

E GROUND GAS SOLUTIONS RISK ASSESSMENT

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Ground-Gas Risk Assessment Ardrossan Academy



GGG Scotland site photograph (May 2023)

Prepared for:
Envirocentre Ltd.



For Envirocentre Ltd.

Ref No. GGS3244GGRA_V1

Date: 27/06/2023



Document control



Client	Envirocentre Ltd. Unit 2b, Craighall Business Park 8 Eagle St, Glasgow, G4 9XA
Project Title	Ground-Gas Risk Assessment
Report No.	GGs3244GGRA_V1
Report Revision	-
Revision Detail	-
Issue Status	FINAL
Copy Number	1

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Foreword

This report has been prepared based on information made available to Ground-Gas Solutions Scotland (GGS Scotland) at the time of the reporting using all reasonable skill, care and diligence and within the limitations of the scope of works agreed with, and resources provided by, the client.

GGS Scotland has relied on information provided by others and has prepared this report on the basis of this information being accurate.

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Contents



1.	Introduction.....	1
1.1	Report objectives	1
1.2	Report objectives	2
1.3	Development proposal	2
2.	Site characteristics	3
2.1	Site description.....	3
2.2	Scope of works.....	6
2.3	Site visit schedule	7
2.4	Site history	8
2.5	Site geology and environmental setting	10
2.6	Summary of previous reporting and information supplied	11
3.	Preliminary conceptual site model	3
4.	Monitoring Methodology	7
4.1	Periodic Ground Gas Monitoring	7
4.2	Continuous Ground Gas Monitoring	8
4.3	Surface emission surveys	9
4.4	Flux box tests	9
5.	Results	11
5.1	Periodic ground gas monitoring results	11
5.2	Continuous ground gas monitoring results	13
5.3	Surface emission survey results.....	21
5.4	Flux box test results	21



6.	Generic qualitative ground gas risk assessment	22
6.1	Methane and carbon dioxide	22
6.2	Oxygen depletion	26
6.3	Trace gases	26
6.4	Gas migration mechanisms.....	29
6.5	Atmospheric pressure analysis	31
7.	Detailed ground gas risk assessment.....	34
7.1	Conceptual site model discussion	34
7.2	Lines of evidence discussion.....	36
8.	Detailed ground gas risk review	41
9.	Recommendations.....	45
10.	Climate Change and Robust Remedial Design	47
11.	Instrument specifications	49
12.	Limitations	50

Appendices

<u>Appendix A</u>	Site location and monitoring location plans
<u>Appendix B</u>	Groundsure Map + Geo Insights report
<u>Appendix C</u>	Periodic monitoring records
<u>Appendix D</u>	Continuous ground gas monitoring time series data
<u>Appendix E</u>	Flux box test records
<u>Appendix F</u>	Surface methane emissions surveys – GIS grid survey plots and raw survey data
<u>Appendix G</u>	Qualitative risk classification matrix
<u>Appendix H</u>	Technical specifications and instrument overview
<u>Appendix I</u>	Instrumentation calibration certificates

1. Introduction

1.1 Report objectives

GGS Scotland has been commissioned by Envirocentre Ltd. to undertake a Ground Gas Risk Assessment (GGRA), for a development on unoccupied reclaimed land adjacent to Ardrossan Harbour, Ardrossan (subsequently referred to as 'the site' in the report). The site comprises an area of previously developed land which currently is covered by rough vegetation. A site location plan is presented in [Appendix A](#).

GGS Scotland has referred to the following documents provided by the client and others to help inform this risk assessment:

- P12-399, North Bay, Ardrossan – Report on Site Investigations, SKF Ltd. (January 2023)
- 171301-002, Site investigation plan, Envirocentre Ltd (May 2019).
- Ardrossan North Shore, Plan on supplementary geo-environmental & geotechnical investigation, Fairhurst (September 2022)
- GS-CHG-FWY-WAJ-V3N, Groundsure Enviro+Geo Insights report (May 2023)

It should be noted that any works carried out post-monitoring after issue of this report are beyond the scope of this assessment but may materially alter ground gas behaviour at the site.

The proposed development needs to adhere to and work within the following legislation and guidance in order that the construction phase is undertaken safely and ensure the risk from ground contamination to receptors, including construction workers, future site users and building and structures is acceptable:

- Building (Scotland) Regulations Act 2004 and associated regulations e.g. Building Standards technical handbook 2020: Domestic
- Planning (Scotland) Act 2019 and associated guidance
- CDM Regulations 2015
- Health and Safety at Work Act 1974
- Management of Health and Safety at Work Regulations 1999
- The Confined Spaces Regulations 1997
- DSEAR Regulations 2002

1.2 Report objectives

The objectives of the investigation were to:

- Identify likely ground-gas sources, pathways and receptors within a conceptual model;
- Utilise continuous monitoring data, and other investigatory techniques, to quantify ground gas risk to future receptors using a line of evidence approach;
- Prepare a revised and detailed diagrammatic conceptual site model; and,
- Further characterise and assess the risk posed to the proposed redevelopment from ground-gas contamination.
- Where relevant, provide recommendations to aid the design and verification of adequate protection measures for the proposed land use.

1.3 Development proposal

GGs Scotland understands that the site is earmarked for redevelopment as a school campus incorporating school building, sports facilities including playing fields, car parking and ancillary facilities. An outline layout plan for the proposed school campus is included within [Appendix A](#).

2. Site characteristics

2.1 Site description

Table 2.1 below details the site description. A site location plan is presented in [Appendix A](#).

Table 2.1 Site description	
Description	Details
Address	Ardrossan Academy site, off North Crescent Road, Ardrossan
Nearest postcode	KA22 8BL
National grid reference (approximate centre of site)	NS 22717 42571
Site area (approximate total)	1.9 hectares
Overview	The site comprises of a currently undeveloped parcel of land that sits beside the Firth of Clyde and a residential area. The site is situated north of the Ardrossan harbour and ferry terminal. Within the site there are several historic soil stockpiles which have since grown vegetation. The area immediately adjoining the site was formerly occupied by a BP oil refinery, which operated between 1928 and 1986.
North of the site	An extended area of rough vegetation lies immediately north of the site, with North Crescent Road located beyond. Residential properties are located further beyond.
South of the site	The site is bound to the south by the inner Ardrossan Harbour, with Mariners View and a series of apartment complexes beyond. Further south, the Ardrossan ferry terminal is located.
East of the site	Montgomerie Street and associated new development dwellings bound the site to the east.
West of the site	A seawall bounds the site to the West, with the Firth of Clyde beyond.



Figure 1 Satellite image of Ardrossan Academy site, with approximate overall site boundary indicated in blue. The area subject to this ground gas risk assessment (i.e. the school building area), is outlined in red. (©Microsoft 2023). A site and monitoring location plan is presented in Appendix A.



Figure 2 Selected GGS Scotland site photographs (May2023). Image top left with view to the east of the site. Image top right with view to the south. Image bottom left with view to the west. Image bottom right displaying a historical soil stockpile to the north of the site.

2.2 Scope of works

Table 2.2 below details the scope of works undertaken by GGS Scotland and the monitoring rationale.

Table 2.2 Scope of Works	
Works undertaken	Detail & justification
Well cover replacements	6No. well cover replacements. to allow for deployment of continuous monitoring equipment at the specified monitoring locations.
Periodic ground gas monitoring	Periodic monitoring of 6 available monitoring wells located within the site: - inform well suitability and selection of the continuous monitoring locations. - supplement the continuous monitoring data set and provide additional spatial data coverage. - provide pertinent site observations, including well conditions, ground conditions and gas behaviour. - facilitate groundwater dip measurements and evidence to potential impact of groundwater/perched water on gas behaviour and flow.
Continuous ground gas (incl. flow) and groundwater monitoring	Continuous monitoring of 6 No. monitoring well locations (5no. locations outside former sea wall, 1No location inside) over a four-week monitoring period. To: - provide a robust data set and further understanding of the gas regime. - inform accurate development of the CSM. - identify key ground gas driving mechanisms.
Flux box testing	Flux box testing of 5no. determined locations. To: Measure changes in gas concentrations above a small and specific area in order to determine the rate of gas emission at that location.
Surface emissions survey	1No. surface emissions surveys for methane and carbon dioxide (to ppmv level). To: - provide evidence to emissions of methane/carbon dioxide from the surface soils. - investigate potential vertical gas migration pathways.
Ground Gas Risk Assessment (GGRA)	Provision of a lines of evidence risk assessment in line with CIRIA C665 and/or BS8485:2015 + A1:2019. To: - summarise previous reporting and monitoring data. - present the lines of evidence gathered by GGS. - document a robust CSM in table and diagrammatic formats. - accurately characterise the site in line with CIRIA C665 and/or BS8485:2015 + A1:2019.

2.3 Site visit schedule

Table 2.3 below details the site visit schedule and tasks undertaken.

Table 2.3 Monitoring programme undertaken		
Visit No.	Date	Tasks undertaken
1	3 rd May 2023	• Replace 6No. monitoring well headworks. • Periodic monitoring of three monitoring wells
2	4 th May 2023	• Deploy 6 No. continuous ground gas monitoring instruments. • Periodic monitoring of further 6 monitoring wells
3	31 st May 2023	• Collect 6 No. continuous ground gas monitoring instruments and recovery tests • Periodic monitoring at 6 No. locations
4	6 th June 2023	• Undertake 5 No flux box tests
5	14 th June 2023	• Undertake a surface emissions survey (SES) for methane

2.4 Site history

Relevant information has been summarised below from previous reporting provided to GGS Scotland, including relevant historical land use activities and features which may give rise to ground-gas contamination.

Only features which are located within 500m of the site or otherwise have the potential to create a ground-gas contaminative source or credible migration pathway are considered. The Groundsure Map + Geo Insights report is included as [Appendix B](#).

Table 2.4 Key historical features				
Feature	Years present	Distance (approx.)	Direction	Comment
Sandstone quarry	1856 - 1895	251 m	East	Does not appear on maps by 1895.
Gasometer (Town gas works)	1856-1895	332 m	South east	Multiple individual gasometers noted at different points in time.
Shipyard	1856	479 m	South	
Old clay pit	1895	3 m	East	Old clay pit indicated on historic map. Not included on map by 1911.
Railway station	1895	156 m	South west	
Railway sidings	1895-1938	55 m	East	
Railway sidings	1898-1938	239 m	South west	
Railway station	1895-1938	110 m	East	Railway station (Ardrossan North) indicated on map until 1980, however is described as disused after 1938.
Railway sidings	1909	17 m	North east	
Terminus station	1909-1938	156 m	South west	
Railway buildings	1909-1938	176 m	South west	

Table 2.4 Key historical features				
Feature	Years present	Distance (approx.)	Direction	Comment
Dock	1909-1938	239 m	South west	
Unspecified commercial/ industrial	1954	Onsite	-	Bitumen refining and storage
Unspecified tanks	1954	186 m	North east	
Railway sidings	1964	Onsite	-	
Unspecified tanks	1954 - 2001	Onsite	-	Several unspecified tanks related to bitumen refining and storage, of various sizes, present on the site which no longer appear on maps by 2001. Refinery closed in 1986.
Unspecified tanks	1954-1980	6 m	East	Several further unspecified tanks are noted out with the site boundaries.
Dock	1970	135m	South west	
Railway station	1970	155 m	South west	
Unspecified tanks	1970-1980	57 m	South	
Unspecified tanks	1970-1980	94 m	North east	
Fire station	1970-1980	225 m	East	
Dock	1980	130 m	South west	
Unspecified ground workings	1980	Onsite	-	
Unspecified tank	1980	13 m	South east	
Unspecified tank	1980	459 m	South west	

2.5 Site geology and environmental setting

The geological and environmental setting has been collated from previous reporting and available borehole logs and is summarised below in Table 2.5.

Table 2.5 Summary of the environmental setting	
Site aspect	Details
Altitude	The site is situated approximately 3m from ASL.
Artificial deposits	Groundsure reports indicate artificial deposits on the site due to former industrial land uses.
Surface material	Most of the site is covered by a mixture of rough vegetation and grasses. There are small areas of the site which have little vegetation which has resulted in patches of exposed sand.
Superficial geology	Available geological mapping reports the site to be underlain by unclassified marine beach deposits of sand and gravel. Formal superficial deposit name.
Solid geology	Geological mapping shows that the solid deposits lying beneath the site comprise of sedimentary rock cycles of the Kelly Burn Sandstone Formation. The Kelly Burn Sandstone Formation (also called the Glenvale Sandstone Formation), consists of feldspathic sandstone which commonly contains bands of red siltstone and silty mudstone with no silicious pebbles.
Hydrogeology	According to evidence sourced from the Groundsure report there are several concealed superficial aquifers. These alluvium and quaternary coastal aquifers are described as aquifers with limited or local potential. However there is the potential for saline intrusion from the Firth of Clyde. Similarly there are several moderately productive bedrock aquifers located beyond 200m of the site. Where flow is through fractures and discontinuities there is a moderate yield of up to 10 L/s.
Hydrology	The Firth of Clyde is located directly east of the site.
Mining	The site is outside of the Coal Authority reporting area.
Radon	As detailed on the Radon Map of Scotland published by the Health Protection Agency in conjunction with the British geological Survey in 2022, the site is not located within a Radon Affected Area as less than 1% of properties are above the Action Level.
Landfill/infilled sites	There are no recorded waste or landfill sites within 500m of the site. {Let's dig a little deeper on this point} A historical sandstone quarry is recorded east of the site, This feature is not recorded on maps beyond 1895, suggesting a level of unrecorded infill activity.
Industrial land uses	The site has recorded historical industrial uses including bitumen refining, associated storage tanks and railway sidings.

2.6 Summary of previous reporting and information supplied

The information below has been summarised from previous reporting made available to GGS Scotland. Only information relating to ground-gas contamination has been considered and only reports that contain relevant information to this risk assessment have been included.

North Bay, Ardrossan, Ground Investigation Report (ref. 7124-137240) (January 2023)

North Ayrshire Council commissioned SKF to undertake intrusive ground investigation of the site, with intrusive fieldwork undertaken during November and December of 2022, and ground gas monitoring taking place between December 2022 and January 2023. Intrusive investigation included:

- 19 No. continuous percussion borehole (ECBH01-ECBH18 & ECBH14A), sunk to depths between 2.15m bgl and 10.00 bgl. All locations with the exception of ECBH14 and ECBH14A were subsequently installed with 50mm diameter standpipes. A total of 6 gas monitoring rounds were undertaken over a 6-week period.
- 19 No. hand dug trial pits with the purpose of inspection of shallow soil and confirm boreholes are free of buried services.
- 32 No. trial pits to depths between 3.88mbgl and 5.58m bgl. The aim was to examine the shallow soil deposits and collect soil samples for subsequent laboratory testing.
- 17 No. trial pits and 5 No. trial trenches to depths between 3.79 mbgl and 5.28 mbgl. The purpose of the pits was to search for the presence of any buried obstructions.
- 10 No. trial trenches to depths between 3.94 bgl and 4.69 bgl. The objective was to allow inspection of revetment and to determine if the condition of the material was appropriate for it to be reprocessed.

A summary of the gas and groundwater monitoring results can be found in table 2.6 below.

Table 2.6 SKF Ltd. monitoring summary										
Monitoring location	Response zone depth (m bgl) and stratum	Max. positive steady flow rate (l/hr)	Max. CH ₄ (% v/v)	Max. CO ₂ (% v/v)	Min. O ₂ (% v/v)	Max. H ₂ S (ppmv)	Max. CO (ppmv)	Standing water level (mbgl)	GGS Comments/observations	
EC-BH01	4.00 – 7.00 Made ground (4.00 – 6.30) Silty gravelly fine to coarse sand (0.25 – 7.00)	0.1	2.2	12.5	2.6	1	1	5.50		
EC-BH02	5.00 – 7.70 Made ground (5.00 – 5.30) Possible made ground (5.30 – 7.15) Silty fine to coarse sand (7.15 – 7.70)	0.2	5.1	13.6	1.8	0	1	5.04		
EC-BH03	4.00– 7.00 Made ground	0.1	1.3	11.0	4.2	0	1	5.69		
EC-BH04	3.00 – 5.00 Made ground (3.00 – 3.50) Possible made ground (3.50 – 5.00)	0.2	2.5	14.1	0.5	0	1	3.45		
EC-BH05	4.00– 7.00 Made ground (4.00 – 5.30) Silty fine to coarse sand (5.30 – 7.00)	0.3	0.8	11.8	0.7	0	0	4.59		
EC-BH06	4.00 – 7.00 Made ground (4.00 – 5.40) Possible made ground (5.40 – 7.50)	0.2	2.0	9.1	5.3	0	2	5.38		
EC-BH07	4.00 – 9.00 Made ground (4.00 – 5.20) Possible made ground (5.20 – 7.30) Silty fine to coarse sand (7.30 – 9.00)	0.2	1.1	9.1	5.3	0	0	4.84		
EC-BH08	4.00 – 7.00 Made ground (4.00 – 7.60)	0.1	13.7	12.7	2.2	0	0	6.08		
EC-BH09	4.00 – 7.00 Made ground (4.00 – 7.00)	0.2	13.7	10.6	3.5	0	1	5.46		
EC-BH10	4.00 – 7.00 Made ground –	-0.3	5.8	10.6	3.6	0	1	5.13	Outside GGRA scope area	
EC-BH11	7.00 – 9.00 Silty fine to coarse sand	0.1	0.5	10.7	4.7	1	2	5.69	Outside GGRA scope area	
EC-BH12	3.00 – 5.00 Made ground	0.2	0.5	10.2	4.9	0	0	3.82	Outside GGRA scope area	
EC-BH13	2.45 – 4.50 Made ground	0.1	0.6	8.1	6.4	0	0	2.80		
EC-BH15	1.00 – 4.00 Made ground (1.00 – 3.40) Slightly silty gravelly fine to coarse sand (3.40 – 4.00)	0.0	0.2	7.4	12.4	0	0	3.07		
EC-BH16	2.00 – 4.00 Made ground (2.00 – 3.50) Slightly silty sandy gravelly fine to coarse sand (3.50 – 4.00)	0.1	0.0	8.3	5.3	0	0	2.83		
EC-BH17	2.00 – 4.00 Made ground	0.1	0.1	4.0	16.3	0	0	3.01		

Table 2.6 SKF Ltd. monitoring summary										
Monitoring location	Response zone depth (m bgl) and stratum	Max. positive steady flow rate (l/hr)	Max. CH ₄ (% v/v)	Max. CO ₂ (% v/v)	Min. O ₂ (% v/v)	Max. H ₂ S (ppmv)	Max. CO (ppmv)	Standing water level (mbgl)	GGS Comments/observations	
EC-BH18	3.00 – 3.70 Made ground (3.00 – 3.05) Possible made ground (3.05 – 3.70) Sandstone (3.70 – Bedrock)	-0.3	3.9	9.5	6.0	0	1	3.22		



3. Preliminary conceptual site model

A conceptual site model (CSM), which supports the identification and assessment of contaminant-pathway-receptor pollutant linkages, is integral to the overall process of risk assessment. A preliminary CSM provides a foundation for hazard identification and risk estimation.

At the site, the identified potential hazards are associated with the ingress or generation and build-up of methane, carbon dioxide¹ and trace gases² with the building developments at the site, to the extent that;

- a. there is an explosion with the consequential serious injury or death of site workers, contractors, future users and/or visitors and damage to property,
- b. asphyxiating conditions develop with the consequential serious injury or death of site workers, contractors, future users and/or visitors;
- c. long-term exposure of low-level carbon dioxide and toxic trace gases leading to development of chronic health problems for site workers, contractors, future residents and/or visitors.

Risk estimation is based on consideration of magnitude, probability, and consequence of contaminant-pathway-receptor linkages occurring. GGS Scotland has used a matrix approach in line with best practice and as described in LCRM guidance³. In addition, unique to the hazards associated with ground-gases, a consideration of the ground-gas migration driving mechanisms is also documented

Based on the above potential pollutant linkage elements, and the available site information obtained from the earlier desk study, site investigation and gas monitoring work, a tabulated preliminary conceptual site model has been developed and is presented in Table 3.1 below.

¹ Methane, carbon dioxide, oxygen and nitrogen are referred to as 'bulk gases' and collectively make up approximately 100% by volume of ground-gases.

² Trace gases are the minor constituents of ground-gas present at concentrations of less than 1% by volume.

³ <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>.

Table 3.1 Preliminary conceptual site model

Source	Principal ground gases	Pathway	Receptor	Hazard Assessment	Discussion
Onsite - Made ground	Methane Carbon dioxide Trace gases	- Inhalation - Vertical / lateral migration through highly permeable strata - Preferential migration through service ducts / trenches, pilings, deep drainage and boreholes - Groundwater transport	Construction workers, visitors, future onsite development and occupants.	C = Severe P = Likely R = High risk	Levels of methane may be below lower explosive limit reducing consequence from severe to medium. Carbon Dioxide levels could be up to 10% therefore pushing consequence to severe. Consequence has been assessed as high likelihood.
Onsite - Historical bitumen refinery and associated storage tanks	Volatile organic carbons (VOCs) Methane Carbon dioxide	- Inhalation - Vertical / lateral migration through highly permeable strata - Preferential migration through service ducts / trenches, pilings, deep drainage and boreholes - Groundwater transport	Construction workers, visitors, future onsite development and occupants.	C = Severe P = Likely likelihood R = High risk	The bacterial breakdown of bitumen on site has led to increased carbon dioxide levels up to 10% that put the consequence as severe. Probability has been defined as high likelihood.

Table 3.1 Preliminary conceptual site model					
Source	Principal ground gases	Pathway	Receptor	Hazard Assessment	Discussion
Offsite - Former Town gas works	Volatile organic carbons (VOCs) Methane Carbon dioxide	- Inhalation - Vertical / lateral migration through variably permeable strata - Preferential migration through service ducts / trenches, pilings, deep drainage and boreholes - Groundwater transport	Construction workers, visitors, future onsite development and occupants.	C = Medium P = Low likelihood R = Low to moderate risk	Low levels of methane and CO2 are associated with contamination from town gas works, however due to elevated levels of VOCs consequence has been assessed as medium. Due to the distance between the town gas works and the site, as well as the permeable strata of the areas creating a vertical preferential pathway, probability has been designated as low likelihood.
	Methane Carbon Dioxide Trace gases	- Inhalation - Vertical / lateral migration through variably permeable strata - Preferential migration through service ducts / trenches, pilings, deep drainage and boreholes - Groundwater transport	Construction workers, visitors, future onsite development and occupants.	C = Severe P = Unlikely R = Low to moderate risk	Characteristic landfill gas is roughly 40% CO2 and 60% CH4 with a small percentage of trace gases. Due to the acute risk associated with these levels, consequence has been assessed as severe. However, the first 10-15 years after land is infilled is when peak values are expected to have been reached, as this quarry was infilled over 100 years ago it is unlikely to be producing dangerous levels of gases. Therefore Probability for this to become dangerous is unlikely.

Table 3.1 Preliminary conceptual site model					
Source	Principal ground gases	Pathway	Receptor	Hazard Assessment	Discussion
Key: C= Consequence of risk being realised, P= Probability of risk being realised, R= Risk classification The Qualitative Risk Classification Matrix is presented in Appendix G .					



4. Monitoring Methodology

4.1 Periodic Ground Gas Monitoring

Experienced GGS Scotland geo-environmental specialists undertook periodic monitoring of selected monitoring wells, on 3rd/4th May, and 31st of May 2023.

GGS Scotland periodic monitoring included measurement of borehole flow rates, bulk gas concentrations (methane – CH₄, carbon dioxide – CO₂ and oxygen – O₂), trace gas compounds (hydrogen sulphide - H₂S and carbon monoxide - CO) and barometric pressure. A GFM436 was used to record these parameters. Water levels and base depths were recorded using a geotechnical groundwater dip meter.

In all cases, gas concentrations and flow were measured until steady state conditions were observed, or up to a maximum of ten minutes. Measurements and pertinent observations were recorded on individual proforma record sheets for each monitoring well.

A summary of the periodic monitoring results is shown in [Section 5.1](#), whilst the full monitoring records are presented in [Appendix C](#).

Note: During the first site visit monitoring locations were designated BH A-BH F due to ambiguities in the borehole location plan provided. Location names have subsequently been updated for this report to reflect the initial borehole location plan. However, one borehole (BH D) has not been positively identified, and so is referred to as BH D throughout. Appendix A indicates the monitoring positions used.

4.2 Continuous Ground Gas Monitoring

4.2.1 Definition

When the frequency of sampling matches, or is greater than, the frequency of a parameter change, the data collected can be termed 'continuous'. A continuous dataset will therefore capture the full range of variation in the parameter being recorded.

4.2.2 Benefits of continuous data

The collection of time series data of permanent gases and other environmental parameters provides a wealth of information significantly assisting the assessor to identify the dominant processes of gas generation and migration. This leads to a more detailed understanding of the ground-gas regime and allows for an accurate and site-specific risk assessment to be completed.

4.2.3 Continuous monitoring schedule

Continuous ground gas monitoring was undertaken in 6 No. monitoring wells over a four week period during May 2023. Instruments were deployed in monitoring wells screening superficial deposits.

Table 4.1 below details the schedule of continuous gas monitoring at the site, as well as the instrument Model and ID numbers.

Table 4.1 Schedule of continuous monitoring at the site			
Monitoring well ID	Dates monitored	Days/No. samples	Instrument serial numbers
EC-BH15	05/0/23 – 31/05/23	26/618	GC221/01/12, FD0016, LL2145092
EC-BH16	04/05/23 – 31/05/23	27/643	GC47/16/18, FD0006 LL2145091
EC-BH17	04/05/23 – 28/05/23	23/561	GC123/03/10, FD0018 LL2140219
'BH D'	04/05/23 – 31/05/23	27/645	GC50/06/16, FD0008 LL2140237
EC-BH3	04/05/23 – 31/05/23	27/643	GC23/03/10, FD0009 LL2145072
EC-BH13	04/53/23 – 31/05/23	26/633	GC126/03/10, FD0028 LL2135307, BL21450206

GC denotes GasClam[®] and FD denotes Gas Flow Device, LL denotes Level Logger & BL denotes Barrologger.

*The instrument at this location stopped recording early due to a low battery.

GGs Scotland configured the GasClam® instruments to record at 60-minute intervals for the period of monitoring, to monitor bulk gas concentrations, methane (CH₄), carbon dioxide (CO₂) and oxygen (O₂) and trace gases, including hydrogen sulphide (H₂S) and carbon monoxide (CO). GGS Scotland co-deployed each GasClam® instrument with a Gas Flow device to simultaneously record continuous gas flow alongside gas concentrations.

A summary of the continuous monitoring results is presented along with the time series graphs in Section 5.2. The time series data is presented in [Appendix D](#), whilst the concentration duration curves are presented in [Appendix E](#). An outline of the GGS GasClam® Instrumentation Overview & Deployment Information is presented in [Appendix J](#), whilst the calibration certificates for the instruments used on site are presented in [Appendix K](#).

4.3 Surface emission surveys

GGs Scotland completed a surface emission survey of the site for methane (to ppmv level) on 14th June 2023.

Methane concentrations were recorded using a Inficon IRwin® professional methane leak detector, coupled to a funnel cup surface soil sampling probe. The Inficon IRwin has on board GPS logging capability to record coordinate referenced methane concentrations.

The surface emission survey is undertaken along predetermined transect lines in line with the Environment Agency Guidance on the monitoring of landfill gas surface emissions (LFTGN07 v2 2010). The specialised sample probe for the IRwin instrument is fitted with a funnel cup (150ml) and held close to the ground surface as practically possible (in any case <5cm), thus retrieving an air sample of any localised emissions from the surface. By walking along predetermined transect lines at a slow walking speed (approximately 1.5 mph) an accurate representation of surface emissions across the site is captured.

A summary of the surface emissions survey is presented in Section 5.5, whilst a GIS 5m grid survey plot is presented in Appendix G, alongside the raw survey data.

4.4 Flux box tests

GGs Scotland undertook a total of 5 No. flux box tests on the 6th June 2023, in line with the Environment Agency Guidance on monitoring landfill gas surface emissions (LFTGN07 V2 2010).

During flux box tests, ground gas flux emitted from the surface is determined by using a gas tight receptacle of a known volume and basal area. In all cases, a flux box fitted with two ports on the top, was used. An Inficon IRwin methane detector was used for monitoring methane in parts per million (ppm) and a GFM130 gas analyser was used for monitoring carbon dioxide in ppm. The inlet port of the flux box is used to equalise pressure whilst the outlet port is used to connect the IRwin and GFM130 by means of a quick release monitoring valve. The total volume of each flux box used is 165 litres (0.165 m³) and the footprint is 0.565 m².

To ensure accurate measurements, the flux box is temporarily sealed to the ground surface using loose sand mixed with bentonite powder. The sand and clay used was damp and compressed to provide an adequate seal to the surface for each flux box test. In all cases, the temporary seal was adequate to prevent air ingress and gas escaping, even in windy conditions.

Each flux box test location is assessed for practicality and safety, and if suitable the test is then ascribed with a unique reference number. Prior to starting the test, the current weather conditions are recorded along with accurate measurements of temperature, atmospheric pressure and wind speed and direction. Other pertinent information is also recorded, for example, ground surface conditions.

Once the readings from the IRwin and GFM130 instruments have stabilised in ambient air, the flux box is placed face-down upon the sand / clay seal and the inlet port is closed. The IRwin and GFM130 instruments are then used to record methane and carbon dioxide, respectively, at predetermined set time intervals of 30 seconds, 1, 2, 3, 4, 5, 10, 15, 20, 25 and 30 minutes.

The flux box test duration should be a minimum of 15 minutes and to a maximum of 60 minutes, dependent on concentrations measured and rate of change observed. For example, continuing a test where no significant rate of change is recorded would not provide a viable flux rate and concentrations that are excessively high after a short period may present a health and safety risk. It is ensured that all sample cycle periods are no longer than 15-30 seconds, as excessive air pumped from the flux box can change the pressure inside the chamber and affect the results.

A summary of the flux box test results is presented in [Section 5.6](#) and the collected data, site visit records are presented in Appendix F, whilst a flux box test location plan is presented in [Appendix A](#).

