

APPENDIX J GROUND GAS AND GROUNDWATER MONITORING DATA

	Start Date E	nd Date [Pre	essures] Previous	<u>During</u>	Start_	<u>End</u>	<u>Equipme</u>	nt Used & R	<u>emarks</u>					
	08/03/2019 08	3/03/2019	Rising	Falling	1011	1010	Aquarea	d SN-SSL1	+ Dipmeter +	- GA5000 + V	Veather: Cl	oudy + Ground	d: Dry + Wind	: Light + Air Temp: 5DegC + Round
Summary: Gas a Round 2	ind groundwater 12/04/2019 12	2/04/2019	Rising	Constant	1025	1025	Dipmeter	+ GA5000	+ Weather: S	Sunny + Grou	nd: Dry + W	'ind: Light + A	ir Temp: 4De	gC + Round Summary: Gas and
groundwater Round 3	20/05/2019 20)/05/2019	-	Constant	1011	1011	Aquarea	SN-SSL1	+ Dipmeter +	- GA5000 + V	Veather: Ov	vercast + Grou	ınd: Dry + Wiı	nd: None + Air Temp: 13DegC + Round
Summary: Gas a Round 4	and groundwater 06/06/2019 06	6/06/2019	-	Rising	1008	1009	Dipmeter	+ GA5000	+ Weather: 0	Overcast - ligh	nt rain intern	nittent + Grou	nd: Dry + Air ⁻	Temp: 16DegC + Round Summary: Gas
and groundwater Round 5	-08/07/2019 - 08	//07/2019		Constant	1019	1019	Dinmeter	+ GA5000	+ Weather (Overcast + Gr	ound: Drv +	Air Temp: 15	- DeaC + Rour	nd Summary: Gas and groundwater
Round 6	07/08/2019 07		<u>-</u>	Rising	1003	1004								d Summary: Gas and groundwater
Exp l oratory Position I D	Monitoring Round	Measured Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (I /hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Su l phide (ppm)	
BH12A	1	5.08	08/03/2019 08:14:00	1011	1011	0.0 _(SS)	4.95	0.1	0.0	21.0	0.0	0	0	
BH12A	1		15 secs	-	-	-	-	0.1	0.0	21.0	0.0	0	0	
BH12A	1		30 secs	-	-	-	-	0.1	0.0	21.0	0.0	0	0	
BH12A	1		60 secs	-	-	-	-	0.1	0.0	21.0	0.0	0	0	
BH12A	1		90 secs	-	-	-	-	0.1	0.0	21.0	0.0	0	0	
BH12A	1		120 secs	-	-	-	-	0.1	0.0	21.0	0.0	0	0	
BH12A	1		180 secs	-	-	-	-	0.1	0.0	21.0	0.0	0	0	
BH12A	1		240 secs	-	-	-	-	0.1	0.0	21.0	0.0	0	0	
BH12A	1		300 secs	-	-	-	-	0.1	0.0	21.0	0.0	0	0	
BH12A	2	5.07	12/04/2019 07:49:00	1025	1025	0.2 _(SS)	4.26	0.2	0.0	21.0	-	0	0	
BH12A	2		15 secs	-	-	-	-	0.2	0.0	20.9	-	0	0	
BH12A	2		30 secs	-	-	-	-	0.3	0.0	20.8	-	0	0	
BH12A	2		60 secs	_	-	-	-	0.3	0.0	20.8	-	0	0	
BH12A	2		90 secs	-	-	-	-	0.3	0.0	20.8	-	0	0	
BH12A	2		120 secs	_	-	-	-	0.3	0.0	20.8	-	0	0	
BH12A	2		180 secs	-	-	-	-	0.2	0.0	20.9	-	0	0	
BH12A	2		240 secs	_	-	-	-	0.2	0.0	20.9	-	0	0	
BH12A	2		300 secs	-	-	-	-	0.2	0.0	20.9	_	0	0	

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

RSK Environment Ltd 18 Frogmore Road Hemel Hempstead Hertfordshire HP3 9RT

Compiled By	Date	Checked By	Date	Contract Ref:
Cem	09/08/19			371654
Contract:				Page:

Page: **Ugly Brown Building**



Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (I /hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	
BH12A	3	5.07	20/05/2019 10:08:00	1011	1011	0.0 _(SS)	4.27	0.1	0.0	20.7	-	0	0	
BH12A	3		15 secs	-	-	-	-	0.1	0.0	20.7	-	0	0	
BH12A	3		30 secs	-	-	-	-	0.1	0.0	20.7	-	0	0	
BH12A	3		60 secs	-	-	-	-	0.1	0.0	20.6	-	0	0	
BH12A	3		90 secs	-	-	-	-	0.1	0.0	20.6	-	0	0	
BH12A	3		120 secs	-	-	-	-	0.1	0.0	20.6	-	0	0	
BH12A	3		180 secs	-	-	-	-	0.1	0.0	20.6	-	0	0	
BH12A	3		240 secs	-	-	-	-	0.1	0.0	20.6	-	0	0	
BH12A	3		300 secs	-	-	-	-	0.1	0.0	20.6	-	0	0	
BH12A	4	5.08	06/06/2019 10:45:00	1008	1008	0.0(1)	4.31	0.1	0.0	20.9	0.0	1	0	
BH12A	4		15 secs	-	-	0.1 _(SS)	-	0.1	0.0	20.8	0.0	0	0	
BH12A	4		30 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	
BH12A	4		60 secs	-	-	-	-	0.1	0.0	20.7	0.0	0	0	
BH12A	4		90 secs	-	-	-	-	0.1	0.0	20.7	0.0	0	0	
BH12A	4		120 secs	-	-	-	-	0.1	0.0	20.7	0.0	0	0	
BH12A	4		180 secs	-	-	-	-	0.1	0.0	20.7	0.0	0	0	
BH12A	4		240 secs	-	-	-	-	0.1	0.0	20.7	0.0	0	0	
BH12A	4		300 secs	-	-	-	-	0.1	0.0	20.7	0.0	0	0	
BH12A	5	5.08	08/07/2019 07:43:00	1019	1019	0.0(1)	4.23	0.1	0.0	20.9	0.0	0	0	
BH12A	5		15 secs	-	-	0.1 _(SS)	-	0.1	0.0	20.8	0.0	0	0	
BH12A	5		30 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	
BH12A	5		60 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	
BH12A	5		90 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	
BH12A	5		120 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	
BH12A	5		180 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

	RSK Environment Ltd
DCV	18 Frogmore Road
	Hemel Hempstead
	Hertfordshire
	HP3 9RT

Compiled By	Date	Checked By	Date	Contract Ref:
Cem	09/08/19			371654
Contract:				Page:

