



Tuesday, 02 March 2021

Mr Anthony Roberts,
Natural Resources Wales,
Chester Road,
Buckley,
Flintshire.
CH7 3AJ

Dear Mr Roberts,

Ruabon Data Submission February 2021

Please find enclosed the monthly data submission for routine environmental monitoring undertaken at our Ruabon Landfill Site during February 2021.

We trust this is satisfactory. Please do not hesitate to contact us should you require further clarification.

A handwritten signature in brown ink, appearing to be 'L. Jones', written over a horizontal line.

**Yours sincerely,
For FCC ENVIRONMENT**

Leon Terrace

Compliance Advisor, North Wales and Northwest England

Field log report



Ruabon

Ruabon Field Logs Report February 2021

03-February-2021

Equipment 01 Calibration Due	21/02/2021
Equipment 01 Last Calibration	21/08/2020
Equipment 01 Serial No.	G505522
Equipment 01 Type	GA5000
Equipment 02 Serial No.	EP43, T60
Equipment 02 Type	GW Dip Tapes
Equipment 03 Serial No	81115-17
Equipment 03 Type	ATEX Leachate Dip Tape
Ground Conditions	Waterlogged
Personnel 01	D Beeston, O Jarratt
Time OFF	13:35
Time ON	08:00
Weather	Overcast

Field log report



Ruabon

Ruabon Field Logs Report February 2021

10-February-2021

Equipment 01 Last Calibration	24/09/2020
Equipment 01 Serial No.	GA5000 + G503850
Personnel 01	INF01454 Tim.Prosser
Time OFF	14:13
Time ON	10:17
Weather	Clear

Field log report



Ruabon

Ruabon Field Logs Report February 2021

12-February-2021

Air Temperature (Deg C)	-1
Equipment 01 Calibration Due	21/02/2021
Equipment 01 Last Calibration	21/08/2020
Equipment 01 Serial No.	G505522
Equipment 01 Type	GA5000
Equipment 02 Serial No.	T60
Equipment 02 Type	GW Dip Tape
Equipment 03 Serial No	82904-28
Equipment 03 Type	ATEX Leachate Dip Tape
Ground Conditions	Frozen
Personnel 01	O Jarratt
Time OFF	10:50
Time ON	07:20
Weather	Overcast

Field log report



Ruabon

Ruabon Field Logs Report February 2021

16-February-2021

Air Temperature (Deg C)	6
Equipment 01 Calibration Due	21/02/2021
Equipment 01 Last Calibration	21/08/2020
Equipment 01 Serial No.	G505522
Equipment 01 Type	GA5000
Equipment 02 Serial No.	T60
Equipment 02 Type	GW Dip Tape
Equipment 03 Serial No	82904-28
Equipment 03 Type	ATEX Leachate Dip Tape
Ground Conditions	Moist
Personnel 01	O Jarratt
Time OFF	10:40
Time ON	07:05
Weather	Medium-level cloud

Field log report



Ruabon

Ruabon Field Logs Report February 2021

17-February-2021

Equipment 01 Last Calibration	25/09/2020
Equipment 01 Serial No.	GA5000 + G505505
Personnel 01	INF01584 Ian.Jones
Time OFF	15:28
Time ON	08:11
Weather	Overcast

Field log report



Ruabon

Ruabon Field Logs Report February 2021

18-February-2021

Equipment 01 Last Calibration	25/09/2020
Equipment 01 Serial No.	GA5000 + G505505
Personnel 01	INF01584 Ian.Jones
Time OFF	12:51
Time ON	09:22
Weather	Overcast

Field log report



Ruabon

Ruabon Field Logs Report February 2021

26-February-2021

Air Temperature (Deg C)	7
Equipment 01 Serial No.	79281-10
Equipment 01 Type	Geotechnical Atex Dip Meter
Ground Conditions	Wet
Personnel 01	S Williams
Time OFF	15:45
Time ON	10:00
Weather	Overcast

Field log report



Ruabon

Ruabon Field Logs Report February 2021

27-February-2021

Air Temperature (Deg C)	4
Equipment 01 Calibration Due	26/04/2021
Equipment 01 Last Calibration	26/10/2020
Equipment 01 Serial No.	GA12649
Equipment 01 Type	GA2000
Equipment 02 Serial No.	EP43
Equipment 02 Type	GW Dip Tape
Equipment 03 Serial No	81115-17
Equipment 03 Type	ATEX Leachate Dip Tape
Ground Conditions	Waterlogged
Personnel 01	David Beeston
Time OFF	13:15
Time ON	08:25
Weather	Sunny

Ruabon Borehole Gas Report February 2021



From : 03/02/2021

To : 27/02/2021

03/02/2021

Sample Point	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Flow (litres/hr)	H2S (ppm)	O2 (%v/v)
RUBH0006	978	0.2	0	2.1	0	0	20.2
RUBH0007	979	1.4	0	3.5	0	0	7.5
RUBH0008	977	0	0	6.9		0	19.8
RUBH0009	976	0	0	3.3		0	18.8
RUBH0010	976	0	0	2.9		0	19.5
RUBH0013	975	0	0	0.3		0	21.4
RUBH0014	975	0	0	0.6		0	21.3
RUBH0015	976	0	0	3.6		0	20.8
RUBH0016	977	0	0	0.1		0	22
RUBH001A	978	0	0	0.2		0	22.5
RUBH001B	978	0	0	0.3		0	22.3
RUBH002A	978	0	0	0.2		0	22.4
RUBH002B	978	0	0	0.1		0	22.5
RUBH003A	978	0	1	0.7		0	21.9
RUBH003B	978	0	0	3.6		0	20.2
RUBH004A	978	0	0	0.2		0	22.3
RUBH004B	978	0	0	0.3		0	22.2
RUBH011A	975	0	0	2.5		0	19.2
RUBH011P	976	0	0	3		0	17.1
RUBH012A	975	0	0	3		0	21.3
RUGBH001	978	0	0	2.9		0	17.2
RUGBH002	979	0	0	2.1	0	0	21.5
RUGBH003	978	0	0	1.3	0	0	21.6
RUGBH004	978	0	0	0.4	0	0	21.9
RUGBH005	978	0	0	2.2	0	0	21.1
RUGBH006	978	0	0	5.2		0	19.9
RUGBH007	975	0	0	0.1		0	21.7
RUGBH008	975	0	0	3.5		0	19.4
RUGBH009	976	0	0	0.3		0	21.1
RUGBH010	977	0	0	0.8		0	19.7
RUGBH02A	979	0	0	0.2	0	0	22.2
RUGP0001	980	0	0	0.6		0	22.2
RUGP0002	978	0	0	4.6		0	18.3
RUGP0003	978	0	0	2.4		0	20.5
RUGP0004	978	0	0	0.1		0	22.5
RUGP0008	980	0	0	0.1		0	22
RUGP0009	978	10.7	0	10.8	0.3	0	14.1
RUGP0010	978	0	0	1.4		0	20
RUGP0011	978	0	0	0.1		0	22.5
RUGP0012	978	0	0	0.1		0	22.5
RUGP0013	978	0	0	0.1		0	22.4
RUGP0014	978	0	0	3		0	21.4
RUGP0015	977	0	0	2.5		0	19.1
RUGP0016	976	0	0	0.1		0	21.4
RUGP0018	970	0	0	0.3		0	21
RUGP0019	976	0	0	0.2		0	20.1
RUGP0020	975	0	0	0.1		0	21.5
RUGP0021	976	0	0	0.2		0	20.6
RUGP00A1	979	0	0	0.1		0	20.7
RUGP00A2	978	0	0	0.1		0	21.9