For Envirocentre Ltd.

Ref No. GGS3244GGRA_V1

Date: 27/06/2023



5. Results

A summary of the ground gas monitoring data and sampling results obtained by GGS Scotland during May 2023 is presented in the following section.

5.1 Periodic ground gas monitoring results

GGs Scotland undertook periodic monitoring of selected wells at the site on 3rd/4th May and 31st May. A summary of results is presented in Table 5.1 below, whilst the full periodic monitoring records are presented in [Appendix C](#).

Table 5.1 GGS Scotland periodic monitoring summary

Monitoring location	Response zone depth (m bgl) and stratum	Monitoring date	Max. positive steady flow rate (l/hr)	Max. CH ₄ (% v/v)	Max. CO ₂ (% v/v)	Min. O ₂ (% v/v)	Max. H ₂ S (ppmv)	Max. CO (ppmv)	Standing water level (mbgl)	Comments/observations
EC-BH15	1.00 – 4.00 Made ground (1.00 – 3.40) Slightly silty gravelly fine to coarse sand (3.40 – 4.00)	03/05/2023	0.0	0.0	0.5	19.9	0	0	3.17	-
		31/05/2023	0.0	0.0	0.6	19.7	0	0	Dry	-
EC-BH16	2.00 – 4.00 Made ground (2.00 – 3.50) Slightly silty slightly sandy gravelly fine to coarse sand (3.50 – 4.00)	03/05/2023	0.0	0.0	0.4	20.0	0	0	3.10	-
		31/05/2023	0.0	0.0	0.3	20.0	0	0	Dry	-
EC-BH17	2.00 – 4.00 Made ground	04/06/2023	0.0	0.0	2.1	16.4	0	0	3.17	Slight traces of bituminous hydrocarbons on dip tape once removed from well
		31/05/2023	0.0	0.0	1.8	17.9	0	0	3.32	-
'BH D'	Unverified location cannot be positively matched with available borehole logs	03/05/2023	0.0	0.0	12.7	0.0	0	0	2.46	Black bituminous residue pulled up from well on dip tape
		31/05/2023	0.0	0.0	13.7	0.3	0	0	2.67	-
EC-BH3	4.00– 7.00 Made ground	04/06/2023	1.9	0.0	3.4	12.5	0	0	4.69	Peak flow of 2.5 l/hr at 120 seconds before slight fluctuations until a steady state of 1.9 l/hr reached after 540 seconds
		31/05/2023	0.0	0.0	4.7	10.0	0	0	Dry	-
EC-BH13	2.45 – 4.50 Made ground	04/06/2023	0.0	2.0	8.6	0.0	0	0	2.79	-
		31/05/2023	2.4	1.3	8.9	0.0	0	0	Dry	Peak flow of 2.6 l/hr recorded at 180 seconds, however returned back to 2.4 l/hr at 240 seconds

5.2 Continuous ground gas monitoring results

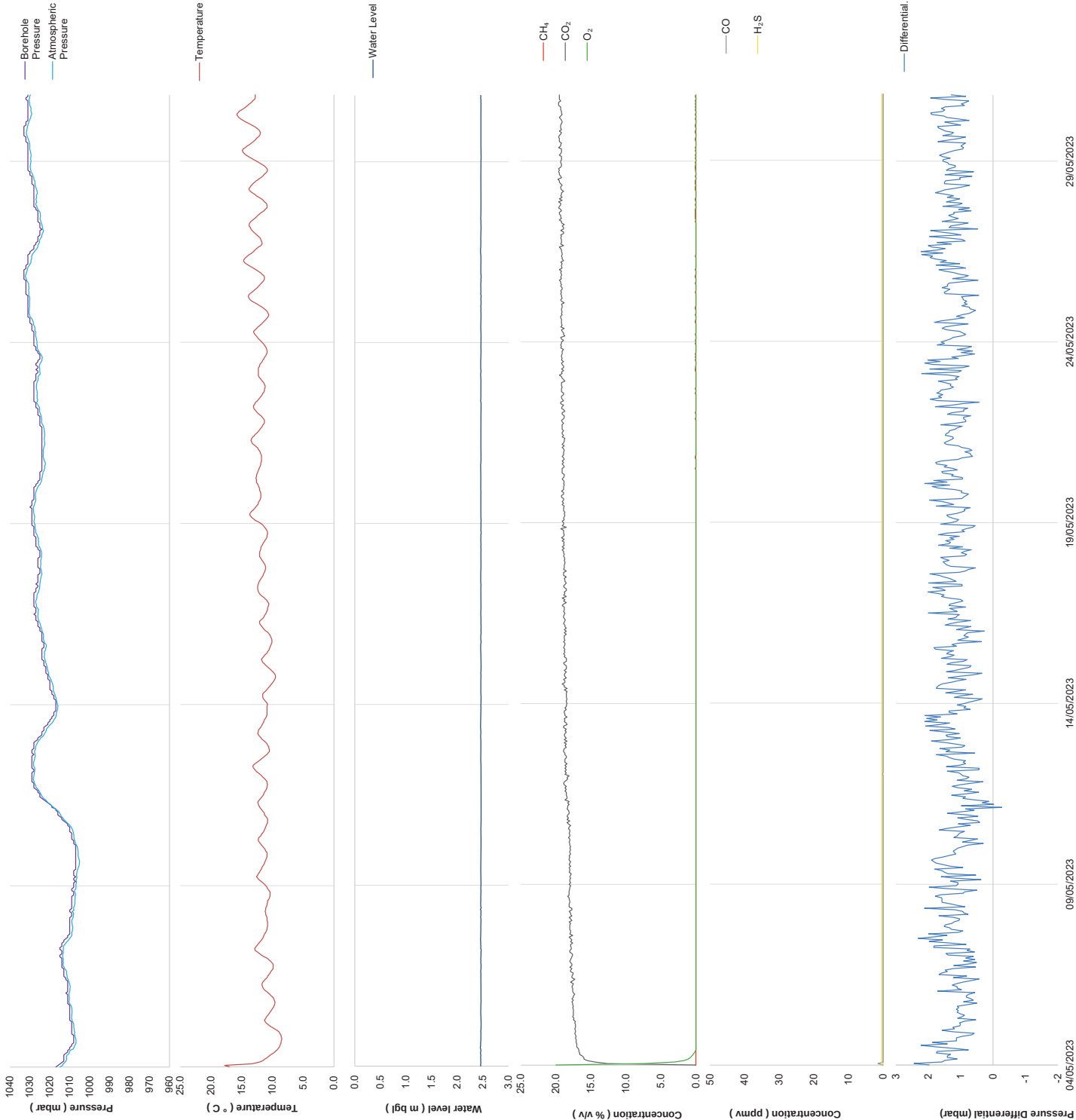
Continuous ground gas monitoring of 6 No. monitoring well locations was undertaken for a 4 May 2023.

To aid assessment, GGS Scotland has validated the time series data and plotted time series graphs showing ground gas concentrations, atmospheric pressure, and atmospheric temperature against time. Each time series graph also contains a minimum and maximum table.

Table 5.2 below provides a summary of the continuous monitoring results. The time series graphs are presented on the following pages, whilst the raw time series data is presented in [Appendix D](#), and an instrument overview and specification sheet is presented in [Appendix J](#).

Table 5.2 GGS Scotland continuous monitoring summary

Monitoring location	Response zone depth (m bgl) and stratum	Max. positive steady flow rate (l/hr)	Max. CH ₄ (% v/v)	Max. CO ₂ (% v/v)	Min. O ₂ (% v/v)	Max. H ₂ S (ppmv)	Max. CO (ppmv)	Comments/observations
EC-BH15	1.00 – 4.00 Made ground (1.00 – 3.40) Slightly silty gravelly fine to coarse sand (3.40 – 4.00)	0.26	0.3	0.0	19.8	0	3	
EC-BH16	2.00 – 4.00 Made ground (2.00 – 3.50) Slightly silty sandy gravelly fine to coarse sand (3.50 – 4.00)	0.06	0.3	0.0	19.8	0	2	
EC-BH17	2.00 – 4.00 Made ground	0.0	0.3	0.0	16.6	0	6	
'BH D'	Unknown location cannot be matched with borehole logs	2mbar (differential pressure)	0.1	19.7	0.0	3	4	Flow device malfunction encountered, therefore differential pressure was calculated as an alternative.
EC-BH3	4.00– 7.00 Made ground	0.26	0.0	14.3	2.7	1	5	
EC-BH13	2.45 – 4.50 Made ground	4.00	2.1	0.0	0.0	0	26	



Title:
BH D'- Time Series Graphs

Project:
GG3244 - Ardrossan Academy

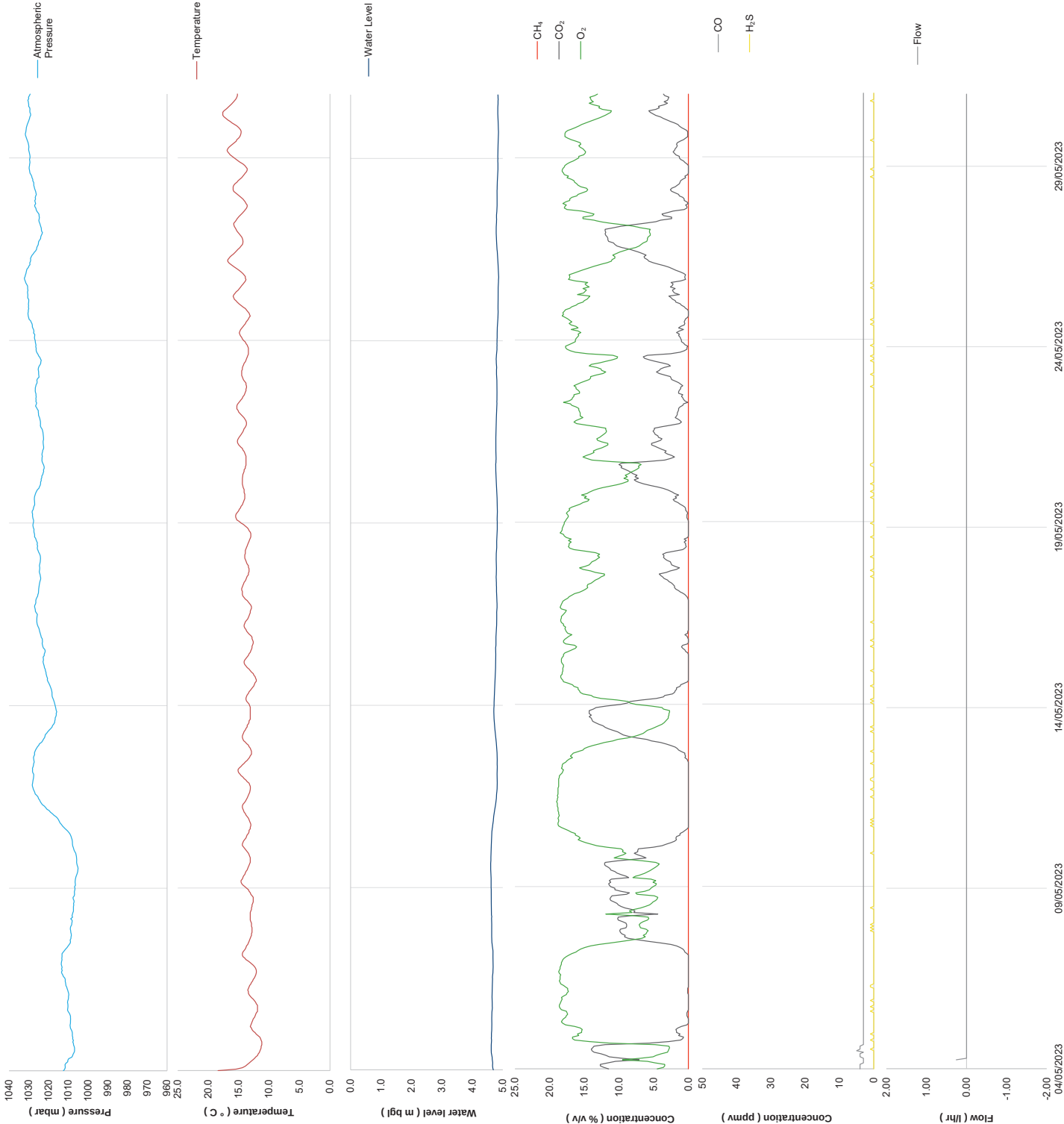
Client:
EnviroCentre Ltd.

Minimum / Maximum Table		
Parameter	Minimum	Maximum
CH ₄ (% v/v)	0.0	0.1
CO ₂ (% v/v)	0.0	19.7
O ₂ (% v/v)	0.0	20.0
Hydrogen Sulphide (ppmv)	0	0
Carbon Monoxide (ppmv)	0	2
Atmospheric Pressure (mbar)	1005	1032
Borehole Pressure (mbar)	1007	1033
Temperature (° C)	8.5	17.8
Differential Pressure (mbar)	0	2
Water level (m bgl)	2.45	2.47

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Title:
EC - BH5 - Times Series Graphs

Project:
GGS3244 - Ardrossan Academy

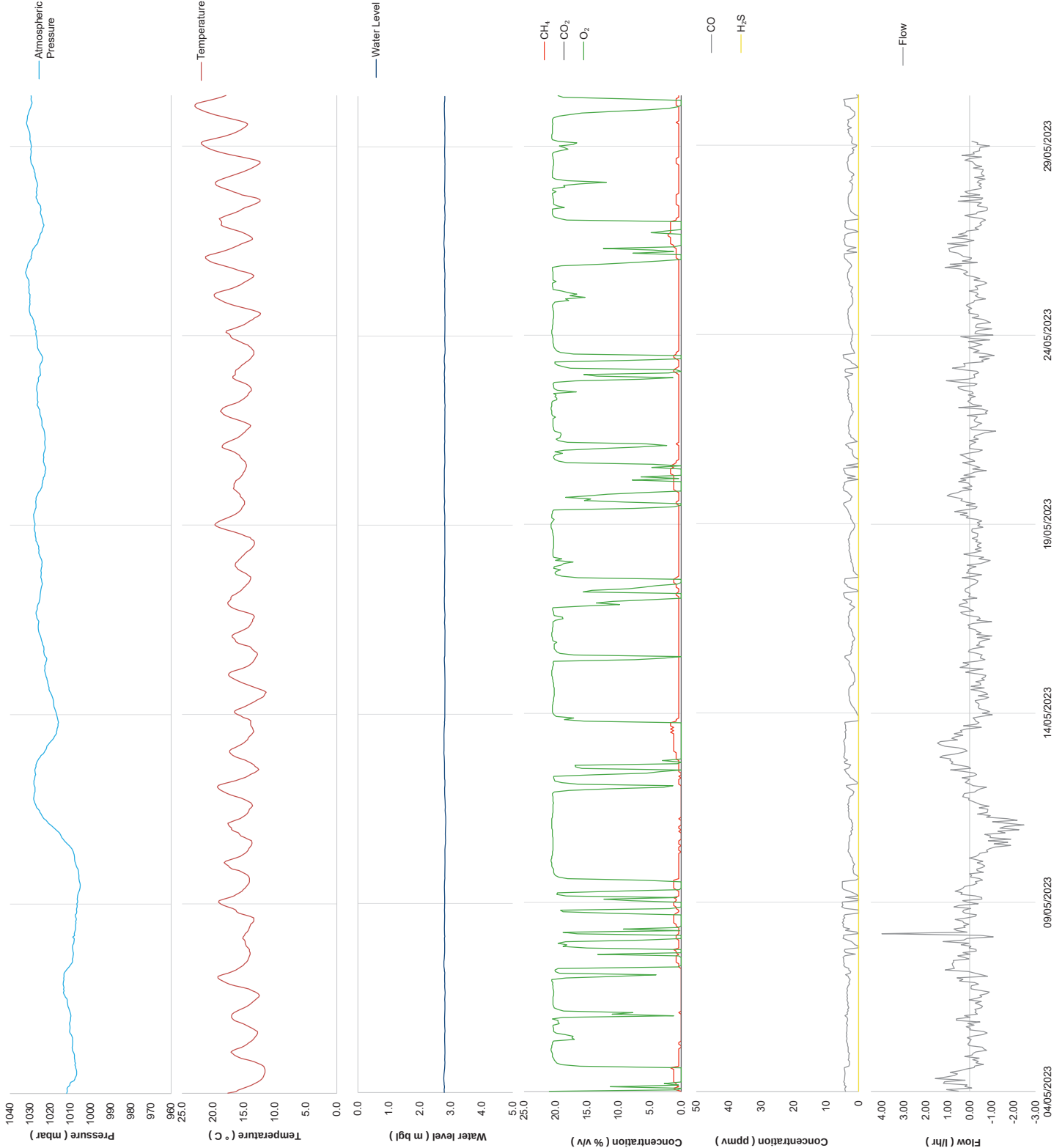
Client:
Environcentre Ltd.

Minimum / Maximum Table		
Parameter	Minimum	Maximum
CH ₄ (% v/v)	0.0	0.0
CO ₂ (% v/v)	0.0	14.3
O ₂ (% v/v)	2.7	19.0
Hydrogen Sulphide (ppmv)	0	1
Carbon Monoxide (ppmv)	3	5
Atmospheric Pressure (mbar)	1005	1032
Temperature (° C)	11.2	18.4
Flow (l/hr)	0.00	0.26
Water level (m bgl)	4.60	4.86

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Title:
EC - BH13 - Time Series Graphs

Project:
GGS3244 - Ardrossan Academy

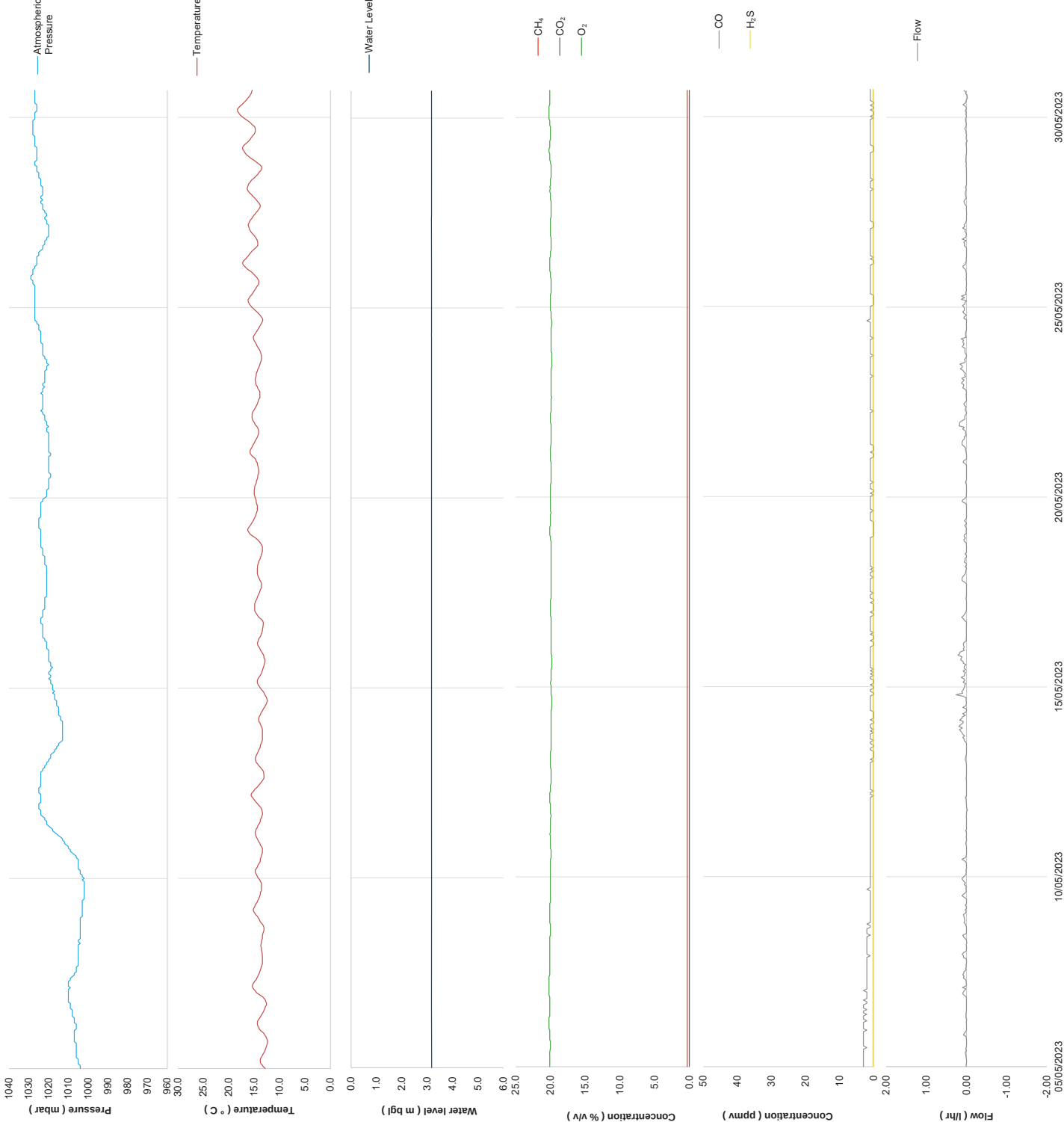
Client:
EnvironCentre Ltd.

Minimum / Maximum Table		
Parameter	Minimum	Maximum
CH ₄ (% v/v)	0.0	2.1
CO ₂ (% v/v)	0.0	0.0
O ₂ (% v/v)	0.0	21.0
Hydrogen Sulphide (ppmv)	0	0
Carbon Monoxide (ppmv)	0	5
Atmospheric Pressure (mbar)	1005	1032
Temperature (° C)	11.4	22.9
Flow (l/hr)	-2.48	4.00
Water level (m bgl)	2.77	2.84

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Title:
EC-BH15 - Time series graphs

Project:
GGS3244, Ardrossan Academy, Ardrossan

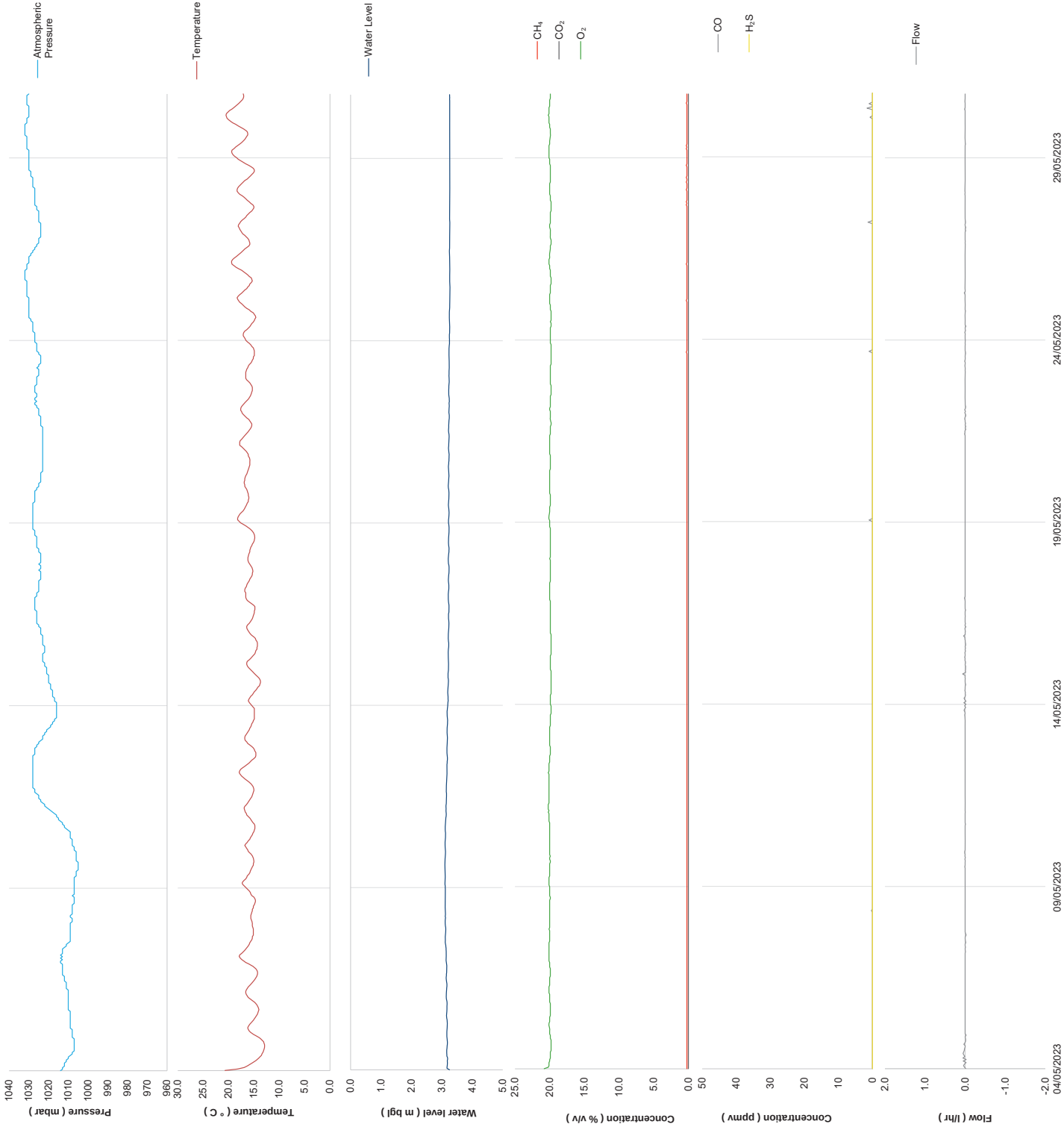
Client:
Envirocentre Ltd.

Minimum / Maximum Table		
Parameter	Minimum	Maximum
CH ₄ (% v/v)	0.0	0.3
CO ₂ (% v/v)	0.0	0.0
O ₂ (% v/v)	19.8	20.2
Hydrogen Sulphide (ppmv)	0	0
Carbon Monoxide (ppmv)	0	3
Atmospheric Pressure (nbar)	1002	1029
Temperature (° C)	12.4	18.3
Flow (l/hr)	-0.02	0.26
Water level (m bgl)	3.16	3.18

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Title:
EC-BH16 - Time series graphs

Project:
GGS3244 Ardrossan Academy, Ardrossan

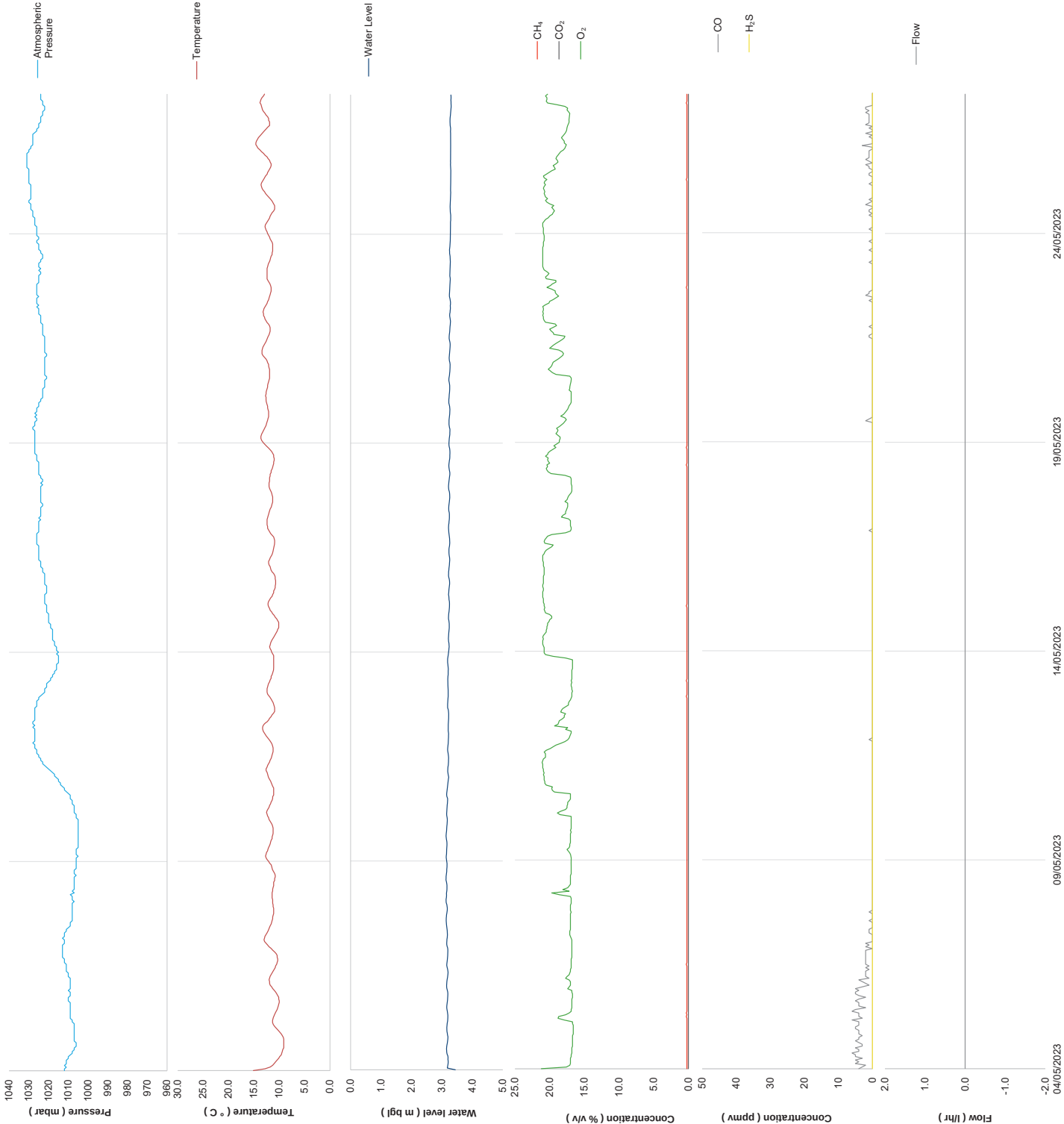
Client:
Envirocentre Ltd.

