APPENDIX J
GROUND GAS AND GROUNDWATER MONITORING DATA

IN-SITU GAS MONITORING RESULTS

	Start Date	End Date	[Pressures]	Previous	During	Start	End	Equipment Used & Remarks
Round 1	08/03/2019	08/03/2019		Rising	Falling	1011	1010	Aquaread SN-SSL1 + Dipmeter + GA5000 + Weather: Cloudy + Ground: Dry + Wind: Light + Air Temp: 5DegC + Round Summary: Gas and groundwater
Round 2	12/04/2019	12/04/2019		Rising	Constant	1025	1025	Dipmeter + GA5000 + Weather: Sunny + Ground: Dry + Wind: Light + Air Temp: 4DegC + Round Summary: Gas and groundwater
Round 3	20/05/2019	20/05/2019		-	Constant	1011	1011	Aquaread SN-SSL1 + Dipmeter + GA5000 + Weather: Overcast + Ground: Dry + Wind: None + Air Temp: 13DegC + Round Summary: Gas and groundwater
Round 4	06/06/2019	06/06/2019		-	Rising	1008	1009	Dipmeter + GA5000 + Weather: Overcast - light rain intermittent + Ground: Dry + Air Temp: 16DegC + Round Summary: Gas and groundwater
Round 5	08/07/2019	08/07/2019		-	Constant	1019	1019	Dipmeter + GA5000 + Weather: Overcast + Ground: Dry + Air Temp: 15DegC + Round Summary: Gas and groundwater
Round 6	07/08/2019	07/08/2019		-	Rising	1003	1004	Dipmeter + GA5000 + Weather: Overcast + Ground: Dry + Air Temp: 19DegC + Round Summary: Gas and groundwater

Exploratory Position ID	Monitoring Round	Measured Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (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
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Hertfordshire
HP3 9RT

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

Contract: **Ugly Brown Building**

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/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	$0.0_{(I)}$	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	$0.0_{(I)}$	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	

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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (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 purged and groundwater sample 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	

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Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (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	$0.0_{(I)}$	4.55	0.1	0.0	20.8	-	0	0	
	Remarks: Borehole purged and groundwater sample 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	$0.0_{(I)}$	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	

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Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (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	$0.0_{(I)}$	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	$0.0_{(I)}$	4.51	0.1	0.0	20.9	0.0	0	0	
BH13	6	---	15 secs	-	-	$0.0_{(SS)}$	-	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	

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Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/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	

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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	$0.0_{(I)}$	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.

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Monitoring Round	Installation Depth (mbgl)	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	

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

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18 Frogmore Road
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Hertfordshire
HP3 9RT

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Contract: **Ugly Brown Building**

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IN-SITU WATER MONITORING RESULTS

	Weather	Ground Conditions	Wind Conditions	Air Temperature (°C)	Equipment Used & Remarks
Round 1	Cloudy	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 4	Overcast - light rain intermittent	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.
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.
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. Borehole purged afterwards.
BH11	1	35	2 / 1	7.00	4.81	2.00 to 7.00	12/04/2019 07:41	2.29	19.41	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'.

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IN-SITU WATER MONITORING RESULTS

Weather	Ground Conditions	Wind Conditions	Air Temperature (°C)	Equipment Used & Remarks

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
BH13	1	50	2 / 1	5.00	5.59	1.00 to 5.00	12/04/2019 08:10	4.53	17.30	readings. Borehole purged afterwards. Operator: EOBrien

Key: NDA denotes 'no data available'.

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IN-SITU WATER MONITORING RESULTS

Weather	Ground Conditions	Wind Conditions	Air Temperature (°C)	Equipment Used & Remarks

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.
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'.

