

# **Environmental Impact Assessment Report**

Teindland Wind Farm

Volume 3

TA A9.1: Survey Record Sheets

Document prepared by Envams Ltd for: Teindland Wind Farm Ltd

April 2025







Project Number	0280	Project Name	Teindland Wind Farm
Location Number	1	Installed By	ET & AB
Grid Reference	328110, 856341	Location Name	Teindland Wells
Start Date	02/10/24	Start Time	11:50

Equipment Details	Make/Model	Serial No.		
Sound Level Meter:	NL-52	00976188		
Calibrator:	B&K Type 4231	3020922		
Source of Equipment:		Metrica		
Meter Timestamp (Start/End, GMT/BST):		Start BST		

Description of Location	Northern point of amenity space as agreed with EHO. Away from variable noise sources but with direct line of site to the Development area			
Distance from Façade	>10m			
Noise Sources Observed	Birds in trees, resident activity, residents' animals (dog barks, chickens and ducks)			
Notes	Weather during install: 6 oktas, dry, clear (not misty), still with slight breeze from various directions.			

## Set-Up / Visit 1

Date	02/10/24	Time	11:30
Filename	0101	Calibration Level	94.0
Range	20 - 130	Measurement Index	1
Frequency Weighting	Α	Weather Monitoring?	N
Additional Notes			













## CERTIFICATE OF CALIBRATION



Certificate Number: UCRT23/2106

Page

Approved Signatory

K. Mistry



0653

Pages

Date of Issue: 24 August 2023

Calibrated at & Certificate issued by: ANV Measurement Systems

Beaufort Court 17 Roebuck Way

Customer

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: info@noise-and-vibration.co.uk
Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Metrica Environmental Consulting Ltd

Popeshead Court Offices

Peter Lane York

North Yorkshire

Order No. NOISE/20230822

Description Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Identification Manufacturer Instrument Type Serial No. / Version
Rion Sound Level Meter NL-52 00976188

Firmware 2.0 Rion 76305 Rion Pre Amplifier NH-25 Microphone UC-59 12082 Rion NC-75 34334830 Calibrator Rion NC-75-022

Calibrator adaptor type if applicable
Performance Class 1

Test Procedure TP 10. SLM 61672-3:2013

Procedures from IEC 61672-3:2013 were used to perform the periodic tests.

Type Approved to IEC 61672-1:2013 Yes

If YES above there is public evidence that the SLM has successfully completed the

applicable pattern evaluation tests of IEC 61672-2:2013

Date Received 23 August 2023 ANV Job No. UKAS23/08589

Date Calibrated 24 August 2023

The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organisation responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 specifications of IEC 61672-1:2013.

Previous Certificate Dated Certificate No. Laboratory 07 February 2023 UCRT23/1167 0653

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Project Number	0280	Project Name	Teindland Wind Farm
Location Number	2	Installed By	ET & AB
Grid Reference	330257, 854535	Location Name	Hillhouse
Start Date	01/10/24	Start Time	15:20

Equipment Details	Make/Model	Serial No.
Sound Level Meter: NL-52		00721026
Calibrator:	B&K Type 4231	3020922
Source of Equipment:		Metrica
Meter Timestamp (Start/E	ind, GMT/BST):	Start BST

Description of Location	Eastern side of house on edge of amenity space as agreed with EHO. Away from variable noise sources such as boiler unit and water pump but with direct line of site to the Development area			
Distance from Façade	>10m			
Noise Sources Observed	Birds in trees, resident activity, distant traffic on road and occasional train pass – confirmed by residents to be indistinguishable from sound environment on western side during periods from 6pm – 7am.			
Notes	Weather during install: 6 - 7 oktas, light drizzle, clear (not misty), wind less than 5 m/s from various directions.			

## Set-Up / Visit 1

Date	01/10/24	Time	15:00
Filename	0201	Calibration Level	94.0
Range	20 - 130	Measurement Index	1
Frequency Weighting	А	Weather Monitoring?	Y, rain gauge
Additional Notes			













## CERTIFICATE OF CALIBRATION





0653

#### Date of Issue: 06 December 2022

Calibrated at & Certificate issued by:

**ANV Measurement Systems** 

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Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Certificate Number: UCRT22/2443

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Customer Metrica Environmental Consulting

15 York Street Dunnington

York

YO19 5PN

Order No. 0141/MS/20221202

Description Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Identification Manufacturer Instrument Type Serial No. / Version

NL-52 Rion Sound Level Meter 00721026 Rion Firmware 2.1 Rion Pre Amplifier NH-25 22132 Rion Microphone UC-59 21976 Rion Calibrator NC-75 35024443

Calibrator adaptor type if applicable NC-74-002

Performance Class 1

Test Procedure TP 10. SLM 61672-3:2013

Procedures from IEC 61672-3:2013 were used to perform the periodic tests.

Type Approved to IEC 61672-1:2013 Yes

If YES above there is public evidence that the SLM has successfully completed the

applicable pattern evaluation tests of IEC 61672-2:2013

Date Received 05 December 2022 ANV Job No. UKAS22/12758

Date Calibrated 06 December 2022

The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organisation responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 specifications of IEC 61672-1:2013.