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From : 03/02/2021

To : 27/02/2021

03/02/2021

	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Flow (litres/hr)	H2S (ppm)	O2 (%v/v)
RUGP00A3	978	0	0	0.2		0	22.1
RUGP00B1	979	0	0	0.1		0	22
RUGP00B2	979	0	0	0.1		0	22.2
RUGP00B3	978	0	0	0.2		0	22.2
RUGP00C1	979	0	0	0.1		0	21.4
RUGP00C2	979	0	1	0.1		0	22.2
RUGP00C3	979	0	0	0.1		0	22.3
RUGP00D1	980	0	0	0.1		0	22.2
RUGP00D2	979	0	0	0.1		0	22.2
RUGP00D3	979	0	0	2.8		0	21.9
RUGP00E1	979	0	0	0.8		0	21.8
RUGP00E2	978	0	0	0.2		0	22
RUGP00E3	979	0	0	0.1		0	22.2
RUGP00F1	978	0	0	0.1		0	21.8
RUGP00F2	979	0	0	0.1		0	22.1
RUGP00F3	979	0	0	0.1		0	21.7
RUWB001A	978	0	0	0.5		0	20.5
RUWB001B	978	0	0	0.3		0	21.8
RUWB002A	980	0	0	0.1		0	22.4
RUWB002B	978	0	0	0.3		0	21.8
RUWB002C	979	0	0	0.2		0	22.2
RUWB002D	978	0	0	0.2		0	22.4
RUWB003A	975	0	0	0.8		0	19.5
RUWB003B	976	0	0	0.3		0	21
RUWB004A	976	0	0	0.6		0	18.7
RUWB004B	976	0	0	1.7		0	17
RUWB005A	977	0	0	0.1		0	21.2
RUWB005B	977	0	0	1.3		0	21.2

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From : 03/02/2021

To : 27/02/2021

03/02/2021

Sample Point	Rel Press (mBar)
RUBH0006	1.31
RUBH0007	11.06
RUBH0008	3.07
RUBH0009	-0.33
RUBH0010	-0.34
RUBH0013	-0.4
RUBH0014	-0.52
RUBH0015	-0.53
RUBH0016	-0.45
RUBH001A	-0.38
RUBH001B	-0.45
RUBH002A	-0.43
RUBH002B	-0.45
RUBH003A	-0.47
RUBH003B	-0.28
RUBH004A	-0.33
RUBH004B	-0.19
RUBH011A	1.45
RUBH011P	-0.38
RUBH012A	-0.36
RUGBH001	-0.38
RUGBH002	-0.36
RUGBH003	-0.31
RUGBH004	-0.28
RUGBH005	4.35
RUGBH006	-0.47
RUGBH007	-0.4
RUGBH008	-0.4
RUGBH009	-0.28
RUGBH010	-0.45
RUGBH02A	-0.43
RUGP0001	-3.43
RUGP0002	13.8
RUGP0003	-0.29
RUGP0004	-0.48
RUGP0008	-0.4
RUGP0009	-0.26
RUGP0010	-0.36
RUGP0011	-0.34
RUGP0012	-0.31
RUGP0013	-0.34
RUGP0014	-0.33
RUGP0015	-0.33
RUGP0016	-0.41
RUGP0018	0.16
RUGP0019	-0.5
RUGP0020	-0.31
RUGP0021	-0.29
RUGP00A1	-0.43
RUGP00A2	-0.34

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03/02/2021

	Rel Press (mBar)
RUGP00A3	-0.43
RUGP00B1	-0.41
RUGP00B2	-0.41
RUGP00B3	-0.34
RUGP00C1	-0.17
RUGP00C2	-0.31
RUGP00C3	-0.62
RUGP00D1	-0.33
RUGP00D2	-0.34
RUGP00D3	-0.41
RUGP00E1	-0.34
RUGP00E2	-0.29
RUGP00E3	-0.28
RUGP00F1	-0.48
RUGP00F2	-0.36
RUGP00F3	-0.43
RUWB001A	-0.41
RUWB001B	-0.33
RUWB002A	-0.31
RUWB002B	-0.22
RUWB002C	-0.33
RUWB002D	-0.4
RUWB003A	-0.52
RUWB003B	-0.36
RUWB004A	-0.4
RUWB004B	-0.19
RUWB005A	-0.36
RUWB005B	-0.38

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Ruabon Borehole Gas Report February 2021



From : 03/02/2021

To : 27/02/2021

12/02/2021

Sample Point	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Flow (litres/hr)	H2S (ppm)	O2 (%v/v)
RUBH0006	1015	0.3	0	1.9	0	0	19.9
RUBH0007	1017	1.6	0	3.1	0	0	9.4
RUBH0008	1016	0	0	4.3		0	18.6
RUBH0009	1016	0	1	0.4		0	19.9
RUBH0010	1017	0	0	0.9		0	20.5
RUBH0013	1014	0	0	0.1		0	21.3
RUBH0014	1013	0	0	0.1		0	21.3
RUBH0015	1015	0	1	1		0	20.7
RUBH0016	1015	0	0	1.3		0	20.9
RUBH001A	1014	0	0	0.3		0	19.2
RUBH001B	1013	0	0	0.2		1	19.3
RUBH002A	1014	0	0	0.4		0	19
RUBH002B	1014	0	0	0.3		0	19.2
RUBH003A	1013	0	0	0.2		0	19.5
RUBH003B	1013	0	0	0.2		0	19.4
RUBH004A	1015	0	0	0.1		0	21.2
RUBH004B	1015	0	0	0.1		0	21.3
RUBH011A	1014	0	0	1		0	21.6
RUBH011P	1016	0	0	0.5		0	20.6
RUBH012A	1014	0	0	0.1		0	21.5
RUGBH001	1015	0	0	0.2		0	19.7
RUGBH002	1016	0	0	0.3		0	21.2
RUGBH003	1015	0	0	1.5	0	0	21.1
RUGBH004	1016	0	0	0.5	0	0	20.9
RUGBH005	1016	0	1	4.9	0	0	20.6
RUGBH006	1015	0	1	4.7		0	17.8
RUGBH007	1012	0	0	0.1		0	21.2
RUGBH008	1013	0	0	0.1		0	21
RUGBH009	1012	0	0	0.2		1	18.6
RUGBH010	1012	0	1	0.3		1	18
RUGBH02A	1016	0	0	0.3		0	21.2
RUGP0001	1013	0	0	2.8		1	17.5
RUGP0002	1014	0	0	5.7		1	18.6
RUGP0003	1013	0	0	0.2		1	19.2
RUGP0004	1014	0	0	0.3		1	19.1
RUGP0008	1014	0	0	0.7		0	17.9
RUGP0009	1013	0	1	4.7		0	17.5
RUGP0010	1013	0	0	4.8		0	19.2
RUGP0011	1013	0	0	0.1		0	21.4
RUGP0012	1014	0	0	0.1		0	21.1
RUGP0013	1013	0	0	0.2		0	20.1
RUGP0014	1014	0	0	6.5		0	20.7
RUGP0015	1012	0	0	0.1		1	18.9
RUGP0016	1012	0	0	0.2		2	18.4
RUGP0018	1012	0	1	0.6		1	18.8
RUGP0019	1012	0	0	0.2		2	17.9
RUGP0020	1012	0	0	0.2		2	18.5
RUGP0021	1012	0	0	0.1		0	21
RUGP00A1	1017	0	0	0.1		0	19.7
RUGP00A2	1016	0	0	0.1		0	22.2