Ugly Brown Building

Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (I /hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Su l phide (ppm)	
BH12A	5		240 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	
BH12A	5		300 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	
BH12A	6	5.08	07/08/2019 08:15:00	1004	1004	0.0 _(SS)	4.20	0.1	0.0	20.9	0.0	0	0	
BH12A	6		15 secs	-	-	-	-	0.1	0.0	20.9	0.0	0	0	
BH12A	6		30 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	
BH12A	6		60 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	
BH12A	6		90 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	
BH12A	6		120 secs	-	-	-	-	0.1	0.0	20.8	0.0	0	0	
BH12A	6		180 secs	-	-	-	-	0.0	0.0	20.9	0.0	0	0	
BH12A	6		240 secs	-	-	-	-	0.0	0.0	20.9	0.0	0	0	
BH12A	6		300 secs	-	-	-	-	0.0	0.0	20.9	0.0	0	0	
BH13	1	5.56	08/03/2019 09:54:00	1011	1011	0.0 _(SS)	4.50	0.1	0.0	20.8	0.0	0	0	
	Remarks	: Borehole p	urged and ground	vater samp	ole taken.									
BH13	1		15 secs	-	-	-	-	0.3	0.0	19.7	0.0	0	1	
BH13	1		30 secs	-	-	-	-	0.4	0.0	18.7	0.0	0	1	
BH13	1		60 secs	-	-	-	-	0.5	0.0	18.4	0.0	0	1	
BH13	1		90 secs	-	-	-	-	0.5	0.0	18.4	0.0	0	1	
BH13	1		120 secs	-	-	-	-	0.5	0.0	18.4	0.0	0	1	
BH13	1		180 secs	-	-	-	-	0.5	0.0	18.3	0.0	0	1	
BH13	1		240 secs	-	-	-	-	0.5	0.0	18.2	0.0	0	1	
BH13	1		300 secs	-	-	-	-	0.5	0.0	18.2	0.0	0	1	
BH13	2	5.59	12/04/2019 08:10:00	1025	1025	0.0 _(SS)	4.53	0.1	0.0	21.0	-	0	0	
BH13	2		15 secs	-	-	-	-	0.5	0.0	20.3	-	0	0	
BH13	2		30 secs	-	-	-	-	0.5	0.0	19.6	-	0	0	

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

RSK Environment Ltd
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

Compi l ed By	Date	Checked By	Date	Contract Ref:
Cem	09/08/19			371654
Contract:				Page:

Ugly Brown Building



Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (I /hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Su l phide (ppm)	
BH13	2		60 secs	-	-	-	-	0.5	0.0	19.3	-	0	0	
BH13	2		90 secs	-	-	-	-	0.5	0.0	19.3	-	0	0	
BH13	2		120 secs	-	-	-	-	0.5	0.0	19.3	-	0	0	
BH13	2		180 secs	-	-	-	-	0.5	0.0	19.7	-	0	0	
BH13	2		240 secs	-	-	-	-	0.4	0.0	19.6	-	0	0	
BH13	2		300 secs	-	-	-	-	0.4	0.0	19.8	-	0	0	
BH13	2		360 secs	-	-	-	-	0.4	0.0	19.9	-	0	0	
BH13	3	5.61	20/05/2019 08:22:00	1011	1011	0.0(1)	4.55	0.1	0.0	20.8	-	0	0	
	Remarks	: Borehole p	ourged and ground	vater samp	le taken.									
BH13	3		15 secs	-	-	0.0 _(SS)	-	0.6	0.0	19.9	-	0	0	
BH13	3		30 secs	-	-	-	-	0.6	0.0	19.1	-	0	0	
BH13	3		60 secs	-	-	-	-	0.6	0.0	19.0	-	0	0	
BH13	3		90 secs	-	-	-	-	0.6	0.0	18.9	-	0	0	
BH13	3		120 secs	-	-	-	-	0.6	0.0	18.9	-	0	0	
BH13	3		180 secs	-	-	-	-	0.6	0.0	18.9	-	0	0	
BH13	3		240 secs	-	-	-	-	0.6	0.0	18.9	-	0	0	
BH13	3		300 secs	-	-	-	-	0.6	0.0	18.9	-	0	0	
BH13	3		360 secs	-	-	-	-	0.6	0.0	18.9	-	0	0	
BH13	4	5.62	06/06/2019 11:45:00	1009	1009	0.0(1)	4.58	0.1	0.0	20.9	0.0	1	0	
BH13	4		15 secs	-	-	0.0 _(SS)	-	0.7	0.0	19.1	0.0	1	0	
BH13	4		30 secs	-	-	-	-	0.7	0.0	18.7	0.0	0	0	
BH13	4		60 secs	-	-	-	-	0.7	0.0	18.6	0.0	0	0	
BH13	4		90 secs	-	-	-	-	0.7	0.0	18.6	0.0	0	0	
BH13	4		120 secs	-	-	-	-	0.7	0.0	18.5	0.0	0	0	
BH13	4		180 secs	-	-	-	-	0.7	0.0	18.4	0.0	0	0	

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

	RSK Environment Ltd
DCV	18 Frogmore Road
	Hemel Hempstead
	Hertfordshire
	HP3 9RT

Compi l ed By	Date	Checked By	Date	Contract Ref:
Cem	09/08/19			371654
Contract:				Page:

Ugly Brown Building



Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (I /hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Su l phide (ppm)	
BH13	4		240 secs	-	-	-	-	0.7	0.0	18.5	0.0	0	0	
BH13	4		300 secs	-	-	-	-	0.7	0.0	18.5	0.0	0	0	
BH13	5	5.61	08/07/2019 08:16:00	1019	1019	0.0(1)	4.53	0.1	0.0	20.9	0.0	0	0	
BH13	5		15 secs	-	-	0.2 _(SS)	-	0.6	0.0	19.4	0.0	0	0	
BH13	5		30 secs	-	-	-	-	0.6	0.0	19.2	0.0	0	0	
BH13	5		60 secs	-	-	-	-	0.6	0.0	19.1	0.0	0	0	
BH13	5		90 secs	-	-	-	-	0.6	0.0	19.0	0.0	0	0	
BH13	5		120 secs	-	-	-	-	0.6	0.0	18.9	0.0	0	0	
BH13	5		180 secs	-	-	-	-	0.7	0.0	18.8	0.0	0	0	
BH13	5		240 secs	-	-	-	-	0.9	0.0	18.7	0.0	0	0	
BH13	5		300 secs	-	-	-	-	0.9	0.0	18.6	0.0	0	0	
BH13	6	5.60	07/08/2019 07:21:00	1003	1003	0.0(1)	4.51	0.1	0.0	20.9	0.0	0	0	
BH13	6		15 secs	ı	-	0.0 _(SS)	-	0.9	0.0	18.7	0.0	0	0	
BH13	6		30 secs	-	-	-	-	0.9	0.0	18.2	0.0	0	0	
BH13	6		60 secs	-	-	-	-	0.9	0.0	18.2	0.0	0	0	
BH13	6		90 secs	-	-	-	-	0.9	0.0	18.2	0.0	0	0	
BH13	6		120 secs	-	-	-	-	0.9	0.0	18.0	0.0	0	0	
BH13	6		180 secs	-	-	-	-	0.9	0.0	17.5	0.0	0	0	
BH13	6		240 secs	-	-	-	-	1.0	0.0	17.4	0.0	0	0	
BH13	6		300 secs	-	-	-	-	1.0	0.0	17.4	0.0	0	0	
WS05	1	2.01	08/03/2019 11:06:00	1010	1010	0.1 _(SS)	DRY	0.1	0.0	20.9	0.0	0	0	
WS05	1		15 secs	-	-	-	-	0.6	0.0	20.3	0.0	0	0	
WS05	1		30 secs	-	-	-	-	0.6	0.0	19.9	0.0	0	0	
WS05	1		60 secs	-	-	-	-	0.6	0.0	19.8	0.0	0	0	

