

WYG GEO-ENVIRONMENT

1st Floor, The Pavilion, Botleigh Grnage Office Campus, Hedge End, Southampton, SO30 2AF



GROUND GAS MONITORING RECORD SHEET

Client: Dandara				Job No: A112666								Instruments Used (Make, Model, SN, Calibrated): PID Mini Rae 3000 SN592-902533 (27/09/2019), GA5000 SN = G502101 (04/04/2019), Solinst water meter							
Project Name: Land at Stakers Farm, Yapton				Date: 02/10/2019															
Weather: Sunny 18°C				Monitored By: EH															
Exploratory Hole No.	Peak ¹		Time to reach steady concentration (secs)	Steady ²						Flow Rate Peak (L/hr)	Time to reach steady flow (secs)	Flow Rate Steady (L/hr)	Relative pressure (mb)	Atmospheric Pressure (mbar)	Water Depth (m bgl)	Base Depth (m bgl)	Remarks		
	CH ₄	CO ₂		CH ₄	CO ₂	O ₂	H ₂ S ³	CO ³	PID										
	(% vol)	(% vol)		(% vol)	(% vol)	(% vol)	(ppm)	(ppm)	(ppm)										
WS01	0.1	3.6	70	0.0	3.6	17.7	0.0	0.0	1.2	0	15	0	-1.2	1023	Dry	3.053			
WS04	0.0	2.8	50	0.0	2.3	18.0	0.0	0.0	2.6	0.1	15	0.1	-2.37	1022	Dry	3.059			
WS05	0.1	2.6	70	0.1	2.6	18.8	0.0	1.0	4.1	0.1	15	0	-1.05	1022	4.755	5.797	CO peak was 17ppm at 15 seconds, 3ppm by 30seconds.		
WS06	0.1	2.1	70	0.1	2.0	19.1	0.0	0.0	0.8	0.1	15	0.1	-1.92	1020	Dry	2.841			
WS09	0.1	3.5	60	0.1	3.5	18.2	0.0	0.0	3.6	0.1	15	0.1	-0.98	1021	4.659	4.755			
WS10	0.0	1.9	70	0.0	1.9	19.3	0.0	0.0	1.5	0	15	0	0.02	1023	Dry	3.025			

Background Atmospheric presure:	Before	Before	Before	On Day	On Day	On Day	On Day	On Day	On Day	On Day	On Day	On Day	On Day	After	After	After
	-3 days	-2 days	-1 day	-3 hours	-2 hours	-1 hours	Onsite	+1 hours	+2 hours	+3 hours	+1 day	+2 days	+3 days			
Atmospheric Pressure (millibar)	996	1010	998	1016	1018	1019	1020	1020	1021	1021	1021	1014	1006	1015		
Trend	Low	Rising	Low	Rising	Rising	Rising	Rising	Steady	Steady	Steady	Falling	Falling	Rising			

Atmospheric pressure obtained from: <https://www.timeanddate.com/weather/602633422/historic>

Ambient Gas Levels:	CH ₄	CO ₂	O ₂	H ₂ S	CO	PID	Atmos
	(%)	(%)	(%)	(ppm)	(ppm)	ppm	(mbar)
Before Monitoring	0.1	0.1	20.8	0.0	0.0	0.0	1019
After Monitoring	0.1	0.1	21.8	0.0	0.0	0.0	1023

- 1 The peak reading is the maximum recorded level during a monitoring event.
- 2 The steady reading is the level which remained constant after approximately 1 minute.
- 3 Recorded values are calculated from the Ambient Gas readings (live zero)

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Client: Dandara				Job No: A112666								Instruments Used (Make, Model, SN, Calibrated): GFM435 (SN10767), Solinst water meter, PID Mini Rae Lite (592-902533)							
Project Name: Land at Stakers Farm, Yapton				Date: 18/10/2019															
Weather: Stormy. 15-13oC. Rain.				Monitored By: EH															
Exploratory Hole No.	Peak ¹		Time to reach steady concentration (secs)	Steady ²						Flow Rate Peak (L/hr)	Time to reach steady flow (secs)	Flow Rate Steady (L/hr)	Relative pressure (mb)	Atmospheric Pressure (mbar)	Water Depth (m bgl)	Base Depth (m bgl)	Remarks		
	CH ₄	CO ₂		CH ₄	CO ₂	O ₂	H ₂ S ³	CO ³	PID										
	(% vol)	(% vol)		(% vol)	(% vol)	(% vol)	(ppm)	(ppm)	(ppm)										
WS01	0.0	4.0	60	0.0	4.0	15.9	0.0	0.0	<1	0	15	0	NT	997	Dry	3.03			
WS04	0.0	3.1	70	0.0	3.1	15.8	0.0	0.0	<1	0	15	0	NT	997	Dry	3.055			
WS05	0.0	2.3	60	0.0	2.3	17.9	0.0	1.0	<1	0	15	0	NT	996	4.28	5.79			
WS06	0.0	2.4	60	0.0	2.4	17.8	0.0	0.0	<1	0	15	0	NT	998	Dry	2.815			
WS09	0.0	3.7	60	0.0	3.7	16.8	0.0	0.0	<1	0	15	0	NT	999	4.235	4.84			
WS10	0.0	2.8	60	0.0	2.8	15.5	0.0	0.0	<1	0	15	0	NT	999	Dry	3.03			

