

**Factory Road
Newport**
**Results of Hazardous Gas and Groundwater Monitoring
(Spot Monitoring)**
Project Ref. 8159



Monitoring Event 1

Date:	09/08/2022	Atmospheric Pressure (start):	1.023 mb	Trend:	falling
Time:	10:00	Atmospheric Pressure (end):	1.022 mb		
Engineer:	JA	Site Status:	Developed		
Weather:	Dry, sunny	Ground Conditions:	Hard surfaced		
Instrument:	Gas Data LMSxt G3.18e meter	Next Calibration Due Date:	26/07/2023		
Instrument:	Phocheck 2000+ PID	Next Calibration Due Date:	15/07/2023		

Well ID:	WS02	Well dia.(mm):	50	Date installed:		Response stratum:		Made ground		
		Well depth (m):	2.12			Groundwater depth (m):		1.77		
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	0.0	79.5	0.0	0.0	20.5	0.0	0.0	0.2
After 30 Seconds		0.0	0.0	80.9	0.6	0.0	18.5	0.0	0.0	0.0
After 1 Minute		0.0	0.0	79.6	0.5	0.0	19.9	0.0	0.0	0.0
After 2 Minutes		0.0	<<<<	79.8	0.3	0.0	19.9	0.0	0.0	0.0
Steady State		0.0	<<<<	79.9	0.2	0.0	19.9	0.0	0.0	0.0
min		0.0	0.0	79.5	0.0	0.0	18.5	0.0	0.0	0.0
max		0.0	0.0	80.9	0.6	0.0	20.5	0.0	0.0	0.2
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Well ID:	WS03	Well dia.(mm):		Date installed:		Response stratum:	Made ground		
		Well depth (m):	2.10			Groundwater depth (m):	2.03		
Monitored Variables	dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	0.0	0.0	79.5	0.0	0.0	20.5	0.0	0.0	0.3
After 30 Seconds	0.0	0.0	82.5	0.8	0.0	16.7	0.0	0.0	0.0
After 1 Minute	0.0	0.0	82.8	0.8	0.0	16.4	0.0	0.0	0.0
After 2 Minutes	0.0	0.0	83.0	0.8	0.0	16.2	0.0	0.0	0.0
Steady State	0.0	<<<<	83.1	0.8	0.0	16.1	0.0	0.0	0.0
min	0.0	0.0	79.5	0.0	0.0	16.1	0.0	0.0	0.0
max	0.0	0.0	83.1	0.8	0.0	20.5	0.0	0.0	0.3
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr	Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr	Carbon Dioxide	0 L/hr	
Comments:									

Well ID:	WS01	Well dia.(mm):	50	Date installed:		Response stratum:		Made ground		
		Well depth (m):	1.77			Groundwater depth (m):		Dry		
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	<<<<	79.5	0.0	0.0	20.5	0.0	0.0	0.2
After 30 Seconds		0.0	<<<<	79.4	0.5	0.0	20.1	0.0	0.0	0.0
After 1 Minute		0.0	<<<<	79.4	0.5	0.0	20.1	0.0	0.0	0.0
After 2 Minutes		0.0	<<<<	79.4	0.5	0.0	20.1	0.0	0.0	0.0
Steady State		0.0	<<<<	79.4	0.5	0.0	20.1	0.0	0.0	0.0
min		0.0	0.0	79.4	0.0	0.0	20.1	0.0	0.0	0.0
max		0.0	0.0	79.5	0.5	0.0	20.5	0.0	0.0	0.2
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Key:

dP - differential pressure (well-atmosphere)

LEL - Lower Explosive Limit (methane)