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

	RSK Environment Ltd
DCV	18 Frogmore Road
	Hemel Hempstead
	Hertfordshire
	HP3 9RT

Compiled By	Date	Checked By	Date	Contract Ref:
Cem	09/08/19			371654
Contract:				Page:

Ugly Brown Building



Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (I /hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	
WS05	1		90 secs	-	-	-	-	0.6	0.0	19.8	0.0	0	0	
WS05	1		120 secs	-	-	-	-	0.6	0.0	19.8	0.0	0	0	
WS05	1		180 secs	-	-	-	-	0.6	0.0	19.7	0.0	0	1	
WS05	1		240 secs	-	-	-	-	0.6	0.0	19.7	0.0	0	1	
WS05	1		300 secs	-	-	-	-	0.6	0.0	19.7	0.0	0	1	
WS05	2	2.00	12/04/2019 08:23:00	1025	1025	0.0 _(SS)	DRY	0.1	0.0	20.7	-	0	0	
WS05	2		15 secs	-	-	-	-	0.6	0.0	20.5	-	0	0	
WS05	2		30 secs	-	-	-	-	0.6	0.0	20.0	-	0	0	
WS05	2		60 secs	-	-	-	-	0.6	0.0	19.9	-	0	0	
WS05	2		90 secs	-	-	-	-	0.6	0.0	19.9	-	0	0	
WS05	2		120 secs	-	-	-	-	0.6	0.0	19.9	-	0	0	
WS05	2		180 secs	-	-	-	-	0.6	0.0	19.9	-	0	0	
WS05	2		240 secs	-	-	-	-	0.6	0.0	19.8	-	0	0	
WS05	2		300 secs	-	-	-	-	0.6	0.0	19.8	-	0	0	
WS05	3	2.00	20/05/2019 09:59:00	1011	1011	0.0 _(SS)	DRY	0.1	0.0	20.7	-	0	0	
WS05	3		15 secs	-	-	-	-	0.4	0.0	20.4	-	0	0	
WS05	3		30 secs	-	-	-	-	0.4	0.0	20.1	-	0	0	
WS05	3		60 secs	-	-	-	-	0.4	0.0	20.1	-	0	0	
WS05	3		90 secs	-	-	-	-	0.4	0.0	20.1	-	0	0	
WS05	3		120 secs	-	-	-	-	0.4	0.0	20.1	-	0	0	
WS05	3		180 secs	-	-	-	-	0.4	0.0	20.1	-	0	0	
WS05	3		240 secs	-	-	-	-	0.4	0.0	20.1	-	0	0	
WS05	3		300 secs	-	-	-	-	0.4	0.0	20.1	-	0	0	
WS05	4	2.01	06/06/2019 12:00:00	1009	1009	0.0 _(SS)	DRY	0.1	0.0	20.9	0.0	0	0	
WS05	4		15 secs	-	-	-	-	0.2	0.0	20.7	0.0	0	0	

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

	RSK Environment Ltd
DCV	18 Frogmore Road
	Hemel Hempstead
	Hertfordshire
	HP3 9RT

Compiled By	Date	Checked By	Date	Contract Ref:
Cem	09/08/19			371654
Contract:				Page:

Ugly Brown Building



Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (I /hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Su l phide (ppm)	
WS05	4		30 secs	-	-	-	-	0.2	0.0	20.7	0.0	0	0	
WS05	4		60 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	4		90 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	4		120 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	4		180 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	4		240 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	4		300 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	5	2.01	08/07/2019 08:37:00	1019	1019	0.0(1)	DRY	0.1	0.0	20.9	0.0	0	0	
WS05	5		15 secs	-	-	0.1 _(SS)	-	0.2	0.0	20.4	0.0	0	0	
WS05	5		30 secs	-	-	-	-	0.2	0.0	20.4	0.0	0	0	
WS05	5		60 secs	-	-	-	-	0.2	0.0	20.4	0.0	0	0	
WS05	5		90 secs	-	-	-	-	0.2	0.0	20.4	0.0	0	0	
WS05	5		120 secs	-	-	-	-	0.2	0.0	20.4	0.0	0	0	
WS05	5		180 secs	-	-	-	-	0.2	0.0	20.4	0.0	0	0	
WS05	5		240 secs	-	-	-	-	0.2	0.0	20.4	0.0	0	0	
WS05	5		300 secs	-	-	-	-	0.2	0.0	20.3	0.0	0	0	
WS05	6	2.00	07/08/2019 07:39:00	1004	1004	0.0 _(SS)	DRY	0.1	0.0	20.9	0.0	0	0	
WS05	6		15 secs	-	-	-	-	0.1	0.0	20.7	0.0	0	0	
WS05	6		30 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	6		60 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	6		90 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	6		120 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	6		180 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	6		240 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	
WS05	6		300 secs	-	-	-	-	0.2	0.0	20.6	0.0	0	0	

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

	RSK Environment Ltd
DCV	18 Frogmore Road
	Hemel Hempstead
	Hertfordshire
	HP3 9RT

Compi l ed By	Date	Checked By	Date	Contract Ref:
Cem	09/08/19			371654
Contract:				Page:

Ugly Brown Building



						Hydrogen Sulphide (ppm)	
	Steady State. Note: LEL = Lower						

	DCK Environment Ltd
	RSK Environment Ltd
DCV	18 Frogmore Road
	Hemel Hempstead
	Hertfordshire
	HD3 ODT

Compiled By	Date	Checked By	Date	Contract Ref:
Cem	09/08/19			371654
Contract:				Page:

Page:

Ugly Brown Building



	Weather	Ground Conditions	Wind Conditions	Air Temperature (°C)	Equipment Used & Remarks
Round 1	C l oudy	Dry	Light	5	Aquaread SN-SSL1 + Dipmeter + GA5000
Round 2	Sunny	Dry	Light	4	Dipmeter + GA5000
Round 3	Overcast	Dry	None	13	Aquaread SN-SSL1 + Dipmeter + GA5000
Round Overcast	- light rain intermitter	nt Dry	_	16	Dipmeter + GA5000
Round 5	Overcast	Dry	-	15	Dipmeter + GA5000
Round 6	Overcast	Dry	-	19	Dipmeter + GA5000