Minimum / Maximum Table		
Parameter	Minimum	Maximum
CH ₄ (% v/v)	0.0	0.3
CO ₂ (% v/v)	0.0	0.0
O ₂ (% v/v)	19.8	20.8
Hydrogen Sulphide (ppmv)	0	0
Carbon Monoxide (ppmv)	0	2
Atmospheric Pressure (nbar)	1005	1032
Temperature (° C)	12.9	20.7
Flow (l/hr)	-0.03	0.06
Water level (m bgl)	3.10	3.27

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Title:
EC-BH17 - Time series graphs

Project:
GGS3244 Ardrossan Academy, Ardrossan

Client:
Envirocentre Ltd.

Minimum / Maximum Table		
Parameter	Minimum	Maximum
CH ₄ (% v/v)	0.0	0.3
CO ₂ (% v/v)	0.0	0.0
O ₂ (% v/v)	16.6	21.2
Hydrogen Sulphide (ppmv)	0	0
Carbon Monoxide (ppmv)	0	6
Atmospheric Pressure (nbar)	1005	1031
Temperature (° C)	9.1	15.1
Flow (l/hr)	0.0	0.0
Water level (m bgl)	3.14	3.44

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5.3 Surface emission survey results

GGs Scotland completed surface emission surveys of the site for methane (to ppmv level) on 14th June 2023. Table 5.6 below summarises the minimum and maximum concentrations measured during each survey.

Table 5.6 Surface emissions survey results		
Survey Date	Methane Concentration (ppmv)	
	Minimum	Maximum
14/06/2023	0	5

A GIS 20m grid survey plot is presented in [Appendix G](#), alongside the raw survey data.

5.4 Flux box test results

GGs Scotland undertook 5 No. flux box test at the site 6th June 2023. A summary of the flux box test results is presented in Table 5.7 below, whilst the full flux box test records are presented in [Appendix F](#).

Table 5.7 Flux box test results		
Test reference	Maximum recorded concentrations (ppmv)	
	Methane [#]	Carbon dioxide
FB01	0	456
FB02	0	514
FB03	0	515
FB04	0	477
FB05	0	457

#Note – Methane results presented are relative to atmospheric background concentrations (i.e. c.2ppmv).

6. Generic qualitative ground gas risk assessment

6.1 Methane and carbon dioxide

As an initial approach, GGS Scotland has undertaken a generic screening assessment for the site using the maximum concentrations of methane and carbon dioxide which have been identified within the monitoring locations during all recorded ground gas monitoring completed, along with maximum steady positive flow to represent 'worst possible' current conditions as originally outlined in CIRIA C665⁴ guidance, since refined by BS8485:2015 + A1:2019. These are as follows:

- Methane – 2.1% v/v (EC-BH13, GGS Scotland continuous monitoring).
- Carbon dioxide – 19.7% v/v ('BHD', GGS Scotland continuous monitoring).
- Steady flow rate – 4.00 l/hr (EC-BH13, GGS Scotland continuous monitoring).

The hazardous gas flow rates have been calculated using the following equation:

$$\text{Hazardous gas flow rate (litres of gas per hour)} = (\text{Chg} - \text{measured hazardous gas concentration (\% v/v)/100}) \times q \text{ (borehole flow rate in litres per hour)}$$

Note: Earlier site investigations at the site encountered elevated methane concentrations. GGS Scotland did not encounter such results during this investigation. Based on the results observed, GGS consider the absence of significantly elevated is currently representative of the site gas regime. As such, the earlier methane results have been discounted for GSV calculation purposes. In any event, even had they been included, they would not change the overall Characteristic Situation result arising (due to the more significantly elevated CO₂ concentration observed).

Hazardous gas flow rates can be used (with consideration of additional factors) to determine appropriate Characteristic Situations based on the modified Wilson and Card classification system as shown in Table 6.1 below:

⁴ CIRIA (2007). Assessing risks posed by hazardous ground-gases to buildings. C665.

Table 6.1 Modified Wilson and Card classification system		
Hazardous gas flow rates (Qhgs – L/hr)	Risk classification	Characteristic Situation
<0.07	Very Low Risk	1
<0.7	Low Risk	2
<3.5	Moderate Risk	3
<15	Moderate to High Risk	4
<70	High Risk	5
>70	Very High Risk	6

Table 6.2 below summarises hazardous gas flow rates and the Characteristic Situation calculated using the maximum gas concentration and maximum positive steady flow measured during all monitoring completed at the site to represent 'worst possible' conditions as per CIRIA guidance C665 Situation A (e.g., factories, shops, commercial, warehouses, schools, cinemas, sports centres, stadiums, high rise housing, housing with basements).

Table 6.2 Gas screening value calculation as per CIRIA C665 Situation A from all monitoring completed at the site					
Maximum CH ₄ concentration (% v/v)	Maximum CO ₂ concentration (% v/v)	Maximum steady state flow rate (L/hr)	Hazardous CH ₄ Flow Rate (L/hr)	Hazardous CO ₂ Flow Rate (L/hr)	Characteristic Situation (CS)
2.1	19.7	4.00	0.084	0.788	3

The generic screening assessment indicates that the 'Worst Possible' classification is CS3, or moderate risk, with respect to methane and carbon dioxide for the proposed development at the site.

Table 6.3 below provides a summary of hazardous gas flow rates and the Characteristic Situation calculated on a borehole-by-borehole basis, using maximum concentration and worst-case steady flow measured at the site from all available investigations to represent 'worst possible' current conditions as per BS8485:2015+A1:2019.

Table 6.3 Gas screening value calculation as per CIRIA C665 on borehole-by-borehole basis						
Monitoring location	Max. CH ₄ conc. (% v/v)	Max. CO ₂ conc. (% v/v)	Maximum steady state flow rate (L/hr)	Hazardous CH ₄ Flow Rate (L/hr)	Hazardous CO ₂ Flow Rate (L/hr)	Characteristic Situation (CS)
EC-BH01	2.2	12.5	0.1	0.0022	0.0125	1*
EC-BH02	5.1	13.6	0.2	0.0102	0.0272	1*
EC-BH03	1.3	11.0	0.1	0.0013	0.011	1*
EC-BH04	2.5	14.1	0.2	0.005	0.0282	1*
EC-BH05	0.8	11.8	0.3	0.0024	0.0354	1*
EC-BH06	2.0	9.1	0.3	0.006	0.0273	1
EC-BH07	1.1	9.1	0.2	0.0022	0.0182	1
EC-BH08	13.7	12.7	0.1	0.0137	0.0127	1*
EC-BH09	13.7	10.6	0.2	0.0274	0.0212	1*
EC-BH10	5.8	10.6	-0.3 (0.1)	-0.0174	-0.0318	1*
EC-BH11	0.5	10.7	0.1	0.0005	0.0107	1*
EC-BH12	0.5	10.2	0.2	0.001	0.0204	1*
EC-BH13	0.6	2.1	0.1	0.0126	0.0006	1
EC-BH15	0.2	7.4	0.0	0.0002	0.0074	1
EC-BH16	13.7	10.6	0.2	0.0274	0.0212	1*
EC-BH17	5.8	10.6	-0.3 (0.1)	-0.0174	-0.0318	1*
EC-BH18	0.5	10.7	0.1	0.0005	0.0107	1*
BH D	<0.1	0.1	19.7	0.0001	0.0197	1*

Note: Where maximum flow rates are recorded as <0.1 l/hr, a value of 0.1 l/hr for the purposes of calculating GSVs.

* BS8485:2015+A1:2019 indicates that where CH₄ >1.0% or CO₂ >5%, consideration should be given to uprating the site classification.

With respect to methane and carbon dioxide, the generic screening assessments on a borehole-by-borehole basis indicate that the 'worst possible' classification for the site is CS1, or moderate risk as per BS8485:2015+A1:2019.

However, it is important to note that the hazardous gas flow rates alone take no account of the site-specific conceptual site model or other lines of evidence. Also, the assessment does not consider gases other than methane and carbon dioxide. It is therefore prudent to consider the site in further detail and in the context of the conceptual site model as discussed in the next section.

6.2 Oxygen depletion

Table 6.4 below summarises the physiological effects of an oxygen deficient atmosphere based on CIRIA report 149.

Table 6.4 Effects of oxygen depletion	
Level	Effect
Above 21%	Increased flammability and accelerated combustion.
19 – 21%	Normal range of concentration in atmospheric air. No discernible symptoms, action should be taken before levels fall further.
11 – 18%	Initial signs of anoxia. Mental and physical performance and vision impaired. Individual will not be aware of this performance impairment, and judgement is affected.
8 – 11%	Nausea, vomiting and fainting may occur within a few minutes.
6 – 8%	Fainting virtually immediately, not able to move, brain damage and death follow.
Below 6%	Loss of consciousness, breathing stops, cardiac arrest, and death follows.

Oxygen levels during the recent monitoring period were recorded below the limit of detection (<0.1% v/v). This falls into the 'Loss of consciousness' category which also features breathing cessation and cardiac arrest. Such levels may pose a potential risk to human health, if they were to be encountered within confined spaces (such as, trenches, basements or below-ground car parks).

6.3 Trace gases

GGs Scotland also undertook periodic and continuous monitoring of carbon monoxide (CO) and hydrogen sulphide (H₂S) at the site. These are trace gases that are frequently associated with ground contamination and therefore are key indicators in a ground-gas risk assessment.

Hydrogen sulphide

Hydrogen sulphide is classed as a chemical asphyxiant, similar to carbon monoxide and cyanide gases. It inhibits cellular respiration and uptake of oxygen, causing biochemical suffocation. Typical exposure symptoms as indicated by the Health Protection Agency website⁵ are given in Table 6.5.

⁵ www.hpa.nhs.uk/webw/HPAweb&Page&HPAwebAutoListDate/Page/1219130166334?p=1219130166334 which also references TOXBASE: Hydrogen sulphide, 2004 and Air Quality Guidelines for Europe. World Health Organization Regional Office for Europe, Copenhagen WHO Regional Publications, European Series, No. 91, Second Edition, 2000.

For Envirocentre Ltd.

Table 6.5 Effects of hydrogen sulphide poisoning	
Concentration in parts per million (ppmv)	Signs and symptoms
10 – 20	Threshold for eye irritation
50 – 100	Serious eye damage
100 – 250	Loss of smell after 3-15 minutes. Throat stinging.
250	Irritation of mucus membranes, rhinitis, bronchitis, cyanosis, and acute lung injury. Prolonged exposure - pulmonary oedema. Conjunctivitis, photophobia, lacrimation, corneal opacity.
250 – 500	Headache, nausea, vomiting, diarrhoea, vertigo, amnesia, dizziness, apnea, palpitations, tachycardia, hypotension, muscle cramps, weakness, disorientation, coma and pulmonary oedema with risk of death.
530 – 1000	Strong CNS stimulation, tremors, blurred vision, cyanosis, seizures and tachycardia, hyperpnoea followed by respiratory arrest.
1000 – 2000	Rapid collapse, respiratory paralysis, coma asphyxial seizures and death.

The Health & Safety Executive⁶ states that the workplace exposure limits for hydrogen sulphide during a short-term exposure limit (STEL) – 15-minute reference period is 10ppmv (14 mg m⁻³) and a long-term exposure limit is (LTEL) - 8-hour reference period is 5 ppmv (7 mg m⁻³).

Hydrogen sulphide was detected at a maximum concentration of 6 ppmv. This is below both the short and long-term exposure limits and therefore requires no further consideration.

⁶ Health & Safety Executive. EH40/2005 Workplace Exposure Limits 2005. The Stationery Office, London, 2005. For Envirocentre Ltd.

Carbon monoxide

Carbon monoxide (CO) is a colourless and tasteless gas but is highly toxic. The most common symptoms of carbon monoxide poisoning may resemble other types of poisonings and infections (such as influenza) including nausea, dizziness, headache, feeling weak and lethargy.

The Health & Safety Executive states that the workplace exposure limits for carbon monoxide during a short-term exposure limit (STEL) - 15-minute reference period, is 100 ppmv (117mg m^{-3}) and a long-term exposure limit is (LTEL) - 8-hour reference period, is 20 ppmv (23mg m^{-3}).

Carbon monoxide concentrations were recorded at up to 3 ppmv during all monitoring completed at the site. This is below the long-term exposure levels and therefore requires no further consideration.

6.4 Gas migration mechanisms

In order for a pollutant linkage to be established from ground-gases, a migration mechanism is required to drive those gases towards a receptor.

Gas will migrate via diffusion (for example moving to areas of low gas concentrations around a site) and/or pressure differences in the soil. For migration to be sustained, the gas should be continuously replaced by new generation. There are four principal factors influencing gas migration:

- Pressure differential (generation of gas from within the source and changes in atmospheric pressure or other environmental factors);
- Diffusion along gas concentration gradients;
- Transport, in dissolved form, within liquids;
- Water level changes.

Pressure: Gases actively generating in the ground (in-situ coal, buried waste, natural soils or made ground) can create localised areas of increased pressure. As this pressure rises above surrounding soil pressures, the gas will move outwards to areas of lower pressure. The variation in pressure or 'pressure differential' throughout the soils results in gases moving from areas of high pressure to areas of low pressure. The in-ground pressure can also be heavily influenced by environmental effects such as atmospheric pressure changes and rising water levels.

As atmospheric pressure changes, the near surface soil pressures respond by trying to equalise to the new pressure. Where soil permeability is high, in sands for instance, this can occur freely and quickly, and no significant differential pressure is observed. However, where there is a restriction in pressure equilibrium (such as in cohesive materials, like clays and silts), a lag time is typically observed, and a differential pressure is temporarily created. It is this pressure difference that causes the flow of gas and can be both positive (out of the ground) and negative (into the ground) and is typically variable. This process is known as 'barometric pumping'.

A rising water level will have the effect of displacing a significant portion of gas filled pore spaces which can induce an increased pressure from the surface of the water level,

generally displacing gases vertically, although migration can occur in other directions particularly where vertical escape of gas is restricted. This is what we term the 'piston effect'.

Diffusion: Diffusion describes a gas's natural tendency to reach a uniform concentration in a given space, whether it is a room or the earth's atmosphere. Gases in soils diffuse from areas of high gas concentrations to areas with lower gas concentrations.

Transport, in dissolved form, within liquids: Many gases are soluble within liquids; the degree of solubility is related to the type of gas and the pressure and temperature of the environment in which the gases are present. The transport of dissolved gases in liquid from a high-pressure environment to a low-pressure environment is likely to result in gases coming out of solution, "degassing".

Flow (Permeability): Gases will migrate according to the location of pathways of least resistance, or highest permeability. Permeability is a measure of how effectively gases and liquids will flow through connected spaces or pores in refuse and soils. Dry, sandy soils are highly permeable (many connected pore spaces), while moist clay tends to be much less permeable (fewer connected pore spaces).

Water level changes: Rainfall and tides can cause rising water levels within the ground. This in turn can compress gas within the unsaturated zone causing gases to migrate vertically (and potentially laterally) to an area of reduced pressure.

The assessment of monitoring data below will provide the likely dominant drivers for ground-gas migration.

6.5 Atmospheric pressure analysis

Atmospheric pressure is often a dominant ground-gas driver and as such, monitoring should include sampling during falling pressure events. To capture potential 'worst case' conditions monitoring should include both short and longer duration falling pressure events at a rate of 1.15 millibars per hour and above⁷. Table 6.6 below summarises the most significant atmospheric pressure events during the continuous monitoring period, whilst Figure 3 provides percentage distribution of the atmospheric pressure regime.

Table 6.6 Atmospheric pressure regimes during the continuous monitoring period	
Monitoring period	04/05/2023 – 31/05/2023
Range in atmospheric pressure (mbar)	27mbar (1005 – 1032 mbar)
Most significant atmospheric pressure fall	8mbar over 20 hours (0.4mbar/hour) 1024mb 16:042 13/05/2023 – 1016mb 12:42 14/05/2023
Number of samples taken under 1000mb	0 (0%)
Number of samples taken below 1000mb and falling	0 (0%)

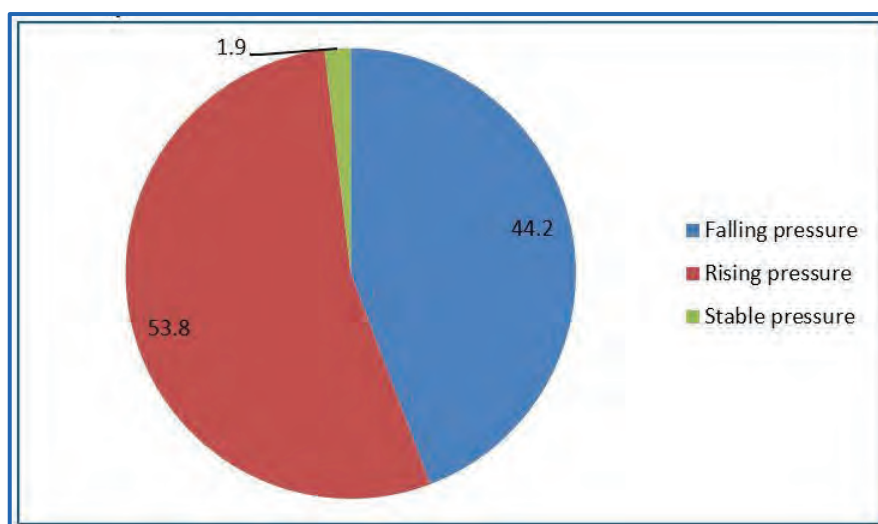


Figure 3 Percentage distribution of atmospheric pressure conditions during the continuous monitoring period

⁷ CL:AIRE Technical Bulletin TB18 Continuous Ground Gas Monitoring and the Lines of Evidence Approach to Risk Assessment. January 2019
For Envirocentre Ltd.

A number of significant atmospheric pressure falls occurred during the continuous monitoring period, including three which equal or exceed a rate of 1.15mb/hr. It is therefore considered that events satisfying ‘worst case’ conditions have been captured.

Figure 4 demonstrates that the most significant pressure fall captured during the continuous monitoring period was 8 millibars over 20 hours. This does not satisfy ‘worst case’ conditions, with reference to British Coal NG/9⁸.

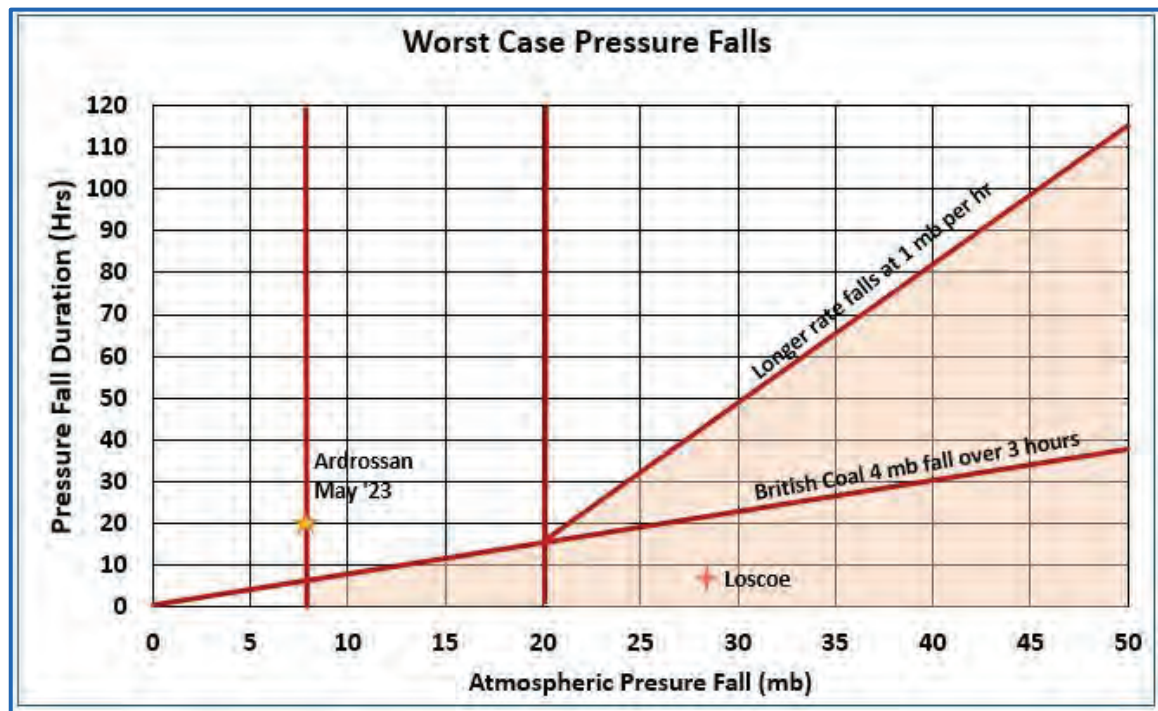


Figure 4 Worst case pressure falls taken from TB18, with reference to British Coal NG/9, with the most significant pressure fall captured during the monitoring period (orange star). The pressure fall event which caused the Loscoe explosion incident is shown for comparison.

Figure 5 shows the atmospheric pressure captured during the continuous monitoring period (area below 1000mb is highlighted red). Figure 6 presents the 8-hour average atmospheric pressure changes, set against the threshold for worst-case pressure fall of 1.15 millibar per hour. It demonstrates that no pressure falls during the monitoring period exceeded the threshold of 1.15 millibar per hour over an 8-hour period with reference to the scenario outlined in TB18⁹.

⁸ British Coal Technical Department. Notes for Guidance NG/9: Hazardous Gases Underground. 1990.

⁹ CI:AIRE, Continuous ground-gas monitoring and the lines of evidence approach to risk assessment (2019)

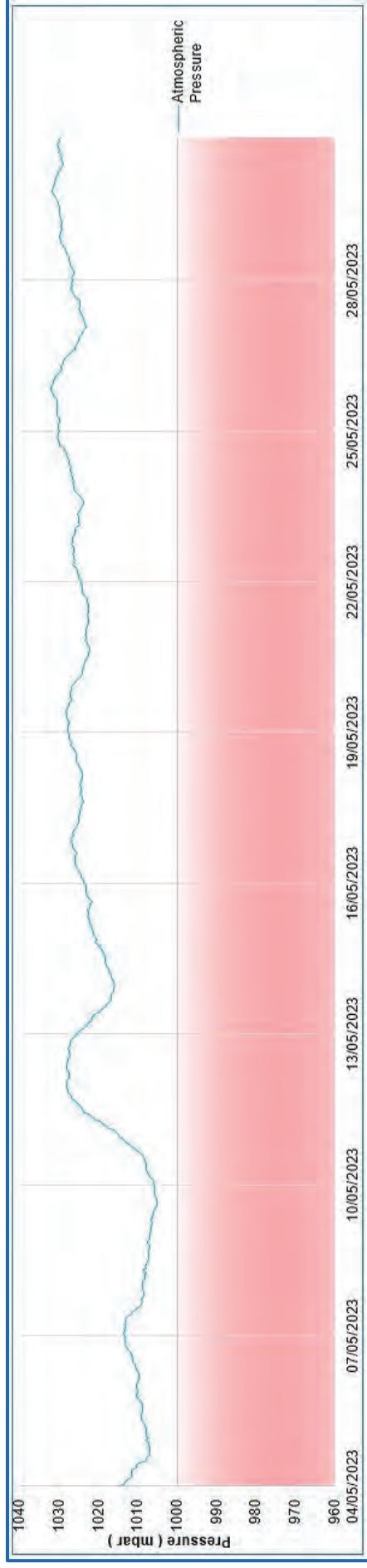


Figure 5 Atmospheric pressure trend during the continuous monitoring period with the shaded area below 1000mb.

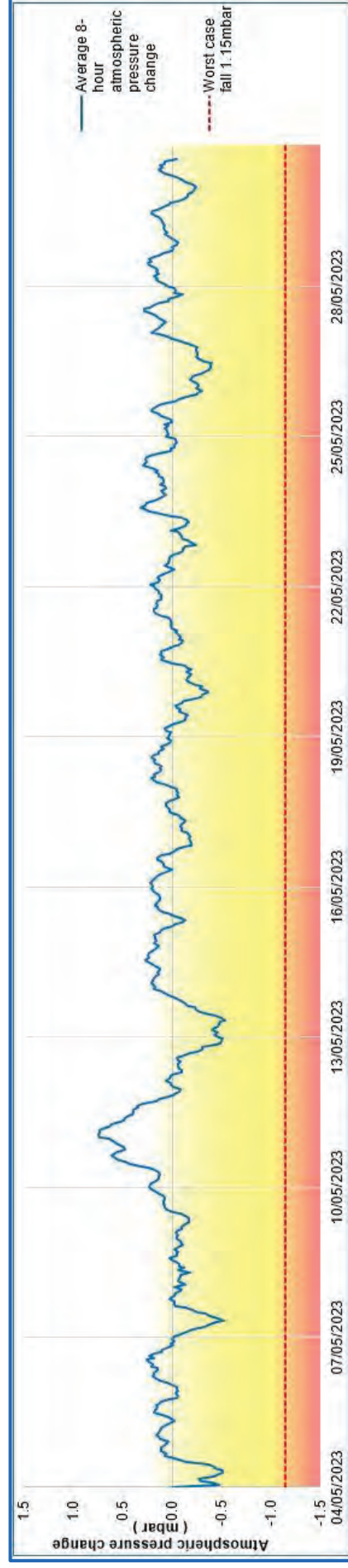


Figure 6 8-hour average atmospheric pressure trend during the continuous monitoring period in comparison to worst case pressure fall threshold.

7. Detailed ground gas risk assessment

Given the ground-gas concentrations and borehole flow rates recorded at the site, it is considered prudent to carry out a further detailed ground-gas risk assessment, which considers the wider site context, including the conceptual site model and all the data gathered during GGS Scotland's monitoring completed between September and November 2022, using a lines of evidence approach.

7.1 Conceptual site model discussion

Below is a summary of the source, pathways and receptors that should be considered at the site in relation to the revised conceptual site model during this investigation.

Potential ground gas receptors

The potential ground-gas receptors at the site are the proposed school developments, future pupils and/or staff, site workers and services.

Potential ground migration pathways

The site is underlain by raised beach deposits. The beach deposits are typically described as slightly silty gravelly fine to coarse sand.

A shallow unsaturated zone is evident and is generally consistent across the site.

The unsaturated raised beach deposits will permit relatively free lateral and vertical migration of any ground gases present. Currently, this will lead to relatively free and immediate vertical pathways to ground gas migration being prevalent. These pathways are likely to be interrupted by the proposed construction works, potentially leading to localised accumulations of ground gas. The proposed construction should consider this within the eventual gas protection design, ensuring as far as practical that building design incorporates a pressure relief pathway or equivalent to prevent the build up of gas driven pressure beneath the footprint of the proposed school buildings.

Potential ground gas sources

Four potential ground gas source has been identified at the site, and in the adjoining areas. The potential ground gas sources identified in the preliminary conceptual site model are as follows:

- Onsite made ground deposits;
- Onsite hydrocarbon deposits due to former bitumen refinery
- Offsite hydrocarbon deposits due to former town gas works
- Offsite waste deposits due to former landfilling activity

Given the relatively free vertical pathway posed by the underlying unsaturated superficial deposits, the offsite sources provisionally identified are unlikely to pose significant hazard to the proposed development due to their distance offsite.

The evidence collected strongly suggests that the principal driver of the observed ground gas conditions is the residual onsite bitumen hydrocarbon deposits, with highly localised accumulations of ground gas present in those areas where hydrocarbon contamination remains. The highest carbon dioxide concentrations encounter display behaviour characteristic with 'source' behaviour, that is, the monitoring well is situated directly within, or in very close proximity to the location of ground gas generation, as evidenced by the stability of CO₂ concentrations observed, despite changing atmospheric conditions. This is most apparent at location 'BH D'.

7.2 Lines of evidence discussion

The initial 'worst case' generic screening risk assessment indicates that the site falls within the CS3 classification of the CIRIA C665 Situation A guidance with respect to methane and carbon dioxide. The CS3 classification is largely driven by elevated methane and carbon dioxide concentrations measured during the site's initial investigation. On the borehole-by-borehole assessment all locations are calculated as CS1, albeit consideration of uprating is required due to methane and carbon dioxide concentrations above 1% v/v and 5% v/v respectively. With consideration to the gas regime measured in each monitoring installation and BS8485:2015+A1:2019 guidance, the site would be commensurate to a CS2 classification.

Below is a discussion and consideration of all the evidence and monitoring data, using a line of evidence approach to consider each of the potential gas sources and pollutant linkages that have been identified at the preliminary conceptual model stage. As such, key points of the discussion address the potential for vertical and lateral ground-gas migration that could lead to an adverse impact on future residents/occupants and buildings.

The site is underlain by relatively permeable superficial deposits (Beach deposits). The underlying solid geology consists of sandstone. It is considered that the Beach deposits are relatively permeable and will allow both upward and lateral gas migration to a significant extent. The solid geology could provide a migration pathway due to its coverage and composition.

7.2.1 Borehole pressure, atmospheric pressure and flow

High frequency monitoring, or continuous monitoring, can allow for a more complete observation between the relationship of the gases measured and environmental variables, such as atmospheric pressure, borehole pressure and flow. In permeable soils, where ground-gases can freely 'breathe' in and out in response to changes in atmospheric pressure, the borehole pressure will easily respond to changes in atmospheric pressure and largely remain in equilibrium. However, where the ground-surface is sealed, say by a less impermeable layer such as Glacial Till or saturated ground, then the ground-gases will not 'breathe', or respond as easily to changes in atmospheric pressure and the ground-gas pressure will not be in equilibrium to the atmosphere. The result will be the development of a differential pressure.

Given that the superficial deposits will have relatively high permeability, the ground is more likely to respond in sequence to changes in atmospheric pressure and differential pressure is less likely to occur.

Within the wells monitored during this investigation, gas flow rates have been recorded above detection limits at EC BH-3 and EC BH-13. In these cases, the flow rates were associated with the emission of accumulated carbon dioxide, due to microbial oxidation of residual hydrocarbon contamination within the site.