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Contract: **Ugly Brown Building**

IN-SITU WATER MONITORING RESULTS

Weather	Ground Conditions	Wind Conditions	Air Temperature (°C)	Equipment Used & Remarks

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

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:
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APPENDIX K
GROUNDWATER SAMPLING RECORDS

FIELD CALIBRATION RECORD SHEET

Contract Name:	Contract Reference:	Device Type:	Serial Number:
Ugly Brown Building	371654-01	GASCOD	GSC3701
Technician Name:	**Date of Visit:**	**Manufacturers Calibration Due:**	
Jack Sheridan	8/3/19	07/05/19	

Please initial to confirm that you've received, read and signed the SHE Plan (or equivalent document) for this site: Initials: JS EOB

Daily Field Calibration

To ensure accuracy, **prior** to each monitoring visit, a mixture of 4%v/vCH_4; 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	4.0	5.0	0.0	50
Mixture 2 (Target)	0.0	0.0	20.9	0
Achieved	0.0	0.1	20.9	0

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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:-

	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	3.9	4.9	-0.3	50
Mixture 2 (Target)	0.0	0.0	20.9	0
Achieved	0.0	0.0	20.9	0

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Calibration / Verification Performed By: JSheridan + EO'Brien

Calibration / Verification Checked By: SG

4.653
22.457

Groundwater Sampling Data Form

Project Information	Project Name:	Ugly Brown Building		
	Project Number:	371654		
	Sampling Date:	8/3/19	Sampled by:	EOB
	Weather:	6°C ↗, sunny, light winds		
	Well Notes - e.g. Condition, Access, Safety:			

Monitoring Information	Water Quality Meter Used:	Aquaread	Water Level Meter Used (as applicable):	Interface Probe:	
				Dip Meter:	✓
	Water Quality Meter Last Calibrated:	Dissolved Oxygen: 8/3/19		pH, ORP, Specific Conductivity:	8/3/19

Typical Parameter Stabilisation Criteria for Low-Flow Sampling	
Dissolved Oxygen (D.O.)	0.3 mg/l
Specific Conductivity (Sp.Cond)	3%
p.H	0.1 unit
Oxygen Reduction Potential (ORP)	10mV
* For REDOX correction, see separate guidance	

Well Location	BH11
Well Diameter (mm)	19
Well Material	—
Static Water Level (mTOC)	1.934
LNAPL Present?	Y / N ✓
LNAPL Level (mTOC)	—
Well Headspace Reading (PID/FID)	—
Purge Method	Low Flow ✓ / Other:
Sampling Method	Peristaltic / Other: ✓ / Bladder
Pump Intake Depth (mTOC)	2.934
Well Depth (mTOC)	3.889
DNAPL Present?	Y / N ✓
DNAPL Level (mTOC)	—

Purge Start Time: 08:34

Time (HH:mm)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (mTOC)	Corr. REDOX (mV)*	Notes / Flow (ml/min)
08:38	9.70	3385	5.78	8.80	-20.1	1.988		TOP 27.2cm BGL
08:41	11.50	3370	4.35	8.73	-48.8	2.010		
08:44	11.75	3377	3.17	8.71	-50.7	2.048		25 s to fill 40ml vial.
08:47	11.90	3378	3.00	8.70	-44.8	2.080		
08:50	11.93	3386	3.08	8.70	-43.7	2.109		

Sampling Notes (e.g. oil/colour/odour), Reasons if not monitored: HC odour, opaque, brown. Silty.

Sample Containers Obtained: 2x1L, 1x500ml, 1x40ml vial, 1x100ml HNO3

Sample Collection Time: 08:51

Well Location	BH03
Well Diameter (mm)	19
Well Material	—
Static Water Level (mTOC)	1.366
LNAPL Present?	Y / N ✓
LNAPL Level (mTOC)	—
Well Headspace Reading (PID/FID)	—
Purge Method	Low Flow ✓ / Other:
Sampling Method	Peristaltic / Other: ✓ / Bladder
Pump Intake Depth (mTOC)	2.366
Well Depth (mTOC)	7.528
DNAPL Present?	Y / N ✓
DNAPL Level (mTOC)	—