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From : 03/02/2021

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	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Flow (litres/hr)	H2S (ppm)	O2 (%v/v)
RUGP00A3	1016	0	0	0.1		0	22.9
RUGP00B1	1017	0	0	0.1		0	20.9
RUGP00B2	1016	0	0	0.1		0	20.9
RUGP00B3	1016	0	0	0.1		0	21
RUGP00C1	1017	0	0	0.1		0	20.5
RUGP00C2	1016	0	0	0.1		0	21
RUGP00C3	1016	0	0	0.1		0	21.1
RUGP00D1	1017	0	0	0.1		0	21.1
RUGP00D2	1016	0	0	0.1		0	21.2
RUGP00D3	1016	0	0	0.1		0	21.2
RUGP00E1	1017	0	0	0.1		0	21.3
RUGP00E2	1016	0	0	0.1		0	21.3
RUGP00E3	1016	0	0	0.1		0	21.3
RUGP00F1	1017	0	0	0.1		0	21.3
RUGP00F2	1015	0	0	0.7		0	21.3
RUGP00F3	1016	0	0	0.2		0	20.6
RUWB001A	1013	0	0	4.2		0	16.9
RUWB001B	1013	0	0	1		0	17.3
RUWB002A	1014	0	0	0.1		0	21.2
RUWB002B	1013	0	0	0.1		0	21.3
RUWB002C	1013	0	0	0.1		0	21.4
RUWB002D	1013	0	0	0.1		0	21.4
RUWB003A	1012	0	0	5.6		0	20.9
RUWB003B	1014	0	1	4.4		0	18.3
RUWB004A	1012	0	0	4.7		1	18.5
RUWB004B	1012	0	0	0.8		2	16.9
RUWB005A	1011	0	0	0.2		1	18.9
RUWB005B	1012	0	0	0.2		1	19

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From : 03/02/2021

To : 27/02/2021

12/02/2021

Sample Point	Rel Press (mBar)
RUBH0006	-0.4
RUBH0007	-12.4
RUBH0008	2.78
RUBH0009	-0.38
RUBH0010	0.17
RUBH0013	-0.36
RUBH0014	-0.24
RUBH0015	-0.36
RUBH0016	-0.38
RUBH001A	-0.28
RUBH001B	-0.34
RUBH002A	-0.41
RUBH002B	-0.29
RUBH003A	-0.34
RUBH003B	-0.36
RUBH004A	-0.36
RUBH004B	-0.28
RUBH011A	-0.24
RUBH011P	-0.34
RUBH012A	-0.28
RUGBH001	-0.67
RUGBH002	2.71
RUGBH003	-0.4
RUGBH004	-0.5
RUGBH005	-0.41
RUGBH006	-0.31
RUGBH007	-0.33
RUGBH008	-0.22
RUGBH009	-0.45
RUGBH010	-0.36
RUGBH02A	-0.43
RUGP0001	0.07
RUGP0002	-0.4
RUGP0003	-0.29
RUGP0004	-0.26
RUGP0008	-0.33
RUGP0009	-0.28
RUGP0010	-0.33
RUGP0011	-0.57
RUGP0012	-0.43
RUGP0013	-0.5
RUGP0014	-0.5
RUGP0015	-0.24
RUGP0016	-0.12
RUGP0018	-0.21
RUGP0019	0.16
RUGP0020	-0.22
RUGP0021	-0.19
RUGP00A1	-0.47
RUGP00A2	-0.41

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To : 27/02/2021

12/02/2021

	Rel Press (mBar)
RUGP00A3	-0.43
RUGP00B1	-0.34
RUGP00B2	-0.45
RUGP00B3	-0.5
RUGP00C1	-0.4
RUGP00C2	-0.48
RUGP00C3	-0.38
RUGP00D1	-0.41
RUGP00D2	-0.47
RUGP00D3	-0.41
RUGP00E1	-0.52
RUGP00E2	-0.4
RUGP00E3	-0.34
RUGP00F1	-0.34
RUGP00F2	-0.34
RUGP00F3	-0.41
RUWB001A	-0.38
RUWB001B	-0.47
RUWB002A	-0.59
RUWB002B	-0.52
RUWB002C	-0.47
RUWB002D	-0.36
RUWB003A	-0.29
RUWB003B	-0.45
RUWB004A	-0.26
RUWB004B	-0.19
RUWB005A	-0.33
RUWB005B	-0.34

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Ruabon Borehole Gas Report February 2021



From : 03/02/2021

To : 27/02/2021

16/02/2021

Sample Point	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Flow (litres/hr)	H2S (ppm)	O2 (%v/v)
RUBH0006	991	0.4	0	2.2	0	0	18.2
RUBH0007	991	0.6	0	3.5	0	0	8.3
RUBH0008	990	0	0	3.7		1	18.9
RUBH0009	990	0	0	0.1		1	19.1
RUBH0010	990	0	0	0.1		1	18.4
RUBH0013	989	0	0	0.2		1	17.9
RUBH0014	988	0	0	0.2		1	19
RUBH0015	989	0	0	4.1		1	18.4
RUBH0016	989	0	0	0.1		1	19.1
RUBH001A	989	0	0	1.8		1	19.9
RUBH001B	988	0	0	0.6		1	19.5
RUBH002A	989	0	0	0.3		1	19.9
RUBH002B	989	0	1	0.3		1	20.3
RUBH003A	989	0	0	0.3		0	19.5
RUBH003B	989	0	0	0.3		0	20.9
RUBH004A	991	0	0	0.1		0	20.2
RUBH004B	991	0	0	0.1		0	20.2
RUBH011A	988	0	0	0.1		1	19
RUBH011P	988	0	0	0.1		1	19
RUBH012A	988	0	0	0.1		1	18.9
RUGBH001	991	0	0	0.1		0	19.9
RUGBH002	991	0	0	2.6		0	19.1
RUGBH003	991	0	0	0.9	0	0	19.6
RUGBH004	991	0	0	0.2	0	0	19.7
RUGBH005	991	0	0	3.7	0	0	17.5
RUGBH006	992	0	0	0.1		0	17.3
RUGBH007	987	0	0	0.2		1	19
RUGBH008	989	0	0	0.3		0	18.9
RUGBH009	988	0	0	0.4		0	18.7
RUGBH010	988	0	0	1.8		0	19.1
RUGBH02A	992	0	0	0.3		0	19.9
RUGP0001	988	0	0	1.5		1	17.6
RUGP0002	988	0	0	4.3		1	19.8
RUGP0003	988	0	0	0.4		1	19.8
RUGP0004	989	0	0	0.3		1	20.3
RUGP0008	989	0	1	0.3		1	17.5
RUGP0009	989	0	1	5		0	18.8
RUGP0010	988	0	0	2.9		0	20.6
RUGP0011	989	0	0	0.1		0	19
RUGP0012	988	0	0	0.1		0	20.3
RUGP0013	988	0	0	0.1		0	20.3
RUGP0014	990	0	1	6.3		0	19.3
RUGP0015	988	0	0	0.3		0	19.1
RUGP0016	988	0	0	0.2		0	19
RUGP0018	988	0	0	0.8		0	17.9
RUGP0019	989	0	0	0.2		0	19
RUGP0020	988	0	0	0.2		0	19
RUGP0021	988	0	0	0.2		1	18.9
RUGP00A1	992	0	0	0.1		0	17.5
RUGP00A2	991	0	0	0.1		0	19.2