Continuous monitoring completed by GGS Scotland, in locations with the exception of EC-BH17 also recorded both positive and negative flow rates.. These periods of alternating flow rates were associated with significant elevations of carbon dioxide (with maximum concentrations 19.7% v/v) along with significant oxygen depletion (to a minimum of <0.1% v/v). These periods of hazardous bulk gases being present were both frequent, and in some instances sustained. The pattern of occurrence of such conditions appears localised to those areas where significant residual bitumen contamination remains. As the continuous monitoring period included no atmospheric pressure falls that can be considered to represent worst case conditions, it must be considered that borehole flow rates may be either more significant and/or widespread during worst case conditions.

With consideration to all lines of evidence, the recorded flows from the monitoring installations are likely to be associated with the underlying gas regime and should be considered as representative of the peak ground gas hazard at the site, albeit this hazard is largely localised to those areas where significant residual bitumen hydrocarbon contamination is present. Given the relatively shallow depths involved, and the permeability of the unsaturated sand deposits, these ground gas accumulations will continue to be able to migrate vertically with relative ease where atmospheric pressure conditions allow.

7.2.2 Gas regime, dissolved gases and groundwater

High standing water levels are generally absent across all shallow installations. The prevailing groundwater regime is most likely driven by the immediately adjoining sea level, which is c.5m below site level. Due to this relatively deep groundwater regime, coupled with the highly permeable superficial deposits, the significance of dissolved gases and groundwater is much reduced relative to many more inland sites. As such, groundwater action is not considered a significant driving mechanism for ground gases at the site. While

not detected during this investigation, a marginal tidal pumping effect may occasionally be encountered during peak tides, which could temporarily cause additional ground gas flux to occur.

As evidenced by the pattern of carbon dioxide occurrence at location 'BH D', the ground gas regime is typified by stable, localised generation of carbon dioxide caused by the microbial breakdown of the residual bitumen within unsaturated sand deposits. This behaviour is also evident at location EC-BH3, albeit the gas generation is either weaker and/or slightly further removed from the monitoring well location as evidenced by the transient cycling pattern of carbon dioxide accumulation and associated oxygen depletion.

The above pattern of ground gas generation and occurrence is localised to those monitoring locations nearest the landward end of the site, closest to the former bitumen storage tanks. Those monitoring locations (EC-BH15 – 17) at the western, that is, the seaward end of the site display a general absence of such ground gas concentrations.

This distinct pattern in ground gas detections, coupled with the pattern of results observed in those locations when methane and carbon dioxide is elevated strongly points to the residual hydrocarbon contamination being the principal driver of ground gas hazard at the site. Conversely, it can be concluded that the made ground deposits at the site pose a relatively low risk to the future development.

There is no evidence of significant offsite gas generation migrating towards the site. As such, it can be concluded that the offsite sources preliminarily identified as potentially affecting the site can be judged to have negligible effect on the ground gas conditions within the site, and therefore pose no future risk to the proposed development.

7.2.3 Surface gas emissions

A detailed surface methane emission survey was undertaken on 14th June 2023. The maximum methane concentration encountered was 5ppm, with the significant majority of measurements at or below the ambient atmospheric concentration of methane. The surface measurements from the survey present evidence to very low level discrete surface emissions, however, there is no evidence to methane at the surface in flux box tests located near that area where the maximum measurement has been recorded (or across the wider site area. Given the low concentrations detected, and discrete spatial distribution (i.e., no emission clusters or sustained emission source), it is likely that point source surface emissions are associated with degradation of residual hydrocarbon contamination, rather than gases detected at depth. The superficial geology at the site is unlikely to provide an adequate barrier to vertical migration at the site, as such additional engineered protection measures are likely to be required.

7.2.4 Trace gases

While significant trace gas concentrations have not been detected during this investigation, it is apparent that residual hydrocarbon contamination remains present at the site. The human health risks associated with hydrocarbon vapours is beyond the scope of this investigation, however there are clear overlaps between any residual vapour sources at the site, and the generation and protection against bulk ground gas hazards. As such, the eventual design of any required gas protection measures should also take account of the potential for harmful hydrocarbon volatile organic compounds.

7.2.5 Lines of evidence discussion summary

From the ground-gas monitoring completed, and the lines of evidence used, GGS Scotland consider that the gas generation potential at the site to be low to moderate. There is evidence to a significant, albeit localised gas reservoir underlying the site, with ongoing carbon dioxide generation ongoing where areas of hydrocarbon contamination remain present within unsaturated sand deposits. However, it is evident that significant onsite gas migration is very limited, likely due to the relatively high permeability of the unsaturated sand deposits present.

The worst case assessment of the evidence collected indicates that the site should be categorised as Characteristic Situation 1 (CS1), however, given the potential for carbon dioxide concentrations to be particularly elevated, it is considered that no special ground gas protection measures would be inadequately protective. As such, it is considered necessary that the worst case characteristic situation be uprated to Characteristic Situation 2 (CS2). Where membrane-based protection measures are selected, these should give consideration to the residual risk posed by volatile organic compounds in addition to the bulk gases directly measured. By contrast, surface emissions results indicate the risk at surface is very low (commensurate with CS1). In assessing a final classification for the site as a whole, it is necessary to consider the scale of the residual hazard, along with the practical differences afforded in the gas protection standards dictated by differing characteristic situations.

In considering the worst credible case, whereby an unsealed pathway is left in-situ or created directly beneath the proposed school building, the conditions for an unacceptable pollutant linkage clearly exist. Bearing this in mind, it is considered that a blanket CS1 classification (i.e. no special precautions) would be insufficiently conservative. As such, it is considered that a classification of CS2 is appropriate.

All available lines of evidence indicate a low to moderate ground gas risk, commensurate with Characteristic Situation 2. Special gas protection measures are considered necessary within the proposed school building, however, ongoing consideration to the revised conceptual site model should be made during detailed design. Incorporating a pressure relief pathway within the final gas protection design should be considered to allow any ground gas concentrations present to safely dissipate, and to prevent the observed CO₂ concentrations becoming widespread across the future building footprint.

8. Detailed ground gas risk review

A revised conceptual model for the site is presented in Table 8.1 below which considers the findings of previous reporting, potential sources and findings of the ground gas investigation and monitoring recently.

The qualitative risk classification matrix used is presented in [Appendix G](#).

Table 8.1. Revised conceptual site model

Source	Principal contaminants	Pathway	Receptor	Hazard assessment	Discussion	Mitigation action
Onsite bitumen hydrocarbon contamination	Methane	- Inhalation - vertical migration through highly permeable superficial strata - Preferential migration through service ducts / trenches / boreholes	Future onsite development infrastructure and occupants.	C = Medium P = Low likelihood R = Low to moderate risk	Localised methane generation has been observed in one location, likely due to the anaerobic decomposition of residual hydrocarbon contamination. While flammable/explosive methane concentrations have not been observed during this investigation, they have been observed previously, and may be present during periods of atmospheric worst case conditions. Pressure relief pathways should be incorporated into the final gas protection design to enable the safe dispersal of any methane generation beneath the footprint of the proposed development	Health & Safety Precautions required when entering confined spaces. Gas preclusion measures commensurate with the recommendations of this report required, along with ongoing consideration of the conceptual site model.
	Carbon dioxide	- Inhalation - vertical migration through highly permeable superficial strata - Preferential migration through service ducts / trenches / boreholes	Future onsite development infrastructure and occupants.	C = Severe P = Low likelihood R = Moderate risk	Localised carbon dioxide generation has been observed in a number of locations, likely due to the aerobic decomposition of residual hydrocarbon contamination. Significant CO₂ concentrations have been observed during this investigation, these may be worse and/or more widespread during periods of atmospheric worst case conditions. Pressure relief pathways should be incorporated into the final gas protection design to enable the safe dispersal of any methane generation beneath the footprint of the proposed development	Health & Safety Precautions required when entering confined spaces. Gas preclusion measures commensurate with the recommendations of this report required, along with ongoing consideration of the conceptual site model.
	Trace gases	- Inhalation - vertical migration through highly permeable superficial strata	Future onsite development infrastructure and occupants	C = Medium P = Low likelihood R = Low to moderate risk	While not investigated in detail, the presence of elevated hydrocarbon VOCs is likely beneath the site following redevelopment. The inclusion of gas protection measures resistant to VOC ingress over the longer term should be considered.	Health & Safety Precautions required when entering confined spaces. Gas preclusion measures commensurate with

			• Preferential migration through service ducts / trenches / boreholes			the recommendations of this report required, along with ongoing consideration of the conceptual site model.
Onsite made ground deposits	Methane Carbon dioxide Trace gases	• Inhalation • vertical migration through highly permeable superficial strata • Preferential migration through service ducts / trenches / boreholes	Future onsite development infrastructure and occupants	C = Medium P = Unlikely R = Low risk	There is no evidence of significant ground gas generation due to made ground deposits at the site. As such, the probability of such deposits given rise to ground gas generation capable of creating an unacceptable pollutant linkage is considered unlikely.	Health & Safety Precautions required when entering confined spaces. Gas preclusion measures commensurate with the recommendations of this report required, along with ongoing consideration of the conceptual site model.
Offsite former town gas works	Methane Carbon dioxide Trace gases	• Inhalation • vertical migration through highly permeable superficial strata • Preferential migration through service ducts / trenches / boreholes	Future onsite development infrastructure and occupants	C = Severe P = No pollutant linkage R = No potential risk	There is no evidence of ground gas migration from offsite sources to the site. The retention of free vertical migration pathway outwith the proposed building footprint will maintain the naturally free vertical pathways through the car parking and sports facility areas, preventing any migration beneath the proposed school building.	Gas preclusion measures commensurate with the recommendations of this report required, along with ongoing consideration of the conceptual site model.

For Envirocentre Ltd.

Ref No. GGS3244GGRA_V1

Date: 27/06/2023



Offsite – potentially infilled sandstone quarry	Methane Carbon dioxide Trace gases	- Inhalation - vertical migration through highly permeable superficial strata - Preferential migration through service ducts / trenches / boreholes	Future onsite development infrastructure and occupants	C = Severe P = No pollutant linkage R = No potential risk	There is no evidence of ground gas migration from offsite sources to the site. The retention of free vertical migration pathway outwith the proposed building footprint will maintain the naturally free vertical pathways through the car parking and sports facility areas, preventing any migration beneath the proposed school building.	Gas preclusion measures commensurate with the recommendations of this report required, along with ongoing consideration of the conceptual site model.
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9. Recommendations

Considering the refined site conceptual model, GGS Scotland would advise that the following recommendations are adopted during the proposed site development.

Following the remediation of all preferential pathways introduced from previous site investigations completed at the site, it is appropriate to classify the site as Characteristic Situation 2 (CS2) as per BS8485:2015¹⁰ in respect of conventional low-rise development built at ground level. As far as practical, pressure relief features should be incorporated into the final building design to maintain the relatively free vertical migration pathway which currently exists.

The eventual design of any development **must** seek to avoid the creation of preferential vertical and lateral pathways which could allow any hazardous ground gases present at depth, to migrate upwards into any future buildings. If the eventual design involves changes to the ground level or introduces below ground structures/services that may change the ground gas regime, then it is recommended that further assessment and advice by a competent professional, is sought. However, the following general guidance is provided:

- **Conventional near surface strip footings and raft foundations.** These are unlikely to alter the ground gas regime at the site and no further special precautions would be required. However, careful consideration should be given to the effect of any deep service trenches.
- **Cast in-situ piled foundations.** The use of cast in-situ piles with appropriately sealed pile caps are unlikely to alter the ground gas regime at the site and no further special precautions would be required.
- **Vibro-piles or similar ground-improvement techniques.** Such techniques can introduce vertical preferential pathways and must be avoided where possible.
- **Pre-cast driven piles.** These may create a small narrow annulus to the top third of their length, especially when driven in stiff clays. If an annulus is present, the use of bentonite slurry could be considered to seal this potential hazardous ground gas pathway.

- Additional venting within the granular blanket could be considered and implemented into the building design. Further assessment and advice by specialist, should be sought for any such additional gas protection measures.
- Where a gas protection membrane is proposed, a membrane which is resistant to VOCs in addition to bulk gases should be selected.
- Where service penetrations are required through the basal slab of any future buildings, these will require effective sealing with closed cell foam in addition to the design considerations outlined above. Where possible, the use of service entries at above ground level should be adopted.
- The overall development should consider any changes that may occur from earth works (including surcharging and re-profiling). Such works may alter the gas regime at the site (either positively or negatively). If there are any significant changes to the ground levels at the site, it may change the conclusion of this ground gas risk assessment. As such, additional consideration, which could include further monitoring and/or protection measures and remedial design, may be required, which should be undertaken by a suitably competent professional.
- The future design of the development, both built environment and any landscaping works, should take suitable account for the potential of low oxygen environments and the risk associated with them.
- While GGS Scotland consider the site to pose a low risk of ground gas generation and/or migration, it must be noted that the site has undergone a significant amount of prior investigation, which has included both surface, shallow and deeper excavations and borings. Where practical, and prior to the development, the location of all previous deeper boreholes should be appropriately remediated in line with relevant guidance. The introduction of a low-permeability media to prevent the occurrence of any significant vertical pathways from deeper sources of ground gas is recommended as a minimum.

10. Climate Change and Robust Remedial Design

The revised conceptual site model and recommendations detailed in this ground gas risk assessment should consider how the current gas regime may change over time. All ground gas protection and containment measures should be robust in construction and design, and integrity ensured for the lifetime of the proposed development.

The UK Climate Projections (UKCP09)¹¹ provide climate change projections, with a focus on spatial and temporal detail in a UK context. Climate projections can vary significantly and are dependent on the UK emission scenario used, the time periods under consideration and regional effects. The UKCP09 provides a summary of likely changes by the 2080s under the medium UK emissions scenario. This is considered relevant to many developments, as their current form is likely to change within the next 60 years or so.

UKCP09 predicts the following changes:

- All areas of the UK to warm, more so in summer than in winter. Changes in mean temperatures are likely to be greatest in southern England (2.2-6.8°C and least in the Scottish Islands (1.3-4.4 °C);
- The greatest changes in winter precipitation with increases of (+9 to +70%) are seen across the western side of the UK. Decreases of between (-11 to +7%) are seen over parts of the Scottish Highlands;
- Summer precipitation, down -65 to -6% are seen in south east England with changes close to zero (-8 to +10%) are seen over parts of northern England;
- Relative humidity decreases -33 to -2% in parts of southern England – by less elsewhere. Winter changes are a few percent and less elsewhere; and
- Summer cloud cover decreases -33 to -2% in parts of southern England but increase by 0 to 11% in parts of northern Scotland. Changes in cloud cover are likely to be small in winter $\pm 10\%$.

Uncertainties are still evident in the current climate projections. Factors such as solar activity and volcanic eruptions are not considered, nor are changes to the urban heat island effect.

The key changes in UK climate are likely to be the differences between summer and winter weather, with more sustained and extreme events becoming more frequent. This may

¹¹ <http://www.ecn.ac.uk/what-we-do/education/tutorials-weather-climate/climate/climate-change-in-the-uk> accessed on 11/04/2019

influence the conceptual site model and change the current understanding of potential ground gas migration pathways. For instance, extreme rainfall and flooding events are likely to become more frequent with more sustained hotter and drier periods becoming normal during summer months. As such, the current pollutant linkage model will require further consideration, with all possible climate change scenarios anticipated. Equally, environmental change over a range of temporal scales may influence the dynamics of ground gas generation potential and the key driving mechanisms identified.

In a climate change context, a qualitative and/or quantitative assessment should be considered during the remedial design stage to ensure that gas protection systems are future proof, providing sufficient protection throughout the lifetime of the development.

11. Instrument specifications

All GGS Scotland instrumentation is maintained in accordance with the manufacturer recommendations and is serviced and calibrated annually. The current calibration certificates for all equipment used on site are included in [Appendix I](#).

Note that for some instrumentation cross sensitivity to other gases and significant environmental changes, such as temperature, pressure and humidity, should be taken into consideration when considering all site monitoring data.

12. Limitations

GGs Scotland has prepared this report for the use of the Client and those parties whom a warranty agreement has been executed, or with whom an assignment has been agreed. The client's appointed engineers can rely on the data included in this report and acquired at the specific monitoring locations selected for the purposes of this project.

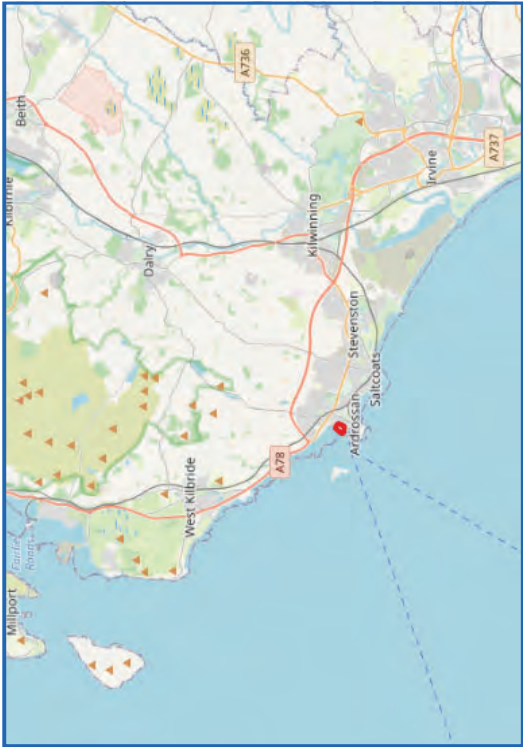
GGs Scotland accepts no responsibility for the consequences of this document being used for any purpose or project other than for which it was commissioned or for the consequences arising from this document's use by any third party with whom an agreement has not been executed.

GGs Scotland accepts no responsibility for the interpretation of this factual data. A reviewer of the data provided must consider other available information and the context in which this data was collected. For example, site setting, conceptual site model, environmental conditions, gases present (that are not monitored as part of this contract, but may interfere with the sensors used), borehole construction and response zone information.

GGs Scotland accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this factual report.

Appendix A

Site location plan & monitoring location plans



TITLE: Site Location Plan

PROJECT: Ardrrossan Academy, Ardrrossan

DRAWING REF: 3244/01

Rev.	Date	Dwn.	Description	App'd
1	23/05/23	MR/DH	DRAFT	MA

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FK3 8WW

Note:
- All locations are approximate.
- Map & satellite imagery ©OpenStreetMap;
©Bing Virtual Earth 2023



TITLE: Borehole location plan		Rev.		Date	Dwn.	Description	App'd
PROJECT: Ardrossan Academy, Ardrossan		1	08/06/23	DH	FINAL	MA	
DRAWING REF: 3244/02							
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Appendix B

Groundsure Map + Geo Insights report

For Envirocentre Ltd.

Ref No. GGS3244GGRA_V1

Date: 23/05/2023



1, MARINERS VIEW, ARDROSSAN, KA22 8BF

Order Details

Date: 26/05/2023
Your ref: GGS3244
Our Ref: GS-CHG-FWY-WAJ-V3N

Site Details

Location: 222839 642631
Area: 3.53 ha
Authority: [North Ayrshire Council](#) ↗



Summary of findings

[p. 2](#) >

Aerial image

[p. 7](#) >

OS MasterMap site plan

[p.12](#) >

groundsure.com/insightuserguide ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
13 >	1.1 >	Historical industrial land uses >	21	8	27	60	-
18 >	1.2 >	Historical tanks >	24	12	34	6	-
21 >	1.3 >	Historical energy features >	0	0	3	7	-
22 >	1.4 >	Historical petrol stations >	0	0	0	0	-
22 >	1.5 >	Historical garages >	0	0	0	8	-
23 >	1.6 >	Historical military land >	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
24 >	2.1 >	Historical industrial land uses >	27	10	40	77	-
30 >	2.2 >	Historical tanks >	29	19	46	7	-
34 >	2.3 >	Historical energy features >	0	0	6	16	-
35 >	2.4 >	Historical petrol stations >	0	0	0	0	-
35 >	2.5 >	Historical garages >	0	0	0	11	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
37 >	3.1 >	Active or recent landfill >	0	0	0	0	-
37 >	3.2 >	Historical landfill (BGS records) >	0	0	0	0	-
37 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	0	-
37 >	3.4 >	Licensed waste sites >	0	0	0	0	-
37 >	3.5 >	Historical waste sites >	0	0	0	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
38 >	4.1 >	Recent industrial land uses >	0	0	7	-	-
39 >	4.2 >	Current or recent petrol stations >	0	0	0	0	-
39 >	4.3 >	Electricity cables >	0	0	0	0	-
39 >	4.4 >	Gas pipelines >	0	0	0	0	-
40 >	4.5 >	Sites determined as Contaminated Land >	0	0	0	0	-
40 >	4.6 >	Control of Major Accident Hazards (COMAH) >	0	0	0	0	-
40 >	4.7 >	Regulated explosive sites >	0	0	0	0	-



40 >	4.8 >	Hazardous substance storage/usage >	0	0	0	0	-
40 >	4.9 >	Part A(1), IPPC and Historic IPC Authorisations >	0	0	0	0	-
41 >	4.10 >	Part B Authorisations >	0	0	1	0	-
41 >	4.11 >	Pollution inventory substances >	0	0	0	0	-
41 >	4.12 >	Pollution inventory waste transfers >	0	0	0	0	-
42 >	4.13 >	Pollution inventory radioactive waste >	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
43 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
44 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
46 >	6.1 >	Water Network (OS MasterMap) >	0	0	0	-	-
46 >	6.2 >	Surface water features >	0	0	0	-	-
Page	Section	River flooding >					
47 >	7.1 >	River flooding >	Negligible (within 50m)				
Page	Section	Coastal flooding >					
48 >	8.1 >	Coastal flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Surface water flooding >					
50 >	9.1 >	Surface water flooding >	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
51 >	10.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
52 >	11.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	13
53 >	11.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	0
53 >	11.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	0
54 >	11.4 >	Special Protection Areas (SPA) >	0	0	0	0	0
54 >	11.5 >	National Nature Reserves (NNR) >	0	0	0	0	0
54 >	11.6 >	Local Nature Reserves (LNR) >	0	0	0	0	0
54 >	11.7 >	Designated Ancient Woodland >	0	0	0	0	0
54 >	11.8 >	Biosphere Reserves >	0	0	0	0	0



55 >	11.9 >	Forest Parks >	0	0	0	0	0
55 >	11.10 >	Marine Conservation Zones >	0	0	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
56 >	12.1 >	World Heritage Sites >	0	0	0	-	-
56 >	12.2 >	Area of Outstanding Natural Beauty >	0	0	0	-	-
56 >	12.3 >	National Parks >	0	0	0	-	-
56 >	12.4 >	Listed Buildings >	0	0	0	-	-
57 >	12.5 >	Conservation Areas >	0	0	0	-	-
57 >	12.6 >	Scheduled Ancient Monuments >	0	0	0	-	-
57 >	12.7 >	Registered Parks and Gardens >	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
58 >	13.1 >	Agricultural Land Classification >	None (within 250m)				
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
59 >	14.1 >	10k Availability >	Identified (within 500m)				
60 >	14.2 >	Artificial and made ground (10k) >	1	0	0	2	-
61 >	14.3 >	Superficial geology (10k) >	1	0	1	0	-
62 >	14.4 >	Landslip (10k) >	0	0	0	0	-
63 >	14.5 >	Bedrock geology (10k) >	1	0	1	6	-
64 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
65 >	15.1 >	50k Availability >	Identified (within 500m)				
66 >	15.2 >	Artificial and made ground (50k) >	1	0	0	2	-
67 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
68 >	15.4 >	Superficial geology (50k) >	1	1	1	0	-
69 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
69 >	15.6 >	Landslip (50k) >	0	0	0	0	-
69 >	15.7 >	Landslip permeability (50k) >	None (within 50m)				
70 >	15.8 >	Bedrock geology (50k) >	1	1	2	5	-
71 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				



71 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
72 >	16.1 >	BGS Boreholes >	13	8	38	-	-
Page	Section	Natural ground subsidence >					
77 >	17.1 >	Shrink swell clays >	Negligible (within 50m)				
78 >	17.2 >	Running sands >	Moderate (within 50m)				
80 >	17.3 >	Compressible deposits >	Very low (within 50m)				
82 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
83 >	17.5 >	Landslides >	Very low (within 50m)				
84 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities >	On site	0-50m	50-250m	250-500m	500-2000m
86 >	18.1 >	Natural cavities >	0	0	0	0	-
87 >	18.2 >	BritPits >	0	0	0	1	-
87 >	18.3 >	Surface ground workings >	5	3	6	-	-
88 >	18.4 >	Underground workings >	0	0	0	0	0
88 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	0	-
88 >	18.6 >	Non-coal mining >	1	0	0	1	3
89 >	18.7 >	Mining cavities >	0	0	0	0	0
89 >	18.8 >	JPB mining areas >	None (within 0m)				
89 >	18.9 >	Coal mining >	None (within 0m)				
90 >	18.10 >	Brine areas >	None (within 0m)				
90 >	18.11 >	Gypsum areas >	None (within 0m)				
90 >	18.12 >	Tin mining >	None (within 0m)				
90 >	18.13 >	Clay mining >	None (within 0m)				
Page	Section	Radon >					
91 >	19.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
93 >	20.1 >	BGS Estimated Background Soil Chemistry >	2	1	-	-	-
93 >	20.2 >	BGS Estimated Urban Soil Chemistry >	0	0	-	-	-



93 >	20.3 >	BGS Measured Urban Soil Chemistry >	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
94 >	21.1 >	Underground railways (London) >	0	0	0	-	-
94 >	21.2 >	Underground railways (Non-London) >	0	0	0	-	-
95 >	21.3 >	Railway tunnels >	0	0	0	-	-
95 >	21.4 >	Historical railway and tunnel features >	8	3	20	-	-
96 >	21.5 >	Royal Mail tunnels >	0	0	0	-	-
96 >	21.6 >	Historical railways >	0	0	1	-	-
97 >	21.7 >	Railways >	0	0	0	-	-
97 >	21.8 >	Crossrail 1 >	0	0	0	0	-
97 >	21.9 >	Crossrail 2 >	0	0	0	0	-
97 >	21.10 >	HS2 >	0	0	0	0	-

Recent aerial photograph



Capture Date: 02/04/2021

Site Area: 3.53ha



Recent site history - 2018 aerial photograph



Capture Date: 05/07/2018

Site Area: 3.53ha



Recent site history - 2004 aerial photograph



Capture Date: 01/05/2004

Site Area: 3.53ha



Recent site history - 2002 aerial photograph



Capture Date: 24/09/2002

Site Area: 3.53ha



Recent site history - 2000 aerial photograph



Capture Date: 12/05/2000

Site Area: 3.53ha



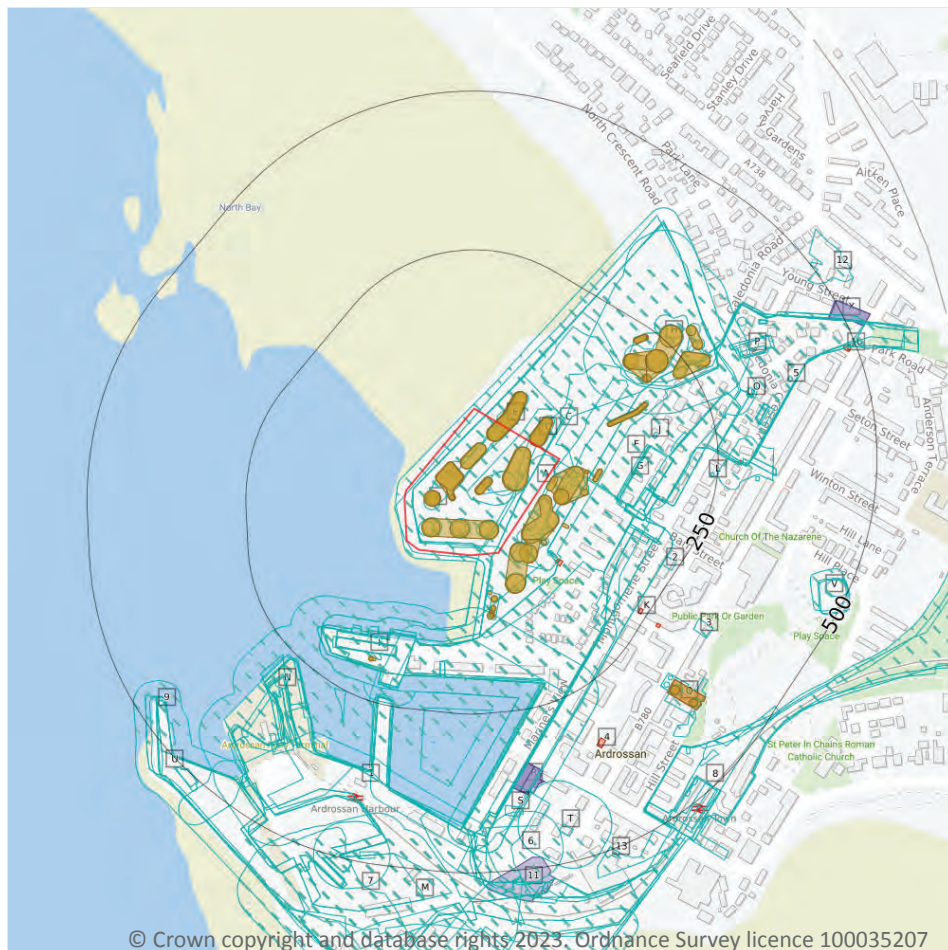
OS MasterMap site plan



Site Area: 3.53ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m

116

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 13 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Commercial/Industrial	1954	84040



ID	Location	Land use	Dates present	Group ID
A	On site	Dock	1970	126313
A	On site	Railway Sidings	1954	127774
A	On site	Dock	1980	146829
A	On site	Railway Sidings	1970	152004
A	On site	Railway Sidings	1980	161974
A	On site	Dock	1895	186250
B	On site	Unspecified Tank	1954	102179
B	On site	Unspecified Tank	1954	102180
B	On site	Unspecified Tank	1970 - 1980	127238
B	On site	Unspecified Tank	1970 - 1980	131735
B	On site	Unspecified Tank	1954	147892
B	On site	Unspecified Ground Workings	1980	148821
B	On site	Unspecified Tanks	1954	153851
B	On site	Unspecified Tank	1954	171518
B	On site	Unspecified Tank	1954	179796
B	On site	Unspecified Tank	1970 - 1980	183385
B	On site	Unspecified Tanks	1970 - 1980	187959
B	On site	Unspecified Tanks	1970 - 1980	188120
C	On site	Unspecified Works	1970	126288
C	On site	Unspecified Works	1980	142721
C	3m E	Old Clay Pit	1895	81665
A	6m E	Unspecified Tanks	1954	139535
A	6m E	Unspecified Tanks	1970 - 1980	171487
A	13m SE	Unspecified Tank	1980	102177
F	17m NE	Railway Sidings	1909	155580
A	32m E	Dock	1909 - 1938	185054
A	39m SE	Unspecified Tank	1980	102176
A	46m SE	Unspecified Tank	1980	102178