Purge Start Time: 09:24

Time (HH:mm)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (mTOC)	Corr. REDOX (mV)*	Notes / Flow (ml/min)
09:27	10.10	3730	2.10	8.73	+41.0	1.420		TOP 16.7cm BGL
09:30	10.40	3706	1.21	8.66	+38.8	1.450		
09:33	10.50	3738	1.07	8.64	+35.6	1.500		32 s to fill 40ml vial
09:36	10.50	3770	1.04	8.65	+28.9	1.550		
09:39	10.60	3776	1.00	8.65	+29.5	1.600		

Sampling Notes (e.g. oil/colour/odour), Reasons if not monitored: No odour, brown/yellow tinged opaque.

Sample Containers Obtained: As above

Sample Collection Time: 09:40

Checked / signed by:	Sg

2/3 7

Well Location	BH05
Well Diameter (mm)	50
Well Material	
Static Water Level (mTOC)	1.377
LNAPL Present?	Y / N ✓
LNAPL Level (mTOC)	
Well Headspace Reading (PID/FID)	←
Purge Method	Low Flow ✓ / Other:
Sampling Method	Peristaltic ✓ Other: / Bladder
Pump Intake Depth (mTOC)	2.377
Well Depth (mTOC)	8.965
DNAPL Present?	Y / N ✓
DNAPL Level (mTOC)	—

Purge Start Time			10:16			Depth to Water (mTOC)	Corr. REDOX (mV)*	Notes / Flow (ml/min)
Time (HH:mm)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)			
10:19	12.78	4683	2.98	8.72	-57.4	1.420		Silty base
10:22	13.70	4705	1.63	8.69	-68.2	1.480		
10:25	14.10	4740	1.03	8.68	-69.9	1.550		
10:28	14.50	4760	0.96	8.68	-68.8	1.620		BH inside no light!
10:31	14.60	4771	0.89	8.68	-68.2	1.680		
								ToP 13.3cm BGL
								35 5 to fill 40ml vial.

Sampling Notes (e.g. oil/colour/odour), Reasons if not monitored	HC odour, opaque, yellowy fringe.
Sample Containers Obtained	Standard as on prev. pg
Sample Collection Time	10:32

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Well Location	WS03
Well Diameter (mm)	50
Well Material	—
Static Water Level (mTOC)	1.693
LNAPL Present?	Y / N ✓
LNAPL Level (mTOC)	—
Well Headspace Reading (PID/FID)	—
Purge Method	Low Flow / Other:
Sampling Method	Peristaltic / Other: / Bladder
Pump Intake Depth (mTOC)	
Well Depth (mTOC)	1.972
DNAPL Present?	Y / N ✓
DNAPL Level (mTOC)	—

Purge Start Time			10:57			Depth to Water (mTOC)	Corr. REDOX (mV)*	Notes / Flow (ml/min)
Time (HH:mm)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)			
								ToP 23.9cm AGL

Sampling Notes (e.g. oil/colour/odour), Reasons if not monitored	
Sample Containers Obtained	
Sample Collection Time	

RSK

Well Location	
Well Diameter (mm)	
Well Material	
Static Water Level (mTOC)	
LNAPL Present?	Y / N
LNAPL Level (mTOC)	
Well Headspace Reading (PID/FID)	
Purge Method	Low Flow / Other:
Sampling Method	Peristaltic / Other: / Bladder
Pump Intake Depth (mTOC)	
Well Depth (mTOC)	
DNAPL Present?	Y / N
DNAPL Level (mTOC)	

Purge Start Time						Depth to Water (mTOC)	Corr. REDOX (mV)*	Notes / Flow (ml/min)
Time (HH:mm)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)			

Sampling Notes (e.g. oil/colour/odour), Reasons if not monitored	
Sample Containers Obtained	
Sample Collection Time	