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	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Flow (litres/hr)	H2S (ppm)	O2 (%v/v)
RUGP00A3	991	0	0	0.1		0	19.3
RUGP00B1	992	0	1	0.1		0	19.2
RUGP00B2	991	0	0	0.1		0	19.5
RUGP00B3	991	0	0	0.1		0	19.6
RUGP00C1	992	0	0	0.1		0	19.1
RUGP00C2	991	0	0	0.1		0	19.7
RUGP00C3	992	0	0	0.1		0	19.7
RUGP00D1	992	0	0	0.2		0	19.8
RUGP00D2	991	0	0	0.1		0	19.8
RUGP00D3	992	0	0	0.1		0	19.9
RUGP00E1	992	0	0	0.1		0	20
RUGP00E2	991	0	0	0.1		0	20.1
RUGP00E3	991	0	0	0.1		0	20
RUGP00F1	991	0	0	0.2		0	20
RUGP00F2	991	0	0	0.1		0	20.1
RUGP00F3	990	0	0	0.1		0	20.2
RUWB001A	988	0	0	1.3		0	19.6
RUWB001B	988	0	0	2.6		0	19.6
RUWB002A	990	0	0	0.1		0	20.2
RUWB002B	989	0	0	0.1		0	20.3
RUWB002C	989	0	1	0.1		0	20.3
RUWB002D	989	0	0	0.1		0	20.3
RUWB003A	988	0	1	1.7		1	18.6
RUWB003B	988	0	1	3.7		1	15.8
RUWB004A	988	0	0	0.3		0	19
RUWB004B	988	0	0	1.6		0	18.5
RUWB005A	987	0	0	0.2		0	19.2
RUWB005B	988	0	1	0.3		0	19.2

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Sample Point	Rel Press (mBar)
RUBH0006	3.33
RUBH0007	0.14
RUBH0008	3.73
RUBH0009	-0.29
RUBH0010	-1.79
RUBH0013	-0.21
RUBH0014	0.24
RUBH0015	-0.26
RUBH0016	-0.16
RUBH001A	-0.47
RUBH001B	-0.41
RUBH002A	-0.43
RUBH002B	-0.55
RUBH003A	-0.59
RUBH003B	-0.57
RUBH004A	-0.34
RUBH004B	-0.22
RUBH011A	-0.19
RUBH011P	-0.21
RUBH012A	-0.28
RUGBH001	-0.29
RUGBH002	-0.34
RUGBH003	-0.26
RUGBH004	-0.22
RUGBH005	-0.26
RUGBH006	-0.22
RUGBH007	-0.02
RUGBH008	-0.17
RUGBH009	-0.48
RUGBH010	-0.21
RUGBH02A	-0.29
RUGP0001	-0.38
RUGP0002	-0.31
RUGP0003	-0.55
RUGP0004	-0.62
RUGP0008	-0.5
RUGP0009	-0.38
RUGP0010	-0.45
RUGP0011	-0.29
RUGP0012	-0.33
RUGP0013	-0.19
RUGP0014	-0.19
RUGP0015	-0.22
RUGP0016	-0.14
RUGP0018	0.03
RUGP0019	-0.19
RUGP0020	-0.17
RUGP0021	-0.28
RUGP00A1	-0.24
RUGP00A2	-0.26

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	Rel Press (mBar)
RUGP00A3	-0.21
RUGP00B1	-0.21
RUGP00B2	-0.36
RUGP00B3	-0.22
RUGP00C1	-0.26
RUGP00C2	-0.29
RUGP00C3	-0.28
RUGP00D1	-0.24
RUGP00D2	-0.29
RUGP00D3	-0.24
RUGP00E1	-0.22
RUGP00E2	-0.34
RUGP00E3	-0.31
RUGP00F1	-0.17
RUGP00F2	-0.43
RUGP00F3	-0.33
RUWB001A	-0.53
RUWB001B	-0.53
RUWB002A	-0.17
RUWB002B	-0.03
RUWB002C	-0.14
RUWB002D	-0.28
RUWB003A	-0.26
RUWB003B	-0.09
RUWB004A	-0.12
RUWB004B	-0.12
RUWB005A	-0.33
RUWB005B	-0.19

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Sample Point	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Flow (litres/hr)	H2S (ppm)	O2 (%v/v)
RUBH0006	1030	0	0	0.9	-0.6	0	19.2
RUBH0007	1029	1.9	0	2.9	0.2	0	4.4
RUBH0008	1029	0	0	3.7		0	13.2
RUBH0009	1029	0	0	6		0	14.5
RUBH0010	1028	0	0	0.7		0	19.5
RUBH0013	1028	0	0	0.1		0	20.3
RUBH0014	1028	0	0	0.4		0	20.3
RUBH0015	1028	0	0	0.7		0	17.9
RUBH0016	1028	0	0	0.7		0	19.4
RUBH001A	1030	0	0	0.1		0	19.7
RUBH001B	1030	0	0	4.8		0	11.8
RUBH002A	1031	0	0	0		0	20
RUBH002B	1031	0	0	0.2		0	19.9
RUBH003A	1031	0	0	0.2		0	20
RUBH003B	1031	0	0	0		0	20.2
RUBH004A	1031	0	0	2		0	18.3
RUBH004B	1031	0	0	2.8		0	17.9
RUBH011A	1029	0	0	1.9		0	16.6
RUBH011P	1028	0	0	0		0	20.1
RUBH012A	1028	0	0	3.2		0	5.2
RUGBH001	1031	0	0	5.3		0	14
RUGBH002	1031	0	0	1.1		0	19.9
RUGBH003	1031	0	0	0.9	0	0	20.1
RUGBH004	1031	0	0	0.4	0	0	20
RUGBH005	1030	0	0	4.7	-0.7	0	15.6
RUGBH006	1030	0	0	1.9		0	19.4
RUGBH007	1028	0	0	0.2		0	20.6
RUGBH008	1028	0	0	0		0	20.8
RUGBH009	1028	0	0	0.9		0	19.9
RUGBH010	1028	0	0	1.8		0	18.9
RUGBH02A	1031	0	0	0.2		0	20.2
RUGP0001	1030	0	0	0.1		0	19.6
RUGP0002	1030	0	0	1.5		0	15.4
RUGP0003	1030	0	0	0.6		0	18
RUGP0004	1031	0	0	2.8		0	17.7
RUGP0008	1031	0	0	0.1		0	19.9
RUGP0009	1031	7.3	0	10.5		0	3
RUGP0010	1031	0	0	1.5		0	18.8
RUGP0011	1031	0	0	0		0	20.2
RUGP0012	1031	0	0	0.1		0	20
RUGP0013	1031	0	0	0.8		0	19.5
RUGP0014	1031	0	0	2.9		0	15.5
RUGP0015	1030	0	0	1.3		0	15.3
RUGP0016	1028	0	0	1.9		0	19.4
RUGP0018	1029	0	0	0.1		0	20.1
RUGP0019	1028	0	0	0		0	20.8
RUGP0020	1028	0	0	0		0	20.8
RUGP0021	1028	0	0	0.1		0	20.7
RUGP00A1	1030	0	0	0		0	20.4
RUGP00A2	1030	0	0	0		0	20.5