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	Water Elevation (m)	Remarks
BH03	1	33	1/1	7.00	7.70	1.00 to 7.00	08/03/2019 09:27	1.53	20.23	Operator: EOBrien, General Remarks: Groundwater sample taken. Borehole purged afterwards. Operator: EOBrien, General Remarks: Borehole flooded.
BH03	1	33	2/1	7.00	7.72	1.00 to 7.00	12/04/2019 07:23	1.56	20.21	Operator: EOBrien, General Remarks: Borehole flooded.
BH03	1	33	3 / 1	7.00	7.80	1.00 to 7.00	20/05/2019 07:47	3.87	17.89	Operator: EOBrien, General Remarks: Groundwater sample taken.
BH03	1	33	4 / 1	7.00	7.85	1.00 to 7.00	06/06/2019 11:14	2.34	19.43	Operator: JSheridan
BH03	1	33	5/1	7.00	7.93	1.00 to 7.00	08/07/2019 08:09	1.61	20.15	Operator: JSheridan
BH03	1	33	6/1	7.00	7.95	1.00 to 7.00	07/08/2019 07:16	1.54	20.22	Operator: JSheridan
BH05	1	50	1/1	10.00	9.10	1.00 to 10.00	08/03/2019 10:19	1.51	20.31	Operator: EOBrien, General Remarks: Groundwater sample taken. Borehole purged afterwards. Operator: EOBrien
BH05	1	50	2/1	10.00	8.97	1.00 to 10.00	12/04/2019 08:43	1.55	20.27	Operator: EOBrien
BH05	1	50	3/1	10.00	8.86	1.00 to 10.00	20/05/2019 09:15	1.52	20.30	Operator: EOBrien, General Remarks: Groundwater sample taken.
BH05	1	50	4 / 1	10.00	8.87	1.00 to 10.00	06/06/2019 11:33	1.58	20.24	Operator: JSheridan
BH05	1	50	5/1	10.00	8.86	1.00 to 10.00	08/07/2019 09:01	1.59	20.23	Operator: JSheridan
BH05	1	50	6/1	10.00	8.83	1.00 to 10.00	07/08/2019 08:02	1.60	20.22	Operator: JSheridan
BH11	1	35	1/1	7.00	4.16	2.00 to 7.00	08/03/2019 08:38	2.21	19.49	Operator: EOBrien, General Remarks: Groundwater sample taken.
BH11	1	35	2/1	7.00	4.81	2.00 to 7.00	12/04/2019 07:41	2.29	19.41	Borehole purged afterwards. Operator: EOBrien
BH11	1	35	3 / 1	7.00	5.07	2.00 to 7.00	20/05/2019 10:48	3.09	18.61	Operator: EOBrien, General Remarks: Groundwater sample taken.
BH11	1	35	4 / 1	7.00	4.84	2.00 to 7.00	06/06/2019 10:40	3.37	18.34	Operator: JSheridan

Key: NDA denotes 'no data available'.

RSK Environment Ltd
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

l	Compiled By	Date	Checked By	Date	Contract Ref:	l
	Cem	09/08/19			371654	
	Contract:				Page:	i

Ugly Brown Building



<u>Weather</u> <u>Ground Conditions</u> <u>Wind Conditions</u> <u>Air Temperature</u> (°C) <u>Equipment Used & Remarks</u>

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	Water Elevation (m)	Remarks
BH11	1	35	5 / 1	7.00	4.83	2.00 to 7.00	08/07/2019 08:00	3.29	18.41	Operator: JSheridan
BH11	1	35	6 / 1	7.00	4.82	2.00 to 7.00	07/08/2019 08:24	3.33	18.37	Operator: JSheridan
BH12A	1	50	1/1	5.00	5.08	1.00 to 5.00	08/03/2019 08:14	4.95	16.32	Operator: JSheridan
BH12A	2	35	1/1	24.00	22.60	23.50 to 24.00	08/03/2019 08:56	4.77	16.51	Operator: EOBrien, General Remarks: Groundwater sample taken.
BH12A	2	35	2/1	24.00	22.60	23.50 to 24.00	12/04/2019 07:48	4.67	16.61	Borehole purged afterwards. Operator: EOBrien
BH12A	1	50	2/1	5.00	4.98	1.00 to 5.00	12/04/2019 07:49	4.17	17.10	Operator: EOBrien
BH12A	1	50	3 / 1	5.00	5.07	1.00 to 5.00	20/05/2019 10:08	4.27	17.00	Operator: EOBrien
BH12A	2	35	3 / 1	24.00	22.61	23.50 to 24.00	20/05/2019 10:17	4.61	16.66	Operator: EOBrien, General Remarks: Groundwater sample taken.
BH12A	1	50	4 / 1	5.00	5.08	1.00 to 5.00	06/06/2019 10:54	4.31	16.96	Operator: JSheridan
BH12A	2	35	4 / 1	24.00	22.61	23.50 to 24.00	06/06/2019 11:00	4.67	16.61	Operator: JSheridan
BH12A	2	35	5 / 1	24.00	22.60	23.50 to 24.00	08/07/2019 07:49	4.63	16.64	Operator: JSheridan
BH12A	1	50	5/1	5.00	5.08	1.00 to 5.00	08/07/2019 07:52	4.23	17.05	Operator: JSheridan
BH12A	2	35	6 / 1	24.00	22.60	23.50 to 24.00	07/08/2019 08:14	4.62	16.65	Operator: JSheridan
BH12A	1	50	6/1	5.00	5.08	1.00 to 5.00	07/08/2019 08:24	4.20	17.07	Operator: JSheridan
					·					
BH13	1	50	1/1	5.00	5.56	1.00 to 5.00	08/03/2019 09:54	4.50	17.33	Operator: EOBrien, General Remarks: Groundwater sample taken over readings. Borehole purged afterwards. Operator: EOBrien
BH13	1	50	2/1	5.00	5.59	1.00 to 5.00	12/04/2019 08:10	4.53	17.30	Operator: EOBrien

Key: NDA denotes 'no data available'.

RSK Environment Ltd
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

Compiled By	Date	Checked By	Date	Contract Ref:
Cem	09/08/19			371654
Contract:				Page:

Ugly Brown Building

<u>Weather</u> <u>Ground Conditions</u> <u>Wind Conditions</u> <u>Air Temperature</u> (°C) <u>Equipment Used & Remarks</u>

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	Water Elevation (m)	Remarks
BH13	1	50	3/1	5.00	5.61	1.00 to 5.00	20/05/2019 08:33	4.55	17.28	Operator: EOBrien, General Remarks: Groundwater sample taken over readings. Borehole purged afterwards. Operator: JSheridan
BH13	1	50	4 / 1	5.00	5.62	1.00 to 5.00	06/06/2019 11:53	4.58	17.25	Operator: JSheridan
BH13	1	50	5/1	5.00	5.61	1.00 to 5.00	08/07/2019 08:26	4.53	17.31	Operator: JSheridan
BH13	1	50	6 / 1	5.00	5.60	1.00 to 5.00	07/08/2019 07:30	4.51	17.32	Operator: JSheridan
WS03	1	50	1/1	2.00	1.73	1.00 to 2.00	08/03/2019 10:57	1.45	20.59	Operator: EOBrien
WS03	1	50	2/1	2.00	1.72	1.00 to 2.00	12/04/2019 08:39	1.46	20.58	Operator: EOBrien
WS03	1	50	3 / 1	2.00	1.74	1.00 to 2.00	20/05/2019 09:06	DRY	NA	Operator: EOBrien
WS03	1	50	4 / 1	2.00	1.72	1.00 to 2.00	06/06/2019 11:37	1.54	20.51	Operator: JSheridan
WS03	1	50	5 / 1	2.00	1.74	1.00 to 2.00	08/07/2019 09:03	1.54	20.50	Operator: JSheridan
WS03	1	50	6 / 1	2.00	1.73	1.00 to 2.00	07/08/2019 08:07	1.56	20.48	Operator: JSheridan
WS05	1	50	1/1	2.00	2.01	1.00 to 2.00	08/03/2019 11:06	DRY	NA	Operator: JSheridan
WS05	1	50	2/1	2.00	2.00	1.00 to 2.00	12/04/2019 08:23	DRY	NA	Operator: JSheridan
WS05	1	50	3/1	2.00	2.00	1.00 to 2.00	20/05/2019 09:59	DRY	NA	Operator: JSheridan
WS05	1	50	4 / 1	2.00	2.01	1.00 to 2.00	06/06/2019 12:09	DRY	NA	Operator: JSheridan
WS05	1	50	5/1	2.00	2.01	1.00 to 2.00	08/07/2019 08:47	DRY	NA	Operator: JSheridan
WS05	1	50	6/1	2.00	2.00	1.00 to 2.00	07/08/2019 07:47	DRY	NA	Operator: JSheridan

