/2023 07:30	7.8	1.3	WSW	1022.7	0
20/12/2023 07:45	8.1	1.3	WSW	1022.5	0
20/12/2023 08:00	8.4	1.3	W	1022.5	0
20/12/2023 08:15	8.6	1.8	W	1022.6	0
20/12/2023 08:30	8.7	2.2	W	1022.8	0
20/12/2023 08:45	8.7	1.8	WSW	1023	0
20/12/2023 09:00	8.8	2.2	WSW	1022.9	0
20/12/2023 09:15	8.8	1.8	WSW	1022.7	0
20/12/2023 09:30	8.9	1.3	W	1022.4	0
20/12/2023 09:45	9.2	1.8	WSW	1022.4	0
20/12/2023 10:00	9.4	1.8	W	1022.6	0
20/12/2023 10:15	9.7	1.3	W	1022.8	0
20/12/2023 10:30	9.7	1.3	WSW	1022.7	0
20/12/2023 10:45	9.7	1.8	WSW	1022.7	0
20/12/2023 11:00	9.7	2.2	WSW	1022.2	0
20/12/2023 11:15	9.6	1.3	WSW	1022.1	0
20/12/2023 11:30	9.8	1.3	WSW	1021.5	0
20/12/2023 11:45	9.9	1.3	W	1021.4	0
20/12/2023 12:00	10.1	1.3	WSW	1020.8	0
20/12/2023 12:15	10.1	1.3	WSW	1020.8	0
20/12/2023 12:30	10.2	0.9	W	1020.5	0
20/12/2023 12:45	10.4	1.3	W	1020.3	0
20/12/2023 13:00	10.3	1.8	WSW	1019.9	0
20/12/2023 13:15	10.2	1.8	WSW	1019.5	0
20/12/2023 13:30	10.3	1.8	W	1019.4	0
20/12/2023 13:45	10.3	1.8	WSW	1019.2	0