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	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Flow (litres/hr)	H2S (ppm)	O2 (%v/v)
RUGP00A3	1030	0	0	0		0	20.6
RUGP00B1	1030	0	0	0		0	20.6
RUGP00B2	1030	0	0	0.2		0	19.2
RUGP00B3	1030	0	0	0		0	20.6
RUGP00C1	1030	0	0	0		0	20.5
RUGP00C2	1031	0	5	0		0	8.9
RUGP00C3	1031	0	1	0		0	19.2
RUGP00D1	1031	0	0	0		0	19.6
RUGP00D2	1031	0	2	0		0	20.4
RUGP00D3	1031	0	0	0		0	20.4
RUGP00E1	1031	0	0	0		0	20.3
RUGP00E2	1031	0	0	0		0	18.9
RUGP00E3	1031	0	0	0		0	20.4
RUGP00F1	1031	0	0	0		0	4.9
RUGP00F2	1031	0	0	0		0	15.4
RUGP00F3	1031	0	0	0		0	20.3
RUWB001A	1031	0	0	0.2		0	19.1
RUWB001B	1031	0	0	1		0	18.2
RUWB002A	1031	0	0	0.1		0	16.7
RUWB002B	1031	0	0	0.3		0	20
RUWB002C	1031	0	0	4.1		0	16.1
RUWB002D	1031	0	0	0.3		0	19.9
RUWB003A	1028	0	0	0.8		0	11.8
RUWB003B	1028	0	0	0.3		0	18
RUWB004A	1028	0	0	0.1		0	20.2
RUWB004B	1028	0	0	0.5		0	10.9
RUWB005A	1030	0	0	0		0	20
RUWB005B	1030	0	0	0.2		0	19.8

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Sample Point	Rel Press (mBar)
RUBH0006	-1.2
RUBH0007	0.26
RUBH0008	-25.08
RUBH0009	-1.09
RUBH0010	-0.06
RUBH0013	0
RUBH0014	-0.01
RUBH0015	-0.06
RUBH0016	-0.89
RUBH001A	-0.15
RUBH001B	-0.16
RUBH002A	-0.15
RUBH002B	-0.15
RUBH003A	-0.15
RUBH003B	-0.15
RUBH004A	-6.81
RUBH004B	-0.12
RUBH011A	1.87
RUBH011P	-0.04
RUBH012A	7.72
RUGBH001	-0.14
RUGBH002	0.26
RUGBH003	-0.08
RUGBH004	-0.08
RUGBH005	-1.18
RUGBH006	-0.1
RUGBH007	9.72
RUGBH008	0
RUGBH009	4.75
RUGBH010	-6.35
RUGBH02A	-0.09
RUGP0001	-0.15
RUGP0002	-10.39
RUGP0003	0.02
RUGP0004	-0.15
RUGP0008	-0.16
RUGP0009	-0.15
RUGP0010	-0.16
RUGP0011	-0.03
RUGP0012	0.05
RUGP0013	-0.15
RUGP0014	-0.13
RUGP0015	-11.14
RUGP0016	0.16
RUGP0018	2.2
RUGP0019	0.16
RUGP0020	0.94
RUGP0021	-0.03
RUGP00A1	-0.05
RUGP00A2	-0.06

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	Rel Press (mBar)
RUGP00A3	0
RUGP00B1	-0.04
RUGP00B2	-0.09
RUGP00B3	-0.06
RUGP00C1	-0.06
RUGP00C2	-0.22
RUGP00C3	-0.07
RUGP00D1	-0.09
RUGP00D2	-0.09
RUGP00D3	-0.05
RUGP00E1	-0.09
RUGP00E2	-0.08
RUGP00E3	-0.08
RUGP00F1	-4.35
RUGP00F2	-0.09
RUGP00F3	-0.09
RUWB001A	-0.1
RUWB001B	-0.16
RUWB002A	-22.5
RUWB002B	-0.17
RUWB002C	-0.14
RUWB002D	-0.14
RUWB003A	-0.04
RUWB003B	-0.1
RUWB004A	0.17
RUWB004B	0.13
RUWB005A	-0.42
RUWB005B	0.13

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Sample Point	Dip to Water (m)	TD (m)	Water Level (mAOD)
RUBH0006	3.71	12.93	110.49
RUBH0007	4.52	40.47	110.58
RUBH0008	2.13	42.57	117.67
RUBH0009	1.95	7.82	
RUBH0010	3.96	37.9	123.79
RUBH0013	0.73	37.15	136.82
RUBH0014	5.39	10.72	132.76
RUBH0015	6.32	20.69	121.28
RUBH0016	10.31	42.16	122.29
RUBH001A	5.1	13.11	115.10
RUBH001B	5.12	7.03	115.03
RUBH002A	4.95	6.45	114.65
RUBH002B	5.37	11.77	114.23
RUBH003A	5.5	13.22	113.25
RUBH003B	5.37	6.35	113.53
RUBH004A	7.2	11.2	110.30
RUBH004B	5.72	6.52	111.78
RUBH011A	1.73	12.84	131.37
RUBH012A	0.93	5.5	134.87
RUGBH001	6.15	6.15	
RUGBH002	2.01	7.48	112.69
RUGBH003	3.15	5.34	111.65
RUGBH004	2.99	22.36	111.86
RUGBH005	3.56	7.35	112.15
RUGBH006	1.3	7.14	118.13
RUGBH007	0.85	3.24	135.89
RUGBH008	1.23	6.44	135.02
RUGBH009	0.99	8.35	131.16
RUGBH010	0.81	4.3	127.64
RUGBH02A	1.8	2.21	112.30
RUWB001A	2.8	48.94	115.20
RUWB001B	4.82	7.9	113.13
RUWB002A	4.33	21.47	113.07
RUWB002B	5.7	10.36	111.70
RUWB002C	5.93	8.04	111.86
RUWB002D	5.57	21.62	114.03
RUWB003A	8.45	10.73	129.55
RUWB003B	0.52	7.64	137.18
RUWB004A	1.3	48.45	131.40
RUWB004B	0.83	8.65	132.12
RUWB005A	1.11	8.51	118.04
RUWB005B	2.5	25.3	116.60

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To : 27/02/2021

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Sample Point	Dip to Water (m)	TD (m)	Water Level (mAOD)
RUBH0006	4.05	12.93	110.15
RUBH0007	4.67	40.47	110.43
RUGBH003	3.21	5.34	111.59
RUGBH004	3.21	22.36	111.64
RUGBH005	4.12	7.35	111.59

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Sample Point	Dip to Water (m)	TD (m)	Water Level (mAOD)
RUBH0006	4.12	12.93	110.08
RUBH0007	4.81	40.47	110.29
RUGBH003	3.16	5.34	111.64
RUGBH004	3.19	22.36	111.66
RUGBH005	4.1	7.35	111.61

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Sample Point	Dip to Water (m)	TD (m)	Water Level (mAOD)
RUBH0006	2.38	12.94	111.82
RUBH0007	3.62	40.36	111.48
RUGBH003	2.44	5.37	112.36
RUGBH004	2.5	22.38	112.35
RUGBH005	3.01	7.38	112.70

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From : 26/02/2021

To : 26/02/2021

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Sample Point	Depth of Liq (m)	Dip to Water (m)	TD (m)	Water Level (mAOD)
LMP007R	1.66	17.13	18.18	112.46
LMP008R	1.89	20.58	21.94	111.89
LMP009R	1.77	21.21	21.67	112.07
RUGW00M1	1.05	13.12	14.62	111.50
RUGW00M3	1.45	11.44	11.84	113.70
RUGW00M5	1.08	20.24	21.07	111.58
RUGW00M10	2.56	24.94	26.48	98.56
RUGWM4r	1.17	16.66	17.55	111.25
RULMP006		18.46	19.03	112.77
RULMP2r	1.51	14.7	15.93	111.51