ID	Location	Land use	Dates present	Group ID
F	55m E	Railway Sidings	1895	130962
F	55m E	Railway Sidings	1938	173587
A	57m S	Unspecified Tanks	1970 - 1980	131206
A	66m SE	Chimney	1970	111913
1	82m S	Docks	1954	187969
C	94m NE	Unspecified Tanks	1970 - 1980	159425
G	108m E	Railway Building	1954	97409
G	110m E	Railway Station	1895 - 1938	175788
G	113m E	Disused Railway Station	1980	92408
H	121m NE	Unspecified Works	1954	138774
I	130m SW	Dock	1980	172099
I	135m SW	Dock	1970	129169
F	148m E	Fire Station	1954	82017
J	151m E	Railway Building	1909 - 1938	123092
I	155m SW	Railway Station	1970	129307
I	156m SW	Terminus Station	1954	135396
I	156m SW	Railway Station	1895	139674
I	156m SW	Terminus Station	1909 - 1938	176235
J	176m E	Railway Buildings	1909 - 1938	164972
H	178m NE	Unspecified Tanks	1970 - 1980	153238
H	186m NE	Unspecified Tanks	1954	168426
2	225m E	Fire Station	1970 - 1980	126274
H	225m NE	Unspecified Tanks	1970 - 1980	161344
L	238m E	Smithy	1856	116801
M	239m SW	Dock	1895	151804
M	239m SW	Railway Sidings	1895 - 1938	152113
M	239m SW	Dock	1909 - 1938	154145
L	251m E	Sandstone Quarry	1856	113083



ID	Location	Land use	Dates present	Group ID
M	265m SW	Railway Sidings	1856	119648
M	265m SW	Docks	1856	136772
N	281m SW	Terminus Station	1954	174278
N	282m SW	Railway Station	1895	141616
N	282m SW	Terminus Station	1909 - 1938	158395
N	286m SW	Railway Station	1970	149360
N	298m SW	Railway Station	1980	170507
L	311m E	Engine House	1856	104614
O	311m E	Railway Building	1954	119194
O	315m E	Railway Building	1954 - 1970	167666
O	315m E	Railway Building	1909 - 1938	177526
O	317m E	Railway Building	1909 - 1938	181443
O	319m E	Railway Building	1895	121641
P	321m NE	Railway Buildings	1909 - 1938	184722
P	321m NE	Railway Building	1954	97416
3	322m SE	School of Industry	1856	92890
P	325m NE	Railway Building	1895	97417
Q	328m SE	Gas Works	1856 - 1895	140191
P	328m NE	Railway Building	1954	97410
M	328m SW	Dock	1970	165457
Q	331m SE	Gasometer	1856	91014
P	332m NE	Engine Shed	1895	96964
Q	332m SE	Gasometer	1856	91015
Q	346m SE	Gasometer	1895	91013
P	353m NE	Unspecified Tank	1980	102182
M	353m SW	Unspecified Works	1970 - 1980	170402
S	357m S	Ship Yard	1856	82012
T	369m S	Police Station	1909 - 1938	145403



ID	Location	Land use	Dates present	Group ID
P	379m NE	Railway Building	1909 - 1938	186360
P	380m NE	Railway Building	1954	187583
5	381m E	Railway Building	1909 - 1954	125875
Q	384m SE	Gasometer	1895	91012
Q	392m SE	Unspecified Heaps	1856	107865
S	397m S	Sawmill	1856	89778
6	409m S	Police Station	1954	119439
7	419m S	Unspecified Depot	1954	177879
8	420m SE	Railway Sidings	1895 - 1938	151238
Q	426m SE	Railway Building	1909 - 1938	169610
U	430m SW	Dock	1970	135920
V	437m E	Old Burial Ground	1856	131725
M	438m S	Water Engine	1856	96903
T	439m S	Police Station	1970	150552
W	444m SE	Railway Sidings	1856	136934
V	451m E	Old Burial Ground	1954	161965
V	455m E	Old Burial Ground	1909 - 1938	181311
Q	457m SE	Railway Buildings	1856	109975
W	458m SE	Railway Station	1954	170350
9	459m SW	Unspecified Tank	1980	102175
W	459m SE	Railway Station	1895 - 1938	145848
V	464m E	Unspecified Heap	1895	79800
W	466m SE	Engine House	1856	104600
M	479m S	Ship Yard	1856	82011
M	480m S	Vehicular Ferry Terminal	1980	88348
12	482m NE	Old Sandstone Quarry	1856	91894
W	487m SE	Railway Station	1970	143176
W	494m SE	Railway Station	1856	181415



ID	Location	Land use	Dates present	Group ID
13	495m S	Railway Building	1856	97406
U	497m SW	Railway Building	1954	97408
U	498m SW	Railway Station	1980	101026

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

76

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 13 >](#)

ID	Location	Land use	Dates present	Group ID
B	On site	Unspecified Tank	1963	9258
B	On site	Tanks	1963	14454
B	On site	Unspecified Tank	1963	16587
B	On site	Tanks	1964	16592
B	On site	Tanks	1964	19095
B	On site	Tanks	1963 - 1989	19663
B	On site	Tanks	1964 - 1989	19716
B	On site	Tanks	1964	21128
B	On site	Unspecified Tank	1964 - 1989	21842
B	On site	Unspecified Tank	1964 - 1989	22765
B	On site	Tanks	1963	23270
B	On site	Tanks	1989	24234
B	On site	Unspecified Tank	1964	24279
B	On site	Tanks	1963	24655
B	On site	Tanks	1963	24952



ID	Location	Land use	Dates present	Group ID
B	On site	Tanks	1989	26213
B	On site	Unspecified Tank	1964 - 1989	26825
B	On site	Unspecified Tank	1989	27117
D	On site	Tanks	1963	19918
D	On site	Tanks	1989	24690
D	On site	Tanks	1964	25453
E	On site	Tanks	1989	21630
E	On site	Tanks	1964	25487
E	On site	Tanks	1963	25661
A	6m E	Tanks	1964	26123
A	7m E	Tanks	1963	26331
A	7m E	Tanks	1964	20509
A	8m E	Tanks	1963	26702
A	13m SE	Tanks	1981	17612
A	14m SE	Unspecified Tank	1964 - 1986	26142
A	20m E	Tanks	1963	23493
A	23m E	Unspecified Tank	1989	9261
A	23m SE	Unspecified Tank	1964	9255
A	41m SE	Unspecified Tank	1986	9254
A	44m E	Unspecified Tank	1963 - 1989	23624
A	47m SE	Unspecified Tank	1963 - 1986	22658
A	56m E	Unspecified Tank	1963 - 1989	24171
A	59m S	Unspecified Tank	1963 - 1964	22582
A	60m E	Tanks	1963 - 1964	17298
A	61m E	Tanks	1963 - 1989	22433
A	62m E	Tanks	1964	19729
A	67m S	Unspecified Tank	1964 - 1986	21444
A	67m S	Unspecified Tank	1963	21382



ID	Location	Land use	Dates present	Group ID
A	82m S	Tanks	1964	14455
A	82m S	Unspecified Tank	1963	9253
A	92m S	Unspecified Tank	1981 - 1986	27303
C	92m NE	Tanks	1989	25886
C	93m NE	Tanks	1964	25054
C	93m NE	Tanks	1963	20544
A	94m S	Unspecified Tank	1963	19564
H	178m NE	Unspecified Tank	1989	9260
H	179m NE	Tanks	1964	16935
H	180m NE	Tanks	1963	26165
H	180m NE	Unspecified Tank	1989	17178
H	181m NE	Unspecified Tank	1963	19420
H	183m NE	Unspecified Tank	1985	17534
H	183m NE	Tanks	1964	27089
I	184m SW	Unspecified Tank	1964	24792
I	184m SW	Unspecified Tank	1963 - 1981	25528
I	184m SW	Tanks	1986	14456
H	200m NE	Unspecified Tank	1985	9270
H	202m NE	Unspecified Tank	1989	9269
H	218m NE	Tanks	1964	20455
H	218m NE	Tanks	1989	25098
H	218m NE	Tanks	1963	21242
H	222m NE	Tanks	1963 - 1985	24067
H	222m NE	Tanks	1964	26323
H	233m NE	Unspecified Tank	1985	16806
H	233m NE	Unspecified Tank	1964	18346
H	243m NE	Unspecified Tank	1964 - 1985	18321
H	275m NE	Unspecified Tank	1985	9268



ID	Location	Land use	Dates present	Group ID
H	275m NE	Tanks	1963 - 1964	23044
H	282m NE	Unspecified Tank	1985	9267
Q	342m SE	Gas Works	1895	16187
Q	344m SE	Gasometer	1895	16062
Q	381m SE	Gasometer	1895	16061

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

10

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 13 >](#)

ID	Location	Land use	Dates present	Group ID
A	84m SE	Electricity Substation	1992	4321
A	88m SE	Electricity Substation	1986 - 1993	12627
K	236m SE	Electricity Substation	1986 - 1993	13066
K	271m SE	Electricity Substation	1981	4322
L	281m E	Electricity Substation	1985 - 1996	11382
4	333m SE	Electricity Substation	1981 - 1993	14202
Q	342m SE	Gas Works	1895	7185
Q	344m SE	Gasometer	1895	7060
Q	381m SE	Gasometer	1895	7059
10	480m E	Electricity Substation	1993 - 1996	13185

This data is sourced from Ordnance Survey / Groundsure.



1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

8

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 13](#) >

ID	Location	Land use	Dates present	Group ID
R	332m S	Garage	1964	2139
R	333m S	Garage	1986	1866
R	333m S	Garage	1963	2619
R	333m S	Garage	1993	2842
R	333m S	Garage	1981 - 1992	4330
X	476m NE	Garage	1964 - 1985	4287
X	478m NE	Garage	1963	2433
11	482m S	Garage	1964 - 1968	4245

This data is sourced from Ordnance Survey / Groundsure.



1.6 Historical military land

Records within 500m

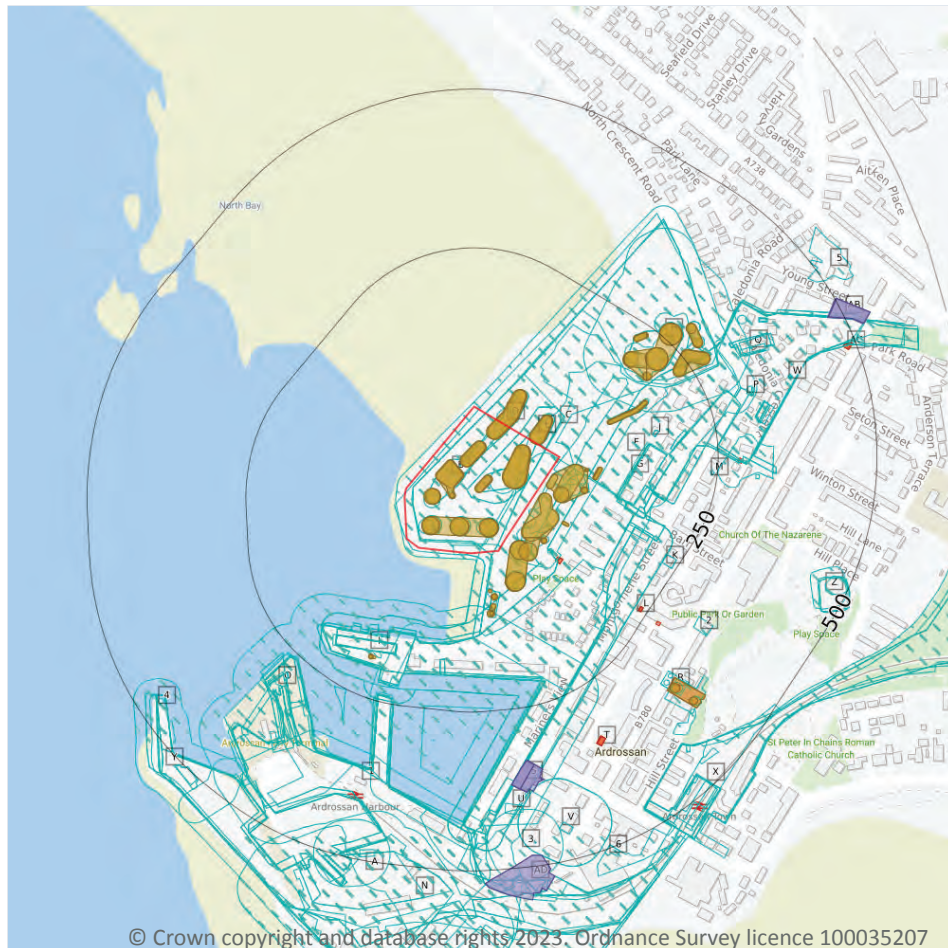
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

2.1 Historical industrial land uses

Records within 500m

154

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 24](#) >

ID	Location	Land Use	Date	Group ID
A	On site	Railway Sidings	1970	152004
A	On site	Railway Sidings	1980	161974
A	On site	Railway Sidings	1954	127774



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Commercial/Industrial	1954	84040
A	On site	Dock	1980	146829
A	On site	Dock	1895	186250
A	On site	Dock	1970	126313
B	On site	Unspecified Tanks	1970	188120
B	On site	Unspecified Tanks	1970	187959
B	On site	Unspecified Tank	1970	127238
B	On site	Unspecified Tank	1970	183385
B	On site	Unspecified Tank	1970	131735
B	On site	Unspecified Tanks	1980	188120
B	On site	Unspecified Tanks	1980	187959
B	On site	Unspecified Tank	1980	127238
B	On site	Unspecified Tank	1980	183385
B	On site	Unspecified Tank	1980	131735
B	On site	Unspecified Tank	1954	102179
B	On site	Unspecified Tank	1954	147892
B	On site	Unspecified Tank	1954	171518
B	On site	Unspecified Tank	1954	179796
B	On site	Unspecified Tank	1954	102180
B	On site	Unspecified Tanks	1954	153851
B	On site	Unspecified Ground Workings	1980	148821
B	On site	Unspecified Ground Workings	1980	148821
C	On site	Unspecified Works	1970	126288
C	On site	Unspecified Works	1980	142721
C	3m E	Old Clay Pit	1895	81665
A	6m E	Unspecified Tanks	1954	139535
A	6m E	Unspecified Tanks	1970	171487
A	13m SE	Unspecified Tank	1980	102177



ID	Location	Land Use	Date	Group ID
F	17m NE	Railway Sidings	1909	155580
A	23m E	Unspecified Tanks	1980	171487
A	32m E	Dock	1938	185054
A	32m E	Dock	1909	185054
A	39m SE	Unspecified Tank	1980	102176
A	46m SE	Unspecified Tank	1980	102178
F	55m E	Railway Sidings	1938	173587
F	55m E	Railway Sidings	1895	130962
A	57m S	Unspecified Tanks	1970	131206
A	62m S	Unspecified Tanks	1980	131206
A	66m SE	Chimney	1970	111913
1	82m S	Docks	1954	187969
C	94m NE	Unspecified Tanks	1970	159425
C	94m NE	Unspecified Tanks	1980	159425
G	108m E	Railway Building	1954	97409
G	110m E	Railway Station	1938	175788
G	110m E	Railway Station	1909	175788
G	110m E	Railway Station	1895	175788
G	113m E	Disused Railway Station	1980	92408
H	121m NE	Unspecified Works	1954	138774
I	130m SW	Dock	1980	172099
I	135m SW	Dock	1970	129169
F	148m E	Fire Station	1954	82017
J	151m E	Railway Building	1938	123092
J	151m E	Railway Building	1909	123092
I	155m SW	Railway Station	1970	129307
I	156m SW	Terminus Station	1954	135396
I	156m SW	Terminus Station	1938	176235



ID	Location	Land Use	Date	Group ID
I	156m SW	Terminus Station	1909	176235
I	156m SW	Railway Station	1895	139674
J	176m E	Railway Buildings	1938	164972
J	176m E	Railway Buildings	1909	164972
H	178m NE	Unspecified Tanks	1970	153238
H	178m NE	Unspecified Tanks	1980	153238
H	186m NE	Unspecified Tanks	1954	168426
K	225m E	Fire Station	1970	126274
K	225m E	Fire Station	1980	126274
H	225m NE	Unspecified Tanks	1970	161344
H	225m NE	Unspecified Tanks	1980	161344
M	238m E	Smithy	1856	116801
N	239m SW	Dock	1938	154145
N	239m SW	Dock	1909	154145
N	239m SW	Dock	1895	151804
N	239m SW	Railway Sidings	1938	152113
N	239m SW	Railway Sidings	1909	152113
N	239m SW	Railway Sidings	1895	152113
M	251m E	Sandstone Quarry	1856	113083
N	265m SW	Docks	1856	136772
N	265m SW	Railway Sidings	1856	119648
O	281m SW	Terminus Station	1954	174278
O	282m SW	Terminus Station	1938	158395
O	282m SW	Terminus Station	1909	158395
O	282m SW	Railway Station	1895	141616
O	286m SW	Railway Station	1970	149360
O	298m SW	Railway Station	1980	170507
M	311m E	Engine House	1856	104614



ID	Location	Land Use	Date	Group ID
P	311m E	Railway Building	1954	119194
P	315m E	Railway Building	1970	167666
P	315m E	Railway Building	1954	167666
P	315m E	Railway Building	1938	177526
P	315m E	Railway Building	1909	177526
P	317m E	Railway Building	1938	181443
P	317m E	Railway Building	1909	181443
P	319m E	Railway Building	1895	121641
Q	321m NE	Railway Buildings	1938	184722
Q	321m NE	Railway Buildings	1909	184722
Q	321m NE	Railway Building	1954	97416
2	322m SE	School of Industry	1856	92890
Q	325m NE	Railway Building	1895	97417
R	328m SE	Gas Works	1856	140191
Q	328m NE	Railway Building	1954	97410
N	328m SW	Dock	1970	165457
R	331m SE	Gasometer	1856	91014
Q	332m NE	Engine Shed	1895	96964
R	332m SE	Gasometer	1856	91015
R	346m SE	Gas Works	1895	140191
R	346m SE	Gasometer	1895	91013
Q	353m NE	Unspecified Tank	1980	102182
N	353m SW	Unspecified Works	1980	170402
U	357m S	Ship Yard	1856	82012
V	369m S	Police Station	1938	145403
V	369m S	Police Station	1909	145403
Q	379m NE	Railway Building	1938	186360
Q	379m NE	Railway Building	1909	186360



ID	Location	Land Use	Date	Group ID
Q	380m NE	Railway Building	1954	187583
W	381m E	Railway Building	1954	125875
W	382m E	Railway Building	1938	125875
W	382m E	Railway Building	1909	125875
R	384m SE	Gasometer	1895	91012
R	392m SE	Unspecified Heaps	1856	107865
U	397m S	Sawmill	1856	89778
3	409m S	Police Station	1954	119439
N	419m S	Unspecified Depot	1954	177879
X	420m SE	Railway Sidings	1938	151238
X	420m SE	Railway Sidings	1909	151238
X	420m SE	Railway Sidings	1895	151238
R	426m SE	Railway Building	1938	169610
R	426m SE	Railway Building	1909	169610
Y	430m SW	Dock	1970	135920
Z	437m E	Old Burial Ground	1856	131725
N	438m S	Water Engine	1856	96903
V	439m S	Police Station	1970	150552
AA	444m SE	Railway Sidings	1856	136934
Z	451m E	Old Burial Ground	1954	161965
N	453m S	Unspecified Works	1970	170402
Z	455m E	Old Burial Ground	1938	181311
Z	455m E	Old Burial Ground	1909	181311
R	457m SE	Railway Buildings	1856	109975
AA	458m SE	Railway Station	1954	170350
4	459m SW	Unspecified Tank	1980	102175
AA	459m SE	Railway Station	1938	145848
AA	459m SE	Railway Station	1909	145848



ID	Location	Land Use	Date	Group ID
AA	459m SE	Railway Station	1895	145848
Z	464m E	Unspecified Heap	1895	79800
AA	466m SE	Engine House	1856	104600
N	479m S	Ship Yard	1856	82011
N	480m S	Vehicular Ferry Terminal	1980	88348
5	482m NE	Old Sandstone Quarry	1856	91894
AA	487m SE	Railway Station	1970	143176
AA	494m SE	Railway Station	1856	181415
6	495m S	Railway Building	1856	97406
Y	497m SW	Railway Building	1954	97408
Y	498m SW	Railway Station	1980	101026

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	101
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 24 >](#)

ID	Location	Land Use	Date	Group ID
B	On site	Unspecified Tank	1964	26825
B	On site	Unspecified Tank	1964	21842
B	On site	Unspecified Tank	1964	22765
B	On site	Unspecified Tank	1964	24279
B	On site	Tanks	1964	19095
B	On site	Tanks	1964	21128
B	On site	Tanks	1964	19716
B	On site	Tanks	1964	16592
B	On site	Tanks	1963	14454



ID	Location	Land Use	Date	Group ID
B	On site	Unspecified Tank	1963	16587
B	On site	Tanks	1963	23270
B	On site	Unspecified Tank	1963	9258
B	On site	Tanks	1963	24655
B	On site	Tanks	1963	24952
B	On site	Tanks	1963	19663
B	On site	Unspecified Tank	1989	26825
B	On site	Unspecified Tank	1989	21842
B	On site	Unspecified Tank	1989	22765
B	On site	Tanks	1989	24234
B	On site	Tanks	1989	19716
B	On site	Tanks	1989	19663
B	On site	Tanks	1989	26213
B	On site	Unspecified Tank	1989	27117
D	On site	Tanks	1964	25487
D	On site	Tanks	1963	25661
D	On site	Tanks	1989	21630
E	On site	Tanks	1964	25453
E	On site	Tanks	1963	19918
E	On site	Tanks	1989	24690
A	6m E	Tanks	1964	26123
A	7m E	Tanks	1963	26331
A	7m E	Tanks	1964	20509
A	8m E	Tanks	1963	26702
A	13m SE	Tanks	1981	17612
A	13m SE	Tanks	1981	17612
A	14m SE	Unspecified Tank	1986	26142
A	20m E	Tanks	1963	23493



ID	Location	Land Use	Date	Group ID
A	23m E	Unspecified Tank	1989	9261
A	23m SE	Unspecified Tank	1964	9255
A	26m SE	Unspecified Tank	1964	26142
A	41m SE	Unspecified Tank	1986	9254
A	44m E	Unspecified Tank	1989	23624
A	46m E	Unspecified Tank	1963	23624
A	47m SE	Unspecified Tank	1981	22658
A	47m SE	Unspecified Tank	1981	22658
A	48m SE	Unspecified Tank	1986	22658
A	48m SE	Unspecified Tank	1964	22658
A	49m SE	Unspecified Tank	1963	22658
A	56m E	Unspecified Tank	1989	24171
A	57m E	Unspecified Tank	1963	24171
A	59m S	Unspecified Tank	1964	22582
A	59m S	Unspecified Tank	1963	22582
A	60m E	Tanks	1964	17298
A	61m E	Tanks	1963	17298
A	61m E	Tanks	1989	22433
A	62m E	Tanks	1964	19729
A	63m E	Tanks	1963	22433
A	67m S	Unspecified Tank	1986	21444
A	67m S	Unspecified Tank	1963	21382
A	67m S	Unspecified Tank	1981	21444
A	67m S	Unspecified Tank	1964	21444
A	82m S	Tanks	1964	14455
A	82m S	Unspecified Tank	1963	9253
A	92m S	Unspecified Tank	1986	27303
A	92m S	Unspecified Tank	1981	27303



ID	Location	Land Use	Date	Group ID
A	92m S	Unspecified Tank	1981	27303
C	92m NE	Tanks	1989	25886
C	93m NE	Tanks	1964	25054
C	93m NE	Tanks	1963	20544
A	94m S	Unspecified Tank	1963	19564
H	178m NE	Unspecified Tank	1989	9260
H	179m NE	Tanks	1964	16935
H	180m NE	Tanks	1963	26165
H	180m NE	Unspecified Tank	1989	17178
H	181m NE	Unspecified Tank	1963	19420
H	183m NE	Unspecified Tank	1985	17534
H	183m NE	Tanks	1964	27089
I	184m SW	Unspecified Tank	1964	24792
I	184m SW	Unspecified Tank	1981	25528
I	184m SW	Unspecified Tank	1981	25528
I	184m SW	Tanks	1986	14456
I	184m SW	Unspecified Tank	1963	25528
H	200m NE	Unspecified Tank	1985	9270
H	202m NE	Unspecified Tank	1989	9269
H	218m NE	Tanks	1964	20455
H	218m NE	Tanks	1989	25098
H	218m NE	Tanks	1963	21242
H	222m NE	Tanks	1985	24067
H	222m NE	Tanks	1964	26323
H	223m NE	Tanks	1963	24067
H	233m NE	Unspecified Tank	1985	16806
H	233m NE	Unspecified Tank	1964	18346
H	243m NE	Unspecified Tank	1985	18321



ID	Location	Land Use	Date	Group ID
H	244m NE	Unspecified Tank	1964	18321
H	275m NE	Unspecified Tank	1985	9268
H	275m NE	Tanks	1964	23044
H	276m NE	Tanks	1963	23044
H	282m NE	Unspecified Tank	1985	9267
R	342m SE	Gas Works	1895	16187
R	344m SE	Gasometer	1895	16062
R	381m SE	Gasometer	1895	16061

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

22

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 24 >](#)

ID	Location	Land Use	Date	Group ID
A	84m SE	Electricity Substation	1992	4321
A	88m SE	Electricity Substation	1993	12627
A	88m SE	Electricity Substation	1986	12627
L	236m SE	Electricity Substation	1992	13066
L	237m SE	Electricity Substation	1986	13066
L	237m SE	Electricity Substation	1993	13066
L	271m SE	Electricity Substation	1981	4322
M	281m E	Electricity Substation	1985	11382
M	281m E	Electricity Substation	1993	11382
M	282m E	Electricity Substation	1994	11382
M	282m E	Electricity Substation	1996	11382
T	333m SE	Electricity Substation	1981	14202



ID	Location	Land Use	Date	Group ID
T	333m SE	Electricity Substation	1981	14202
T	333m SE	Electricity Substation	1992	14202
T	334m SE	Electricity Substation	1993	14202
T	334m SE	Electricity Substation	1986	14202
R	342m SE	Gas Works	1895	7185
R	344m SE	Gasometer	1895	7060
R	381m SE	Gasometer	1895	7059
AC	480m E	Electricity Substation	1994	13185
AC	480m E	Electricity Substation	1996	13185
AC	480m E	Electricity Substation	1993	13185

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	11
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 24 >](#)

ID	Location	Land Use	Date	Group ID
S	332m S	Garage	1964	2139
S	333m S	Garage	1986	1866
S	333m S	Garage	1963	2619



ID	Location	Land Use	Date	Group ID
S	333m S	Garage	1993	2842
S	333m S	Garage	1981	4330
S	333m S	Garage	1992	4330
AB	476m NE	Garage	1985	4287
AB	477m NE	Garage	1964	4287
AB	478m NE	Garage	1963	2433
AD	482m S	Garage	1968	4245
AD	482m S	Garage	1964	4245

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Scottish Environment Protection (SEPA) regulation.

This data is sourced from the Scottish Environment Protection Agency.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Licensed waste sites

Records within 500m

0

Active or recently closed waste sites under Scottish Environment Protection Agency (SEPA) regulation.

This data is sourced from the Scottish Environment Protection Agency.

