

APPENDIX F

Monitoring sheets

GROUNDWATER MONITORING RECORD SHEET

JOB DETAILS			
Site:	Centric Close	Job No:	CG/18804
Date:	16/05/2016	Engineer:	FJC
Time:	AM	Client:	Fairview Ventures Limited
Weather:	cool, dry, overcast		

MONITORING & SAMPLING DETAILS								
Well / Borehole reference:	WS1	WS2	WS3					
Monitoring details								
Ground elevation (+mOD)	32.467	33.357	32.724					
Groundwater depth (mbgl)	Dry	2.824	Dry					
Groundwater elevation (+mOD)	-	30.533	-					
Depth to base of well (mbgl)	2.99	4.97	5.02					
Diameter of well (m)	0.05	0.05	0.05					
Condition of well	Good	Good	Good					
Top of response zone (mbgl)	1	1	1					
Base of response zone (mbgl)	3	5	5					
Free product thickness (m)	-	-	-					
Hydrocarbon sheen noted (Y/N)	-	N	-					
Purging details								
Purge method	-	Bailer	-					
Purged volume (litres)	-	10 litres	-					
Recharge (good / poor)	-	Poor	-					
Sampling details								
Sampling method	-	Bailer	-					
Volume of water sample taken (litres)	-	2B 2V	-					
Volume of free product sample taken (litres)	-	-	-					
Colour / odours noted*	-	Opaque brown, no odour noted	-					
In-situ measurements								
pH	-	7.37	-					
Temperature (°C)	-	12.5	-					
Dissolved oxygen (mg/l)	-	6.2	-					
Redox potential (mV)	-	-	-					
Electrical conductivity (µS/cm)	-	2300	-					
Total dissolved solids (ppt)	-	118	-					
* Respiratory protective equipment to be worn if odours are noted during initial monitoring & on sites which are potentially contaminated								

NOTES

GAS MONITORING RECORD SHEET

JOB DETAILS			
Site:	Centric Close	Job No:	18804
Date:	16/05/2016	Engineer:	FJC
Time:	7:30 - 9:00	Client:	Fairview Ventures Limited

METEOROLOGICAL & SITE INFORMATION							
State of ground:	Dry	☒	Moist	☐	Wet	☐	
Wind:	Calm	☒	Light	☐	Moderate	☐	Strong
Cloud cover:	None	☐	Slight	☒	Cloudy	☐	Overcast
Precipitation:	None	☒	Slight	☐	Moderate	☐	Heavy
Barometric pressure (mb):	1016-1015		Local pressure system*:	Falling		Air temperature (°C):	18

Well No.	Time (s)	Flow (l/hr)	dA (PA)	O ₂ (% vol. in air)	CO ₂ (% vol. in air)	CH ₄ (% vol. in air)	PID (ppm)	Depth to Groundwater (mbgl)	Depth to Base (m)
WS1	0	<0.1	<0.1	19.7	<0.1	<0.1	<0.1	Dry	2.99
	15	<0.1	<0.1	19.6	<0.1	<0.1			
	30	<0.1	<0.1	19.6	<0.1	<0.1			
	45			19.6	<0.1	<0.1			
	60			19.6	<0.1	<0.1			
	90			19.5	<0.1	<0.1			
	120			19.5	<0.1	<0.1			
	150			19.5	<0.1	<0.1			
	180			19.5	<0.1	<0.1			
	240			19.5	<0.1	<0.1			
	300			19.5	<0.1	<0.1			
WS2	0	<0.1	<0.1	19.7	<0.1	<0.1	0.6	2.82	4.97
	15	<0.1	<0.1	19.8	<0.1	<0.1			
	30	<0.1	<0.1	19.8	<0.1	<0.1			
	45			19.8	<0.1	<0.1			
	60			19.8	<0.1	<0.1			
	90			19.8	<0.1	<0.1			
	120			19.8	<0.1	<0.1			
	150			19.9	<0.1	<0.1			
	180			19.9	<0.1	<0.1			
	240			19.9	<0.1	<0.1			
	300			19.9	<0.1	<0.1			
WS3	0	<0.1	<0.1	19.9	<0.1	<0.1	0.2	5.02	5.02
	15	<0.1	<0.1	20.0	<0.1	<0.1			
	30	<0.1	<0.1	20.2	<0.1	<0.1			
	45			20.4	<0.1	<0.1			
	60			20.5	<0.1	<0.1			
	90			20.5	<0.1	<0.1			
	120			20.6	<0.1	<0.1			
	150			20.4	<0.1	<0.1			
	180			20.4	<0.1	<0.1			
	240			20.4	<0.1	<0.1			
	300			20.4	<0.1	<0.1			
	0								
	15								
	30								
	45								
	60								
	90								
	120								
	150								
	180								
	240								
	300								
	0								
	15								
	30								
	45								
	60								
	90								
	120								
	150								
	180								
	240								
	300								