N₂ - nitrogen

CO₂ - carbon dioxide

CH₄ - methane

O₂ - oxygen

H₂S - Hydrogen sulphide

PID - measure of volatile organic compounds

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Monitoring Event 2

Date:	08/09/2022	Atmospheric Pressure (start):	1,000 mb	Trend:	steady
Time:	10:30	Atmospheric Pressure (end):	1,000 mb		
Engineer:	JA	Site Status:	Developed		
Weather:	Dry, cloudy	Ground Conditions:	Hard surfaced		
Instrument:	Gas Data LMSxt G3,18e meter	Next Calibration Due Date:	26/07/2023		
Instrument:	Phocheck 2000+ PID	Next Calibration Due Date:	15/07/2023		

Well ID:	WS02	Well dia.(mm):	50	Date installed:		Response stratum:	Made ground			
		Well depth (m):	2.11			Groundwater depth (m):	1.81			
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		1.0	<<<<	79.6	0.0	-0.1	20.5	0.0	0.1	0.1
After 30 Seconds		4.0	<<<<	80.4	0.9	-0.1	18.8	0.0	0.7	0.1
After 1 Minute		4.0	<<<<	80.2	0.7	-0.1	19.2	0.0	0.7	0.1
After 2 Minutes		4.0	<<<<	79.9	0.6	-0.1	19.6	0.0	0.7	0.1
Steady State		4.0	<<<<	79.9	0.6	-0.1	19.6	0.0	0.7	0.1
min		1.0	0.0	79.6	0.0	-0.1	18.8	0.0	0.1	0.1
max		4.0	0.0	80.4	0.9	-0.1	20.5	0.0	0.7	0.1
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	-0.0007 L/hr		Carbon Dioxide	0.01 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0.0042 L/hr	
Comments:		After turning the machine off and on again, flow and dP showed 0.								

Well ID:	WS03	Well dia.(mm):	50	Date installed:		Response stratum:	Made ground		
		Well depth (m):	2.09			Groundwater depth (m):	1.99		
Monitored Variables	dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	0.0	<<<<	79.6	0.0	0.0	20.4	0.0	0.0	0.1
After 30 Seconds	0.0	<<<<	79.4	0.5	-0.1	20.2	0.0	0.0	0.2
After 1 Minute	0.0	<<<<	79.4	0.5	-0.1	20.2	0.0	0.0	0.2
After 2 Minutes	0.0	<<<<	79.4	0.5	-0.1	20.2	0.0	0.0	0.2
Steady State	0.0	<<<<	79.4	0.5	-0.1	20.2	0.0	0.0	0.2
min	0.0	0.0	79.4	0.0	-0.1	20.2	0.0	0.0	0.1
max	0.0	0.0	79.6	0.5	0.0	20.4	0.0	0.0	0.2
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)				Methane:	0 L/hr	Carbon Dioxide	0.00 L/hr		
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)				Methane:	0.00 L/hr	Carbon Dioxide	0 L/hr		
Comments:									

Well ID:	WS01	Well dia.(mm):	50	Date installed:		Response stratum:		Made ground		
		Well depth (m):	1.77			Groundwater depth (m):		Dry		
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	<<<<	79.6	0.0	-0.1	20.5	0.0	0.0	0.2
After 30 Seconds		0.0	<<<<	79.2	0.8	-0.1	20.1	0.0	0.0	0.0
After 1 Minute		0.0	<<<<	79.1	0.9	-0.1	20.1	0.0	0.0	0.0
After 2 Minutes		0.0	<<<<	79.1	0.9	-0.1	20.1	0.0	0.0	0.0
Steady State		0.0	<<<<	79.1	0.9	-0.1	20.1	0.0	0.0	0.0
min		0.0	0.0	79.1	0.0	-0.1	20.1	0.0	0.0	0.0
max		0.0	0.0	79.6	0.9	-0.1	20.5	0.0	0.0	0.2
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Key:

dP - differential pressure (well-atmosphere)

LEL - Lower Explosive Limit (methane)