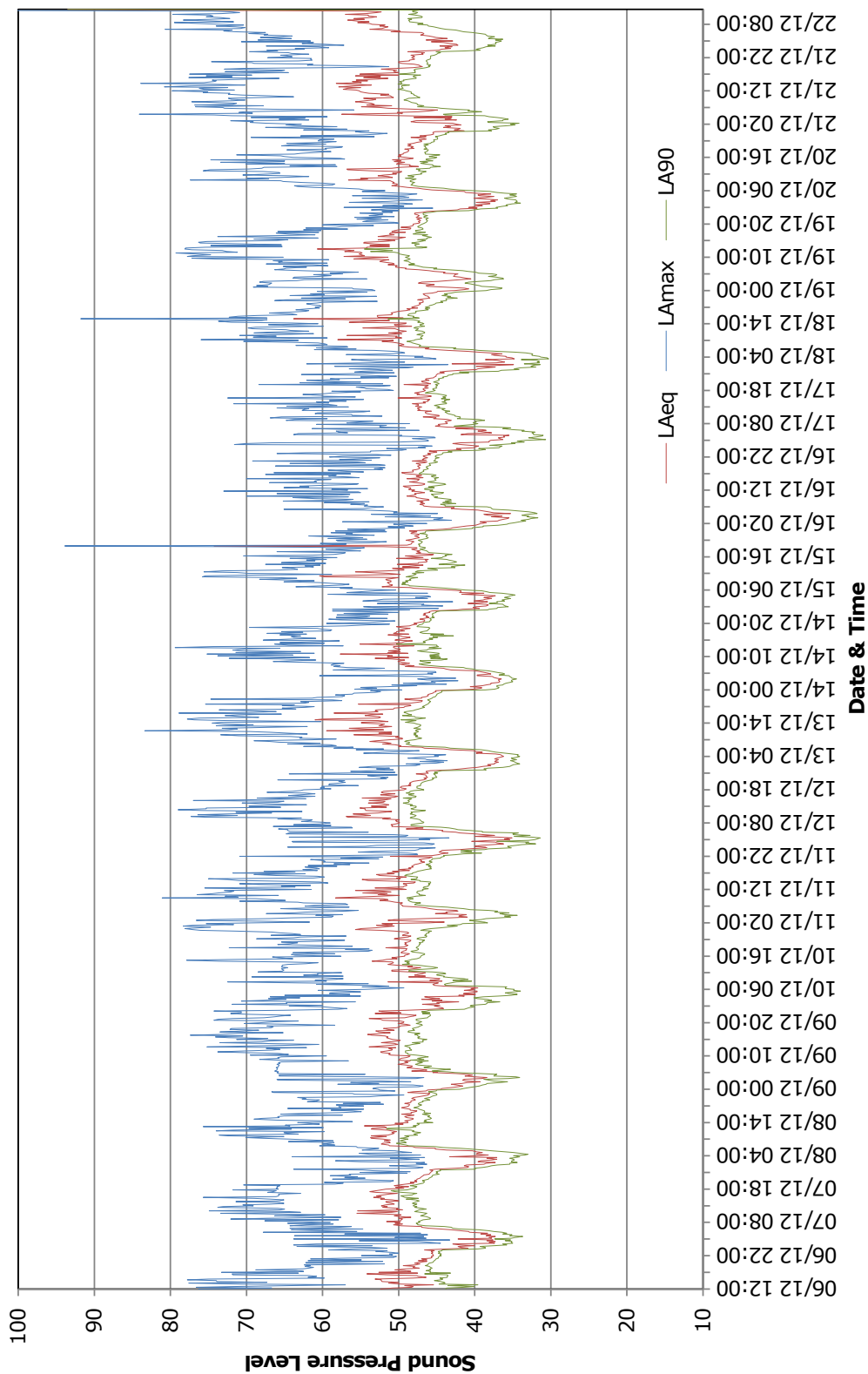
20/12/2023 14:00	10.4	1.3	WSW	1018.9	0
20/12/2023 14:15	10.6	1.3	WSW	1018.6	0
20/12/2023 14:30	10.4	0.9	WSW	1018.6	0
20/12/2023 14:45	10.4	0.9	W	1018.2	0
20/12/2023 15:00	10.4	1.3	W	1018.1	0
20/12/2023 15:15	10.3	0.4	W	1018.2	0
20/12/2023 15:30	10.3	0.9	W	1018.3	0
20/12/2023 15:45	10.6	1.3	W	1018.2	0
20/12/2023 16:00	10.8	1.3	W	1018.3	0
20/12/2023 16:15	10.9	1.8	W	1018.2	0
20/12/2023 16:30	10.9	1.8	W	1018.1	0
20/12/2023 16:45	10.8	1.8	W	1017.8	0
20/12/2023 17:00	10.7	1.3	W	1017.5	0
20/12/2023 17:15	10.8	1.8	W	1017.7	0
20/12/2023 17:30	10.9	2.2	W	1017.8	0
20/12/2023 17:45	10.8	1.8	W	1017.5	0
20/12/2023 18:00	10.8	1.8	W	1017.5	0
20/12/2023 18:15	10.7	1.8	W	1017.5	0
20/12/2023 18:30	10.7	2.2	W	1017.5	0
20/12/2023 18:45	10.8	2.2	W	1017.4	0
20/12/2023 19:00	10.8	2.2	W	1017.2	0
20/12/2023 19:15	10.8	2.2	W	1016.9	0
20/12/2023 19:30	10.8	1.8	W	1017.2	0
20/12/2023 19:45	10.8	1.8	W	1017.1	0
20/12/2023 20:00	10.8	1.8	W	1016.8	0
20/12/2023 20:15	10.8	1.3	W	1016.7	0
20/12/2023 20:30	10.6	1.8	WSW	1016.6	0
20/12/2023 20:45	10.6	1.3	W	1016.2	0
20/12/2023 21:00	10.6	1.3	W	1016.2	0
20/12/2023 21:15	10.8	1.3	W	1015.8	0
20/12/2023 21:30	10.8	1.3	W	1015.8	0
20/12/2023 21:45	10.8	1.8	W	1015.5	0
20/12/2023 22:00	10.9	1.3	WSW	1015.3	0
20/12/2023 22:15	10.9	1.3	W	1015.2	0
20/12/2023 22:30	11.1	1.3	W	1015	0
20/12/2023 22:45	11.4	1.8	W	1014.9	0
20/12/2023 23:00	11.5	1.3	W	1014.9	0
20/12/2023 23:15	11.1	0.9	WSW	1014.8	0
20/12/2023 23:30	11.4	1.8	WSW	1014.4	0
20/12/2023 23:45	11.6	1.8	WSW	1014.2	0
21/12/2023 00:00	11.7	1.8	W	1013.7	0
21/12/2023 00:15	11.6	2.2	W	1013.7	0
21/12/2023 00:30	11.4	2.2	W	1013.8	0
21/12/2023 00:45	11.4	2.2	W	1013.2	0
21/12/2023 01:00	11.4	1.8	W	1012.8	0
21/12/2023 01:15	11.7	2.2	W	1012.5	0
21/12/2023 01:30	11.9	2.2	W	1012.4	0
21/12/2023 01:45	12.1	2.7	W	1012.2	0
21/12/2023 02:00	12	3.1	W	1012	0
21/12/2023 02:15	11.9	2.2	W	1011.9	0
21/12/2023 02:30	12	2.2	W	1011.8	0
21/12/2023 02:45	11.8	1.8	W	1011.6	0
21/12/2023 03:00	12.1	2.2	W	1011.3	0
21/12/2023 03:15	12.1	2.7	W	1011.3	0
21/12/2023 03:30	12.1	2.2	W	1010.8	0
21/12/2023 03:45	12.2	3.1	W	1010.6	0
21/12/2023 04:00	12.3	4	W	1010.4	0
21/12/2023 04:15	12.3	4	W	1010.5	0
21/12/2023 04:30	12.2	3.1	W	1010.5	0
21/12/2023 04:45	12.2	3.1	W	1010.4	0