Notes:
The measurement of hydrogen sulphide and hydrocarbon free product is undertaken on a site specific basis, if deemed necessary.
* With reference to the Weather Underground rolling weather archive for weather station.
NR= Not recorded

GAS MONITORING RECORD SHEET

JOB DETAILS			
Site:	Centric Close	Job No:	18804
Date:	01/11/2016	Engineer:	SMS
Time:	14:00	Client:	Fairview Ventures Limited

METEOROLOGICAL & SITE INFORMATION									
State of ground:	Dry	☐	Moist	☒	Wet	☐			
Wind:	Calm	☐	Light	☒	Moderate	☐	Strong	☐	
Cloud cover:	None	☐	Slight	☐	Cloudy	☐	Overcast	☒	
Precipitation:	None	☐	Slight	☒	Moderate	☐	Heavy	☐	
Barometric pressure (mb):	1017		Local pressure system*:		Air temperature (°C):	12			

Well No.	Time (s)	Flow (l/hr)	dA (PA)	O ₂ (% vol. in air)	CO ₂ (% vol. in air)	CH ₄ (% vol. in air)	PID (ppm)	Depth to Groundwater (mbgl)	Depth to Base (m)
WS1	0								
	15	BOREHOLE NOT ACCESSIBLE							
	30								
	45								
	60								
	90								
	120								
	150								
	180								
	240								
	300								
WS2	0								
	15	BOREHOLE NOT ACCESSIBLE							
	30								
	45								
	60								
	90								
	120								
	150								
	180								
	240								
	300								
WS3	0	<0.1	<0.1	20.5	<0.1	<0.1	<0.1	2.95	5.00
	15	<0.1	<0.1	20.5	<0.1	<0.1	<0.1		
	30	<0.1	<0.1	20.5	<0.1	<0.1	<0.1		
	45	<0.1	<0.1	20.5	<0.1	<0.1	<0.1		
	60	<0.1	<0.1	20.4	<0.1	<0.1	<0.1		
	90	<0.1	<0.1	20.4	<0.1	<0.1	<0.1		
	120	<0.1	<0.1	20.4	<0.1	<0.1	<0.1		
	150			20.4	<0.1	<0.1			
	180			20.4	<0.1	<0.1			
	240			20.4	<0.1	<0.1			
	300			20.4	<0.1	<0.1			
	0								
	15								
	30								
	45								
	60								
	90								
	120								
	150								
	180								
	240								
	300								
	0								
	15								
	30								
	45								
	60								
	90								
	120								
	150								
	180								
	240								
	300								

Notes:

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GAS MONITORING RECORD SHEET

JOB DETAILS			
Site:	Centric Close	Job No:	18804
Date:	18/11/2016	Engineer:	BMK
Time:	07:00	Client:	Fairview Ventures Limited

METEOROLOGICAL & SITE INFORMATION									
State of ground:	Dry	☒	Moist	☐	Wet	☐			
Wind:	Calm	☒	Light	☐	Moderate	☐	Strong	☐	
Cloud cover:	None	☐	Slight	☒	Cloudy	☐	Overcast	☐	
Precipitation:	None	☒	Slight	☐	Moderate	☐	Heavy	☐	
Barometric pressure (mb):	988		Local pressure system*:	Rising		Air temperature (°C):	4		