N₂ - nitrogen

CO₂ - carbon dioxide

CH₄ - methane

O₂ - oxygen

H₂S - Hydrogen sulphide

PID - measure of volatile organic compounds

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Monitoring Event 3

Date:	13/09/2022	Atmospheric Pressure (start):	1.010 mb	Trend:	falling
Time:	10:30	Atmospheric Pressure (end):	1.009 mb		
Engineer:	JA	Site Status:	Developed		
Weather:	Dry, cold	Ground Conditions:	Hard Surfaced		
Instrument:	Gas Data LMSxi G3.18e meter	Next Calibration Due Date:	26/07/2023		
Instrument:	Phocheck 2000+ PID	Next Calibration Due Date:	15/07/2023		

Well ID:	WS02	Well dia.(mm):	50	Date installed:		Response stratum:		Made Ground (fine-grained)		
		Well depth (m):	2.12			Groundwater depth (m):		1.98		
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	<<<<	79.7	0.0	-0.2	20.5	0.0	0.0	0.1
After 30 Seconds		0.0	<<<<	80.2	0.6	-0.2	19.4	0.0	0.0	0.2
After 1 Minute		0.0	<<<<	80.3	0.6	-0.2	19.3	0.0	0.0	0.1
After 2 Minutes		0.0	<<<<	80.4	0.6	-0.2	19.2	0.0	0.0	0.0
Steady State		0.0	<<<<	80.4	0.6	-0.2	19.2	0.0	0.0	0.0
min		0.0	0.0	79.7	0.0	-0.2	19.2	0.0	0.0	0.0
max		0.0	0.0	80.4	0.6	-0.2	20.5	0.0	0.0	0.2
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Well ID:	WS03	Well dia.(mm):	50	Date installed:		Response stratum:		Made Ground (coarse-grained)		
		Well depth (m):	2.08				Groundwater depth (m):		1.98	
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	<<<<	79.6	0.0	-0.1	20.5	0.0	0.0	0.2
After 30 Seconds		0.0	<<<<	80.5	1.4	-0.2	18.3	0.0	0.0	0.0
After 1 Minute		0.0	<<<<	80.6	1.3	-0.2	18.3	0.0	0.0	0.0
After 2 Minutes		0.0	<<<<	80.6	1.1	-0.2	18.5	0.0	0.0	0.0
Steady State		0.0	<<<<	80.6	1.1	-0.2	18.5	0.0	0.0	0.0
min		0.0	0.0	79.6	0.0	-0.2	18.3	0.0	0.0	0.0
max		0.0	0.0	80.6	1.4	-0.1	20.5	0.0	0.0	0.2
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Well ID:	WS01	Well dia.(mm):	50	Date installed:		Response stratum:		Tidal Flat Deposits, inc. peat band.		
		Well depth (m):	1.77			Groundwater depth (m):		dry		
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	<<<<	79.6	0.0	-0.1	20.5	0.0	0.0	0.1
After 30 Seconds		0.0	<<<<	81.9	0.9	-0.1	18.2	0.0	0.0	0.0
After 1 Minute		0.0	<<<<	82.1	0.9	-0.1	18.0	0.0	0.0	0.0
After 2 Minutes		0.0	<<<<	82.2	0.9	-0.1	17.9	0.0	0.0	0.0
Steady State		0.0	<<<<	82.2	0.9	-0.1	17.9	0.0	0.0	0.0
min		0.0	0.0	79.6	0.0	-0.1	17.9	0.0	0.0	0.0
max		0.0	0.0	82.2	0.9	-0.1	20.5	0.0	0.0	0.1
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Key:

dP - differential pressure (well-atmosphere)
LEL - Lower Explosive Limit (methane)
N₂ - nitrogen
CO₂ - carbon dioxide

CH₄ - methane
O₂ - oxygen
H₂S - Hydrogen sulphide
PID - measure of volatile organic compounds