Background Atmospheric presure:	Before	Before	Before	On Day	On Day	On Day	On Day	On Day	On Day	On Day	After	After	After
	-3 days	-2 days	-1 day	-3 hours	-2 hours	-1 hours	Onsite	+1 hours	+2 hours	+3 hours	+1 day	+2 days	+3 days
Atmospheric Pressure (millibar)	1005	1004	1005	999	1001	1000	999	996	1005	1005	1002	1010	1020
Trend	Steady	Steady	Steady	Falling	Steady	Steady	Steady	Falling	Steady	Steady	Falling	Rising	Steady

Atmospheric pressure obtained from: <https://www.timeanddate.com/weather/602633422/historic>

Ambient Gas Levels:	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID ppm	Atmos (mbar)
	Before Monitoring	0.0	0.0	20.9	0.0	0.0	998
	After Monitoring	0.0	0.0	20.5	0.0	0.0	996

- 1 The peak reading is the maximum recorded level during a monitoring event.
- 2 The steady reading is the level which remained constant after approximately 1 minute.
- 3 Recorded values are calculated from the Ambient Gas readings (live zero)

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Client: Dandara				Job No: A112666								Instruments Used (Make, Model, SN, Calibrated): GA5000 (SN-G502101), Solinst water meter, PID Mini Rae Lite (592-902533)							
Project Name: Land at Stakers Farm, Yapton				Date: 04/11/2019															
Weather: Stormy. 15-13oC. Rain.				Monitored By: EH															
Exploratory Hole No.	Peak ¹		Time to reach steady concentration (secs)	Steady ²						Flow Rate Peak (L/hr)	Time to reach steady flow (secs)	Flow Rate Steady (L/hr)	Relative pressure (mb)	Atmospheric Pressure (mbar)	Water Depth (m bgl)	Base Depth (m bgl)	Remarks		
	CH ₄	CO ₂		CH ₄	CO ₂	O ₂	H ₂ S ³	CO ³	PID										
	(% vol)	(% vol)		(% vol)	(% vol)	(% vol)	(ppm)	(ppm)	(ppm)										
WS01	0.0	4.2	50	0.0	4.2	14.6	0.0	0.0	1.4	0.1	15	0.1	NT	985	Dry	3.031			
WS04	0.1	3.5	45	0.1	3.4	16.2	0.0	0.0	1.9	0	15	0	NT	984	Dry	3.058			
WS05	0.0	2.5	50	0.0	2.5	18.4	0.0	3.0	5.4	0	15	0	NT	985	3.972	5.751	A Trial Pit has been conducted approximately 2m E. Area had been scraped over by machine - buried the well cover - had to use a metal detector & hand dig to uncover well. Well in okay condition visually.		
WS06	0.0	2.9	50	0.0	2.9	14.9	0.0	0.0	1.6	0	15	0	NT	986	Dry	2.851			
WS09	0.0	2.5	40	0.0	2.5	17.0	0.0	0.0	5.2	0.1	15	0.1	NT	987	3.852	4.779	A Trial pit has been completed/ distrubed area SE and NW (over 10m away). Well was flagged up - however it appears the machine driver drove over well cover still. Well in okay condition.		
WS10	0.0	3.0	45	0.0	3.0	15.6	0.0	0.0	1.2	0	15	0	NT	987	Dry	2.974	A Trial pit has been completed 5-10m away to the East. Well was flagged up.		

Background Atmospheric presure:	Before	Before	Before	On Day	On Day	On Day	On Day	On Day	On Day	On Day	On Day	On Day	After	After	After
	-3 days	-2 days	-1 day	-3 hours	-2 hours	-1 hours	Onsite	+1 hours	+2 hours	+3 hours	+1 day	+2 days	+3 days		
Atmospheric Pressure (millibar)	996	980	983	983	983	983	983	983	983	983	983	999	1003	992	
Trend	Falling	Falling	Rising	Steady	Steady	Steady	Steady	Steady	Steady	Steady	Steady	Rising	Rising	Falling	

Atmospheric pressure obtained from: <https://www.timeanddate.com/weather/@2633422/historic>

Ambient Gas Levels:	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)	PID ppm	Atmos (mbar)
Before Monitoring	0.1	0.0	21.1	0.0	0.0	0.0	984
After Monitoring	0.0	0.0	22.1	0.0	0.0	0.0	987

1 The peak reading is the maximum recorded level during a monitoring event.
2 The steady reading is the level which remained constant after approximately 1 minute.
3 Recorded values are calculated from the Ambient Gas readings (live zero)