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From : 10/02/2021

To : 18/02/2021

10/02/2021

Sample Point	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flow (scmh)	H2S (ppm)
MW01	1005	23.2	0	8.3			0
MW02	1005	22	1	23.2			1
MW06	1006	33.9	24	25			4
MW07R	1006	2.1	4	1.7			0
MW08R	1006	28.1	2	20.3			2
MW09R	1004	0	0	0.3			0
RUAR0007	1006	44.9	4	22.2			18
RUAR0023	1006	20.3	4	24.6			16
RUAR0036	1005	10.3	1	1			0
RUAR0045	1005	64.2	5	22			0
RUAR0060	1005	68.8	2	30.7			40
RUAR0061	1004	51.1	2	24.6			1
RUAR0062	1006	55.9	4	28.4			13
RUAW1401	1005	48.8	3	29.2			18
RUAW1402	1004	6.2	2	20.1			0
RUAW1403	1005	36.2	1	26.7			1
RUAW1404	1006	9	0	13.5			0
RUAW1405	1005	49.2	2	25.8			15
RUAW1412	1006	37.3	2	28.5			5
RUAW1413	1006	35.8	2	27.8			1
RUAW1414	1006	0.2	0	0.2			0
RUAW1415	1007	20.4	1	18.1			3
RUAW1416	1007	48.9	1	21.2			1
RUAW1417	1007	0.3	0	0.3			0
RUAW1418	1006	24.4	1	20			4
RUAW1601	1006	40.1	3	28.1			1
RUAW1602	1005	52.9	0	24.5			2
RUAW1603	1007	57.8	0	17.2			1
RUCOMPND		31.2	0	21.7	168	156	1
RULMP2r	1005	71.2	1	19.4			0
W01	1006	28.8	1	22.8			14
W02	1005	41.7	3	23.1			19
W03	1006	52.9	1	23.5			1
W04	1007	4.2	0	2.6			0
W05	1006	68.8	1	28.4			31
W08	1007	6.8	2	18.1			12
W11R	1004	47.2	2	28.6			12
W13	1008	0	1	0.2			0
W14	1006	59.2	1	26.2			0
W19	1006	52.3	2	31.3			10
W20	1005	50.8	2	26.6			23
W21	1006	20.2	1	19.1			2
W22	1007	30.7	1	24.9			5
W24	1007	0	1	0.3			1
W28	1007	0	1	0.2			0
W29R	1006	29.1	2	23.5			12
W33R	1005	0	0	0.2			0
W35	1007	3.8	0	4.1			1
W43	1007	5.1	1	3.1			0
W44	1008	15.5	2	12.2			3

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	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flow (scmh)	H2S (ppm)
W46	1005	21.8	2	25.2			2
W47	1005	23.7	1	19.9			0
W48	1006	10	4	17.7			0
W49	1005	61.8	3	33.9			0
W50R	1004	6.9	1	11.1			0
W51	1004	45.5	3	29.3			21
W52	1005	62.4	0	24.6			0
W54	1005	1.1	1	9.4			0
W55	1008	10.5	2	20.5			2
W57R	1005	32	2	25.8			13
W59	1005	9.3	1	4.9			0
W66	1007	1.1	1	1.5			0
W67	1004	22	1	23.2			11
W68	1007	0	1	0.1			0

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From : 10/02/2021

To : 18/02/2021

10/02/2021

Sample Point	LFG-Bal (%)	O2 (%v/v)	Rel Press (mBar)	Valve Adj	Valve Position
MW01	56.1	12.4	-17.43	0	0
MW02	61.6	2.2	-27.85	0	0
MW06	36.4	4.7	-15.97	0	0
MW07R	74.2	20.9	-7.97	0	0
MW08R	45.2	6.4	-7	0	0
MW09R	78.7	20.9	-6.13	0	0
RUAR0007	34.4	0.6	-7.68	5	0
RUAR0023	54.1	1	-31.13		5
RUAR0036	70.5	18.2	-7.61	0	0
RUAR0045	12.1	2	-57.79	5	0
RUAR0060	1.4	0.6	-30.47	5	0
RUAR0061	23.7	0.6	-7.79	5	5
RUAR0062	15.3	0.4	-7.63	5	5
RUAW1401	21.5	0.5	-5.02	5	5
RUAW1402	58.8	14.9	-6.13	0	0
RUAW1403	35.8	1.3	-28.06	5	5
RUAW1404	58.8	18.7	-10.03	0	0
RUAW1405	24.2	0.8	-9.27	5	5
RUAW1412	33.9	0.3	-44.73	10	10
RUAW1413	33.8	2.6	-44.99	10	10
RUAW1414	77.9	20.9	-59.67	10	10
RUAW1415	55.4	6.1	-42.15	10	10
RUAW1416	25.2	4.7	-55.19	10	10
RUAW1417	77.6	20.9	-56.74	0	0
RUAW1418	49.9	5.7	-44.47	10	10
RUAW1601	30.3	1.5	-51.36	5	5
RUAW1602	21.7	0.9	-31.3	5	5
RUAW1603	20	5	-53.81	5	5
RUCOMPND	45	4.5	-62.49		
RULMP2r	8.7	1.1	-54.55	5	0
W01	48	0.4	-3.47	5	5
W02	34.8	0.4	-8.48	10	10
W03	22.3	1.3	-55.64	5	5
W04	72.7	20.5	-14.15	0	0
W05	2.2	1.3	-57.46	5	0
W08	74	1.1	-1.96	0	0
W11R	23.5	0.7	-11.26	5	2
W13	77.5	20.9	-0.48	0	0
W14	10.3	4.3	-55.33	0	0
W19	16.1	0.3	-5.13	5	5
W20	23	0.4	-7.14	5	0
W21	44.2	16.5	-8.09	0	0
W22	42.7	1.7	-50.99	5	5
W24	81.2	18.5	-32.17	0	0
W28	78.5	20.9	-4.76	0	0
W29R	42.3	5.1	-22.67	5	5
W33R	79.2	20.6	-53.58	0	0
W35	72.6	19.5	-56.16	0	0
W43	71.8	20	-8.92	0	0
W44	60	12.3	-36.57	0	0

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From : 10/02/2021

To : 18/02/2021

10/02/2021

	LFG-Bal (%)	O2 (%v/v)	Rel Press (mBar)	Valve Adj	Valve Position
W46	51.7	1.3	-11.44		5
W47	35.3	20.9	-25.15	0	0
W48	56.3	16	-14.33	0	0
W49	3.9	0.4	-0.23	5	5
W50R	60.6	20.9	-2.54	0	0
W51	19.8	5.4	-37.24	5	5
W52	10.1	2.9	-51.57	5	5
W54	80.5	9	-2.64	0	0
W55	68.2	0.8	-3.81	0	0
W57R	40	2.2	-20.55	5	5
W59	66.6	19.2	-4.16	0	0
W66	75.8	20.9	-17.8	0	0
W67	53.7	1.1	-15.69	5	5
W68	78.4	20.9	-18.44	0	0

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Ruabon LFGX & Balancing Report February 2021