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Monitoring Event 4

Date:	30/09/2022	Atmospheric Pressure (start):	1.005 mb	Trend:	falling
Time:	10:30	Atmospheric Pressure (end):	1.003 mb		
Engineer:	JA	Site Status:	Developed		
Weather:	Dry, cold	Ground Conditions:	Hard Surfaced		
Instrument:	Gas Data LMSxt G3,18e meter	Next Calibration Due Date:	26/07/2023		
Instrument:	Phocheck 2000+ PID	Next Calibration Due Date:	15/07/2023		

Well ID:	WS02	Well dia.(mm):	50	Date installed:		Response stratum:		Made Ground (fine-grained)		
		Well depth (m):	2.12			Groundwater depth (m):		1.86		
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	0.0	79.5	0.1	0.0	20.4	0.0	0.0	0.0
After 30 Seconds		0.0	0.0	80.3	1.4	0.0	18.3	0.0	0.0	0.1
After 1 Minute		0.0	0.0	80.2	1.0	0.0	18.8	0.0	0.0	0.0
After 2 Minutes		0.0	0.0	79.9	0.7	0.0	19.4	0.0	0.0	0.0
Steady State		0.0	0.0	79.7	0.5	0.0	19.8	0.0	0.0	0.0
min		0.0	0.0	79.5	0.1	0.0	18.3	0.0	0.0	0.0
max		0.0	0.0	80.3	1.4	0.0	20.4	0.0	0.0	0.1
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Well ID:	WS03	Well dia.(mm):	50	Date installed:		Response stratum:	Made Ground (coarse-grained)		
		Well depth (m):	2.09			Groundwater depth (m):	2.00		
Monitored Variables	dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	0.0	0.0	79.6	0.0	0.0	20.4	0.0	0.0	0.0
After 30 Seconds	0.0	0.0	80.0	1.0	0.0	19.0	0.0	0.0	0.0
After 1 Minute	0.0	0.0	80.1	1.0	0.0	18.9	0.0	0.0	0.0
After 2 Minutes	0.0	0.0	80.1	1.0	0.0	18.9	0.0	0.0	0.0
Steady State	0.0	0.0	80.1	1.0	0.0	18.9	0.0	0.0	0.0
min	0.0	0.0	79.6	0.0	0.0	18.9	0.0	0.0	0.0
max	0.0	0.0	80.1	1.0	0.0	20.4	0.0	0.0	0.0
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr
Comments:									

Well ID:	WS01	Well dia.(mm):	50	Date installed:		Response stratum:		Tidal Flat Deposits, inc. peat band.		
		Well depth (m):	1.77			Groundwater depth (m):		dry		
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	0.0	79.5	0.0	0.0	20.5	0.0	0.0	0.0
After 30 Seconds		0.0	0.0	80.0	0.8	0.0	20.0	0.0	0.0	0.1
After 1 Minute		0.0	0.0	80.0	0.8	0.0	20.0	0.0	0.0	0.0
After 2 Minutes		0.0	0.0	80.1	0.8	0.0	19.9	0.0	0.0	0.0
Steady State		0.0	0.0	80.0	0.8	0.0	20.0	0.0	0.0	0.0
min		0.0	0.0	79.5	0.0	0.0	19.9	0.0	0.0	0.0
max		0.0	0.0	80.1	0.8	0.0	20.5	0.0	0.0	0.1
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Key:

dP - differential pressure (well-atmosphere)

LEL - Lower Explosive Limit (methane)

N₂ - nitrogen

CO₂ - carbon dioxide

CH₄ - methane

O₂ - oxygen

H₂S - Hydrogen sulphide

PID - measure of volatile organic compounds

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Monitoring Event 5

Date:	11/10/2022	Atmospheric Pressure (start):	1.025 mb	Trend:	Steady
Time:	10:30	Atmospheric Pressure (end):	1.025 mb		
Engineer:	JA/SG	Site Status:	Developed		
Weather:	Dry, mild	Ground Conditions:	Hard Surfaced		
Instrument:	Gas Data LMSxt G3.18e meter	Next Calibration Due Date:	26/07/2023		
Instrument:	Phocheck 2000+ PID	Next Calibration Due Date:	15/07/2023		

