PROPOSED BUSINESS CENTRE
SANDFIELDS YOUNG BUSINESS CENTRE, PORT TALBOT
Results of Hazardous Gas and Groundwater Monitoring
(Spot Monitoring)

Project Ref. 9222

Monitoring Event 1

Date:	18/03/2025	Atmospheric Pressure (start):	1,022 mb	Trend:	Falling
Time:	11:00	Atmospheric Pressure (end):	1,022 mb		
Engineer:	JA	Site Status:	Active car park		
Weather:	Dry, warm, sunny, windy	Ground Conditions:	Dry		
Instrument:	Gas Data LMSxi G3.18e meter	Next Calibration Due Date:	16/8/2025		
Instrument:	Phocheck 2000+ PID	Next Calibration Due Date:	09/11/2025		

Well ID:	CP101A	Well dia.(mm):	50	Date Installed:	04/03/2025	Response stratum:	Blown Sands
		Well depth (m):	8.00			Groundwater depth (m):	4.69
Comments:							

Well ID:	CP102	Well dia.(mm):	50	Date Installed:	13/03/2025	Response stratum:	Made Ground and Blown Sands		
		Well depth (m):	3.00			Groundwater depth (m):	Dry		
Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	0.0	0.0	76.0	0.0	0.0	24.0	0.0	0.0	0.1
After 30 Seconds	0.0	0.0	75.9	0.0	0.0	24.1	0.0	0.0	0.6
After 1 Minute	0.0	0.0	75.8	0.0	0.0	24.2	0.0	0.0	0.5
After 2 Minutes	0.0	0.0	75.7	0.0	0.0	24.3	0.0	0.0	0.5
Steady State	0.0	0.0	75.7	0.0	0.0	24.3	0.0	0.0	0.5
min	*0.0*	*0.0*	*75.7*	*0.0*	*0.0*	*24.0*	*0.0*	*0.0*	*0.1*
max	*0.0*	*0.0*	*76.0*	*0.0*	*0.0*	*24.3*	*0.0*	*0.0*	*0.6*
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:	CP103	Well dia.(mm):	50	Date Installed:	11/03/2025	Response stratum:	Blown Sands
		Well depth (m):	8.00			Groundwater depth (m):	5.32
Comments:							

Well ID:	WS101	Well dia.(mm):	50	Date Installed:	04/03/2025	Response stratum:	Made Ground and Blown Sands		
		Well depth (m):	3.00			Groundwater depth (m):	Dry		
Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	53.0	0.0	76.3	0.0	0.0	23.7	0.0	5.7	0.4
After 30 Seconds	53.0	0.0	76.4	0.0	0.0	23.6	0.0	5.7	0.6
After 1 Minute	53.0	0.0	76.4	0.0	0.0	23.6	0.0	5.7	0.3
After 2 Minutes	53.0	0.0	76.4	0.0	0.0	23.6	0.0	5.7	0.3
Steady State	53.0	0.0	76.4	0.0	0.0	23.6	0.0	5.7	0.3
min	*53.0*	*0.0*	*76.3*	*0.0*	*0.0*	*23.6*	*0.0*	*5.7*	*0.3*
max	*53.0*	*0.0*	*76.4*	*0.0*	*0.0*	*23.7*	*0.0*	*5.7*	*0.6*
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:	WS102	Well dia.(mm):	50	Date Installed:	04/03/2025	Response stratum:	Made Ground and Blown Sands		
		Well depth (m):	2.80			Groundwater depth (m):	Dry		
Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	53.0	0.0	76.4	0.0	0.0	23.6	0.0	5.8	0.2
After 30 Seconds	53.0	0.0	76.3	0.0	0.0	23.7	0.0	5.8	0.7
After 1 Minute	53.0	0.0	76.2	0.0	0.0	23.8	0.0	5.8	0.5
After 2 Minutes	53.0	0.0	76.1	0.0	0.0	23.9	0.0	5.8	0.5
Steady State	53.0	0.0	76.1	0.0	0.0	23.9	0.0	5.8	0.5
min	*53.0*	*0.0*	*76.1*	*0.0*	*0.0*	*23.6*	*0.0*	*5.8*	*0.2*
max	*53.0*	*0.0*	*76.4*	*0.0*	*0.0*	*23.9*	*0.0*	*5.8*	*0.7*
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:	WS103	Well dia.(mm):	50	Date Installed:	04/03/2025	Response stratum:	Made Ground and Blown Sands		
		Well depth (m):	2.00			Groundwater depth (m):	Dry		
Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	50.0	0.0	76.5	0.0	0.0	23.5	0.0	5.5	0.3
After 30 Seconds	50.0	0.0	76.6	0.0	0.0	23.4	0.0	5.5	0.2
After 1 Minute	50.0	0.0	76.6	0.0	0.0	23.4	0.0	5.5	0.2
After 2 Minutes	50.0	0.0	76.6	0.0	0.0	23.4	0.0	5.5	0.2
Steady State	50.0	0.0	76.6	0.0	0.0	23.4	0.0	5.5	0.2
min	*50.0*	*0.0*	*76.5*	*0.0*	*0.0*	*23.4*	*0.0*	*5.5*	*0.2*
max	*50.0*	*0.0*	*76.6*	*0.0*	*0.0*	*23.5*	*0.0*	*5.5*	*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:									