3.5 Historical waste sites

Records within 500m

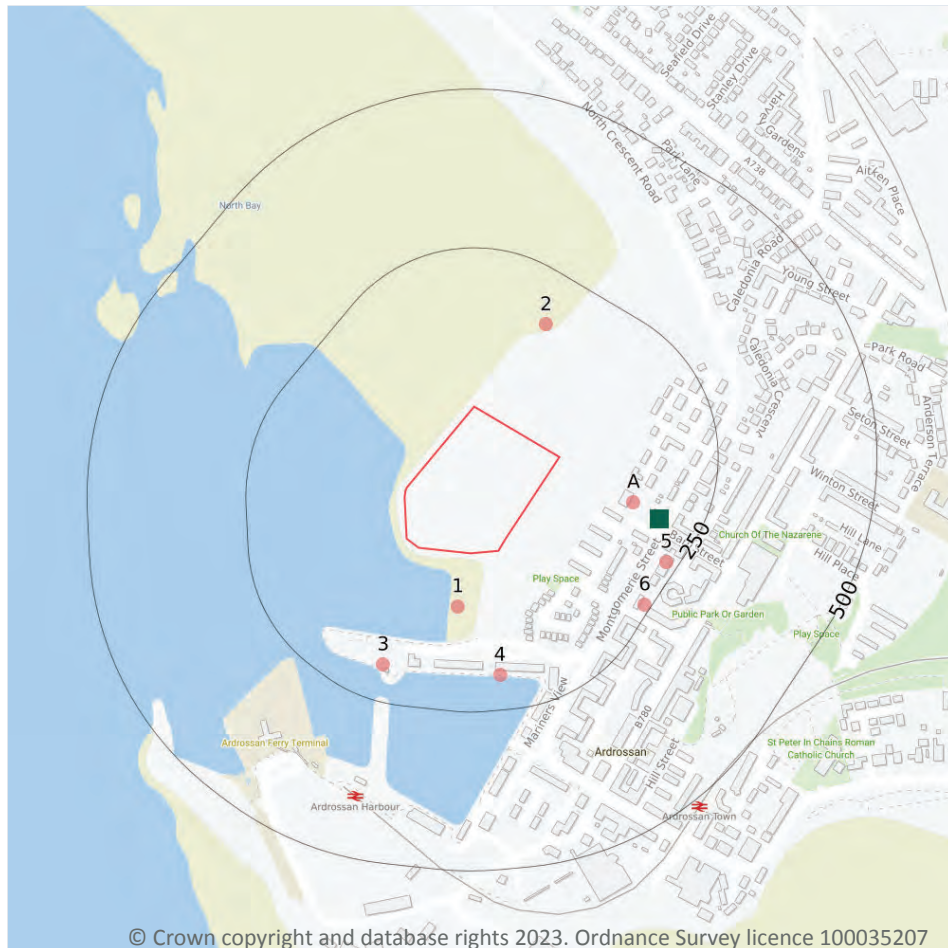
0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Part B Authorisations

4.1 Recent industrial land uses

Records within 250m

7

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 38](#) >

ID	Location	Company	Address	Activity	Category
1	85m S	Outfall	Ayrshire and Arran, KA22	Waste Storage, Processing and Disposal	Infrastructure and Facilities
A	137m E	Bus Depot	Ayrshire and Arran, KA22	Bus and Coach Stations, Depots and Companies	Public Transport, Stations and Infrastructure



ID	Location	Company	Address	Activity	Category
2	169m NE	Outfall	Ayrshire and Arran, KA22	Waste Storage, Processing and Disposal	Infrastructure and Facilities
3	192m SW	Harbour Masters Office	Ayrshire and Arran, KA22	Moorings and Unloading Facilities	Water
4	195m S	Travelling Crane	Ayrshire and Arran, KA22	Travelling Cranes and Gantries	Industrial Features
5	231m E	Ardrossan Fire Station	Montgomery St, -, Ayrshire, Ayrshire and Arran, KA22 8HW	Fire Brigade Stations	Central and Local Government
6	240m SE	Electricity Sub Station	Ayrshire and Arran, KA22	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m**0**

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m**0**

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m**0**

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Part A(1), IPPC and Historic IPC Authorisations

Records within 500m**0**

Records of Part A installations regulated for the release of substances to the environment.

This data is sourced from the Scottish Environment Protection Agency.



4.10 Part B Authorisations

Records within 500m

1

Records of Part B installations regulated for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 38](#) >

ID	Location	Address	Operator	Processes undertaken	License reference
A	185m E	106 Boglemart Street, Stevenston, Ka20 3jl	Clyde Coast Coaches Ltd, 55 Montgomerie Street, Ardrossan, KA22 8HR Transferred from ATM Motors Ltd	Unloading Of Petrol At A Service Station	PPC/W/3 0109

This data is sourced from the Scottish Environment Protection Agency.

4.11 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.12 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



4.13 Pollution inventory radioactive waste

Records within 500m

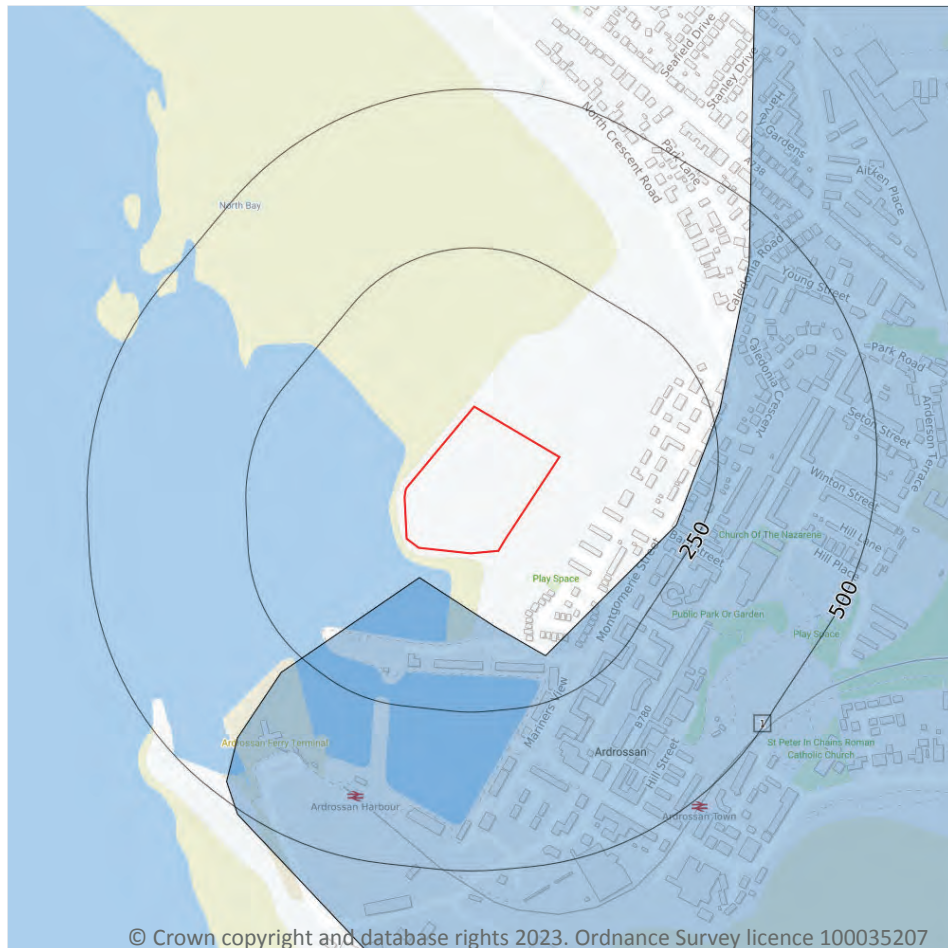
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Limited or local potential
- Locally important - intergranular

5.1 Superficial aquifer

Records within 500m

1

Records of groundwater classification within superficial geology.

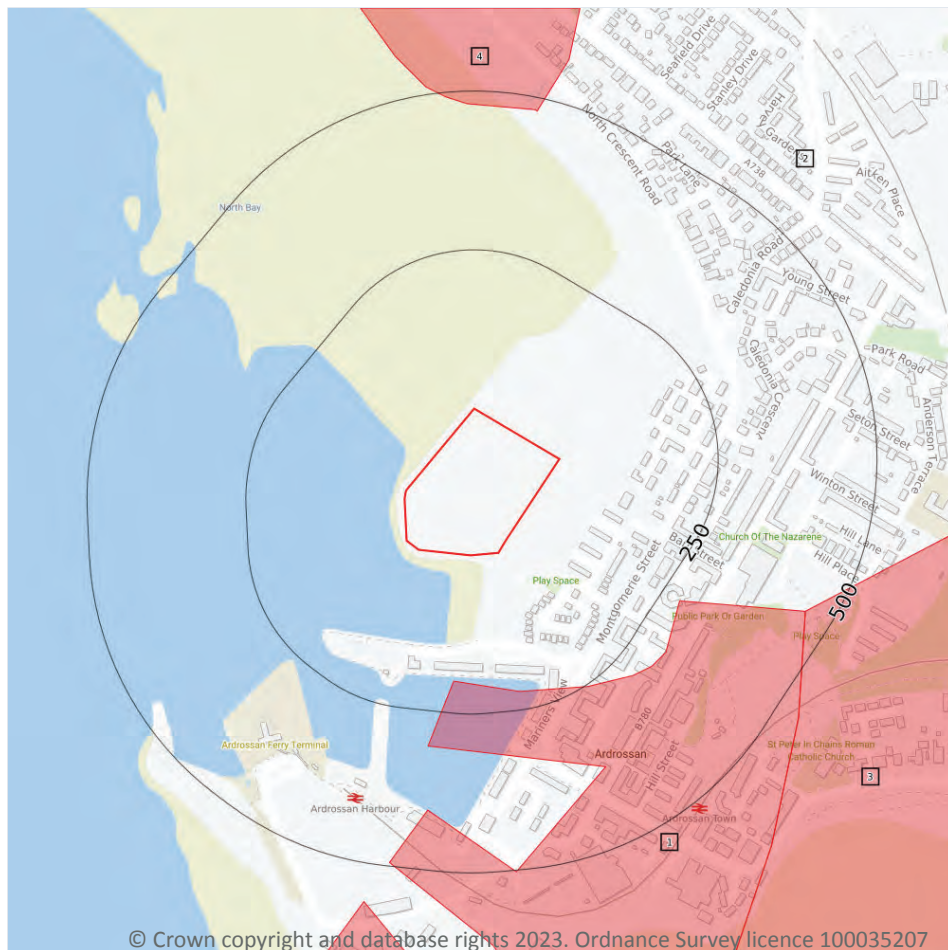
Features are displayed on the Hydrogeology map on [page 43](#) >

ID	Location	Description	Type	Rock description
1	47m SW	Concealed aquifers, aquifers of limited potential, regions without significant groundwater	Concealed aquifers; aquifers with limited or local potential	Quaternary Coastal and Fluvial Alluvium

This data is sourced from the British Geological Survey.



Bedrock aquifer



- Site Outline**
- Search buffers in metres (m)**
- Highly productive - fissures/discontinuities
 - Highly productive - intergranular
 - Moderately productive - fissures/discontinuities
 - Moderately productive - intergranular
 - Low productive - fissures/discontinuities
 - Low productive - intergranular
 - No significant groundwater

5.2 Bedrock aquifer

Records within 500m

4

Records of groundwater classification within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 44](#) >

ID	Location	Description	Flow	Summary	Rock description
1	200m S	Moderately productive aquifer	Flow is virtually all through fractures and other discontinuities	Multi-layered aquifer with fracture flow yielding up to 10 L/s.	INVERCLYDE GROUP



ID	Location	Description	Flow	Summary	Rock description
2	241m E	Moderately productive aquifer	Significant intergranular flow	Sandstone, partly pebbly with subordinate siltstone and mudstone produce moderate amounts of groundwater.	STRATHEDE N GROUP
3	455m E	Moderately productive aquifer	Flow is virtually all through fractures and other discontinuities	Multi-layered aquifer with low yields except where disturbed by mining. Passage Group has moderate yields up to 10 L/s.	CLACKMAN NAN GROUP
4	477m N	Moderately productive aquifer	Flow is virtually all through fractures and other discontinuities	Multi-layered aquifer with fracture flow yielding up to 10 L/s.	INVERCLYD E GROUP

This data is sourced from the British Geological Survey.



6 Hydrology

6.1 Water Network (OS MasterMap)

Records within 250m

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

This data is sourced from the Ordnance Survey.



7 River flooding

7.1 River flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

This is an assessment of flood risk for rivers in Scotland produced using modelled data, provided by Ambiental Risk Analytics. It also takes account of flood defence information provided by the Scottish Environment Protection Agency (SEPA). It shows the chance of flooding from rivers presented in the following categories:

- 1 in 30 year (3.33%)
- 1 in 100 year (1%)
- 1 in 250 year (0.4%)
- and 1 in 1,000 year (0.1%)

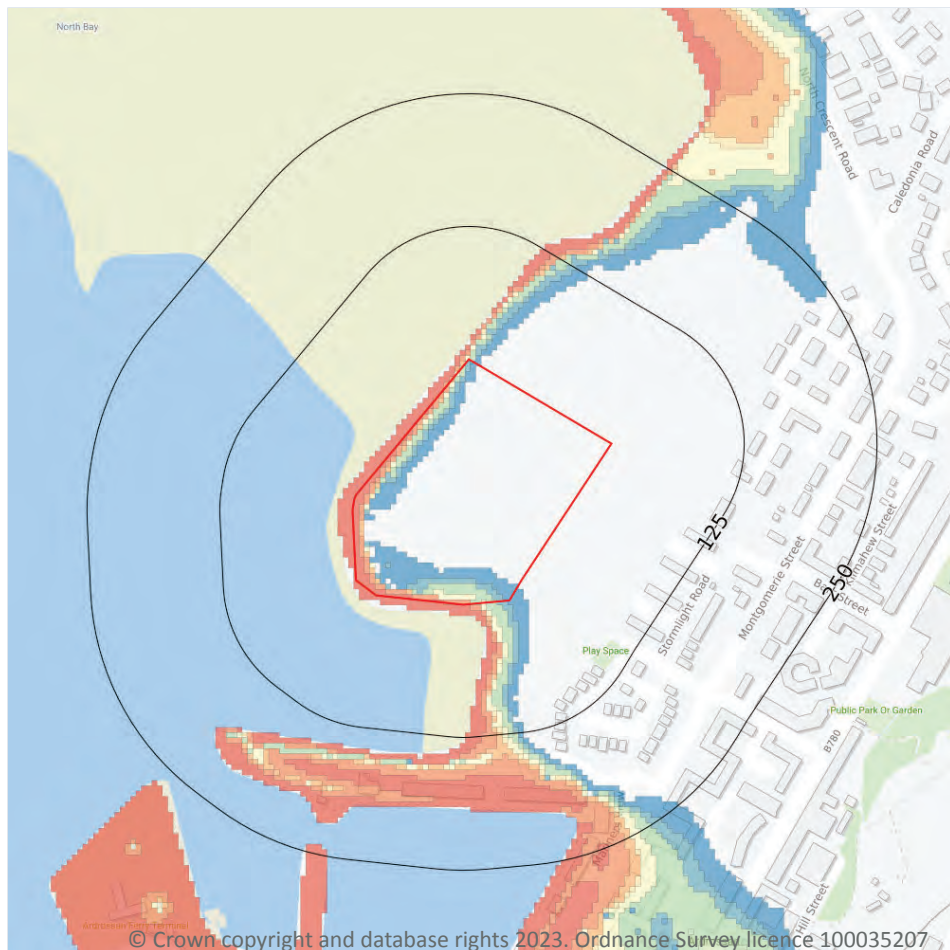
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



8 Coastal flooding - Coastal flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Coastal flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

This is an assessment of coastal flood risk in Scotland produced using modelled data, provided by Ambiantal Risk Analytics. It also takes account of flood defence information provided by the Scottish Environment Protection Agency (SEPA). It shows the chance of coastal flooding presented in the following categories:

- 1 in 30 year (3.33%)
- 1 in 100 year (1%)
- 1 in 250 year (0.4%)



- and 1 in 1,000 year (0.1%)

The data shown on the map shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Features are displayed on the Coastal flooding map on [page 48 >](#)

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Surface water flooding

9.1 Surface water flooding

Highest risk on site**Negligible****Highest risk within 50m****Negligible**

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

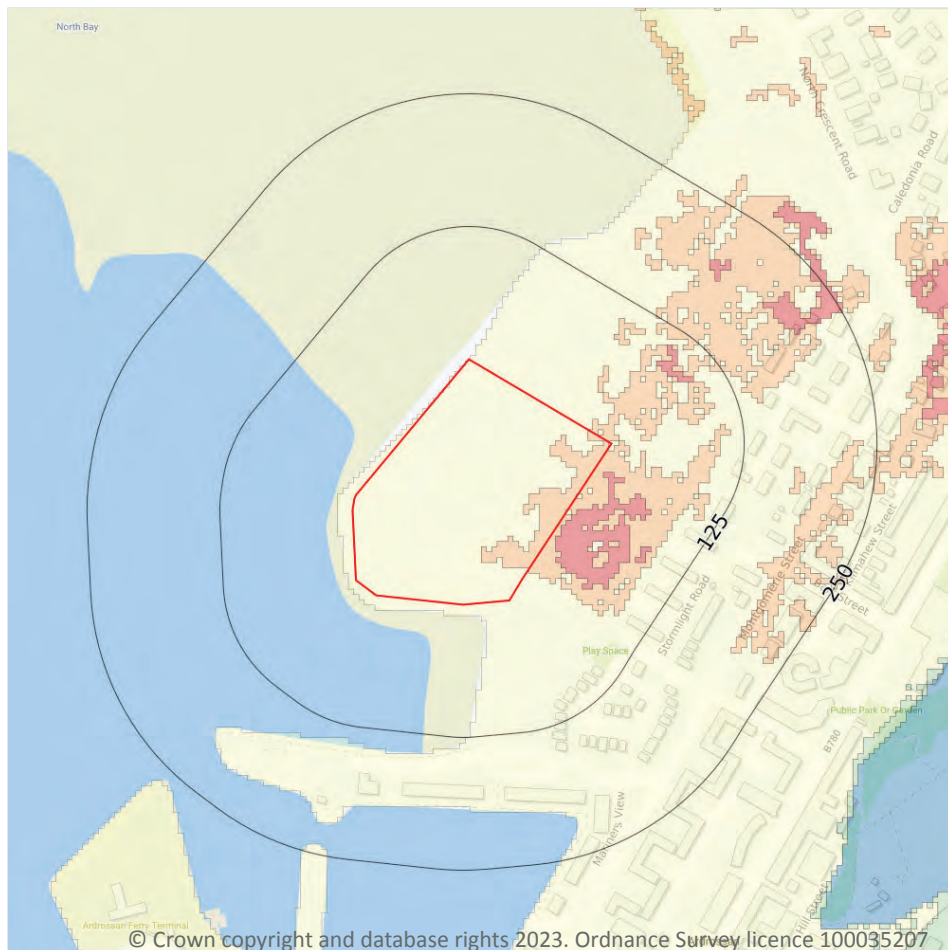
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



10 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

10.1 Groundwater flooding

Highest risk on site

Moderate-High

Highest risk within 50m

High

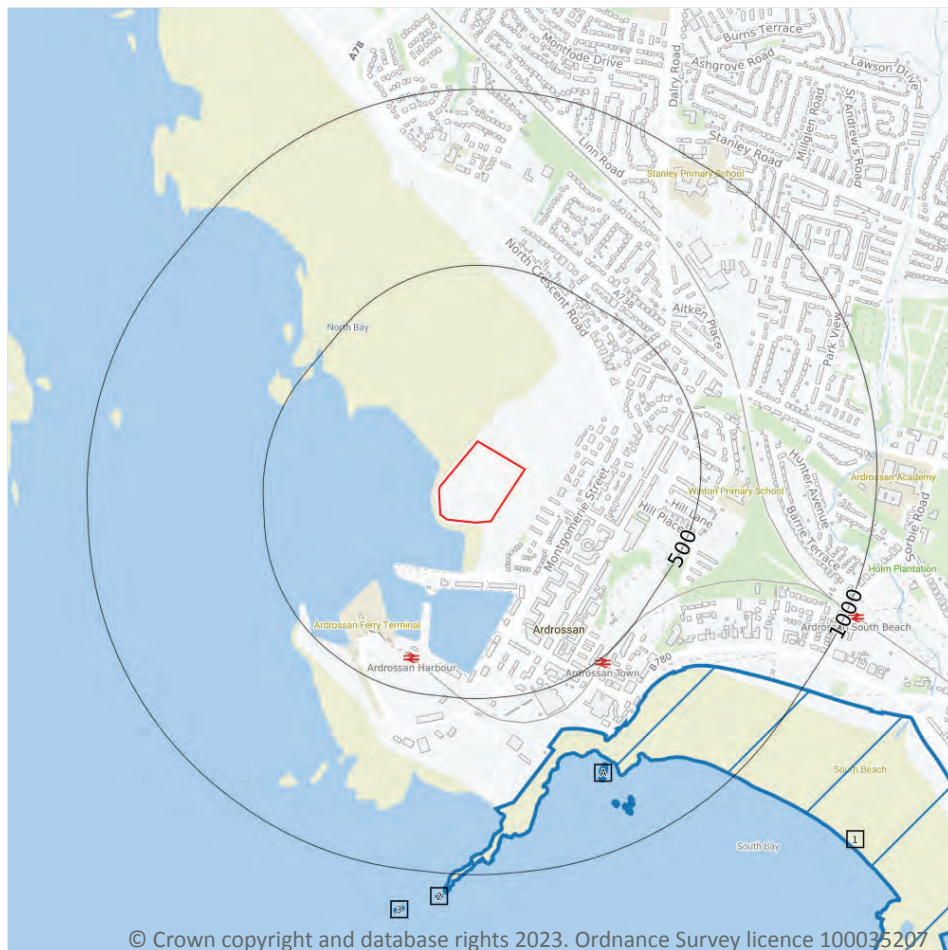
Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on [page 51](#) >

This data is sourced from Ambiantal Risk Analytics.



11 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)

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11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

13

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on [page 52 >](#)

ID	Location	Name	Data source
1	625m S	Ardrossan to Saltcoats Coast	Scottish Natural Heritage



ID	Location	Name	Data source
A	761m SE	Ardrossan to Saltcoats Coast	Scottish Natural Heritage
A	869m SE	Ardrossan to Saltcoats Coast	Scottish Natural Heritage
A	876m SE	Ardrossan to Saltcoats Coast	Scottish Natural Heritage
A	889m SE	Ardrossan to Saltcoats Coast	Scottish Natural Heritage
2	1063m S	Ardrossan to Saltcoats Coast	Scottish Natural Heritage
3	1109m S	Ardrossan to Saltcoats Coast	Scottish Natural Heritage
-	1644m SE	Ardrossan to Saltcoats Coast	Scottish Natural Heritage
-	1805m SE	Ardrossan to Saltcoats Coast	Scottish Natural Heritage
-	1852m SE	Ardrossan to Saltcoats Coast	Scottish Natural Heritage
-	1965m SE	Ardrossan to Saltcoats Coast	Scottish Natural Heritage
-	1975m SE	Ardrossan to Saltcoats Coast	Scottish Natural Heritage
-	1996m SE	Ardrossan to Saltcoats Coast	Scottish Natural Heritage

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 Special Areas of Conservation (SAC)

Records within 2000m

0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



11.4 Special Protection Areas (SPA)

Records within 2000m**0**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.5 National Nature Reserves (NNR)

Records within 2000m**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.6 Local Nature Reserves (LNR)

Records within 2000m**0**

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.7 Designated Ancient Woodland

Records within 2000m**0**

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.8 Biosphere Reserves

Records within 2000m**0**

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.



This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

11.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



12 Visual and cultural designations

12.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

12.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

12.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12.7 Registered Parks and Gardens

Records within 250m

0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



13 Agricultural designations

13.1 Agricultural Land Classification

Records within 250m

0

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

This data is sourced from the James Hutton Institute.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

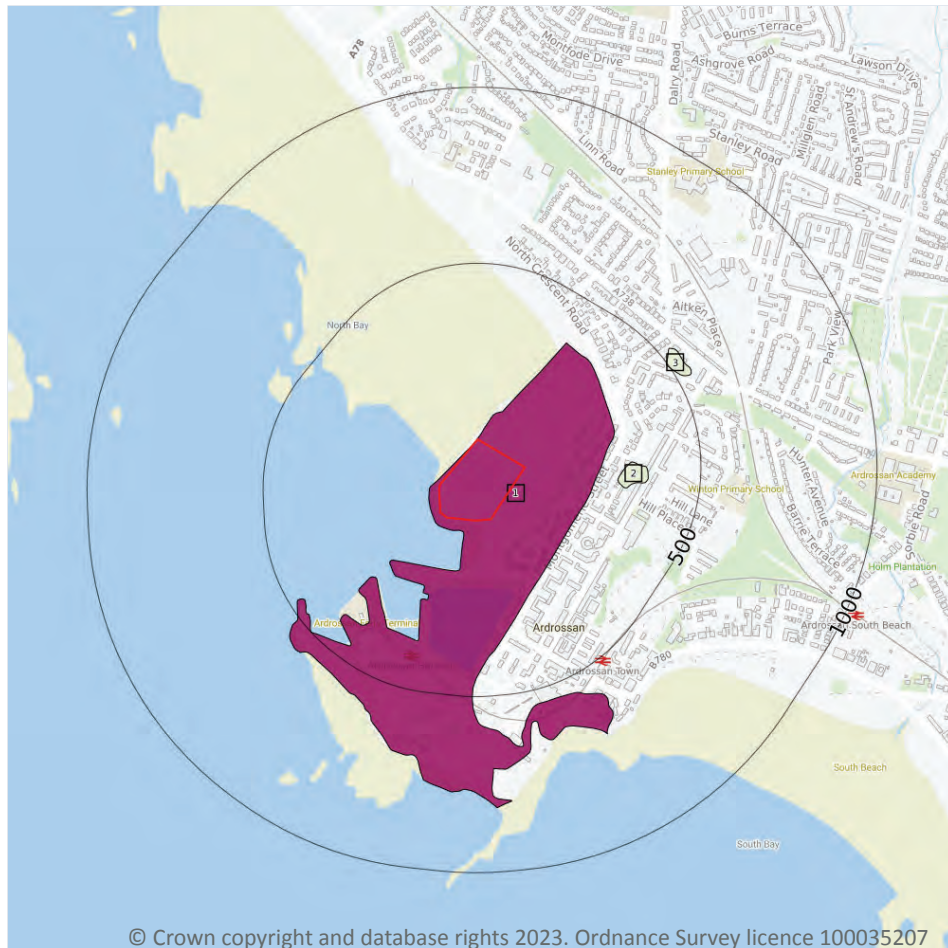
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 59](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	NS24SW

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



— Site Outline
Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

3

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

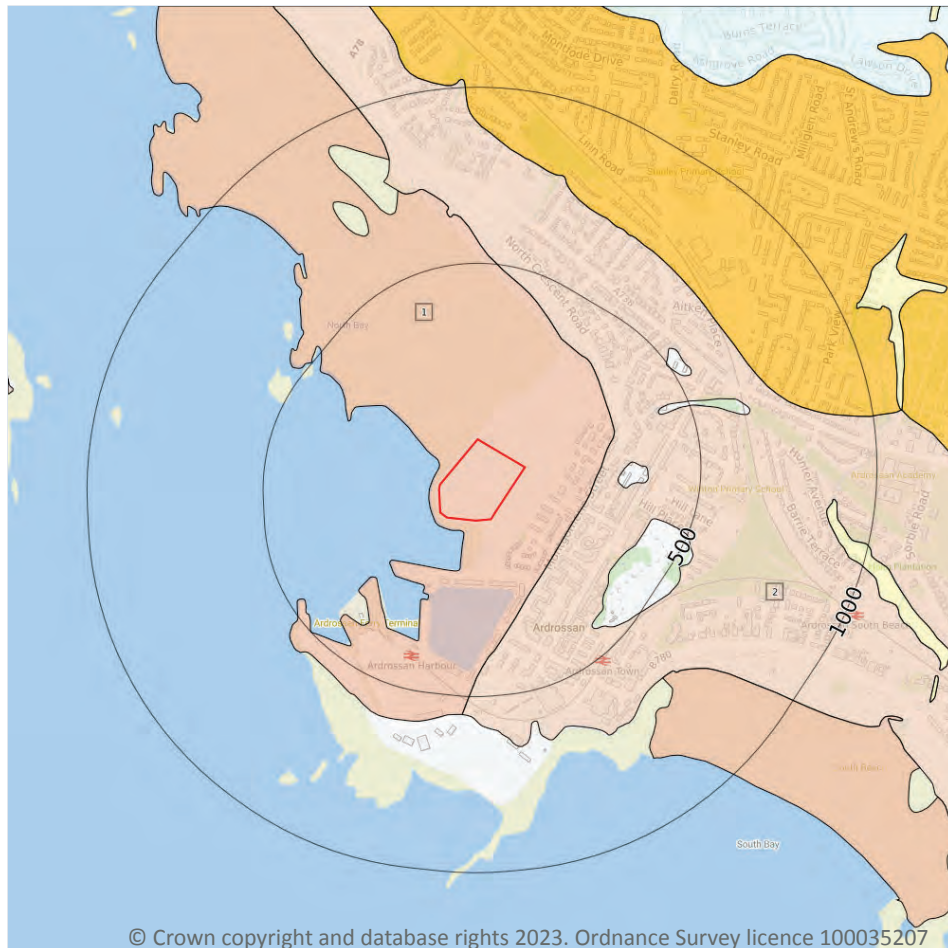
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 60](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	267m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	497m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

 Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

2

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 61](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MBD-XSV	Marine Beach Deposits - Sand And Gravel	Sand And Gravel
2	199m E	RMDF-XCZSV	Raised Marine Deposits Of Flandrian Age - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

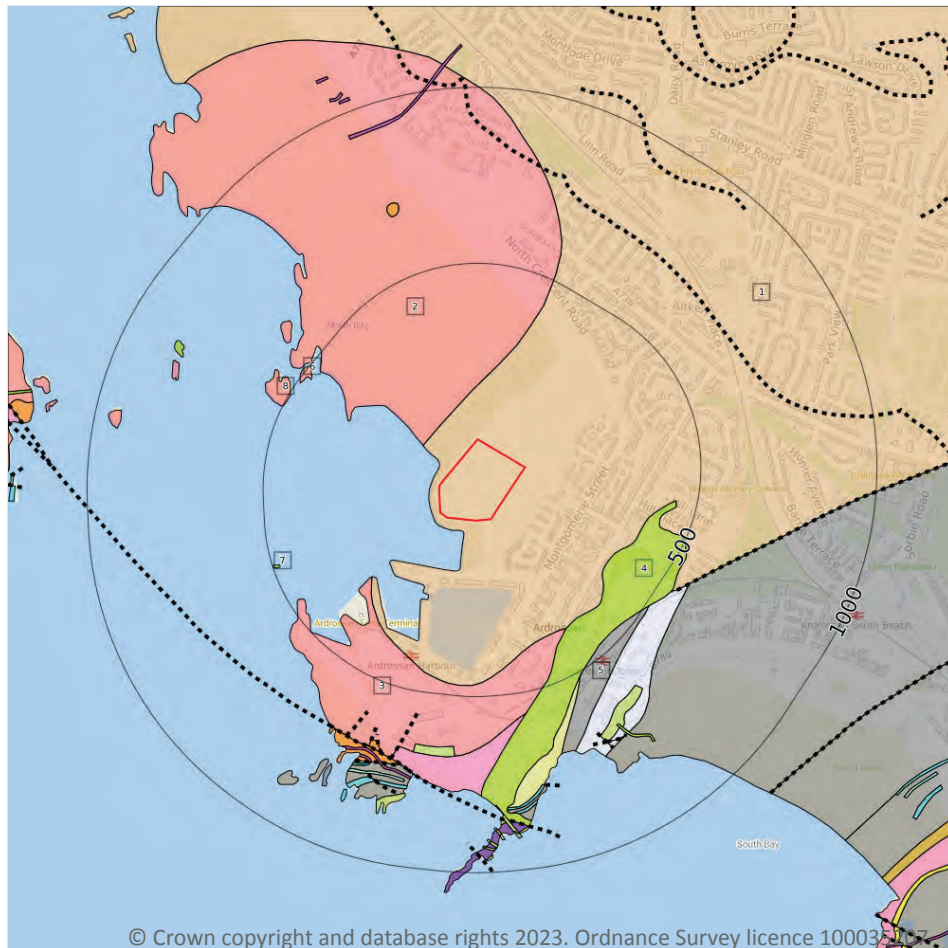
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