Well No.	Time (s)	Flow (l/hr)	dA (PA)	O ₂ (% vol. in air)	CO ₂ (% vol. in air)	CH ₄ (% vol. in air)	PID (ppm)	Depth to Groundwater (mbgl)	Depth to Base (m)
WS01	0	<0.1	<0.1	19.9	0.1	<0.1	<0.1	Dry	2.96
	15	<0.1	<0.1	20.3	<0.1	<0.1	<0.1		
	30	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	45	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	60	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	90	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	120	<0.1	<0.1	20.4	<0.1	<0.1	<0.1		
	150	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	180	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	240	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	300	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
WS2	0	0.1	1.0	19.5	<0.1	<0.1	<0.1	2.80	4.93
	15	0.0	<0.1	15.6	3.6	<0.1	<0.1		
	30	0.1	1.0	14.8	3.8	<0.1	<0.1		
	45	-0.1	-1.0	14.7	3.9	<0.1	<0.1		
	60	-0.3	-2.0	14.6	3.9	<0.1	<0.1		
	90	<0.1	<0.1	14.6	3.9	<0.1	<0.1		
	120	-0.6	-3.0	14.6	3.9	<0.1	<0.1		
	150	-0.1	-1.0	14.6	4.0	<0.1	<0.1		
	180	<0.1	<0.1	14.6	4.0	<0.1	<0.1		
	240	-0.1	-1.0	14.6	4.0	<0.1	<0.1		
	300	-0.3	-2.0	14.5	4.2	<0.1	<0.1		
WS3	0	<0.1	<0.1	19.5	<0.1	<0.1	<0.1	2.81	5.03
	15	<0.1	<0.1	20.3	<0.1	<0.1	<0.1		
	30	<0.1	<0.1	20.2	0.1	<0.1	<0.1		
	45	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	60	<0.1	<0.1	20.2	-0.2	<0.1	<0.1		
	90	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	120	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	150	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	180	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	240	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	300	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	0								
	15								
	30								
	45								
	60								
	90								
	120								
	150								
	180								
	240								
	300								
	0								
	15								
	30								
	45								
	60								
	90								
	120								
	150								
	180								
	240								
	300								

Notes:

The measurement of hydrogen sulphide and hydrocarbon free product is undertaken on a site specific basis, if deemed necessary.

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GAS MONITORING RECORD SHEET

JOB DETAILS			
Site:	Centric Close	Job No:	18804
Date:	30/11/2016	Engineer:	BMK
Time:	08:00	Client:	Fairview Ventures Limited

METEOROLOGICAL & SITE INFORMATION							
State of ground:	Dry	☒	Moist	☐	Wet	☐	
Wind:	Calm	☒	Light	☐	Moderate	☐	Strong
Cloud cover:	None	☒	Slight	☐	Cloudy	☐	Overcast
Precipitation:	None	☒	Slight	☐	Moderate	☐	Heavy
Barometric pressure (mb):	1030		Local pressure system*:	Rising		Air temperature (°C):	-4

Well No.	Time (s)	Flow (l/hr)	dA (PA)	O ₂ (% vol. in air)	CO ₂ (% vol. in air)	CH ₄ (% vol. in air)	PID (ppm)	Depth to Groundwater (mbgl)	Depth to Base (m)
WS01	0	<0.1	<0.1	19.6	0.1	<0.1	<0.1	Dry	2.96
	15	<0.1	<0.1	19.9	0.2	<0.1	<0.1		
	30	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	45	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	60	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	90	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	120	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	150	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	180	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	240	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	300	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
WS02				BOREHOLE NOT ACCESSIBLE					
WS03	0	<0.1	<0.1	19.6	<0.1	<0.1	<0.1	2.72	5.03
	15	<0.1	<0.1	20.1	<0.1	<0.1	<0.1		
	30	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	45	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	60	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	90	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	120	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	150	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	180	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	240	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	300	<0.1	<0.1	20.2	<0.1	<0.1	<0.1		
	0								
	15								
	30								
	45								
	60								
	90								
	120								
	150								
	180								
	240								
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	180								
	240								
	300								

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