

Appendix G

Visit	Initials	Borehole Reference	Monitoring Date	Observations	Barometric Pressure - Start (mb)	Barometric Pressure - Finish (mb)	Barometric Pressure Trend	PID ppm	CH ₄ Peak %V/V	CH ₄ Steady %V/V	CO ₂ Peak %V/V	CO ₂ Steady %V/V	O ₂ %V/V	CO ppm	H ₂ S ppm	Flow Peak l/hr	Flow Steady l/hr	Q ₁₀ CH ₄ l/hr	Implied CS	Q ₁₀ CO ₂ l/hr	Implied CS	Max Q ₁₀ CH ₄ l/hr	Implied CS	Max Q ₁₀ CO ₂ l/hr	Implied CS
1	MJ	BH01	28/02/2022		1016	1016	Falling	-	0.0	0.0	0.0	0.0	17.0	0	0	0.0	0.0	0.0001	CS1	0.0001	CS1	0.0001	CS1	0.0006	CS1
2	MJ		28/04/2022		1019	1018	Falling	-	0.0	0.0	0.0	0.0	19.8	0	0	0.0	0.0	0.0001	CS1	0.0001	CS1				
3	MJ		10/05/2022		997	997	Falling	-	0.0	0.0	0.1	0.1	19.7	0	0	0.0	0.0	0.0001	CS1	0.0001	CS1				
4	MJ		27/05/2022		1008	1008	Steady	-	0.0	0.0	0.6	0.5	18.0	0	0	0.0	0.0	0.0001	CS1	0.0005	CS1				
5	MJ		24/06/2022		994	994	Falling	-	0.0	0.0	0.3	0.3	18.6	0	0	0.0	0.0	0.0001	CS1	0.0003	CS1				
6	MJ		12/07/2022		1008	1008	Steady	-	0.0	0.0	0.6	0.6	16.0	0	0	0.0	0.0	0.0001	CS1	0.0006	CS1				
1	MJ	BH02	28/02/2022		1016	1016	Falling	-	0.0	0.0	0.0	0.0	21.0	0	0	0.0	0.0	0.0001	CS1	0.0001	CS1	0.0001	CS1	0.0008	CS1
2	MJ		28/04/2022		1019	1018	Falling	-	0.0	0.0	0.5	0.5	20.1	0	0	0.0	0.0	0.0001	CS1	0.0005	CS1				
3	MJ		10/05/2022		997	997	Falling	-	0.0	0.0	0.4	0.4	20.4	0	0	0.0	0.0	0.0001	CS1	0.0004	CS1				
4	MJ		27/05/2022		1008	1008	Steady	-	0.0	0.0	0.5	0.5	20.6	0	0	0.0	0.0	0.0001	CS1	0.0005	CS1				
5	MJ		24/06/2022		994	994	Falling	-	0.0	0.0	0.7	0.7	20.0	0	0	0.0	0.0	0.0001	CS1	0.0007	CS1				
6	MJ		12/07/2022		1008	1008	Steady	-	0.0	0.0	0.8	0.8	20.0	0	0	0.0	0.0	0.0001	CS1	0.0008	CS1				
1	MJ	WS01	28/02/2022		1016	1016	Falling	-	0.0	0.0	4.1	4.1	14.2	0	0	0.0	0.0	0.0001	CS1	0.0041	CS1	0.0001	CS1	0.0046	CS1
2	MJ		28/04/2022		1019	1018	Falling	-	0.0	0.0	4.0	4.0	12.3	0	0	0.0	0.0	0.0001	CS1	0.004	CS1				
3	MJ		10/05/2022		997	997	Falling	-	0.0	0.0	3.7	3.7	12.4	0	0	0.0	0.0	0.0001	CS1	0.0037	CS1				
4	MJ		27/05/2022		1008	1008	Steady	-	0.0	0.0	4.0	4.0	11.3	0	0	0.0	0.0	0.0001	CS1	0.004	CS1				
5	MJ		24/06/2022		994	994	Falling	-	0.0	0.0	4.4	4.4	10.7	0	0	0.0	0.0	0.0001	CS1	0.0044	CS1				
6	MJ		12/07/2022		1008	1008	Steady	-	0.0	0.0	4.6	4.6	11.7	0	0	0.0	0.0	0.0001	CS1	0.0046	CS1				
1	MJ	WS02	28/02/2022		1016	1016	Falling	-	0.0	0.0	1.4	1.4	19.5	0	0	0.0	0.0	0.0001	CS1	0.0014	CS1	0.0001	CS1	0.0019	CS1