RSK

Checked / signed by:	SG

3/8/7

Well Location	BH12 A (D)
Well Diameter (mm)	19
Well Material	—
Static Water Level (mTOC)	4.653
LNAPL Present?	Y [ ] N [✓]
LNAPL Level (mTOC)	—
Well Headspace Reading (PID/FID)	—
Purge Method	Low Flow [✓] / Other: [ ]
Sampling Method	Peristaltic [✓] Other: [ ] / Bladder [ ]
Pump Intake Depth (mTOC)	@ 22.000
Well Depth (mTOC)	22.487
DNAPL Present?	Y [ ] N [✓]
DNAPL Level (mTOC)	—

Purge Start Time: 8:50

Time (HH:mm)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (mTOC)	Corr. REDOX (mV)*	Notes / Flow (ml/min)
8:56	11.10	5877	3.63	6.57	-3.2	5.060		Time to fill 40ml vial = 22 s
8:59	11.60	5892	2.40	6.55	-53.0	5.575		
9:02	12.00	5956	0.96	6.52	-80.1	5.870		
9:05	12.20	5933	0.71	6.50	-90.3	6.171		
9:08	12.18	5952	0.47	6.49	-98.2	6.437		
9:11	12.20	5927	0.43	6.50	-102.3	6.756		
9:14	12.20	5925	0.35	6.50	-106.2	7.010		
9:17	12.10	5927	0.32	6.50	-109.1	7.301		
9:20	12.10	5927	0.30	6.51	-110.0	7.555		Offset = -0.112m BGL

Sampling Notes (e.g. oil/colour/odour), Reasons if not monitored: cloudy grey, no oil, no odour

Sample Containers Obtained: 2x1litre, 1x500ml, 1x yellow, 1x vial

Sample Collection Time: 9:20

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Well Location	BH13
Well Diameter (mm)	50
Well Material	—
Static Water Level (mTOC)	4.355
LNAPL Present?	Y [ ] N [✓]
LNAPL Level (mTOC)	—
Well Headspace Reading (PID/FID)	—
Purge Method	Low Flow [✓] / Other: [ ]
Sampling Method	Peristaltic [✓] Other: [ ] / Bladder [ ]
Pump Intake Depth (mTOC)	5.350
Well Depth (mTOC)	5.414
DNAPL Present?	Y [ ] N [✓]
DNAPL Level (mTOC)	—

Purge Start Time: 10:20

Time (HH:mm)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (mTOC)	Corr. REDOX (mV)*	Notes / Flow (ml/min)
10:25	15.13	1638	4.95	7.31	-58.4	4.388		Prioritised samples over readings (spoke to Claire)
					20 seconds fill	40ml	60 (vial)	Offset = -0.142m BGL

Sampling Notes (e.g. oil/colour/odour), Reasons if not monitored: Slightly cloudy, no oil, no odour

Sample Containers Obtained: 2x1litre, 1x500ml, 1x yellow, 1x vial

Sample Collection Time: 10:26

RSK

Well Location	
Well Diameter (mm)	
Well Material	
Static Water Level (mTOC)	
LNAPL Present?	Y [ ] N [ ]
LNAPL Level (mTOC)	
Well Headspace Reading (PID/FID)	
Purge Method	Low Flow [ ] / Other: [ ]
Sampling Method	Peristaltic [ ] Other: [ ] / Bladder [ ]
Pump Intake Depth (mTOC)	
Well Depth (mTOC)	
DNAPL Present?	Y [ ] N [ ]
DNAPL Level (mTOC)	

Purge Start Time:

Time (HH:mm)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (mTOC)	Corr. REDOX (mV)*	Notes / Flow (ml/min)

Sampling Notes (e.g. oil/colour/odour), Reasons if not monitored:

Sample Containers Obtained:

Sample Collection Time:

RSK

Checked / signed by: Sg

GAS MONITORING FIELD SHEET

Monitoring Date: 8/3/19	Measurement datum: GL / Top of pipe / Other	Offset to GL (m) -0.091	Device	Serial Number	Daily Check
Pre-Testing Remarks:	Air Temperature: 5 °C BGC		GFM000	GS03701	✓
	Weather: Cloudy				
	Ground Conditions: Dry Pavement				
Exploratory Position ID: BH12A (S)	Wind: NONE / LIGHT / MEDIUM / STRONG		Tidal State: (if applicable)		
	Monitoring Round Number:		High / Low / Rising / Falling		
			Test Number:		