21/12/2023 05:00	11.8	2.2	W	1010.1	0
21/12/2023 05:15	12	2.2	W	1010.6	0
21/12/2023 05:30	12.2	2.2	W	1010.4	0
21/12/2023 05:45	12.3	2.7	W	1010	0
21/12/2023 06:00	12.3	3.1	W	1009.9	0
21/12/2023 06:15	12.6	3.6	W	1009.9	0
21/12/2023 06:30	12.6	3.6	W	1009.8	0
21/12/2023 06:45	12.6	3.1	W	1009.5	0
21/12/2023 07:00	12.7	4	W	1009.6	0
21/12/2023 07:15	12.6	3.6	W	1009.7	0
21/12/2023 07:30	12.6	3.6	W	1009.9	0
21/12/2023 07:45	12.6	3.6	WSW	1009.8	0
21/12/2023 08:00	12.4	4	W	1009.8	0
21/12/2023 08:15	12.3	4	W	1010.1	0
21/12/2023 08:30	12.3	3.1	W	1010	0
21/12/2023 08:45	12.2	3.6	WSW	1009.8	0
21/12/2023 09:00	11.8	3.1	W	1009.9	0
21/12/2023 09:15	11.6	2.7	W	1009.6	0
21/12/2023 09:30	11.8	2.7	W	1009.1	0
21/12/2023 09:45	12.1	2.7	W	1009.3	0
21/12/2023 10:00	12.4	3.6	W	1009.5	0
21/12/2023 10:15	12.6	2.2	W	1009.7	0
21/12/2023 10:30	12.8	3.1	W	1009.7	0
21/12/2023 10:45	12.9	3.1	W	1009	0
21/12/2023 11:00	13.2	3.6	W	1009	0
21/12/2023 11:15	13.2	3.1	W	1009	0
21/12/2023 11:30	13.2	3.6	W	1008.7	0
21/12/2023 11:45	13.2	4	W	1008.7	0
21/12/2023 12:00	13.3	4	W	1008.5	0
21/12/2023 12:15	13.4	3.6	W	1008.7	0
21/12/2023 12:30	13.4	4.5	W	1008.8	0
21/12/2023 12:45	13.5	3.6	W	1008.7	0
21/12/2023 13:00	13.6	3.6	W	1008.7	0
21/12/2023 13:15	13.4	4	W	1008.6	0
21/12/2023 13:30	13.2	4	W	1008.5	0
21/12/2023 13:45	13.3	4	W	1008.6	0
21/12/2023 14:00	13.5	4	W	1008.5	0
21/12/2023 14:15	13.6	4	W	1008.6	0
21/12/2023 14:30	13.6	4	W	1008.8	0
21/12/2023 14:45	13.3	3.6	W	1008.9	0
21/12/2023 15:00	13.1	3.1	W	1009.1	0
21/12/2023 15:15	13.1	2.7	W	1009.1	0
21/12/2023 15:30	12.9	3.1	W	1009.6	0
21/12/2023 15:45	12.2	2.2	W	1009.9	0
21/12/2023 16:00	11.8	2.2	W	1010.1	0
21/12/2023 16:15	12.2	3.6	W	1010.3	0
21/12/2023 16:30	12.1	2.7	W	1010.2	0
21/12/2023 16:45	12.2	2.2	W	1010.5	0
21/12/2023 17:00	12.2	2.2	W	1010.4	0
21/12/2023 17:15	12.3	2.7	W	1010.7	0
21/12/2023 17:30	12.4	3.1	W	1011.3	0
21/12/2023 17:45	12.4	2.7	W	1011.5	0
21/12/2023 18:00	12.3	2.7	W	1011.4	0
21/12/2023 18:15	11.8	1.3	W	1011.8	0
21/12/2023 18:30	11.6	1.3	W	1011.9	0
21/12/2023 18:45	11.4	1.3	W	1012.4	0
21/12/2023 19:00	11.4	1.3	W	1012.8	0
21/12/2023 19:15	11.3	1.8	W	1012.6	0
21/12/2023 19:30	11.4	1.8	W	1012.7	0
21/12/2023 19:45	11.4	2.7	W	1012.3	0