From : 10/02/2021

To : 18/02/2021

17/02/2021

Sample Point	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	FlareTemp (Deg C)	Flow (m3/hr)
MW01	975	28.7	3	21.1			
MW02	975	43.9	3	22.1			
MW03	975	3.1	2	2.9			
MW05	974	35.9	3	21.6			
MW06	975	34.4	4	14.2			
MW07R	975	48.4	2	26.2			
MW08R	974	70.5	3	23.9			
MW09R	975	51.8	4	3.3			
Ruabon flare		34.5		23.7		0	0
RUALCM10	976	69.7	3	28.3			
RUALMP4a	974	11.1	8	5.8			
RUAR0007	974	46.8	3	22			
RUAR0023	974	23.2	3	24.8			
RUAR0036	975	18.1	3	2.6			
RUAR0045	975	53	3	19.9			
RUAR0060	974	9.9	6	17.2			
RUAR0061	975	53.4	3	24.8			
RUAR0062	970	50.7	2	26.5			
RUAW1401	974	53.2	4	27.6			
RUAW1402	975	31.5	3	25.4			
RUAW1403	975	37.1	3	23.9			
RUAW1404	976	9.4	4	13.4			
RUAW1405	975	46.4	3	25.2			
RUAW1418	975	30.5	3	20.4			
RUAW1601	975	38.3	3	25			
RUCOMPND		38.5	2	24.2	170		
RUGW00M4	974	26	1	22.5			
RULMP2r	976	0.3	4	2.4			
W01	976	39.6	4	17.2			
W02	975	7.6	3	17.4			
W03	976	53.4	4	20.7			
W04	976	9.2	3	4.8			
W05	976	24.6	3	16.2			
W08	974	8.2	1	20.2			
W11R	975	52.7	3	29.3			
W12	976	70.2	2	28.5			
W13	975	36.3	2	15			
W14	975	69.4	2	27.9			
W15	974	31.3	2	17			
W16	974	2.7	1	5.3			
W17	973	34	2	25.6			
W18	974	39.3	2	19.6			
W19	973	63.3	2	32.8			
W20	973	31.4	2	24.4			
W21	974	16.4	2	22.3			
W22	974	29.1	2	24.6			
W24	975	0.1	2	4			
W27	975	71.2	3	26.7			
W29R	974	28.4	2	24			
W31R	975	37.7	2	25.1			

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From : 10/02/2021

To : 18/02/2021

17/02/2021

	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	FlareTemp (Deg C)	Flow (m3/hr)
W32R	975	37	2	26.7			
W34R	975	50.1	2	21.9			
W35	975	6.3	3	6.5			
W43	975	23.2	2	8.1			
W44	974	62.1	2	31.1			
W46	974	31.4	2	25.8			
W47	974	27.6	2	22.3			
W48	974	11.9	5	18			
W49	974	0.2	2	3.6			
W50R	974	17.7	3	23.5			
W51	975	52.4	3	29.8			
W52	975	73.6	3	27			
W53	976	1.1	2	2.1			
W54	976	0.1	2	8.7			
W55	974	20.9	2	22.2			
W56R	975	59.7	3	37.8			
W57R	975	66.5	3	33.4			
W59	975	9.5	1	5.3			
W63	975	4.1	2	16			
W64	974	38	2	27.4			
W65R	975	43.8	4	26.2			
W66	974	4.4	4	5.7			
W67	975	55.5	3	27.8			
W68	974	36	4	20.5			

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From : 10/02/2021

To : 18/02/2021

17/02/2021

Sample Point	Flow (scmh)	H2S (ppm)	LFG-Bal (%)	O2 (%v/v)	Rel Press (mBar)	Valve Adj	Valve Position
MW01		0	50.8	0.2	-4.14	10	10
MW02		0	33.7	0.3	-4.62	10	10
MW03		0	73.7	20.8	-30.24	0	10
MW05		0	41.9	0.6	-8.21	10	10
MW06		1	50.2	6.8	-13.12	10	10
MW07R		0	46.1	3.5	-7.24	10	10
MW08R		1	5.1	0.5	-4.93	10	10
MW09R		0	72.6	3.1	-7.91	10	10
Ruabon flare			38.9	2.9	88.41		
RUALCM10		0	1.3	0.7	-12.74	10	10
RUALMP4a		1	68.3	16.4	-58.48	10	10
RUAR0007		2	31.6	0.5	-7.74	10	10
RUAR0023		0	51.7	0.3	-22.71	10	10
RUAR0036		2	63.8	16.2	-39.86	10	10
RUAR0045		0	22.9	4.6	-48.95	10	10
RUAR0060		0	68.2	4.8	-35.9	0	10
RUAR0061		1	26.1	0.1	-5.76	10	10
RUAR0062		1	22.1	0.7	-9.16	10	10
RUAW1401		0	19	0.2	-3.02	10	10
RUAW1402		0	81.6	0.4	-4.72	10	10
RUAW1403		1	38.6	0.4	-28.1	10	10
RUAW1404		0	62.3	16.9	-31.97	10	10
RUAW1405		0	28.3	0.1	-4.84	10	10
RUAW1418		0	44.6	4.5	-39.53	10	10
RUAW1601		0	36	0.7	-42.33	20	20
RUCOMPND	140	1	38.8	2.8	-56.34		
RUGW00M4		1	50.8	0.7	-6.33	10	10
RULMP2r		0	77.1	20.8	-27.21	0	20
W01		0	42.4	2.8	-29.43	10	10
W02		0	73.9	4.8	-6.66	10	10
W03		0	24.3	1.6	-32.64	20	20
W04		0	68.3	19.2	-32.16	10	10
W05		0	49.3	12.4	-32.36	0	10
W08		1	74.1	3.7	-6.43	10	10
W11R		1	17.6	0.4	-5.67	10	10
W12		0	0.8	0.5	6.98	50	50
W13		0	50.9	4.9	-5.66	10	10
W14		0	3.3	1.3	-51.9	10	10
W15		0	44	9.6	-57.43	10	10
W16		0	78.9	17.2	-3.05	10	10
W17		0	39.8	0.6	-5.03	10	10
W18		0	33.9	8.3	-53.53	0	10
W19		0	3.6	0.3	-5.29	10	10
W20		0	43.7	0.5	-5.52	10	10
W21		0	66.1	1.7	-8.41	10	10
W22		0	45.6	0.7	-42.88	10	10
W24		0	76.9	20.9	-48.34	10	10
W27		0	1.6	0.5	-41.59	50	50
W29R		0	44	3.6	-17.16	10	10
W31R		0	32.9	4.3	-19.98	10	10

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From : 10/02/2021

To : 18/02/2021

17/02/2021

	Flow (scmh)	H2S (ppm)	LFG-Bal (%)	O2 (%v/v)	Rel Press (mBar)	Valve Adj	Valve Position
W32R		0	35.6	0.7	-29.36	10	10
W34R		1	25.4	2.6	-19.19	10	10
W35		0	69	18.2	-22.91	10	10
W43		0	63.3	16	-58.5	10	10
W44		1	76.9	4.3	-4.43	10	10
W46		0	42.2	0.6	-8.95	10	10
W47		0	57.7	8.7	-47.4	10	10
W48		0	57.5	16.3	-46.34	10	10
W49		0	76.5	20.9	-41.36	0	10
W50R		43	59.6	1.4	-9.31	10	10
W51		0	14.6	3.2	-23.67	10	10
W52		0	1	0.5	-31.34	10	10
W53		0	77.2	20.9	-30.26	10	10
W54		0	85.9	7.3	-2.1	10	10
W55		1	57.4	0.5	-7.29	10	10
W56R		0	3.8	1	-35.59	10	10
W57R		0	2.1	2	-6.74	10	10
W59		1	69.4	19.1	-38.66	10	10
W63		0	81	2.6	-8.84	10	10
W64		0	34.2	0.4	-5.22	10	10
W65R		0	29.5	0.5	-14.67	10	10
W66		0	72	3	-20.24	10	10
W67		0	17.7	0.7	-5.78	10	10
W68		0	43.2	9.3	-48.9	10	10