Install Type: SINGLE / DOUBLE | Pipe Ref: 1) Shallow 2) Deep | Pipe Diameter: 19mm / 40mm / 50mm / Other _____ (mm)

Gas tap: SINGLE / DOUBLE

Observations:

Test Sequence	Time of Monitoring hh:mm	Time of Monitoring sec	Gas Flow (l/hr)	Atmospheric Pressure (mb)	Differential Pressure (mb)
STAGE 1 GAS FLOW Initial	8:11		0.0	1011	-0.02
STAGE 1 GAS FLOW Steady State	8:11		0.0		

STAGE 2 GAS CONCENTRATION READINGS

Time of Monitoring hh:mm	Time of Monitoring sec	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	LEL (%)	PID (ppm)
8:14	0	0.0	0.1	21.0	0	0	0.0	
:	15	0.0	0.1	21.0	0	0	0.0	
:	30	0.0	0.1	21.0	0	0	0.0	
:	60	0.0	0.1	21.0	0	0	0.0	
:	90	0.0	0.1	21.0	0	0	0.0	
:	120	0.0	0.1	21.0	0	0	0.0	
:	180	0.0	0.1	21.0	0	0	0.0	
:	240	0.0	0.1	21.0	0	0	0.0	
:	300	0.0	0.1	21.0	0	0	0.0	
:	360							
:	420							
:	480							
:	540							
:	600							

STAGE 3 WATER LEVEL OBSERVATION

Depth (from datum) to water: 4.862 (m)	Time: :	LNAPL Top (from datum): (m)
Depth (from datum) to well base: 4.985 (m)		DNAPL Top (from datum): (m)
Hole Purged: Yes / No	Purge Start: :	
Purge Volume: (ltrs)	Purge End: :	

Post Testing Remarks:

Samples Taken: Yes / No — Gas / Water

Depth (from datum)	Sample Ref	Type EW / G	Container

RSK	Contract Name: ugly brown kaiding	Contract Ref: 371654-01	Data Collected By: S.S
	Project Manager / Engineer: Mike Mann	Page: 5 of 7	Checked:

SJ

GAS MONITORING FIELD SHEET

Monitoring Date: 8/3/19	Measurement datum: GL / Top of pipe / Other _____	Offset to GL (m) -0.142 BGL	Device	Serial Number	Daily Check
Pre-Testing Remarks:	Air Temperature: 20 °C (inside building)		GA5000	G503701	✓
	Weather: N/A				
	Ground Conditions: Concrete				
Exploratory Position ID: BH13	Wind: (NONE) / LIGHT / MEDIUM / STRONG		Tidal State: (if applicable)		
	Monitoring Round Number: 1		High / Low / Rising / Falling		
			Test Number:		

Install Type: (SINGLE) / DOUBLE | Pipe Ref: 1) Shallow 2) Deep | Pipe Diameter: 19mm / 40mm / (50mm) / Other _____ (mm)

Test Sequence	Time of Monitoring hh:mm	Time of Monitoring sec	Gas Flow (l/hr)	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas tap: (SINGLE) / DOUBLE
STAGE 1 GAS FLOW Initial	9:50		-0.0	1011	-0.02	Observations:
STAGE 1 GAS FLOW Steady State	9:51		-0.0			

STAGE 2 GAS CONCENTRATION READINGS

Time of Monitoring hh:mm	Time of Monitoring sec	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	LEL (%)	PID (ppm)
9:54	0	0.0	0.1	20.8	0	0	0.0	
:	15	0.0	0.3	19.7	1	0	0.0	
:	30	0.0	0.4	18.7	1	0	0.0	
:	60	0.0	0.5	18.4	1	0	0.0	
:	90	0.0	0.5	18.4	1	0	0.0	
:	120	0.0	0.5	18.4	1	0	0.0	
:	180	0.0	0.5	18.3	1	0	0.0	
:	240	0.0	0.5	18.2	1	0	0.0	
:	300	0.0	0.5	18.2	1	0	0.0	
:	360							
:	420							
:	480							
:	540							
:	600							