8

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 63](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	KBS-SDST	Kelly Burn Sandstone Formation - Sandstone	Late Devonian Epoch
2	105m N	KNW-SDST	Kinnesswood Formation - Sandstone	Courceyan Age - Frasnian Age
3	267m SW	KNW-SDST	Kinnesswood Formation - Sandstone	Courceyan Age - Frasnian Age



ID	Location	LEX Code	Description	Rock age
4	344m SE	MCPAS-MGBOMA	Midland Valley Carboniferous To Early Permian Alkaline Basic Sill Suite - Olivine-macrophyrlic Microgabbro	Cisuralian Epoch - Carboniferous Period
5	469m SE	LLGS-MDSS	Lower Limestone Formation - Mudstone, Siltstone And Sandstone	Pendleian Sub-age - Brigantian Age
6	472m NW	KNW-SDST	Kinnesswood Formation - Sandstone	Courceyan Age - Frasnian Age
7	479m W	SSDPC-MCGB	Clyde Plateau Subsuite [of Ssdpv] - Microgabbro	Dinantian Sub-period [Obsolete name]
8	495m NW	KNW-SDST	Kinnesswood Formation - Sandstone	Courceyan Age - Frasnian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	0
----------------------------	----------

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 65](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SC022w_Irvine_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

3

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 66](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	290m E	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	493m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

1

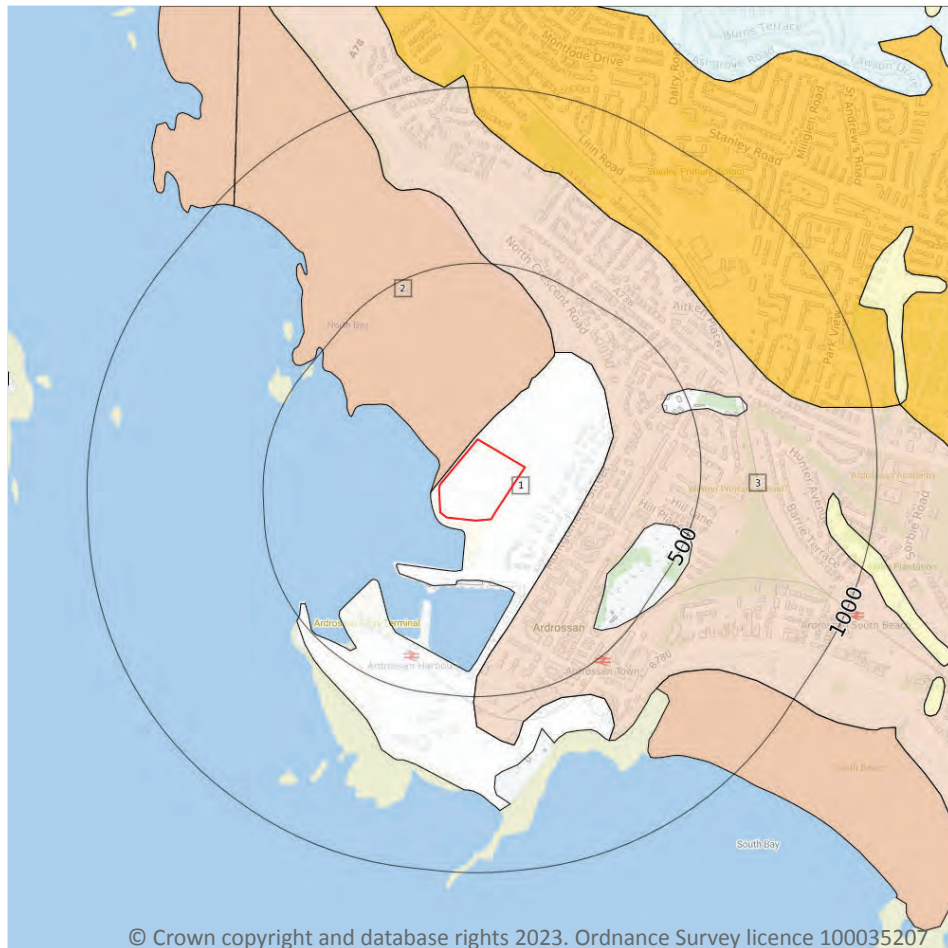
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Low

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

 Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

3

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 68](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	SUPNM-UNKNOWN	SUPERFICIAL THEME NOT MAPPED [FOR DIGITAL MAP USE ONLY]	UNKNOWN/UNCLASSIFIED ENTRY
2	7m W	MBD-XSV	MARINE BEACH DEPOSITS	SAND AND GRAVEL
3	194m E	RMDF-XCZSV	RAISED MARINE DEPOSITS OF HOLOCENE AGE	CLAY, SILT, SAND AND GRAVEL



This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

2

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Very Low
7m W	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

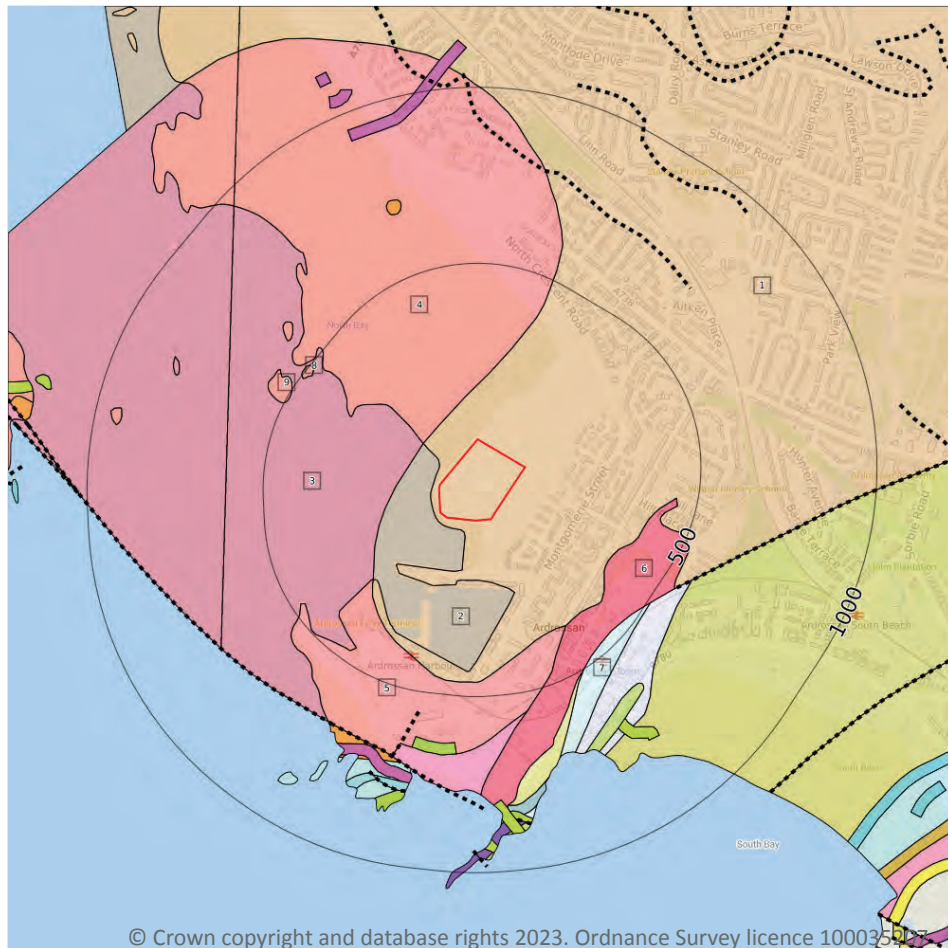
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

9

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 70](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	KBS-SDST	KELLY BURN SANDSTONE FORMATION - SANDSTONE	-
2	17m SW	KBS-SDST	KELLY BURN SANDSTONE FORMATION - SANDSTONE	-
3	103m W	KNW-SDST	KINNESSWOOD FORMATION - SANDSTONE	FRASNIAN
4	108m N	KNW-SDST	KINNESSWOOD FORMATION - SANDSTONE	FRASNIAN



ID	Location	LEX Code	Description	Rock age
5	269m SW	KNW-SDST	KINNESSWOOD FORMATION - SANDSTONE	FRASNIAN
6	344m SE	WMVAS-BSN	WESTERN MIDLAND VALLEY WESTPHALIAN TO EARLY PERMIAN SILLS - BASANITE	WESTPHALIAN
7	466m SE	LLGS-CYCC	LOWER LIMESTONE FORMATION - SEDIMENTARY ROCK CYCLES, CLACKMANNAN GROUP TYPE	WISEAN
8	477m NW	KNW-SDST	KINNESSWOOD FORMATION - SANDSTONE	FRASNIAN
9	494m NW	KNW-SDST	KINNESSWOOD FORMATION - SANDSTONE	FRASNIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

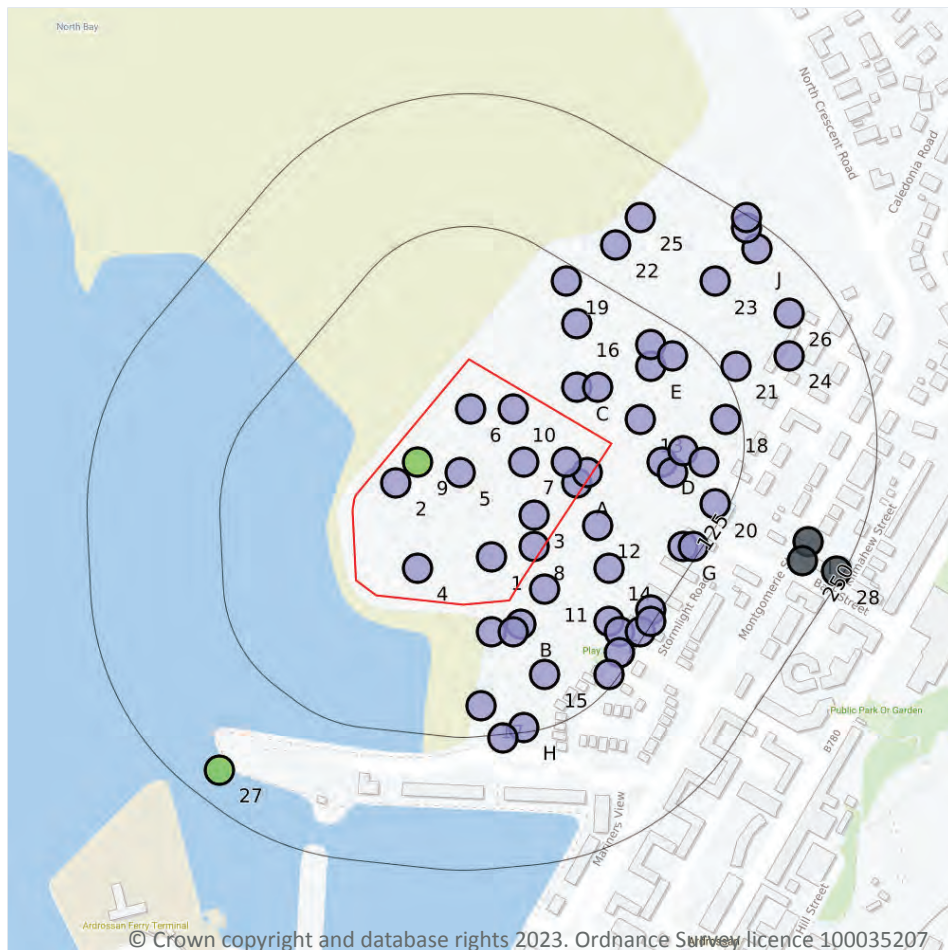
0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

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16.1 BGS Boreholes

Records within 250m

59

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on [page 72 >](#)

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	222750 642520	BITUMEN PLANT, ABERDEEN TP1	3.7	N	15936856 ↗
2	On site	222660 642590	BITUMEN PLANT, ABERDEEN 4	4.7	N	15936840 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
3	On site	222790 642560	ARDROSSAN BITUMEN TERMINAL TPA03	0.8	N	13472639 ↗
4	On site	222680 642510	BITUMEN PLANT, ABERDEEN 5	8.0	N	15936841 ↗
5	On site	222720 642600	BITUMEN PLANT, ABERDEEN TP2	3.7	N	15936857 ↗
6	On site	222730 642660	BITUMEN PLANT, ABERDEEN 2	8.0	N	15936838 ↗
7	On site	222780 642610	BITUMEN PLANT, ABERDEEN TP3	3.0	N	15936859 ↗
8	On site	222790 642530	ARDROSSAN BITUMEN TERMINAL B02	4.0	N	13472636 ↗
9	On site	222680 642610	BITUMEN PLANT, ABERDEEN 3	13.0	N	15936839 ↗
10	On site	222770 642660	BITUMEN PLANT, ABERDEEN TP4	3.8	N	15936858 ↗
A	On site	222830 642590	BITUMEN PLANT, ABERDEEN 15	7.0	N	15936852 ↗
A	On site	222840 642600	ARDROSSAN BITUMEN TERMINAL A05	3.75	N	13472632 ↗
A	On site	222820 642610	ARDROSSAN BITUMEN TERMINAL A01	4.1	N	13472628 ↗
11	23m SE	222800 642490	BITUMEN PLANT, ABERDEEN TP18	2.7	N	15936873 ↗
B	25m S	222777 642457	BITUMEN PLANT, ABERDEEN 6	3.0	N	15936882 ↗
B	28m S	222750 642450	ARDROSSAN BITUMEN TERMINAL A02	4.0	N	13472629 ↗
C	29m NE	222830 642680	BITUMEN PLANT, ABERDEEN TP5	3.3	N	15936860 ↗
B	30m S	222770 642450	BITUMEN PLANT, ABERDEEN 6A	4.3	N	15936842 ↗
12	32m E	222850 642550	BITUMEN PLANT, ABERDEEN TP19	2.8	N	15936874 ↗
13	36m NE	222890 642650	BITUMEN PLANT, ABERDEEN 14	3.65	N	15936851 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
C	39m NE	222850 642680	BITUMEN PLANT, ABERDEEN 13	7.8	N	15936849 ↗
D	50m E	222910 642610	ARDROSSAN BITUMEN TERMINAL TPA04	0.5	N	13472640 ↗
14	62m SE	222860 642510	BITUMEN PLANT, ABERDEEN 17	3.0	N	15936854 ↗
D	63m E	222920 642600	BITUMEN PLANT, ABERDEEN TP16	1.5	N	15936871 ↗
D	68m E	222930 642620	ARDROSSAN BITUMEN TERMINAL TPA05	0.8	N	13472641 ↗
15	77m S	222800 642410	BITUMEN PLANT, ABERDEEN TP21	2.7	N	15936876 ↗
16	81m NE	222830 642740	BITUMEN PLANT, ABERDEEN TP6	3.3	N	15936861 ↗
E	82m NE	222900 642700	ARDROSSAN BITUMEN TERMINAL A06	4.4	N	13472633 ↗
D	89m E	222950 642610	ARDROSSAN BITUMEN TERMINAL A07	3.25	N	13472634 ↗
F	90m SE	222860 642460	ARDROSSAN BITUMEN TERMINAL TPA06	0.8	N	13472642 ↗
17	97m S	222740 642380	ARDROSSAN BITUMEN TERMINAL A03	4.0	N	13472630 ↗
E	99m NE	222900 642720	BITUMEN PLANT, ABERDEEN TP7	2.55	N	15936862 ↗
E	101m NE	222920 642710	BITUMEN PLANT, ABERDEEN TP15	1.5	N	15936870 ↗
F	104m SE	222870 642450	BITUMEN PLANT, ABERDEEN TP20	2.5	N	15936875 ↗
G	110m E	222930 642530	BITUMEN PLANT, ABERDEEN 8	4.1	N	15936844 ↗
18	110m E	222970 642650	BITUMEN PLANT, ABERDEEN 9	4.9	N	15936845 ↗
19	110m NE	222820 642780	ARDROSSAN BITUMEN TERMINAL TPA02	0.7	N	13472638 ↗
20	113m E	222960 642570	BITUMEN PLANT, ABERDEEN TP17	2.3	N	15936872 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
F	114m SE	222870 642430	BITUMEN PLANT, ABERDEEN 18	3.5	N	15936855 ↗
F	116m SE	222860 642410	BITUMEN PLANT, ABERDEEN TP26	2.5	N	15936881 ↗
F	118m SE	222900 642470	BITUMEN PLANT, ABERDEEN TP23	2.3	N	15936878 ↗
G	118m E	222940 642530	BITUMEN PLANT, ABERDEEN TP24	2.5	N	15936879 ↗
H	120m S	222780 642360	BITUMEN PLANT, ABERDEEN TP22	2.8	N	15936877 ↗
F	120m SE	222890 642450	BITUMEN PLANT, ABERDEEN TP25	2.4	N	15936880 ↗
F	123m SE	222900 642460	BITUMEN PLANT, ABERDEEN 16	3.8	N	15936853 ↗
H	128m S	222760 642350	BITUMEN PLANT, ABERDEEN 7	5.3	N	15936843 ↗
21	138m NE	222980 642700	BITUMEN PLANT, ABERDEEN TP14	0.5	N	15936869 ↗
22	163m NE	222867 642814	BITUMEN PLANT, ABERDEEN 1	7.8	N	13471190 ↗
23	181m NE	222960 642780	BITUMEN PLANT, ABERDEEN 12	8.0	N	15936850 ↗
24	187m NE	223030 642710	BITUMEN PLANT, ABERDEEN TP13	1.8	N	15936868 ↗
25	197m NE	222890 642840	BITUMEN PLANT, ABERDEEN TP8	0.3	N	15936863 ↗
I	207m E	223048 642535	ARDROSSAN BARR ST. TP. 2	-	Y	N/A
26	208m NE	223030 642750	BITUMEN PLANT, ABERDEEN TP12	1.8	N	15936867 ↗
I	210m E	223042 642517	ARDROSSAN BARR ST. TP. 3	-	Y	N/A
27	220m SW	222494 642320	ARDROSSAN HARBOUR 1	16.0	N	801681 ↗
J	229m NE	223000 642810	BITUMEN PLANT, ABERDEEN 11	4.1	N	15936848 ↗
J	240m NE	222990 642830	BITUMEN PLANT, ABERDEEN TP10	2.0	N	15936865 ↗
28	244m E	223075 642507	ARDROSSAN BARR ST. TP. 4	-	Y	N/A

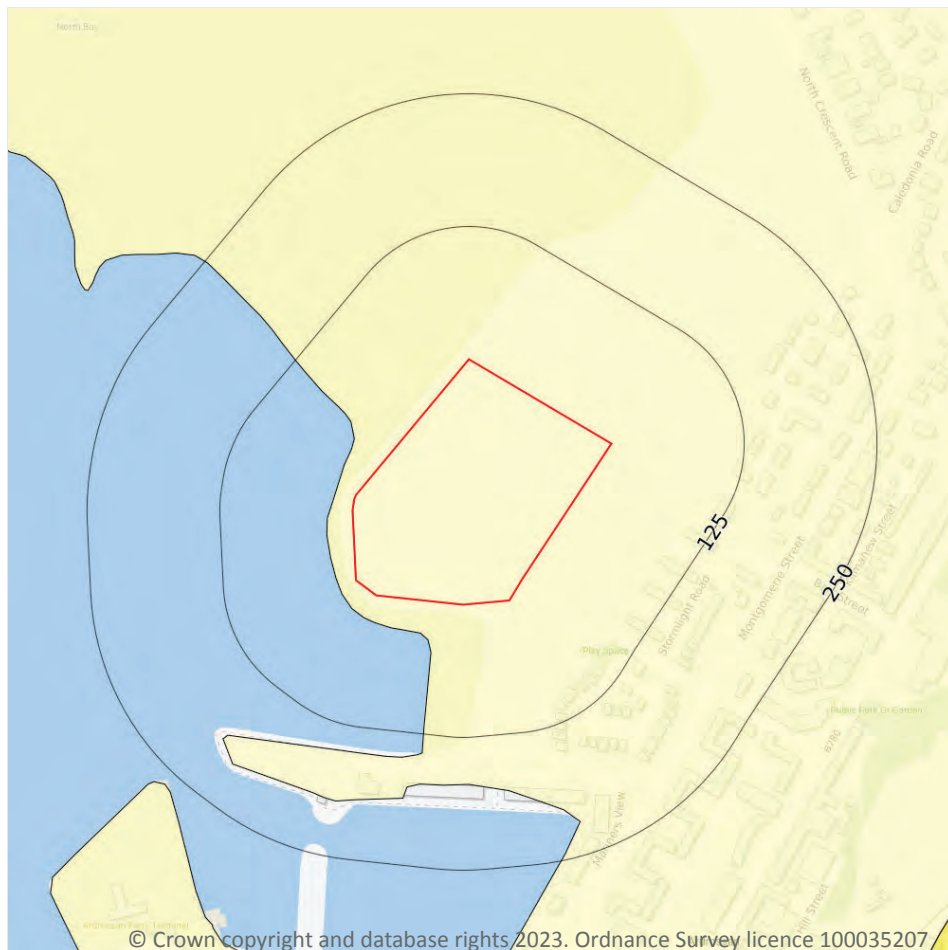


ID	Location	Grid reference	Name	Length	Confidential	Web link
J	248m NE	222990 642840	ARDROSSAN BITUMEN TERMINAL A04	4.0	N	13472631 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

1

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

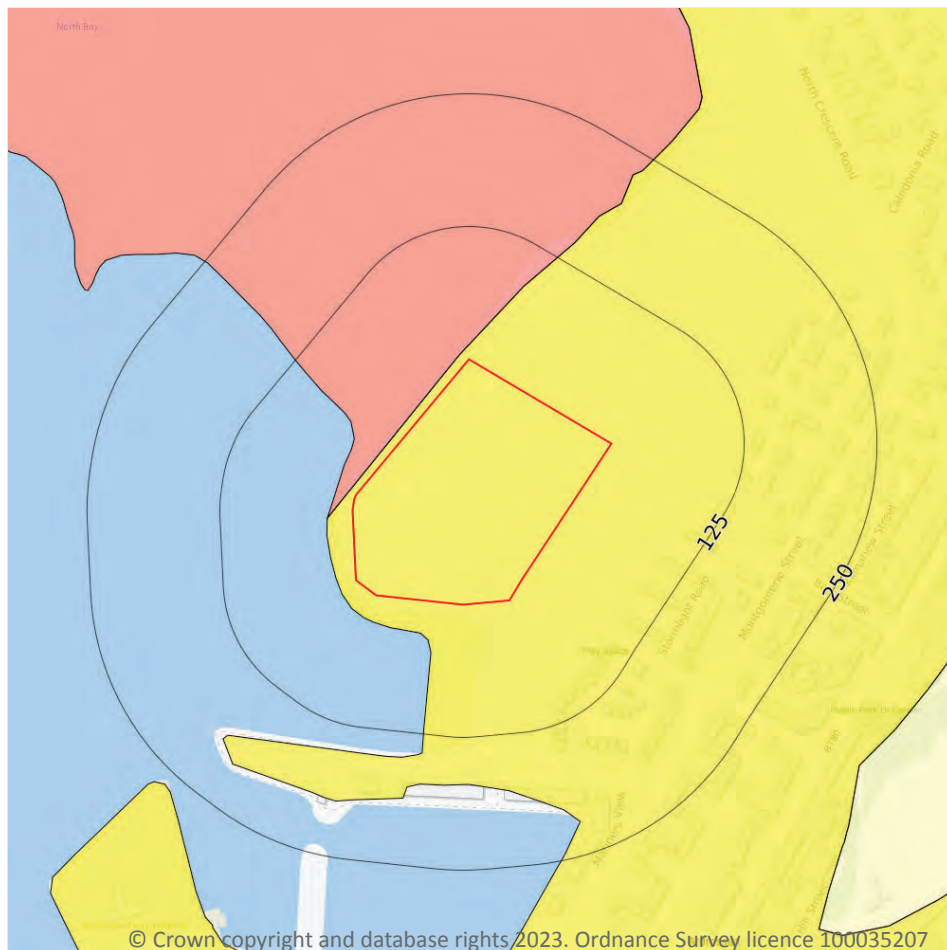
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 77 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on [page 78 >](#)

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

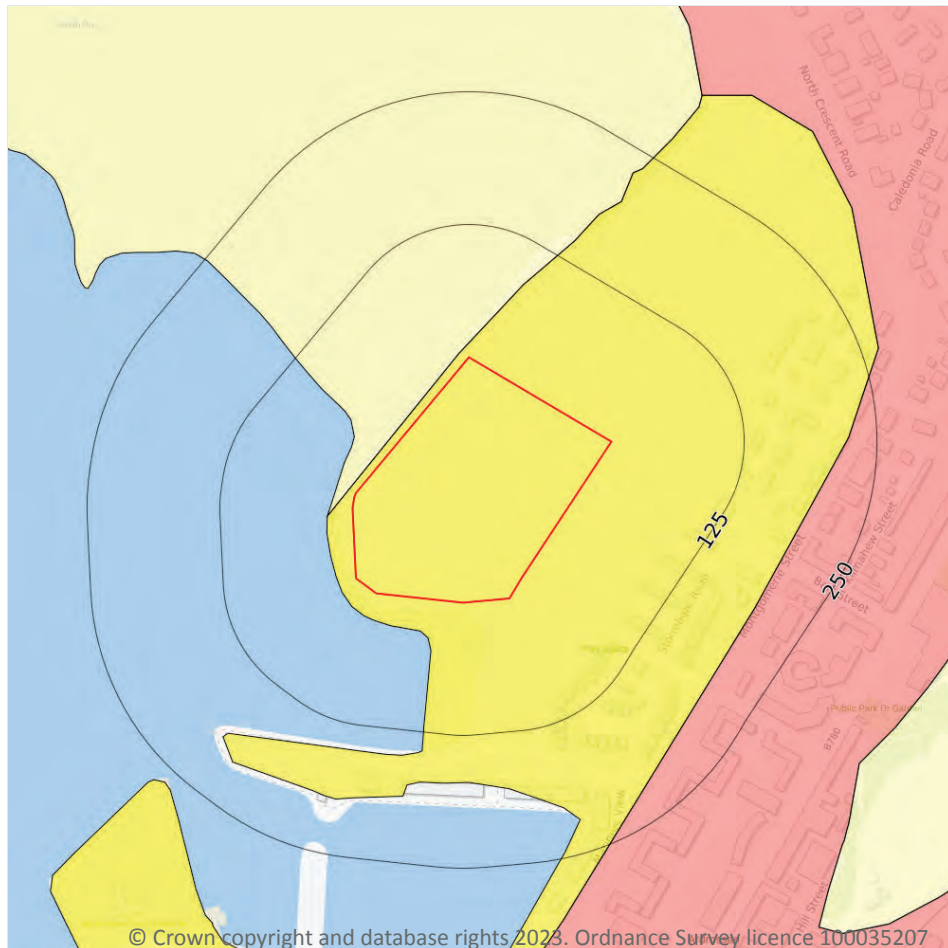


Location	Hazard rating	Details
7m W	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

2

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 80 >](#)

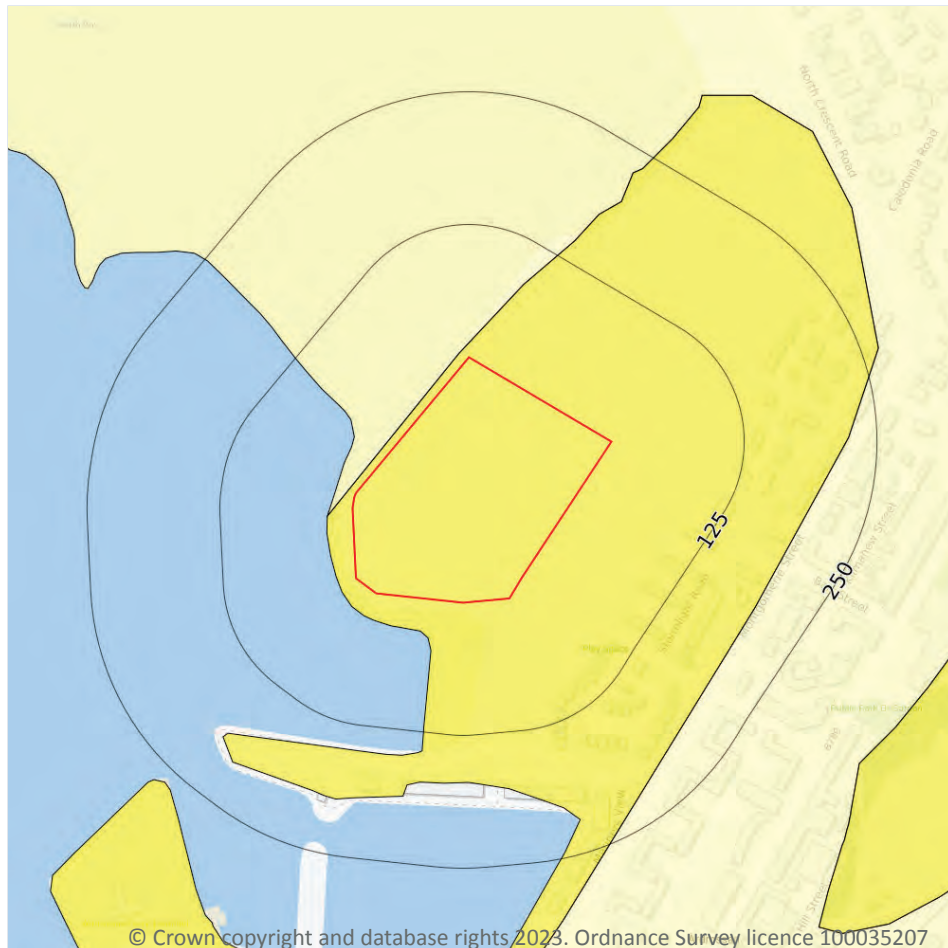
Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
7m W	Negligible	Compressible strata are not thought to occur.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