Well ID:	WS02	Well dia.(mm):	50	Date installed:		Response stratum:		Made Ground (fine-grained)		
		Well depth (m):	2.11			Groundwater depth (m):		1.76		
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		2.0	0.0	79.5	0.0	0.0	20.5	0.0	0.4	0.0
After 30 Seconds		2.0	0.0	80.2	1.6	0.0	18.2	0.0	0.4	0.0
After 1 Minute		2.0	0.0	80.2	1.5	0.0	18.3	0.0	0.4	0.0
After 2 Minutes		2.0	0.0	80.2	1.2	0.0	18.6	0.0	0.4	0.0
Steady State		2.0	0.0	80.1	1.0	0.0	18.9	0.0	0.4	0.0
min		2.0	0.0	79.5	0.0	0.0	18.2	0.0	0.4	0.0
max		2.0	0.0	80.2	1.6	0.0	20.5	0.0	0.4	0.0
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)						Methane:	0 L/hr	Carbon Dioxide	0.01 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)						Methane:	0.00 L/hr	Carbon Dioxide	0.004 L/hr	
Comments:										

Well ID:	WS03	Well dia.(mm):	50	Date installed:		Response stratum:	Made Ground (coarse-grained)		
		Well depth (m):	2.09			Groundwater depth (m):	1.99		
Monitored Variables	dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	0.0	0.0	79.5	0.0	0.0	20.5	0.0	0.0	0.0
After 30 Seconds	0.0	0.0	80.1	0.6	0.0	19.3	0.0	0.0	0.1
After 1 Minute	0.0	0.0	80.3	0.6	0.0	19.1	0.0	0.0	0.0
After 2 Minutes	0.0	0.0	80.3	0.6	0.0	19.1	0.0	0.0	0.1
Steady State	0.0	0.0	80.3	0.6	0.0	19.1	0.0	0.0	0.0
min	0.0	0.0	79.5	0.0	0.0	19.1	0.0	0.0	0.0
max	0.0	0.0	80.3	0.6	0.0	20.5	0.0	0.0	0.1
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr	Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr	Carbon Dioxide	0 L/hr	
Comments:									

Well ID:	WS01	Well dia.(mm):	50	Date installed:		Response stratum:		Tidal Flat Deposits, inc. peat band.		
		Well depth (m):	1.78			Groundwater depth (m):		dry		
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	0.0	79.4	0.0	0.0	20.6	0.0	0.0	0.0
After 30 Seconds		0.0	0.0	80.1	0.8	0.0	19.9	0.0	0.0	0.0
After 1 Minute		0.0	0.0	80.1	0.8	0.0	19.9	0.0	0.0	0.0
After 2 Minutes		0.0	0.0	80.2	0.8	0.0	19.8	0.0	0.0	0.0
Steady State		0.0	0.0	80.2	0.8	0.0	19.8	0.0	0.0	0.0
min		0.0	0.0	79.4	0.0	0.0	19.8	0.0	0.0	0.0
max		0.0	0.0	80.2	0.8	0.0	20.6	0.0	0.0	0.0
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Key:

dP - differential pressure (well-atmosphere)

LEL - Lower Explosive Limit (methane)

N₂ - nitrogen

CO₂ - carbon dioxide

CH₄ - methane

O₂ - oxygen

H₂S - Hydrogen sulphide

PID - measure of volatile organic compounds

**Factory Road
Newport**
**Results of Hazardous Gas and Groundwater Monitoring
(Spot Monitoring)**
Project Ref. 8159



Monitoring Event 6

Date:	28/10/2022	Atmospheric Pressure (start):	1.011 mb	Trend:	Falling
Time:	10:00	Atmospheric Pressure (end):	1.009 mb		
Engineer:	JA	Site Status:	Developed		
Weather:	Cloudy, cold	Ground Conditions:	Hard Surfaced		
Instrument:	Gas Data LMSxt G3.18e meter	Next Calibration Due Date:	26/07/2023		
Instrument:	Phocheck 2000+ PID	Next Calibration Due Date:	15/07/2023		