Key:

dP - differential pressure (well-atmosphere)
LEL - Lower Explosive Limit (methane)
N_2 - nitrogen
CO_2 - carbon dioxide
CH_4 - methane
O_2 - oxygen
H_2S - Hydrogen sulphide
PID - measure of volatile organic compounds

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Results of Hazardous Gas and Groundwater Monitoring
(Spot Monitoring)

Project Ref. 9222

Monitoring Event 2

Date:	04/02/2025	Atmospheric Pressure (start):	1,018 mb	Trend:	Falling
Time:	13:00	Atmospheric Pressure (end):	1,018 mb		
Engineer:	JA	Site Status:	Active car park		
Weather:	Dry, warm, sunny, windy	Ground Conditions:	Dry		
Instrument:	Gas Data LMSxi G3,18e meter	Next Calibration Due Date:	16/8/2025		
Instrument:	Phocheck 2000+ PID	Next Calibration Due Date:	09/11/2025		

Well ID:	CP101A	Well dia.(mm):	50	Date Installed:	04/03/2025	Response stratum:	Blown Sands
		Well depth (m):	8.00			Groundwater depth (m):	4.69
Comments:							

Well ID:	CP102	Well dia.(mm):	50	Date Installed:	13/03/2025	Response stratum:	Made Ground and Blown Sands
		Well depth (m):	3.00			Groundwater depth (m):	Dry

Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	0.0	0.0	75.9	0.0	0.0	24.1	0.0	0.0	0.5
After 30 Seconds	0.0	0.0	75.8	0.0	0.0	24.2	0.0	0.0	0.9
After 1 Minute	0.0	0.0	75.7	0.0	0.0	24.3	0.0	0.0	0.9
After 2 Minutes	0.0	0.0	75.7	0.0	0.0	24.3	0.0	0.0	0.9
Steady State	0.0	0.0	75.7	0.0	0.0	24.3	0.0	0.0	0.9
min	*0.0*	*0.0*	*75.7*	*0.0*	*0.0*	*24.1*	*0.0*	*0.0*	0.5
max	*0.0*	*0.0*	*75.9*	*0.0*	*0.0*	*24.3*	*0.0*	*0.0*	0.9

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:	CP103	Well dia.(mm):	50	Date Installed:	11/03/2025	Response stratum:	Blown Sands
		Well depth (m):	8.00			Groundwater depth (m):	5.50
Comments:							

Well ID:	WS101	Well dia.(mm):	50	Date Installed:	04/03/2025	Response stratum:	Made Ground and Blown Sands
		Well depth (m):	3.00			Groundwater depth (m):	Dry

Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	0.0	0.0	75.8	0.0	0.0	24.2	0.0	0.0	0.5
After 30 Seconds	0.0	0.0	75.9	0.0	0.0	24.1	0.0	0.0	0.7
After 1 Minute	0.0	0.0	75.9	0.0	0.0	24.1	0.0	0.0	0.7
After 2 Minutes	0.0	0.0	75.9	0.0	0.0	24.1	0.0	0.0	0.7
Steady State	0.0	0.0	75.9	0.0	0.0	24.1	0.0	0.0	0.7
min	*0.0*	*0.0*	*75.8*	*0.0*	*0.0*	*24.1*	*0.0*	*0.0*	*0.5*
max	*0.0*	*0.0*	*75.9*	*0.0*	*0.0*	*24.2*	*0.0*	*0.0*	*0.7*

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:	WS102	Well dia.(mm):	50	Date Installed:	04/03/2025	Response stratum:	Made Ground and Blown Sands
		Well depth (m):	2.80			Groundwater depth (m):	Dry

Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	41.0	0.0	75.9	0.0	0.0	24.1	0.0	4.9	0.5
After 30 Seconds	41.0	0.2	75.8	0.0	0.0	24.2	0.0	4.9	1.0
After 1 Minute	41.0	0.2	75.8	0.0	0.0	24.2	0.0	4.9	0.9
After 2 Minutes	41.0	0.2	75.8	0.0	0.0	24.2	0.0	4.9	0.9
Steady State	41.0	0.2	75.8	0.0	0.0	24.2	0.0	4.9	0.9
min	*41.0*	*0.0*	*75.8*	*0.0*	*0.0*	*24.1*	*0.0*	*4.9*	*0.5*
max	*41.0*	*0.2*	*75.9*	*0.0*	*0.0*	*24.2*	*0.0*	*4.9*	*1.0*

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:	WS103	Well dia.(mm):		Date Installed:	04/03/2025	Response stratum:	Made Ground and Blown Sands
		Well depth (m):	2.00			Groundwater depth (m):	Dry

Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	50.0	0.0	76.6	0.0	0.0	23.4	0.0	5.5	0.2
After 30 Seconds	50.0	0.0	76.6	0.0	0.0	23.4	0.0	5.5	0.7
After 1 Minute	50.0	0.0	76.5	0.0	0.0	23.5	0.0	5.5	0.5
After 2 Minutes	50.0	0.0	76.5	0.0	0.0	23.5	0.0	5.5	0.5
Steady State	50.0	0.0	76.5	0.0	0.0	23.5	0.0	5.5	0.5
min	*50.0*	*0.0*	*76.5*	*0.0*	*0.0*	*23.4*	*0.0*	*5.5*	*0.2*
max	*50.0*	*0.0*	*76.6*	*0.0*	*0.0*	*23.5*	*0.0*	*5.5*	*0.7*

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)
N_2 - nitrogen
CO_2 - carbon dioxide
CH_4 - methane
O_2 - oxygen
H_2S - Hydrogen sulphide
PID - measure of volatile organic compounds

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Results of Hazardous Gas and Groundwater Monitoring
(Spot Monitoring)

Project Ref. 9222

Monitoring Event 3

Date:	14.04.2025	Atmospheric Pressure (start):	1,000 mb	Trend:	Rising
Time:	10:00	Atmospheric Pressure (end):	1,001 mb		
Engineer:	JA	Site Status:	Active car park		
Weather:	Dry, warm, sunny, windy	Ground Conditions:	Dry		
Instrument:	Gas Data LMSxi G3,18e meter	Next Calibration Due Date:	16/8/2025		
Instrument:	Phocheck 2000+ PID	Next Calibration Due Date:	09/11/2025		

Well ID:	CP101A	Well dia.(mm):	50	Date installed:	04/03/2025	Response stratum:	Blown Sands
		Well depth (m):	8.00			Groundwater depth (m):	4.87
Comments:							