Key: NDA denotes 'no data available'.

	RSK Environment Ltd
DCV	18 Frogmore Road
	Hemel Hempstead
	Hertfordshire
	HP3 9RT

Compiled By	Date	Checked By	Date	Contract Ref:
Cem	09/08/19			371654
Contract:				Page:

Ugly Brown Building



IN-SITU WATER MONITORING RESULTS Weather Ground Conditions Wind Conditions Air Temperature (°C) **Equipment Used & Remarks** Exploratory Position ID Monitoring Reported Measured Water Water Pipe Pipe Round / Diameter Test Number Pipe Date & Time Installation Installation Elevation Response Zone Depth Remarks Ref of Monitoring Depth (mbgl) Depth (mbgl) (m)

RSK	RSK Environment Ltd 18 Frogmore Road Hemel Hempstead
	Hertfordshire
	HP3 9RT

Key: NDA denotes 'no data available'.

Compiled By	Date	Checked By	Date	Contract Ref:
Cem	09/08/19			371654
Contract:				Page:

Ugly Brown Building





APPENDIX K GROUNDWATER SAMPLING RECORDS

FIELD CALIBRATION RECORD SHEET

Contract Name:	Contract Reference:	Device Type:	Serial Number:
Ugly Brown Building	371654-CI	GASOCO	GS03701
Technician Name:	Date of Visit:	Manufacturers Calibra	ation Due:
Jack Sherday	8/3/19	07/05/	19
	V		Initials: FOIR
Please initial to confirm that you've received, read and signed the SHE Plan (or equivalent document) for this site:	4.0

Daily Field Calibration

To ensure accuracy, **prior** to each monitoring visit, a mixture of 4%v/vCH₄; $5\%v/vCO_2$; 50ppmCO; 0%v/v O_2 is used to calibrate the gas analyser. The results are recorded below:-

	CH ₄ (%v/v)	CO ₂ (%v/v)	O ₂ (%v/v)	CO (ppm)
Mixture 1 (Target)	4.0	5.0	0.0	50
Achieved	40	5.0	0.0	50
Mixture 2 (Target)	0.0	0.0	20.9	0
Achieved	0.0	0.1	20.9	0

1/7

Post Monitoring Verification

Before leaving site, the same mixture is passed through the analyser. The actual reading is recorded to evidence any drift which may have taken place. The results are recorded below:-

	CH₄ (%v/v)	CO ₂ (%v/v)	O ₂ (%v/v)	CO (ppm)
Mixture 1 (Target)	4.0	5.0	0.0	50
Achieved	3.9	ls.q	-0.3	50
Mixture 2 (Target)	0.0	0.0	20.9	0
Achieved	0.0	0.0	20.9	0

W-704		
	M	

Calibration / Verification Performed By:

E O Buren

حىدى -Calibration / Verification Checked By: و

Template release: 26/04/2018 10:57:42

Template ID: E - FB - GAS CALIBRATION RSK - V03

Groundwater Sampling Data Form Project Name: Project Number: Project EOB Sampled by: Sampling Date: Information Weather: light wines Well Notes - e.g. Condition, Access, Safety: Interface Probe: Agreeread Water Level Meter Used Water Quality Meter Used: (as applicable): Dip Meter: Water Quality Meter Last Dissolved pH, ORP, Specific 8/3/19 Monitoring Calibrated: Oxygen: Conductivity: Information Dissolved Oxygen (D.O.) 0.3 mg/l Specific Conductivity (Sp.Cond) Typical Parameter Stabilisation Criteria for Low-0.1 unit p.H Flow Sampling

				*	For RED	OOX correction, see separate guidance					
Well Location	RHII	Pu	rge Start T	ime	08	:34		Depth to	Corr.	N + 151	
Well Diameter (mm)	DILLI	Time	Temp	Sp.Cond	D.O.	ρΗ	ORP	Water (mTOC)	REDOX (mV)*	Notes / Flow (ml/min)	
Well Material	19	(HH:mm)	(oC)	(μS/cm)	(mg/l)	(units)	(mV)		(1117)		
Static Water Level (mTOC)	1.934	03:41 03:44	11.50	3385 3370 3377	5.78 4.35	8.80 873 871	-48-8 -50 7	2.010		TOP 27-200 BOL	
LNAPL Present? LNAPL Level (mTOC)	YN	08:47	1190	3378		8.40	44.8			25 5 to pill 40ml	
Well Headspace Reading (PID/FID)						,,,,	1.7			vial.	
Purge Method	Low Flow Other:								į.		
Sampling Method	Peristaltic Other:										
Pump Intake Depth (mTOC)	2.934		1.7	g. oil/colou	r/odour),	HC oc	lour, el	saque, b	orolon.	Silty.	
Well Depth (mTOC) DNAPL Present? DNAPL Level (mTOC)	3,389	Sam	nple Conta	ot monitore ners Obtai ection Time	ned	2x16, 1x500ml, 1x 40ml vielt					

Oxygen Reduction Potential (ORP)

Well Location	01102	Pu	rge Start T	ime	. 00	9.24		Depth to	Corr.	Notes / Flow
	BHUS	Time	Temp	Sp.Cond	D.O.	рН	ORP	Water	REDOX	(ml/min)
Well Diameter (mm)	14	(HH:mm)	(oC)	(μS/cm)	(mg/l)	(units)	(mV)	(mTOC)	(m∨)*	
Well Material	(9	P9:27	10:10	3730	2.10	6 73	+41.0	1.420		TOP 16-7 CA
Static Water Level	1-366	09:30	10.40	3,406	1-21	8.66	138.8	1.450		BGL
(mTOC)		Q4:33	10.50	3738	1.0+	8.64	+35.6	1.500		
LNAPL Present?	YIN	09.36	10.50	3770	1.04		+28.9	1.550		32 5
LNAPL Level (mTOC)		09:39	10.00	3776	1.00	8.65	+ 29.5	1-600		to fill 40m
Well Headspace Reading (PID/FID)										View (
Purge Method	Low Flow Other:									
Caraclia Math. I	Peristaltic Other:									
Sampling Method	Bladder									3
Pump Intake Depth	2.366							,		
(mTOC)	2 300			g. oil/coloui		No 0	dow.	moun!	yellow	ringed.
Well Depth (mTOC)	7.528	R.	easons if n	ot monitore	d		Unay	ue. "		,
DNAPL Present?	YN	Sam	ple Contai	iners Obtair	ned	As	above			
DNAPL Level (mTOC)		S	ample Coll	ection Time	9	09:4	D			2 28 5
Chec	≥ Sg									