Well ID:	WS02	Well dia.(mm):	50	Date installed:		Response stratum:				
		Well depth (m):	2.11				Groundwater depth (m):		1.58	
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	0.0	79.2	0.0	0.0	20.8	0.0	0.0	0.0
After 30 Seconds		0.0	0.0	80.1	1.8	0.0	18.1	0.0	0.0	0.2
After 1 Minute		0.0	0.0	80.3	1.6	0.0	18.1	0.0	0.0	0.1
After 2 Minutes		0.0	0.0	80.2	1.6	0.0	18.2	0.0	0.0	0.0
Steady State		0.0	0.0	80.2	1.7	0.0	18.1	0.0	0.0	0.0
min		0.0	0.0	79.2	0.0	0.0	18.1	0.0	0.0	0.0
max		0.0	0.0	80.3	1.8	0.0	20.8	0.0	0.0	0.2
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Well ID:	WS03	Well dia.(mm):	50	Date installed:	18/11/2014	Response stratum:		Made Ground (coarse-grained)		
		Well depth (m):	2.10			Groundwater depth (m):		1.93		
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	0.0	79.2	0.0	0.0	20.8	0.0	0.0	0.0
After 30 Seconds		0.0	0.0	78.9	0.4	0.0	20.7	0.0	0.0	0.1
After 1 Minute		0.0	0.0	78.9	0.4	0.0	20.7	0.0	0.0	0.0
After 2 Minutes		0.0	0.0	78.9	0.4	0.0	20.7	0.0	0.0	0.1
Steady State		0.0	0.0	78.9	0.4	0.0	20.7	0.0	0.0	0.1
min		0.0	0.0	78.9	0.0	0.0	20.7	0.0	0.0	0.0
max		0.0	0.0	79.2	0.4	0.0	20.8	0.0	0.0	0.1
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Well ID:	WS01	Well dia.(mm):	50	Date installed:	18/11/2014	Response stratum:		Tidal Flat Deposits, inc. peat band.		
		Well depth (m):	1.78			Groundwater depth (m):		dry		
Monitored Variables		dP (Pa)	LEL (%)	N ₂ (%)	CO ₂ (%)	CH ₄ (%)	O ₂ (%)	H ₂ S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading		0.0	0.0		0.1	0.0	20.5	0.0	0.0	0.0
After 30 Seconds		0.0	0.0		0.6	0.0	18.0	0.0	0.0	0.1
After 1 Minute		0.0	0.0		0.6	0.0	17.8	0.0	0.0	0.0
After 2 Minutes		0.0	0.0		0.6	0.0	17.8	0.0	0.0	0.0
Steady State		0.0	0.0		0.6	0.0	17.8	0.0	0.0	0.0
min		0.0	0.0	0.0	0.1	0.0	17.8	0.0	0.0	0.0
max		0.0	0.0	0.0	0.6	0.0	20.5	0.0	0.0	0.1
Borehole Hazardous Gas Flow Rates Q _{hg} (max gas conc)					Methane:	0 L/hr		Carbon Dioxide	0.00 L/hr	
Borehole Hazardous Gas Flow Rates Q _{hg} (steady state gas conc)					Methane:	0.00 L/hr		Carbon Dioxide	0 L/hr	
Comments:										

Key:

dP - differential pressure (well-atmosphere)
LEL - Lower Explosive Limit (methane)
N₂ - nitrogen
CO₂ - carbon dioxide

CH₄ - methane
O₂ - oxygen
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PID - measure of volatile organic compounds