Previous Certificate Dated Certificate No. Laboratory
Initial Calibration

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## **CERTIFICATE OF CALIBRATION**

Certificate Number UCRT22/2443

UKAS Accredited Calibration Laboratory No. 0653

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Sound Level Meter Instruction manual and data used to adjust the sound levels indicated.										
SLM instruction manual titl	2 Description	on for IEC	C 61672	:-1						
SLM instruction manual ref / issue		No. 56034 21-03			Source	Rion				
Date provided or internet of	lownload date	19 N	1arch 202	21						
·	Case Corrections	Wind Shi	eld Corre	ections	Mic Pressure to Free Field Corrections			กร		
Uncertainties provided	Yes		Yes				Yes			
Total expanded uncertaint	ies within the require	ements of	IEC 6167	72-1:20	13 YES					
Specified or equivalent Ca	librator	S	pecified		_					
Customer or Lab Calibrato	r	Custom	ers Calib	orator						
Calibrator adaptor type if a	pplicable	NO	C-74-002							
Calibrator cal. date			cember 2							
Calibrator cert. number		UCF	RT22/244	11						
Calibrator cal cert issued b	y Lab		0653							
Calibrator SPL @ STP		93.	97	dB	Calibration re	feren	ce soun	d pres	sure le	vel
Calibrator frequency		1000	0.00		Calibration ch					
Reference level range		Sin	gle	dB			•	,		
Accessories used or corre	cted for during calib			nsion Ca	able & Wind S	hield \	WS-15			
Note - The Extension Cabl	e was used betwee	n the SLM	and the	pre-amp	o for this calib	ration				
Environmental conditions during tests		Start			End				_	
	Temperature	22.01		23.74	±	0.30	°C			
	Humidity	Humidity 37.3			50.4	±	3.00	%RH		
	Ambient Pressure	101	.27		101.28	±	0.03	kPa		
Indication at the Calibration	n Check Frequency									
Initial indicated level	94.0	dB	Adj	usted in	dicated level		94.0		dB	
Uncertainty of calibrator us	sed for Indication at	the Calibra	ation Che	eck Fred	quency ±		0.10		dB	
Self Generated Noise										
Microphone installed -	Less Than 16	6.5 dB	A Wei	ghting			_			
Microphone replaced with	electrical input devi	ce -	UR =	Under	Range indicat	ed				
Weighting	Α		С		Z	<u>.</u>				
10	.4 dB UR	14.0	dB	UR	19.4	dB	UR			
Self Generated Noise repo	orted for information	only and r	not used	to asses	ss conforman	ce to a	a require	ement		

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

<u>Additional Comments</u> The results on this certificate only relate to the items calibrated as identified above.

None END .....

Calibrated by: C. Hirlav R 3



Project Number	0280	Project Name	Teindland Wind Farm
Location Number	3	Installed By	ET & AB
Grid Reference	327322, 851790	Location Name	Sauchenbush
Start Date	02/10/24	Start Time	10:40

Equipment Details	Make/Model	Serial No.
Sound Level Meter: NL-52		00586906
Calibrator:	B&K Type 4231	3020922
Source of Equipment:		Metrica
Meter Timestamp (Start/End, GMT/BST):		Start BST

Description of Location	North-western edge of amenity space as agreed with EHO. Away from variable noise sources such as boiler unit with direct line of site to the Development area
Distance from Façade	>10m
Noise Sources Observed	Birds in trees, resident activity, distant traffic on road, sheep in fields nearby, dogs barking
Notes	Weather during install: 8 oktas, dry, not misty, still with slight breeze from various directions.

## Set-Up / Visit 1

Date	02/10/24	Time	10:30
Filename	0301	Calibration Level	94.0
Range	20 - 130	Measurement Index	1
Frequency Weighting	А	Weather Monitoring?	Y, rain gauge
Additional Notes			













## CERTIFICATE OF CALIBRATION





0653

### Date of Issue: 24 August 2023

Calibrated at & Certificate issued by:

**ANV Measurement Systems** 

Beaufort Court 17 Roebuck Way

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Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Certificate Number: UCRT23/2104

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K. Mistry				

Customer

Metrica Environmental Consulting Ltd

Popeshead Court Offices

Peter Lane

York

North Yorkshire

**YO1 8SU** 

Order No.

NOISE/20230822

Description

Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Identification

ManufacturerInstrumentTypeSerial No. / VersionRionSound Level MeterNL-5200586906

Rion **Firmware** 2.0 Rion Pre Amplifier NH-25 87025 Rion Microphone UC-59 13364 Rion Calibrator NC-75 34334830 Calibrator adaptor type if applicable NC-75-022

Performance Class

s 1

Test Procedure

TP 10. SLM 61672-3:2013

Procedures from IEC 61672-3:2013 were used to perform the periodic tests.

Type Approved to IEC 61672-1:2013 Yes

If YES above there is public evidence that the SLM has successfully completed the

applicable pattern evaluation tests of IEC 61672-2:2013

Date Received

23 August 2023

ANV Job No.

UKAS23/08589

Date Calibrated

24 August 2023

The sound level meter submitted for testing has successfully completed the periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organisation responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 specifications of IEC 61672-1:2013.

**Previous Certificate** 

Dated

Certificate No.

Laboratory 0653

26 May 2023

UCRT23/1713

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