10mV

Well Location	Dillo-	PL	urge Start Time		10	1-16	16		Corr.	Notes / Flow
Well Location	BH05	Time	Temp	Sp.Cond	D.O.	pН	ORP	Water	REDOX	(ml/min)
Well Diameter (mm)	5 C	(HH:mm)	(oC)	(μS/cm)	(mg/l)	(units)	(mV)	(mTOC)	(m∨)*	
Well Material		10.19	12-78	4683	2.98	8.72	-574	1-420		Silty
Static Water Level	1377	10:22	13.70		1.63	8.69	-68.2	1.480		base
(mTOC)	1.941	(0:25	1410	4740	1.03	8.68	-69.9	1.550		
LNAPL Present?	YINI			4760		8.68	-68.8			BHINSIDE
LNAPL Level (mTOC)		10:31	14-60	4+1	0.89	8.68	-68.2	-680		no light!
Well Headspace					35					TOP 13:34
Reading (PID/FID)										
Purge Method	Low Flow									BGL
	Other:									35 5
Sampling Method	Peristaltic Other:		-							to fill word
	Bladder	<u> </u>						-		vial.
Pump Intake Depth	7.277					73.				L
(mTOC)	X JII		_	.g. oil/colou		HC or	dour, e	spayue,	yellou	by three.
·Well Depth (mTOC)	8-965			not monitore						0 0
DNAPL Present?	Y N 1			iners Obtai		Standa	vel ex o	n prev.	Pa	RSK
DNAPL Level (mTOC)	<u> </u>	Sample Collection Time				10:32				in company or
		Pu	ırge Start T	ime	10:	57		Depth to	Corr.	
Well Location	WS03	Time	Temp	Sp.Cond	D/O.	Hq	ORP	Water	REDOX	Notes / Flow
Well Diameter (mm)	50	(HH:mm)	(oC)	Sp.Cond (μS/cm)	(mg/l)	(units)	(mV)	(mTOC)	(∕m∨)*	(ml/min)
Well Material	-50		(4-1)	(μσ/σ///)	/ /				1	TUP 23.94
Static Water Level	1 100				/			,	-	AGL /
(mTOC)	1.693			1						
LNAPL Present?	YIN			/		—				/ /
LNAPL Level (mTOC)				/						
Well Headspace				1				1		/:
Reading (PID/FID)				1				1		
	Low Flow	-		/						
Purge Method	Other:							/		
Consoline Mash od	Peristaltic Other:						1			/
Sampling Method	Bladder					6				V 1
Pump Intake Depth	/						- [1	
(mTOC)		Samplin	g Notes (e	.g. oil/colou	r/odour),		1			
Well Depth (mTOC)	1.972			not monitore			/			
DNAPL Present?	YN	Sar	nple c onta	iners Obtai	ned					INCL/
DNAPL Level (mTOC)		5	Sample Col	llection Tim	е		7		7	MOM
							7			
Well Location			rge Start T				000	Depth to		Notes / Flow
IAC II Director ()		Time	Temp	Sp.Cond	D.O.	pH	ORP	Water (mTOC)	REDOX (mV)*	(ml/min)
Well Diameter (mm)		(HH:mm)	(oC)	(μS/cm)	(mg/l)	(units)	(mV)	(111100)	(1111)	
Well Material			-							
Static Water Level (mTOC)			-					-		
LNAPL Present?	YN									
LNAPL Present?										
Well Headspace										
Reading (PID/FID)										
rtodding (r 15/1 15)	Low Flow									
Purge Method	Other:	_					-			
	Peristaltic Other:	-								
Sampling Method	Bladder Other.							-		
Duma Intoles Donth	Didddoi									
Pump Intake Depth (mTOC)		Cameli-	a Nota = /=	a oll/asis:	r/odevs)					
Well Depth (mTOC)				g. oil/colou ot monitore						
DNAPL Present?	YN			iners Obtai						DENGE AT
DNAPL Level (mTOC)	T N I			lection Time		7			_	KSK
5.74 E 20701 (III1 00)			Janipio O01							
Charles d. / -'-	mad by u			ر	Sg					
Checked / sig	nea by:			,	7					