STAGE 3 WATER LEVEL OBSERVATION

Depth (from datum) to water: 4.365 (m)	Time: :	LNAPL Top (from datum): — (m)	
Depth (from datum) to well base: 5.414 (m)		DNAPL Top (from datum): — (m)	
Hole Purged: (Yes) / No	Purge Start: 10:20		
Purge Volume: (ltrs) 0.5	Purge End: 10:25		

Post Testing Remarks:

Samples Taken: (Yes) / No | Gas / (Water)

Depth (from datum)	Sample Ref	Type EW / G	Container
			2x1ltr
			1x500ml
			1x1ltr
			1x vial

RSK	Contract Name: Ugly brown building	Contract Ref: 371654-01	Data Collected By: JS
	Project Manager / Engineer: Mike Mcann	Page: 6 of 7	Checked:

Sg

GAS MONITORING FIELD SHEET

Monitoring Date:	Measurement datum:	Offset to GL (m)	Device	Serial Number	Daily Check
8/3/19	GL / Top of pipe / Other ____	0.00	GA5000	GS03701	✓

Pre-Testing Remarks:

Air Temperature: 10 °C

Weather: N/A

Ground Conditions: concrete building inside

Wind: NONE / LIGHT / MEDIUM / STRONG

Exploratory Position ID: WS05

Tidal State: (if applicable) — High / Low / Rising / Falling

Monitoring Round Number: 1

Test Number:

Install Type: SINGLE / DOUBLE | Pipe Ref: 1) Shallow 2) Deep | Pipe Diameter: 19mm / 40mm / 50mm / Other ____ (mm)

Gas tap: SINGLE / DOUBLE

Observations:

Test Sequence	Time of Monitoring hh:mm	Time of Monitoring sec	Gas Flow (l/hr)	Atmospheric Pressure (mb)	Differential Pressure (mb)
STAGE 1 GAS FLOW Initial	11:02		0.0	1010	0.02
STAGE 1 GAS FLOW Steady State	11:03		0.01		

STAGE 2 GAS CONCENTRATION READINGS

Time of Monitoring hh:mm	Time of Monitoring sec	Methane (%/vol)	Carbon Dioxide (%/vol)	Oxygen (%/vol)	Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	LEL (%)	PID (ppm)
11:06	0	0.0	0.1	20.9	0	0	0.0	
:	15	0.0	0.6	20.3	0	0	0.0	
:	30	0.0	0.6	19.9	0	0	0.0	
:	60	0.0	0.6	19.8	0	0	0.0	
:	90	0.0	0.6	19.8	0	0	0.0	
:	120	0.0	0.6	19.8	0	0	0.0	
:	180	0.0	0.6	19.7	1	0	0.0	
:	240	0.0	0.6	19.7	1	0	0.0	
:	300	0.0	0.6	19.7	1	0	0.0	
:	360							
:	420							
:	480							
:	540							
:	600							

STAGE 3 WATER LEVEL OBSERVATION

Depth (from datum) to water: Dry (m)	Time: :	LNAPL Top (from datum): (m)
Depth (from datum) to well base: 1.92 (m)		DNAPL Top (from datum): (m)
Hole Purged: Yes / No	Purge Start: :	
Purge Volume: (ltrs)	Purge End: :	

Post Testing Remarks:

WS Dry

Samples Taken: Yes / No — Gas / Water

Depth (from datum)	Sample Ref	Type EW / G	Container

RSK	Contract Name: Rugby brown building	Contract Ref: 371654-01	Data Collected By: J.S
	Project Manager / Engineer: Mike McCann	Page: 7 of 7	Checked: SJ