21/12/2023 20:00	11.4	2.7	W	1012.4	0
21/12/2023 20:15	11.2	2.7	W	1012.7	0
21/12/2023 20:30	10.9	2.2	W	1013	0
21/12/2023 20:45	10.8	2.2	W	1013.1	0
21/12/2023 21:00	10.7	2.2	W	1013.2	0
21/12/2023 21:15	10.7	2.7	W	1013.5	0
21/12/2023 21:30	10.7	2.2	W	1013.9	0
21/12/2023 21:45	10.7	2.2	W	1013.3	0
21/12/2023 22:00	10.7	2.2	W	1013.7	0
21/12/2023 22:15	10.7	2.2	W	1014	0
21/12/2023 22:30	10.7	2.2	W	1013.9	0
21/12/2023 22:45	10.6	2.2	W	1013.7	0
21/12/2023 23:00	10.7	2.7	W	1014.1	0
21/12/2023 23:15	10.8	2.7	W	1014.2	0
21/12/2023 23:30	10.8	2.2	W	1014.3	0
21/12/2023 23:45	10.9	2.2	W	1014.1	0
22/12/2023 00:00	10.8	2.2	W	1014	0
22/12/2023 00:15	10.9	2.2	W	1014	0
22/12/2023 00:30	11	2.2	W	1013.9	0
22/12/2023 00:45	11.3	2.2	W	1014.2	0
22/12/2023 01:00	10.7	2.2	W	1014.1	0
22/12/2023 01:15	10.7	2.2	W	1014.1	0
22/12/2023 01:30	10.9	2.2	W	1014	0
22/12/2023 01:45	11.2	2.7	W	1013.9	0
22/12/2023 02:00	11.3	2.2	W	1013.9	0
22/12/2023 02:15	11.5	2.2	W	1013.9	0
22/12/2023 02:30	11.4	2.7	W	1013.8	0
22/12/2023 02:45	11.4	2.7	W	1013.9	0
22/12/2023 03:00	11.6	2.7	W	1013.8	0
22/12/2023 03:15	11.6	2.7	W	1013.5	0
22/12/2023 03:30	11.6	2.7	W	1013.5	0
22/12/2023 03:45	11.6	2.7	W	1013.6	0
22/12/2023 04:00	11.6	2.7	W	1013.6	0
22/12/2023 04:15	11.7	2.7	W	1013.4	0
22/12/2023 04:30	11.7	2.7	W	1013.3	0
22/12/2023 04:45	11.8	2.7	W	1013.2	0
22/12/2023 05:00	11.8	3.1	W	1013.1	0
22/12/2023 05:15	11.8	3.1	W	1013.1	0
22/12/2023 05:30	11.8	3.1	W	1013	0
22/12/2023 05:45	11.8	3.1	W	1013.1	0
22/12/2023 06:00	12	3.6	W	1013.3	0
22/12/2023 06:15	11.9	3.6	W	1013.2	0
22/12/2023 06:30	11.9	3.6	W	1013.1	0
22/12/2023 06:45	11.7	3.6	W	1013.2	0
22/12/2023 07:00	11.6	3.1	W	1013.4	0
22/12/2023 07:15	11.6	3.6	W	1013.6	0
22/12/2023 07:30	11.5	3.6	W	1013.9	0
22/12/2023 07:45	11	3.6	W	1013.9	0
22/12/2023 08:00	10.6	3.6	W	1013.9	0
22/12/2023 08:15	11	4.5	W	1013.9	0
22/12/2023 08:30	11.1	4	W	1013.9	0
22/12/2023 08:45	10.9	3.6	W	1014.2	0
22/12/2023 09:00	11.1	3.6	W	1014.6	0
22/12/2023 09:15	11.3	3.6	W	1014.6	0
22/12/2023 09:30	11.3	3.1	W	1014.7	0
22/12/2023 09:45	11.5	3.6	W	1014.7	0
22/12/2023 10:00	11.7	3.1	W	1014.8	0
22/12/2023 10:15	11.7	4	W	1015.1	0
22/12/2023 10:30	11.7	3.6	W	1015.2	0
22/12/2023 10:45	11.7	3.1	W	1015.3	0