2	MJ		28/04/2022		1019	1018	Falling	-	0.0	0.0	1.5	1.5	19.2	0	0	0.0	0.0	0.0001	CS1	0.0015	CS1				
3	MJ		10/05/2022		997	997	Falling	-	0.0	0.0	1.5	1.5	19.2	0	0	0.0	0.0	0.0001	CS1	0.0015	CS1				
4	MJ		27/05/2022		1008	1008	Steady	-	0.0	0.0	1.5	1.5	19.7	0	0	0.0	0.0	0.0001	CS1	0.0015	CS1				
5	MJ		24/06/2022		994	994	Falling	-	0.0	0.0	1.9	1.9	18.2	0	0	0.0	0.0	0.0001	CS1	0.0019	CS1				
6	MJ		12/07/2022		1008	1008	Steady	-	0.0	0.0	1.9	1.9	18.8	0	0	0.0	0.0	0.0001	CS1	0.0019	CS1				
1	MJ	WS03	28/02/2022		1016	1016	Falling	-	0.0	0.0	1.4	1.4	20.1	0	0	0.0	0.0	0.0001	CS1	0.0014	CS1	0.0001	CS1	0.0043	CS1
2	MJ		28/04/2022		1019	1018	Falling	-	0.0	0.0	3.9	3.9	17.5	0	0	0.0	0.0	0.0001	CS1	0.0039	CS1				
3	MJ		10/05/2022		997	997	Falling	-	0.0	0.0	4.3	4.3	16.8	0	0	0.0	0.0	0.0001	CS1	0.0043	CS1				
4	MJ		27/05/2022		1008	1008	Steady	-	0.0	0.0	3.6	3.6	17.8	0	0	0.0	0.0	0.0001	CS1	0.0036	CS1				
5	MJ		24/06/2022		994	994	Falling	-	0.0	0.0	0.6	0.6	20.7	0	0	0.0	0.0	0.0001	CS1	0.0006	CS1				
6	MJ		12/07/2022		1008	1008	Steady	-	0.0	0.0	4.2	4.2	16.7	0	0	0.0	0.0	0.0001	CS1	0.0042	CS1				
1	MJ	WS04A	28/02/2022		1016	1016	Falling	-	0.0	0.0	2.1	2.1	19.1	0	0	0.0	0.0	0.0001	CS1	0.0021	CS1	0.0001	CS1	0.0037	CS1
2	MJ		28/04/2022		1019	1018	Falling	-	0.0	0.0	2.0	2.0	18.4	0	0	0.0	0.0	0.0001	CS1	0.002	CS1				
3	MJ		10/05/2022		997	997	Falling	-	0.0	0.0	3.3	3.3	11.9	0	0	0.0	0.0	0.0001	CS1	0.0033	CS1				
4	MJ		27/05/2022		1008	1008	Steady	-	0.0	0.0	2.0	2.0	18.5	0	0	0.0	0.0	0.0001	CS1	0.002	CS1				
5	MJ		24/06/2022		994	994	Falling	-	0.0	0.0	3.7	3.7	11.8	0	0	0.0	0.0	0.0001	CS1	0.0037	CS1				
6	MJ		12/07/2022		1008	1008	Steady	-	0.0	0.0	3.6	3.6	13.9	0	0	0.0	0.0	0.0001	CS1	0.0036	CS1				
1	MJ	WS05	28/02/2022		1016	1016	Falling	-	0.0	0.0	1.7	1.7	17.7	0	0	0.0	0.0	0.0001	CS1	0.0017	CS1	0.0001	CS1	0.0024	CS1
2	MJ		28/04/2022		1019	1018	Falling	-	0.0	0.0	2.0	2.0	18.9	0	0	0.0	0.0	0.0001	CS1	0.002	CS1				
3	MJ		10/05/2022		997	997	Falling	-	0.0	0.0	2.4	2.4	17.7	0	0	0.0	0.0	0.0001	CS1	0.0024	CS1				
4	MJ		27/05/2022		1008	1008	Steady	-	0.0	0.0	2.1	2.1	18.0	0	0	0.0	0.0	0.0001	CS1	0.0021	CS1				
5	MJ		24/06/2022		994	994	Falling	-	0.0	0.0	2.2	2.2	18.6	0	0	0.0	0.0	0.0001	CS1	0.0022	CS1				
6	MJ		12/07/2022		1008	1008	Steady	-	0.0	0.0	2.1	2.1	18.8	0	0	0.0	0.0	0.0001	CS1	0.0021	CS1				