Well ID:	CP102	Well dia.(mm):	50	Date installed:	13/03/2025	Response stratum:	Made Ground and Blown Sands		
		Well depth (m):	3.00			Groundwater depth (m):	Dry		
Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	53.0	0.0	75.3	0.0	0.0	24.7	0.0	5.6	0.3
After 30 Seconds	53.0	0.0	75.2	0.0	0.0	24.8	0.0	5.6	0.8
After 1 Minute	53.0	0.0	75.1	0.0	0.0	24.9	0.0	5.6	0.5
After 2 Minutes	53.0	0.0	75.0	0.0	0.0	25.0	0.0	5.6	0.5
Steady State	53.0	0.0	75.0	0.0	0.0	25.0	0.0	5.6	0.5
min	*53.0*	*0.0*	*75.0*	*0.0*	*0.0*	*24.7*	*0.0*	*5.6*	*0.3*
max	*53.0*	*0.0*	*75.3*	*0.0*	*0.0*	*25.0*	*0.0*	*5.6*	*0.8*
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:	CP103	Well dia.(mm):	50	Date installed:	11/03/2025	Response stratum:	Blown Sands
		Well depth (m):	8.00			Groundwater depth (m):	5.45
Comments:							

Well ID:	WS101	Well dia.(mm):	50	Date installed:	04/03/2025	Response stratum:	Made Ground and Blown Sands		
		Well depth (m):	2.54			Groundwater depth (m):	Dry		
Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	51.0	0.0	75.2	0.0	0.0	24.8	0.0	5.5	0.2
After 30 Seconds	51.0	0.0	75.3	0.0	0.0	24.7	0.0	5.5	0.3
After 1 Minute	51.0	0.0	75.4	0.0	0.0	24.6	0.0	5.5	0.3
After 2 Minutes	51.0	0.0	75.4	0.0	0.0	24.6	0.0	5.5	0.3
Steady State	51.0	0.0	75.4	0.0	0.0	24.6	0.0	5.5	0.3
min	*51.0*	*0.0*	*75.2*	*0.0*	*0.0*	*24.6*	*0.0*	*5.5*	*0.2*
max	*51.0*	*0.0*	*75.4*	*0.0*	*0.0*	*24.8*	*0.0*	*5.5*	*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:	WS102	Well dia.(mm):	50	Date installed:	04/03/2025	Response stratum:	Made Ground and Blown Sands		
		Well depth (m):	2.80			Groundwater depth (m):	Dry		
Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	53.0	0.0	75.3	0.0	0.0	24.7	0.0	5.7	0.3
After 30 Seconds	53.0	0.2	75.3	0.0	0.0	24.7	0.0	5.7	0.2
After 1 Minute	53.0	0.2	75.3	0.0	0.0	24.7	0.0	5.7	0.2
After 2 Minutes	53.0	0.2	75.3	0.0	0.0	24.7	0.0	5.7	0.2
Steady State	53.0	0.2	75.3	0.0	0.0	24.7	0.0	5.7	0.2
min	*53.0*	*0.0*	*75.3*	*0.0*	*0.0*	*24.7*	*0.0*	*5.7*	*0.2*
max	*53.0*	*0.2*	*75.3*	*0.0*	*0.0*	*24.7*	*0.0*	*5.7*	*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:	WS103	Well dia.(mm):	50	Date installed:	04/03/2025	Response stratum:	Made Ground and Blown Sands		
		Well depth (m):	2.00			Groundwater depth (m):	Dry		
Monitored Variables	dP (Pa)	LEL (%)	N_2 (%)	CO_2 (%)	CH_4 (%)	O_2 (%)	H_2S (ppm)	Flow (L/hr)	PID (ppm)
Immediate Reading	20.0	0.0	75.3	0.0	0.0	24.7	0.0	3.2	0.1
After 30 Seconds	20.0	0.0	75.3	0.0	0.0	24.7	0.0	3.2	0.4
After 1 Minute	20.0	0.0	75.3	0.0	0.0	24.7	0.0	3.2	0.2
After 2 Minutes	20.0	0.0	75.3	0.0	0.0	24.7	0.0	3.2	0.2
Steady State	20.0	0.0	75.3	0.0	0.0	24.7	0.0	3.2	0.2
min	*20.0*	*0.0*	*75.3*	*0.0*	*0.0*	*24.7*	*0.0*	*3.2*	*0.1*
max	*20.0*	*0.0*	*75.3*	*0.0*	*0.0*	*24.7*	*0.0*	*3.2*	*0.4*
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)
N_2 - nitrogen
CO_2 - carbon dioxide
CH_4 - methane
O_2 - oxygen
H_2S - Hydrogen sulphide
PID - measure of volatile organic compounds