APPENDIX D – BACKGROUND NOISE MEASUREMENT RESULTS

**Figure C1: Environmental Noise Levels, 55 Foxbury Lane, Gosport,
6 - 22 December 2023**



APPENDIX E – HELICOPTER TESTING DURING SURVEY PERIOD

I have the following flight times from our pilot:

14/12 1245-1305
Chinook hovering over site

15/12 0910-0920
Chinook hovering over site

15/12 1125 -1255
Chinook would have hovered over site, flown away for a flight and then come back so the noise would have likely been at the beginning and at the end of that time frame.

18/12 0930 -1440
During this time there was two flights, one after the other. Both would have hovered over site, flown away for a flight and then come back.

19/12 1125 -1145
Chinook would have hovered over site, flown away for a flight and then come back so the noise would have likely been at the beginning and at the end of that time frame.

APPENDIX F – NOISE DATA FOR PROPOSED PLANT

Exhaust Fan

Full power								
INTERNAL SOUND POWER LEVEL (re 1 picowatt)								
BAND HZ :	63	125	250	500	1k	2k	4k	8k
dB	107	104	102	98	94	89	86	82
Total internal sound power level = 110 dB								
OPEN INLET SOUND PRESSURE LEVEL - NEAR FIELD AT 1 METRE								
BAND HZ :	63	125	250	500	1k	2k	4k	8k
dBA	70	80	88	90	89	85	82	76
Over all A weighted sound pressure level from Fan Inlet = 95 dBA								
OPEN OUTLET SOUND PRESSURE LEVEL - NEAR FIELD AT 1 METRE								
BAND HZ :	63	125	250	500	1k	2k	4k	8k
dBA	71	81	89	91	90	86	83	77
Over all A weighted sound pressure level from Fan Outlet = 96 dBA								
BREAK OUT THROUGH 5mm CASING - FREE FIELD AT 1 METRE FROM SURFACE (Near Field)								
BAND HZ :	63	125	250	500	1k	2k	4k	8k
dBA	60	66	67	69	68	64	61	53
Over all A weighted sound pressure level from Casing (Not Lagged) = 75 dBA								
Motor noise is NOT included in the figures above.								
Eco-mode								
Sound pressure levels are based on Free Field Hemispherical radiation. An estimate of the Near field effect is included where stated.								
INTERNAL SOUND POWER LEVEL (re 1 picowatt)								
BAND HZ :	63	125	250	500	1k	2k	4k	8k
dB	64	61	63	56	53	46	43	36
Total internal sound power level = 68 dB								
OPEN INLET SOUND PRESSURE LEVEL - NEAR FIELD AT 1 METRE								
BAND HZ :	63	125	250	500	1k	2k	4k	8k
dBA	27	37	49	48	48	42	39	30
Over all A weighted sound pressure level from Fan Inlet = 54 dBA								
OPEN OUTLET SOUND PRESSURE LEVEL - NEAR FIELD AT 1 METRE								
BAND HZ :	63	125	250	500	1k	2k	4k	8k
dBA	28	38	50	49	49	43	40	31
Over all A weighted sound pressure level from Fan Outlet = 55 dBA								
BREAK OUT THROUGH 5mm CASING - FREE FIELD AT 1 METRE FROM SURFACE (Near Field)								
BAND HZ :	63	125	250	500	1k	2k	4k	8k
dBA	17	23	28	27	27	21	18	7
Over all A weighted sound pressure level from Casing (Not Lagged) = 33 dBA								
Motor noise is NOT included in the figures above.								

Circulating Pump – 62 dBA @ 1m;

Fan Motor – 75 dBA @ 1m on full power;

In the absence of manufacturer's data, break-out from Scrubber Casing assumed to be as per the fan casing.

APPENDIX G – NOISE MITIGATION DETAILS

Minimum Insertion Loss for Exhaust Fan Attenuator

Minimum Insertion Loss for Exhaust Fan Attenuator, dB							
63	125	250	500	1k	2k	4k	8k
3	7	13	23	23	22	12	10

Lagging to Ductwork

The extent of the lagging relates to the ductwork from the scrubber to the elevated section and along 50% of the length of the ductwork to Building 118 – see Figure 4.

Minimum Insertion Loss, Ductwork Lagging, Min 50 mm Rock Wool (100 kg/m ³)							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
3	5	12	18	29	34	46	38