Monitoring Assessment

0.0001 CS1 0.0046 CS1

Borehole Worst Case

0.0001 CS1 0.0046 CS1

Sitewide Worst Case

MAXIMUM = 0 0 0 4.6 4.6 10.7 0 0 0 0.0 0.0001 CS1 0.0046 CS1

TEST DATE AND CONDITIONS			
Date	01/11/2021		
Atmospheric Pressure	971	mB	
Ambient Temperature	21.7	°C	
Envionics Serial No.	5089		

**GFM430 Final Inspection & Calibration
Check Certificate**

GAS DATA LTD

Unit 4, Fairfield Court

Seven Stars Estate

Wheler Rd

Coventry

CV3 4LJ

Tel 02476303311

Fax 02476307711



Customer	ID Geoenvironmental Limited
Certificate Number	122791
Order Number	329623

Serial Number	10165
Software Version	G430-00.0024/0013

Recalibration DUE Date
01/11/22

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	450	Accept > 200 cc/min	Pump Flow @ -200mB	250	Accept > 200 cc/min
Clock Set / Running	✓		Labels Fitted	✓	

Gas Checks						
Sensor	CH ₄		CO ₂		O ₂	
	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %
	Readings %		Readings %		Readings %	
	60	60	39.7	40	20.9	20.9
	Accept ±3.0		Accept ±3.0		Accept ±0.5	
	5	5	5	5	6	6
	Accept ±0.3		Accept ±0.3		Accept ±0.3	
Zero Reading 100% N2	0	0	0	0	0	0
	Accept ±0.0		Accept ±0.0		Accept ±0.1	

Optional Gas Checks						
Applied Gas & Range		Concentration Tested @ (ppm)	Instrument Readings (ppm)			
Toxic Gas	Range (ppm)		Zero Reading		Instrument Gas Reading	
H2S	5000	1500	0	Accept ±0.0	1500	Accept ±5.0
CO	2000	1000	0	Accept ±0.0	998	Accept ±5.0

Cross Gas Effects									
Applied Gas (ppm)		Instrument Readings (ppm)							
Toxic Gas	Concentration	Toxic 1:	H2S	Toxic 2:	CO	Toxic 3:			
H2S	1500	1500		0					
CO	1000	38		998					
Pressure Checks									
Atmospheric Pressure [AP] (mB)					Static Pressure [SP] (mB)				
Current Atmospheric		Instrument Atmospheric			Applied Pressure (mB)		Instrument Pressure (mB)		
Pressure (mB)		Pressure Reading (mB)							
All Ports		Open Ports		971	Accept ±2.0	0.0mB	N/A	Accept ±0.0	
AP Port (Internal)		+800 mB		800	Accept ±5.0	+50mB	N/A	Accept ±2.0	
AP Port (Internal)		+1200mb		1200	Accept ±5.0	-100mB	N/A	Accept ±2.0	
Flow Checks									
Borehole Flow				Differential Pressure					
Applied Reading (l/h)		Instrument Reading (l/h)		Applied Pressure (Pa)		Instrument Reading (Pa)			
-30	-29.5	Accept ±3.0		-323		-320	Accept ±50		
-3	-3	Accept ±1.0		-15		-15	Accept ±6.0		
0	0	Accept ±0.0		0		0	Accept ±0.5		
3	3	Accept ±0.5		16		15	Accept ±3.0		
30	29.5	Accept ±3.0		333		327	Accept ±50		
60	59.5	Accept ±6.0		1006		998	Accept ±130		
90	89.7	Accept ±9.0		1999		>>>>	Accept ±250		
		Temperature Checks							
		Calibration Temperature			Instrument Temperature Reading °C				
		Applied Temperature °C							
		-10			-10	Accept ±2.0			
		0			0	Accept ±1.0			
		30			30	Accept ±1.0			
		60			60	Accept ±1.0			
		100			100	Accept ±1.0			

Technician:
<i>Jack Rutland</i>

Date Tested:
<i>02/11/2021</i>

The instrument identified by the serial number stated above has been tested by Gas Data personnel for calibration accuracy on the date and under the ambient conditions stated. Gas Data Ltd internal BS EN ISO9001:2015 compliant workshop procedures were followed to apply known calibration test gases, gas flow rates, pressures and temperatures of the values stated. The results displayed on the instrument at each stage are recorded above.