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Ruabon LFGX & Balancing Report February 2021



From : 10/02/2021

To : 18/02/2021

18/02/2021

Sample Point	AtPress (mBar)	CH4 (%v/v) (%)	CO (ppm)	CO2 (%v/v) (%)	Engine Output (Kwh)	Flow (scmh)	H2S (ppm)
RUAW1412	967	30.6	17	22			0
RUAW1413	967	29	30	24.4			0
RUAW1414	968	31.5	3	27.3			0
RUAW1415	968	15.9	6	19.1			0
RUAW1416	968	27.1	10	22.6			0
RUAW1417	968	53.4	6	24.1			0
RUAW1418	967	29.4	2	25.3			0
RUAW1602	968	32.8	1	15.5			0
RUAW1603	968	28.8	1	12.6			0
RUCOMPND		40.6	3	25.6	170	107	1
W33R	967	9.3	1	4.8			0
W37R	968	62.3	1	31.5			0
W38R	968	24.7	1	13.7			0
W39R	969	68.8	2	28.4			0
W40R	969	0.1	1	1.8			0
W41R	968	71	2	29			0
W42R	968	8.4	0	5.2			0

Sample Point	LFG-Bal (%)	O2 (%v/v)	Rel Press (mBar)	Valve Adj	Valve Position
RUAW1412	45.2	2.2	-19.64	20	20
RUAW1413	44.5	2.1	-21.69	20	20
RUAW1414	40.4	0.8	-24.93	20	20
RUAW1415	58.9	6.1	-24.9	10	10
RUAW1416	47.4	2.9	-25.1	20	20
RUAW1417	20.5	2	-24.98	20	20
RUAW1418	45.1	0.2	-19.43	20	20
RUAW1602	40.7	11	-15.74	10	10
RUAW1603	46.6	12	-22.09	10	10
RUCOMPND	32.9	1.6	-25.38		
W33R	67	18.9	-24.36	10	10
W37R	5.7	0.5	-21.59	50	50
W38R	48.8	12.8	-14.67	10	10
W39R	2.4	0.4	-21.67	20	20
W40R	77.4	20.9	-4.93	10	10
W41R	0	0.5	-17.09	100	100
W42R	67.6	18.8	-4.1	10	10

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Ruabon Groundwater Levels Report February 2021



From : 03/02/2021

To : 03/02/2021

03/02/2021

Sample Point	Dip to Water (m)	TD (m)	Water Level (mAOD)
RUBH0013	0.73	37.15	136.82
RUWB002A	4.33	21.47	113.07
RUWB002B	5.7	10.36	111.70
RUWB002C	5.93	8.04	111.86
RUWB002D	5.57	21.62	114.03
RUWB003A	8.45	10.73	129.55
RUWB004A	1.3	48.45	131.40
RUWB005A	1.11	8.51	118.04
RUWB005B	2.5	25.3	116.60

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Ruabon Groundwater Quality Report February 2021



From : 03/02/2021

To : 03/02/2021

03/02/2021

Sample Point	Alk (CaCO3:mg/l)	Amm-N (N:mg/l)	BOD (mg/l)	Ca(D) (mg/l)	Cd(D) (mg/l)	Chloride (mg/l)	Cr(D) (mg/l)
RUBH0013	366	0.2	<1	130	0.00004	7	<0.001
RUWB002A	57.6	2	2.8	86	0.00003	610	<0.001
RUWB002B	267	0.5	<1	79	<0.00002	73	<0.001
RUWB002C	803	5.3	2.5	166	0.00002	305	<0.001
RUWB002D	484	0.6	<1	7	<0.00002	31	<0.001
RUWB003A	344	1	5.2	6	<0.00002	21	<0.001
RUWB004A	497	0.4	2.4	3	0.00002	21	<0.001
RUWB005A	281	0.7	1.1	122	<0.00002	50	<0.001
RUWB005B	324	0.7	5.7	1	<0.00002	36	<0.001

Sample Point	COD (mg/l)	Cond (uS / cm)	Cond(Fld) (uS / cm)	Cu(D) (mg/l)	Fe(D) (mg/l)	Field Comments	Pb(D) (mg/l)
RUBH0013	11	760	726	0.002	<0.01	Sampled	<0.001
RUWB002A	15	2110	1636	<0.001	<0.01	Sampled	<0.001
RUWB002B	<5	754	669	<0.001	<0.01	Sampled	<0.001
RUWB002C	27	2360	1480	<0.001	0.02	Sampled	<0.001
RUWB002D	<5	1040	873	<0.001	0.06	Sampled	<0.001
RUWB003A	20	680	593	<0.001	<0.01	Sampled	<0.001
RUWB004A	5	965	855	<0.001	0.02	Sampled	<0.001
RUWB005A	10	973	883	<0.001	0.01	Sampled	<0.001
RUWB005B	6	1120	938	<0.001	0.11	Sampled	<0.001

Sample Point	K(D) (mg/l)	Mg(D) (mg/l)	Mn(D) (mg/l)	Ni(D) (mg/l)	pH (Lab)	pH(Fld)	Purge Vol. (litres)
RUBH0013	5	12	0.466	0.002	7	7.2	71.51
RUWB002A	34	50	0.21	0.005	7	7.6	33.65
RUWB002B	11	14	0.064	<0.001	7.6	7.8	9.15
RUWB002C	31	20	3.82	0.033	7	6.9	14.96
RUWB002D	10	2	0.028	<0.001	8.1	8	102.11
RUWB003A	18	13	0.08	<0.001	7.7	8.4	4.48
RUWB004A	11	<1	0.004	<0.001	8.8	8.9	100.13
RUWB005A	19	32	0.082	0.002	7.7	7.5	17.58
RUWB005B	6	<1	0.004	<0.001	10	9.4	54.17

Sample Point	Na(D) (mg/l)	S.Solids (mg/l)	TOC (mg/l)	TON (mg/l)	Total S(D) SO4:mg/l	WtrTemp (Deg C)	Zn(D) (mg/l)
RUBH0013	29	183	4.8	<0.2	43	9.6	0.007
RUWB002A	219	609	4.4	<0.2	3	9.9	<0.002
RUWB002B	53	58	0.55	0.5	<3	10.2	<0.002
RUWB002C	316	627	9.9	<0.2	8	10.1	0.007
RUWB002D	244	31	1.5	<0.2	38	10.2	0.002
RUWB003A	125	115	1.6	1.2	<3	9.4	<0.002
RUWB004A	232	78	1.5	<0.2	<3	9.5	<0.002
RUWB005A	41	81	4.4	<0.2	175	9.8	<0.002
RUWB005B	246	93	0.64	<0.2	192	9.2	<0.002

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Ruabon Surface Water Quality Report February 2021



From : 03/02/2021

To : 03/02/2021

03/02/2021

Sample Point	Amm-N (N:mg/l)	BOD (mg/l)	Chloride (mg/l)	COD (mg/l)	Cond (uS / cm)	Cond(Fld) (uS / cm)	DO(Lab) (mg/l)
RUWP004A	3.7	2.2	23	20	506	506	10.2

Sample Point	pH (Lab)	pH(Fld)	S.Solids (mg/l)	WtrTemp (Deg C)
RUWP004A	7.6	7.7	13	4.5

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