Well Location	Pula	0 ("	Pu	urge Start 1	Гime	8:50	3		Depth to	Согт.	i
	BH12	A(D)	Time	Temp	Sp.Cond	D.O.	рН	ORP	Water	REDOX	Notes / Flow (ml/mln)
Well Diameter (mm)	19		(HH:mm)	(oC)	(μS/cm)	(mg/l)	(units)	(mV)	(mTOC)	(mV)*	
Well Material	- 1		8:56	11-10	5877		6.57	3.2	5.060		TIME 60
Static Water Level	4.65	23	8.50	11.60	5892	2.40	6.55	-53-0	5.575		Fill 40m
(mTOC)			9:00	1200		0.96	6.52	-80-1	5.870		val=
LNAPL Present?	Y	NU	9.09	12.20	5033	0.71	6.50	-90.3	6171		No. of the second
LNAPL Level (mTOC)		- 4	9.08	12.18	5952	0.47	649	-032	6.437		22 5
Well Headspace			9:11	12.20	5027	0.43	6.50	-1023	6.755		
Reading (PID/FID)			d:14	12 20	5925	0.35	6.50	-106.2			
Purge Method	Low Flow	1	9:17-	12.10	5027	0.32	6.50	-KO 1	7.301		
Purge Method	Other:	1/	0.20	12 10	5027	030	6.51	-110-0	7.555		
Sampling Method	Peristaltic v	Other:	9.20		1927	0 30	0 0,	1,0-0	T - SISI.J		OFFSEE:
	Bladder										-0.112m
Pump Intake Depth	M 23	2 000									BGC
(mTOC)	14 20	- 000			.g. oil/cołou		Cloude	1 grey	, no cin	1000	ocar
Well Depth (mTOC)	22.1	487	R	leasons if r	not monitore	ed					
DNAPL Present?	Y	N	Sar	nple Conta	iners Obtai	ned	Vx liese	LAGOOM	al, lagelow	1800	-
DNAPL Level (mTOC)	10 - 10 -		5	Sample Col	llection Tim	e	(1.20	11 11 11 11 11	, 14 (/0)	HESK
								1.40			
Well Location	RHIO		Pu	rge Start T	ime	0:	20		Depth to	Corr.	
Well Location	BHIC)	Time	Temp	Sp.Cond	D.O.	рН	ORP	Water	REDOX	Notes / Flow
Well Diameter (mm)	50		(HH:mm)	(oC)	(μS/cm)	(mg/l)	(units)	(mV)	(mTOC)	(mV)*	(ml/min)
Well Material			10:25	16.13	1638	4.95	731	-58.4	4.388		
Static Water Level	1		V. W	1-1-1-1	1000	1.42	7-31	-DX.4	4.700		Prioresa
(mTOC)	4.3	55									Samples
LNAPL Present?	YII		-								over
		N									readings
LNAPL Level (mTOC)											. ()
Well Headspace	_										(Stoke to
Reading (PID/FID)											Claire)
Purge Method	Low Flow									y 1	,
Furge Method	Other:							20	ECONK	60	CFFSEE
	Peristaltic /	Other:						Fill	40M	Via	Crice
Sampling Method	Bladder							7.1.1	QCM)	TOW H	-0.142-
Pump Intake Depth											13GC
(mTOC)	5.39	50 I	0		714		Chillian	la Cia	susy, n	0 - 1	
Well Depth (mTOC)					g. oil/coloui ot monitore		Signo	,10			
	5.4								cocci /		
DNAPL Present?	Y	NA			iners Obtain	ned	2×11the	DEM			
DNAPL Level (mTOC)			S	ample Col	ection Time	3		0:26			Lessa of
			Dur	ge Start Ti	mo I					1	
Well Location		- 1					T		Depth to	Corr.	Notes / Flow
Mall Discours ()			Time	Temp	Sp.Cond	D.O.	рН	ORP	Water	REDOX	(ml/min)
Well Diameter (mm)			(HH:mm)	(oC)	(μS/cm)	(mg/l)	(units)	(mV)	(mTOC)	(mV)*	
Well Material											
Static Water Level											
(mTOC)											
LNAPL Present?	Y	N							1		
LNAPL Level (mTOC)											
Well Headspace	-										
		ŀ			1						
Well Headspace Reading (PID/FID)	ow Flow										
Well Headspace Reading (PID/FID)	ow Flow										
Well Headspace Reading (PID/FID) Purge Method	Other:	Othory									
Well Headspace Reading (PID/FID) Purge Method Sampling Method	Other: Peristaltic	Other:									
Well Headspace Reading (PID/FID) Purge Method Sampling Method P	Other:	Other:									
Well Headspace Reading (PID/FID) Purge Method Sampling Method Pump Intake Depth	Other: Peristaltic	Other:									
Well Headspace Reading (PID/FID) Purge Method Sampling Method P	Other: Peristaltic	Other:	Sampling	Notes (e.c	g. oil/cotour,	odour),					
Well Headspace Reading (PID/FID) Purge Method Sampling Method Pump Intake Depth	Other: Peristaltic	Other:			g. oil/colour.						No.
Well Headspace Reading (PID/FID) Purge Method Sampling Method Pump Intake Depth (mTOC)	Other: Peristaltic Bladder	Other:	Re	asons if no	ot monitore	j "					
Well Headspace Reading (PID/FID) Purge Method Sampling Method Pump Intake Depth (mTOC) Well Depth (mTOC) DNAPL Present?	Other: Peristaltic Bladder		Re	easons if no ple Contain	ot monitored ners Obtain	ed "					RSK
Well Headspace Reading (PID/FID) Purge Method Sampling Method Pump Intake Depth (mTOC) Well Depth (mTOC)	Other: Peristaltic Bladder		Re	easons if no ple Contain	ot monitore	ed "					RSK
Well Headspace Reading (PID/FID) Purge Method Sampling Method Pump Intake Depth (mTOC) Well Depth (mTOC) DNAPL Present?	Other: Peristaltic Bladder Y		Re	easons if no ple Contain	ot monitored ners Obtain	ed "					RSK

GAS MONITORING FIELD SHEET

Monitoring 8/	3/19	Measureme	nt datum: pipe / Other	(Offset to GL (m)	091	<u> </u>	Device	Ser	ial Numb	<u>Daily</u> Check		
Pre-Testing Ren	marks:	or Ciop or	Air Tempera	ature:	5 °c	RG(GAS	CCO	GS	0370			
			Weather:	Cloudy									
				nditions:		RMENE	-						
Exploratory Pos	ition ID:		Wind:				Tidal State: (if applicable)						
D 11	10 1 /			STRONG	Hig			Rising	/ Falling				
D+1	11年1	2)	Monitoring Round Number:					Test Number:					
Install Type: \$1	NGLE) DOUBL	LE Pipe Re	ef: 1) Shallow 2) Deep Pipe Diameter: 19n					mm / 50	mm) o	ther	(mm)		
Test	Time Monito		Gas Flow	Atmospheric Pressure			:ap:	WOLE.	, 5	SUDI E			
Sequence	hh:mm sec		(I/hr)	(mb)	(mb)			MINGLE / DOUBLE					
STAGE 1 (nitial	8:11		00	101	-0.0	Obse	rvations	3:					
GAS FLOW State	9.11		0.0	101	0.0	4							
State							- 1	-	-1				
	Time Monito		Methane	Carbon Dioxide	Oxygen	Sulp	ogen hide	Carbor Monoxid	le	LEL	PID		
	hh:mm	sec	(%/vol)	(%/vol)	(%/vol)	(bt	om)	(ppm)		(%)	(ppm)		
	8:14	0	0.0	0.1	21.0	C	D	(^)		1.0			
		15	0.0	CI	21-C	-)	O		0			
	:	30	0.0	0-1	21.0	0		O	0	.0			
z	:	60	0.0	0.1	21-0	0	0	0	0	.0			
2 ATIC	1	90	0.0	0.1	21.0	C)	0	0	0			
AGE SAS NTR DIN		120	0.0	0.1	21.0	50)	0	C	1.0			
STAGE 2 GAS CONCENTRATION READINGS	;	180	0.0	0.1	21.0	10		0	C	0			
	:	240	0.0	0.1	21.0	0	\	0	0	.0			
		300	0.0	01	21.0	0)	0	0	0.0			
	:	360											
	:	420											
	:	480											
	:	540											
	:	600											
	Depth (from dat	um) to water:	6.860 (m) <u>Time:</u>	11 7	-	LNAPI	_ Top (fro	m datum):	(m)		
STAGE 3	Depth (from dat						DNAP	<u>L</u> Top (fro	m datum):	(m)		
WATER LEVEL OBSERVATION	Hole Purged:	Yes /	(No)	Purge St	art:								
	Purge Volume;	(ltrs)		Purge En	<u>id:</u>	· · · · · · · · · · · · · · · · · · ·							
Post Testing Re	marks:				Sa	amples Ta	ken:	Yes /(No)	Gas	/ Water		
						Depth m datum)	Samı	ple Ref	Тур	e	Container		
									EW .	/ G			
								M S	delle	-			
							/						
						/							
		-											
BYE		Contract Na	ame: UGIO	PLOMY	kaildi	10	Contract Ref: 371654 -			Data Collected			
	THE PARTY	Project Mar	nager / Engine				Page:		-7	Checke	ed:		
La Vanda			Mik	e Mic	111			of	+				

GAS MONITORING FIELD SHEET

Monitoring Date:	13/19	Measureme GL / Top of			Offset GL (m		142		Device	Seri	Serial Number	
Pre-Testing Ren	narks:		Air Temperati	ure: 2	0	°C	15GC	GF	5000	GE	037	31
			Weather: \	ANI	3	(insid	b		- 7/	4		
			Ground Cond	ditions:	sete.	bain	lica)			+		
Exploratory Posi	tion ID:		Wind:			S. U	(9)		Tidal	State: (if	applicabl	e)
RH	RHIZ				NONE / LIGHT / MEDIUM / STRONG High / Low / Rising							/ Falling
D''		Monitoring Ro			1			Number:				
Install Type: Sli	NGLE)/ DOUBL	E Pipe Ref	: 1) Shallow 2) Shallow 2) Deep Pipe Diameter: 19mm / 40mm / 50mm / Ot					ther	(mm)		
Test Time of Monitoring			Gas /	Atmospher Pressure		erential essure	Gas to	<u>ap:</u>	CHOILE OF		DUBLE.	
Sequence	hh:mm	sec	(I/hr)	(mb)		(mb)			SINGLE)	1 00	DUBLE	
STAGE 1 InItial	9:50		0.0	1011	-C	0.02	Obser	vation	<u>s:</u>			
GAS FLOW State	0:51		0.0	1011	1							
- Oldice	Time	of.			1	-				T	T	
	Monito		Methane	Carbon Dioxide		xygen	Hydro Sulpi	hide	Carbon Monoxid	e	LEL	PID
	hh:mm	sec	(%/vol)	(%/vol)	(%	%/vol)	(pp	m)	(ppm)		(%)	(ppm)
	9:54	0	0.0	0-1	20	3.8	C		0	0	0.0	
	\ : \ '	15	0.0	0.3	10	1.7	1	0		C	.0	
	1	30	0.0	0.4	17	3.7	1		0	C	.0	
Z O	:	60	0.0	0.5	R	3.4	(0	0	.0	
ATIC	:	90	0.0	0.5	[9	3.4	1		0	0	.0	
STAGE 2 GAS CONCENTRATION READINGS	:	120	0.0	0.5	f	8.4	1		0	C	0.0	
ST NCE		180	0.0	0.5	15	3.3	1		_0	0	0	
S	:	240	0.0	0.5	18	1.2	1		0	0	0	
		300	0.0	0.5	15	3-2	(0	0	0	
	1	360										
		420										
	:	480										
		540										
	:	600			<u> </u>							
	Depth (from dat	um) to water:	4.366 (m) <u>Time:</u>		*		LNAP	L Top (fror	n datum): —	(m)
STAGE 3 WATER LEVEL	Depth (from dat		150:5 4 4m)			W	DNAF	L Top (fror	n datum): -	(m)
OBSERVATION	Hole Purged:	(Yes) /	No	Purge S	Start:	10:	_					
	Purge Volume:	(ltrs)	5	Purge E	End:	10:	25					
Post Testing Ren	narks:					Lancas de la companya del companya del la companya del companya de la companya del companya de la companya del la companya de	ples Ta	ken:	(Yes) / I	No	Gas /	(Water)
						De _l	pth fatum)	Sam	ple Ref	Тур	e	Container
										EW	/ G /	2×1Ese
												X5CCM1
											1	xive 110h
											1	ruial
		Contract Na	ime:					Contro	act Ref:		I Data C	ollected By:
THE REAL PROPERTY.		Contract Na	USIS	Mom	\mathrew \ma	MIM) l	_	7 1654	-01	Data Co	ilected by:
Na Pros	MAK	Project Mar	nager / Engineer		i ich	(10111)	Page:		- 01	Checke	d:
	PH B		Mike		\wedge			6 of 7				

GAS MONITORING FIELD SHEET

Monitoring &	/3/19	Measureme	pipe Other GL (m) O C				<u>Device</u>			al Numb	er <u>Daily</u> Check		
Pre-Testing Ren	narks:		Air Tempera	nture:		RG	GA	5000	G	303 A	01		
	1		Weather:	N/A									
1			The State of School State of School		1/6%	-							
			Ground Cor	nditions:	We tui	iding							
Exploratory Posi	tion ID:		Winds	ungang a mag				Tidal	State: (if	applicab	ole)		
l WSC	75		NONE	LIGHT / ME	DIUM / ST	RONG	Hi	gh / Lo	ow /	Rising	/ Falling		
		I	Monitoring Round Number: Test Number:										
Install Type: Si	NGLE) DOUBL	E Pipe Re	f: 1) Shallow) Shallow 2) Deep Pipe Diameter: 19mm / 40mm / 50mm) Ot						her	(mm)		
Test	Time		Gas	Atmospheric	Differential	Gas t	<u>ар:</u>						
Sequence	Monito	oring	Flow (l/hr)	Pressure (mb)	Pressure (mb)		SINGLE) / DOUBLE						
	hh:mm	sec	(""")			01	43						
STAGE 1 Initial	11:00		0.0	1010	0.02	Obse	vation	<u>S:</u>					
FLOW Steady	11:03		O.RI										
	Time	of									515		
	Monito		Methane	Carbon Dioxide	Oxygen	Hydr Sulp		Carbor Monoxid		LEL	PiD		
	hhumm sec		(%/vol)	(%/vol)	(%/vol)	(pp	om) (ppm)			(%)	(ppm)		
	AI : 06	0	10,00	0.1	20.9	0	\	0	0	.0			
		15	0.0		003	7	<u></u>	~					
	1		0.0	0.6	20.	0	_	8		0			
		30	0.0	0.0	19.9	C)	0	10	0			
N	3	60	0.0	0.6	14.8	C)	0	0	0			
2 ATIG	:	90	00	0.6	19.8	C)	0	0	0			
STAGE 2 GAS CONCENTRATION READINGS	:	120	00	0.6	19,8	C)	0	0	· (C)			
		180	0.0	06	1C.7	0	31	0	0	.0			
NO.		240	0.0	06	19.7		1		0	0			
		300	00	0.6	10.7	1		(1)	10	7			
		360	0.0	0.0	4-1		((1				
	*	420											
		480							+				
									+-				
		540											
	•	600	500										
	Depth (from dat		V ~	m) <u>Time:</u>			LNAF	PL Top (fro	m datum)	:ا	(m)		
STAGE 3 WATER LEVEL	Depth (from dat	tum) to well ba	ase: 1-47.0	m)			DNA	PL Top (fro	m datum)	i:	(m)		
OBSERVATION	Hole Purged:	Yes /	(No)	Purge Sta	art: ———								
	Purge Volume:	(ltrs)		Purge En	d:								
Post Testing Re	marks:				Sam	nples Ta	ken:	Yes' /	No	Gas	/ Water		
	_					epth	San	nple Ref	Тур	_	Container		
WS	Dia				(from	datum)	Odin	ipic resi	EW /		Container		
	~)								EVV /	-			
William Village		Contract Na	ame:	hear 11	March.	, V. y		act Ref:			ollected By:		
	THAT		. uq19	OKOWI	WIND		5	7165	4-01),5		
	THE PARTY	Project Mai	nager / Engine	er:	Λ		Page		7	Checke	∍d: Ln		
E VIIVE	PPEN VA	1	Mike	me: Magy bown building mager/Engineer: Mike Man					7 of 7				