2

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

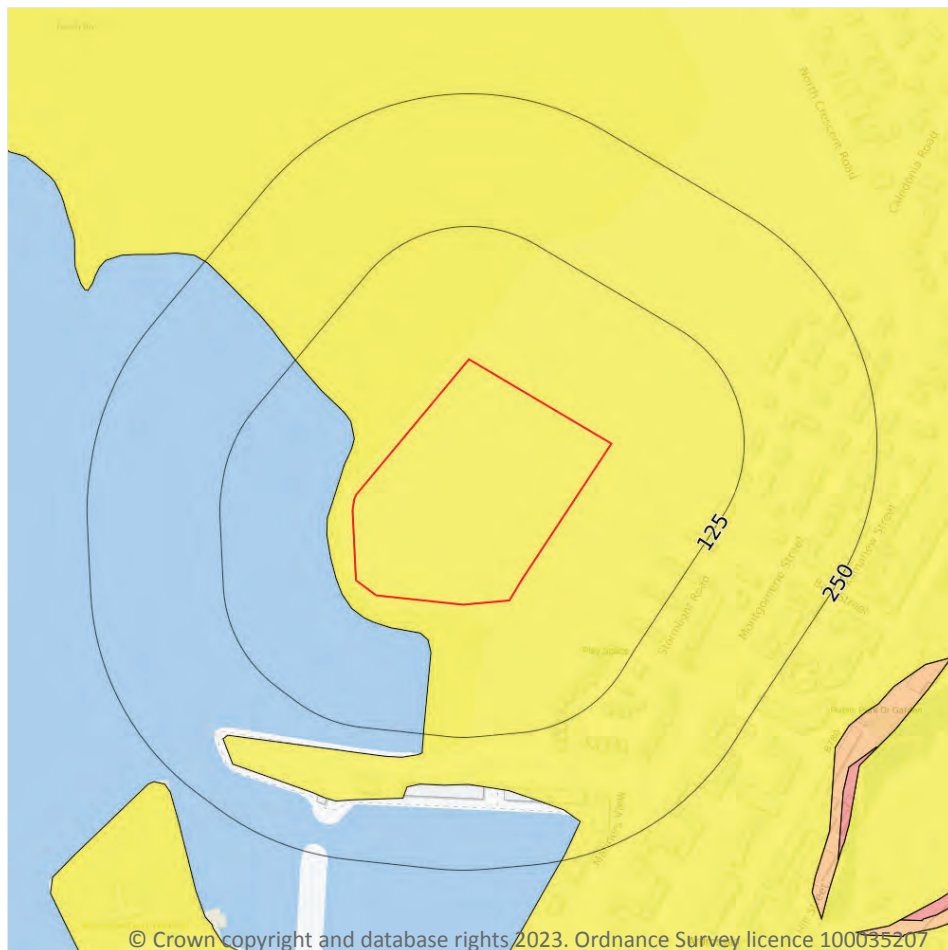
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 82 >](#)

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
7m W	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

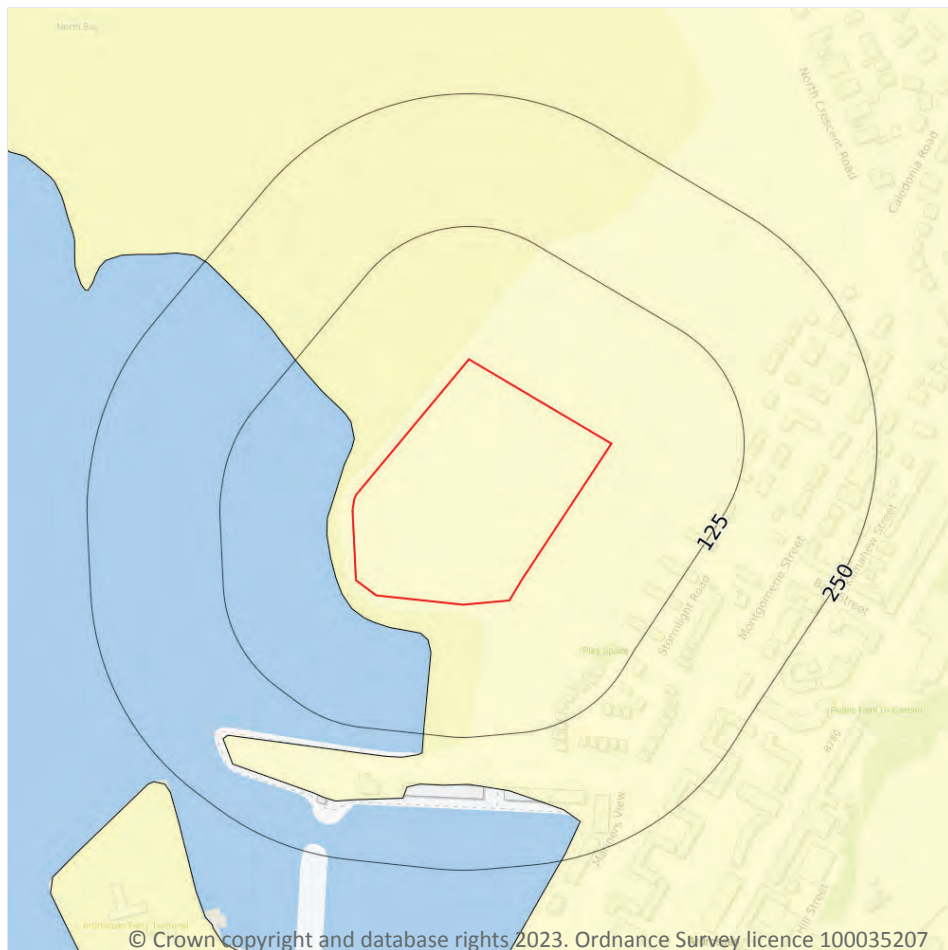
Features are displayed on the Natural ground subsidence - Landslides map on [page 83](#) >

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 84](#)

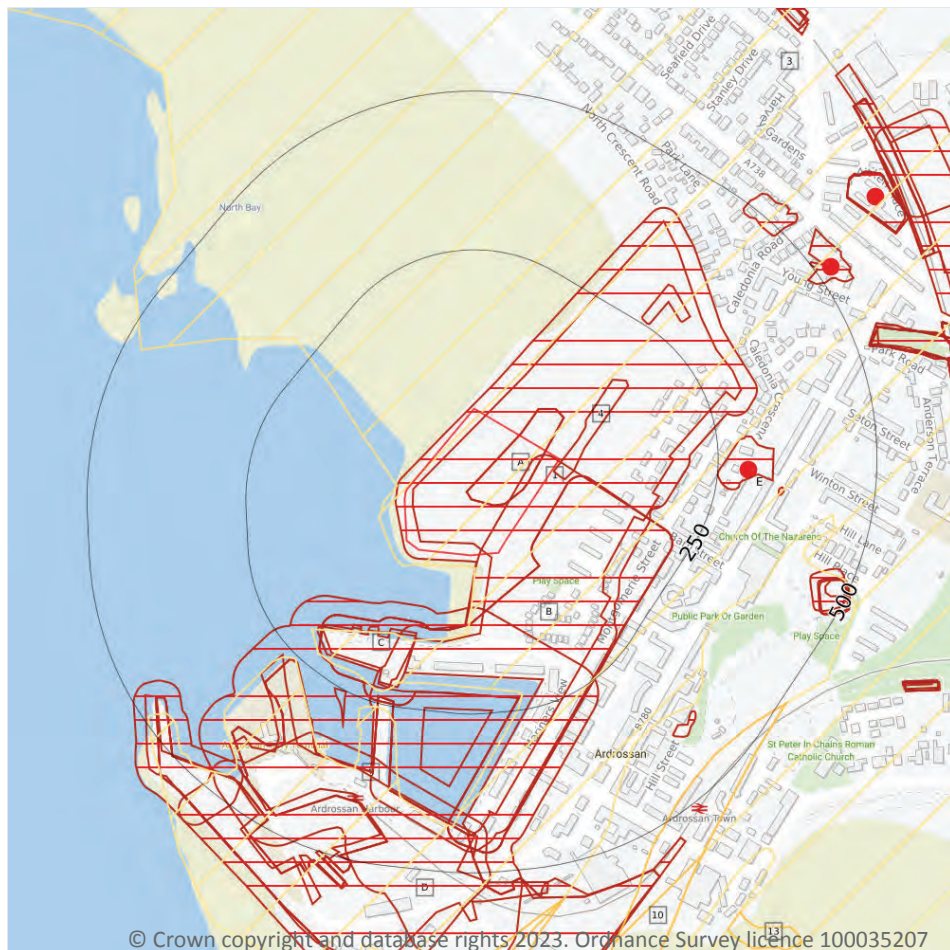
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

1

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on [page 86 >](#)

ID	Location	Details	Description
E	297m E	Name: Montgomerie Street Address: ARDROSSAN, Ayrshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

14

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on [page 86 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Dock	1980	1:10000
2	On site	Dock	1970	1:10560
A	On site	Unspecified Ground Workings	1980	1:10000
A	On site	Unspecified Ground Workings	1980	1:10000
B	On site	Dock	1895	1:10560
4	3m E	Old Clay Pit	1895	1:10560
B	32m E	Dock	1938	1:10560
B	32m E	Dock	1909	1:10560
5	82m S	Docks	1954	1:10560
C	130m SW	Dock	1980	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
C	135m SW	Dock	1970	1:10560
D	239m SW	Dock	1938	1:10560
D	239m SW	Dock	1909	1:10560
D	239m SW	Dock	1895	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	0
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Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0
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Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	5
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The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on [page 86 >](#)

ID	Location	Name	Commodity	Class	Likelihood
3	On site	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered



ID	Location	Name	Commodity	Class	Likelihood
10	466m SE	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
12	554m S	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
13	681m SE	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	707m S	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m **0**

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site **0**

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site **0**

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.



18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

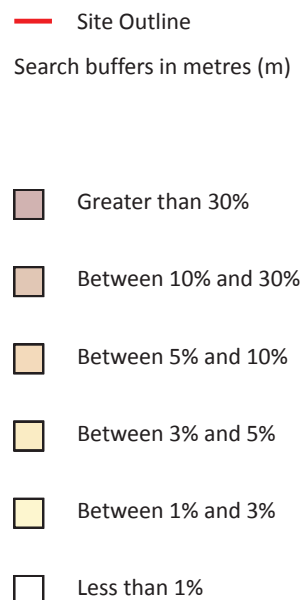
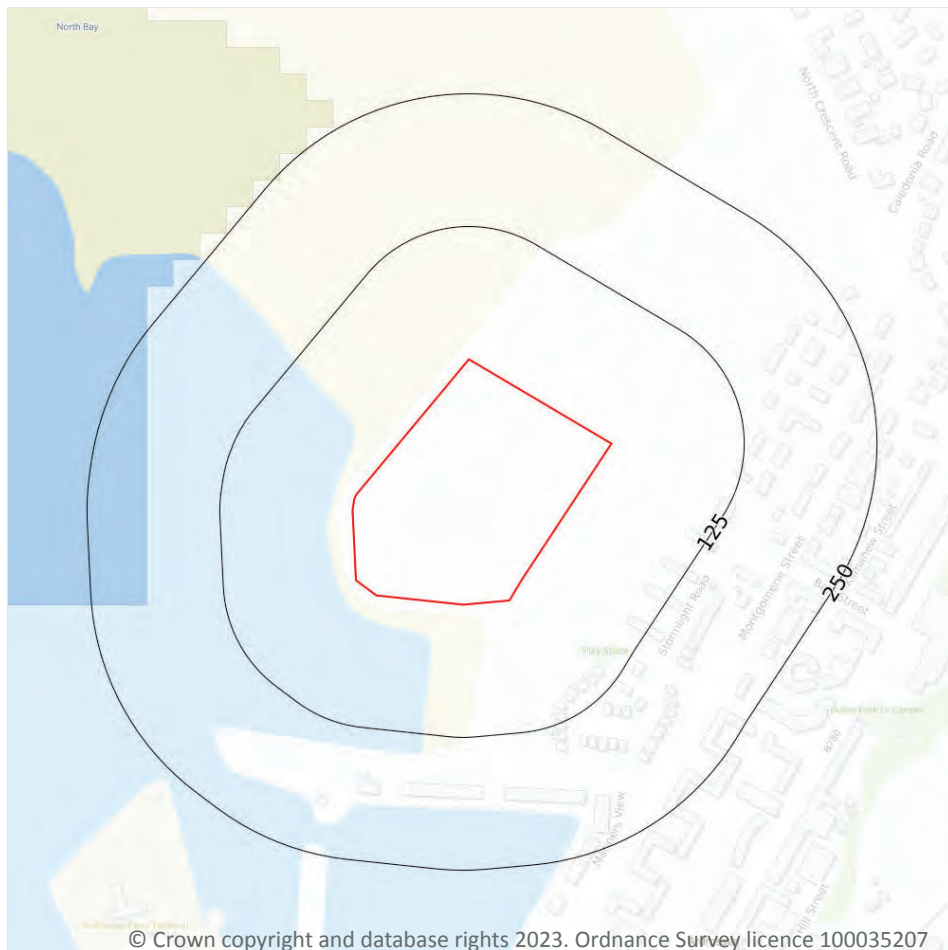
18.13 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



19.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 91](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None



This data is sourced from the British Geological Survey and UK Health Security Agency.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	-	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
9m N	15 mg/kg	-	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

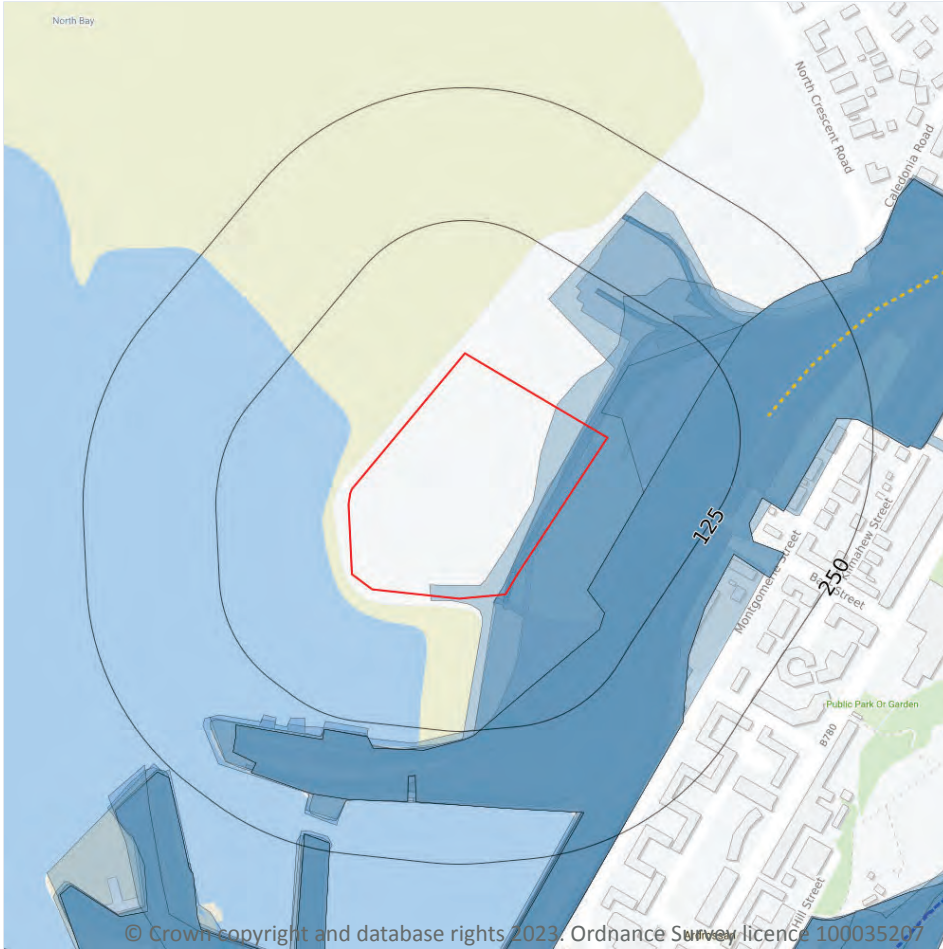
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

31

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on [page 94 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1986	1250
On site	Railway Sidings	1964	1250
On site	Railway Sidings	1963	2500
On site	Railway Sidings	1989	1250
On site	Railway Sidings	1981	1250
On site	Railway Sidings	1970	10560
On site	Railway Sidings	1980	10000
On site	Railway Sidings	1954	10560
17m NE	Railway Sidings	1909	10560
19m E	Railway Sidings	1895	2500
28m NE	Railway Sidings	1908	2500
55m E	Railway Sidings	1938	10560
55m E	Railway Sidings	1895	10560
75m E	Railway Sidings	1964	1250
83m SE	Railway Sidings	1981	1250
85m SE	Railway Sidings	1986	1250
91m SE	Railway Sidings	1895	2500



Location	Land Use	Year of mapping	Mapping scale
92m SE	Railway Sidings	1908	2500
107m E	Railway Sidings	1989	1250
122m E	Railway Sidings	1986	1250
125m E	Railway Sidings	1908	2500
130m SE	Railway Sidings	1981	1250
130m E	Railway Sidings	1964	1250
141m E	Railway Sidings	1908	2500
141m E	Railway Sidings	1964	1250
147m E	Railway Sidings	1985	1250
151m E	Railway Sidings	1895	2500
157m NE	Railway Sidings	1964	1250
239m SW	Railway Sidings	1938	10560
239m SW	Railway Sidings	1909	10560
239m SW	Railway Sidings	1895	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

1

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

Features are displayed on the Railway infrastructure and projects map on [page 94 >](#)



Location	Description
153m E	Razed

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	0
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Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0
---------------------	---

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0
---------------------	---

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0
---------------------	---

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference> ↗.

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Site Details:

1, MARINERS VIEW,
ARDROSSAN, KA22 8BF

Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: County Series

Map date: 1895

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1895
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

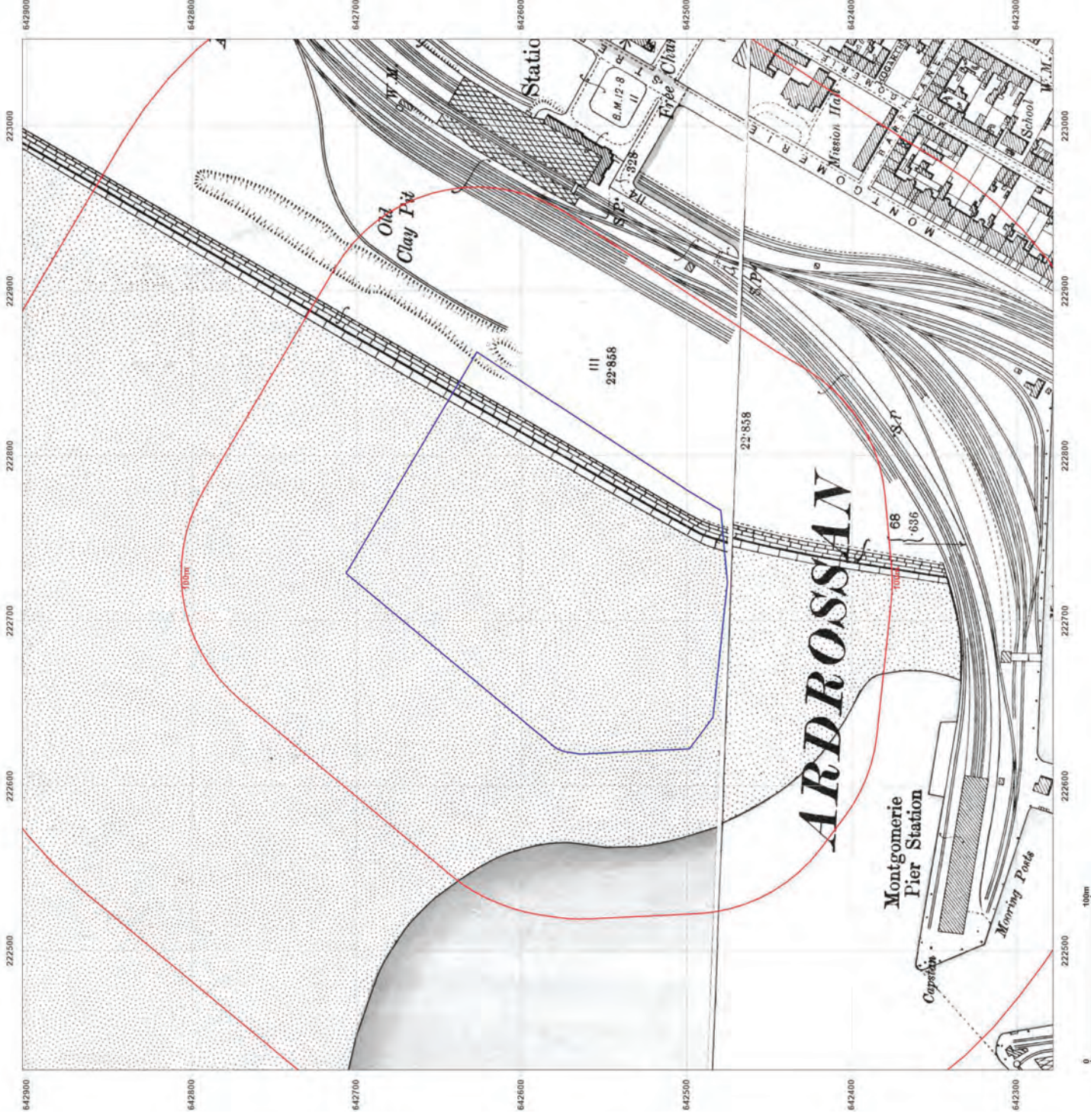


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Site Details:

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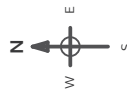
Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 1964

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
---	---

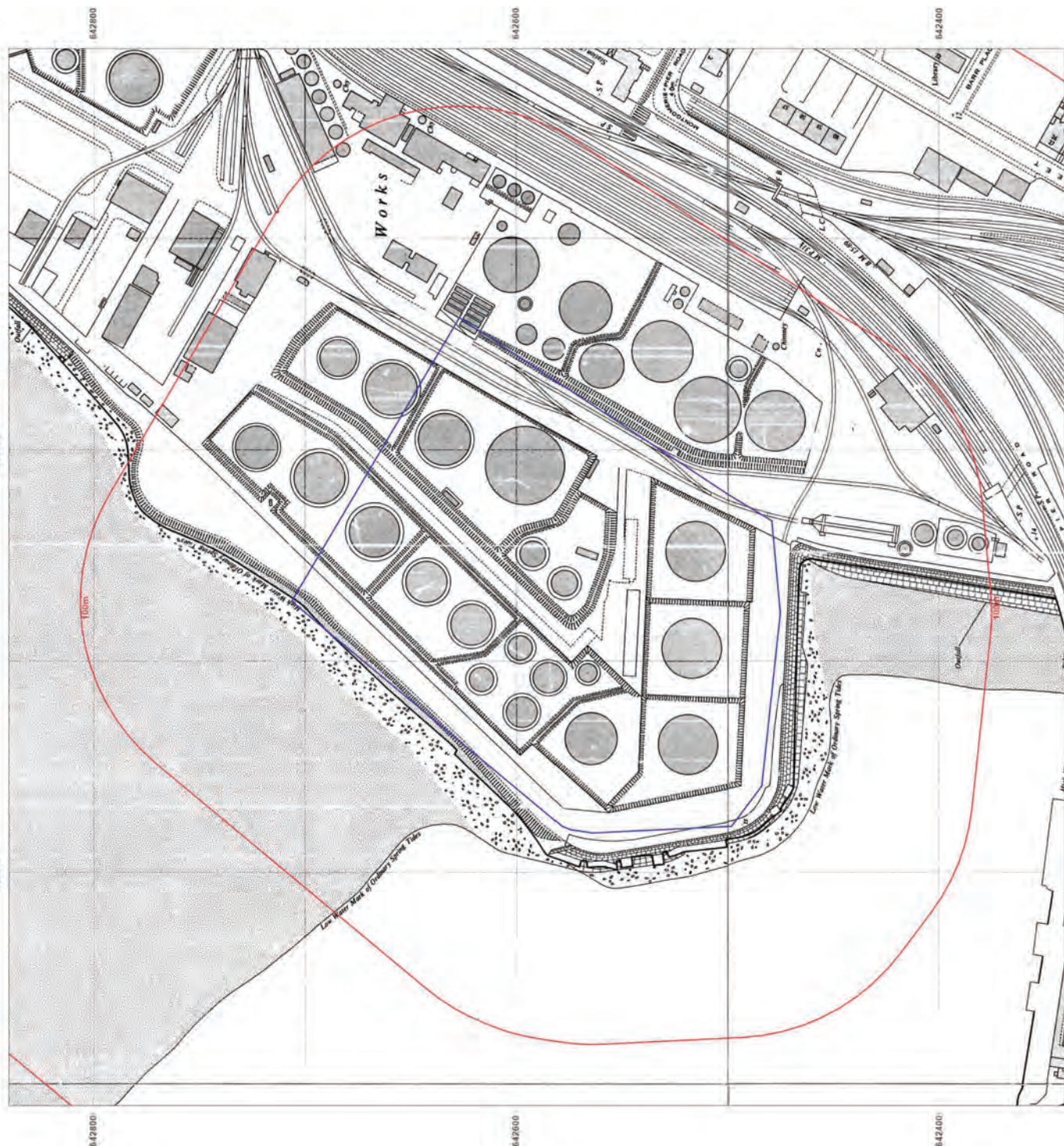


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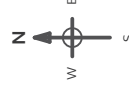
Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 1964

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed 1965 Revised 1963 Edition N/A Copyright 1964 Levelled 1961
Surveyed 1963 Revised 1963 Edition N/A Copyright 1964 Levelled 1961	Surveyed 1963 Revised 1963 Edition N/A Copyright 1964 Levelled 1961

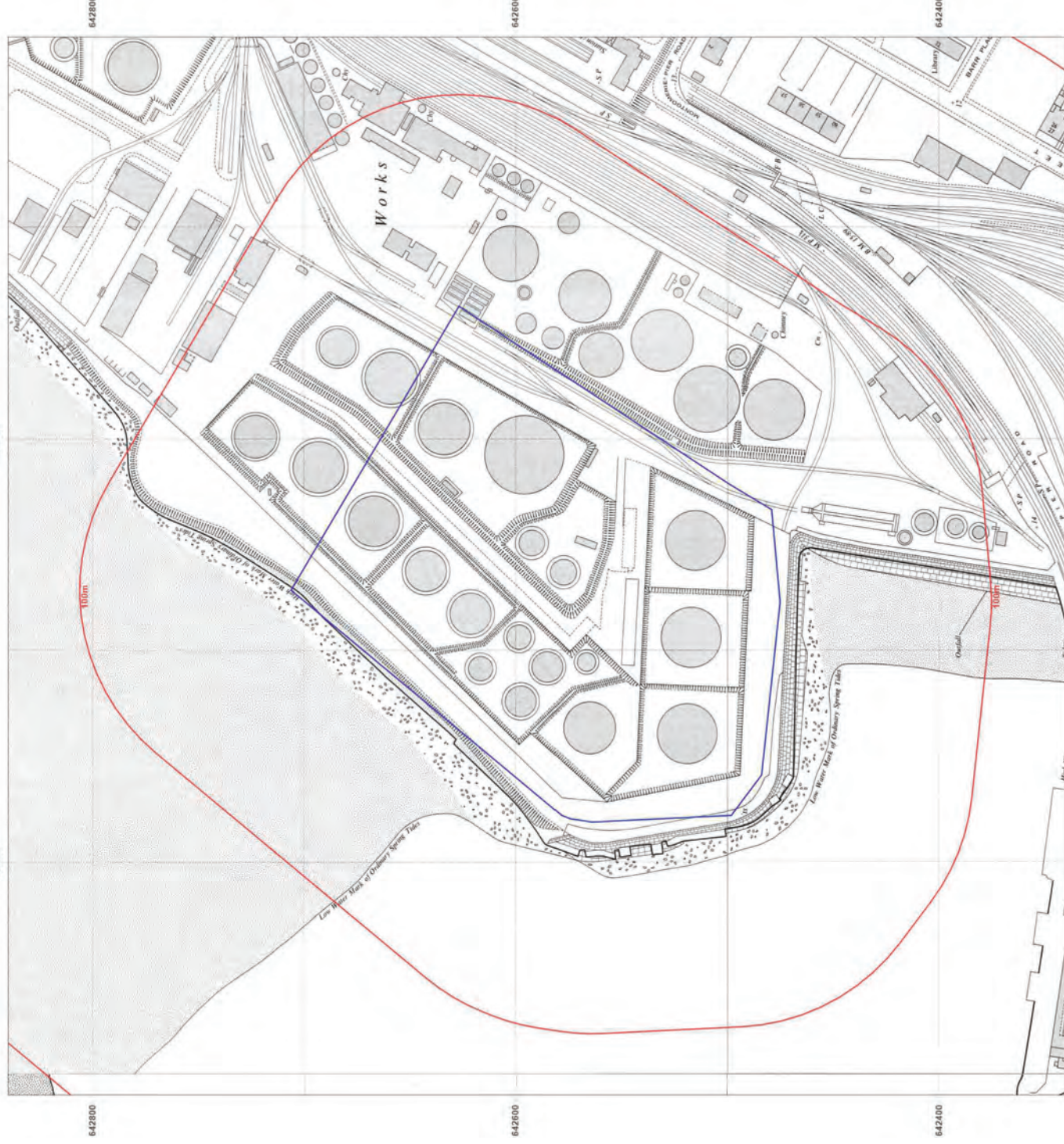


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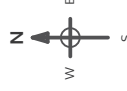
Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 1965

Scale: 1:2,500

Printed at: 1:2,500

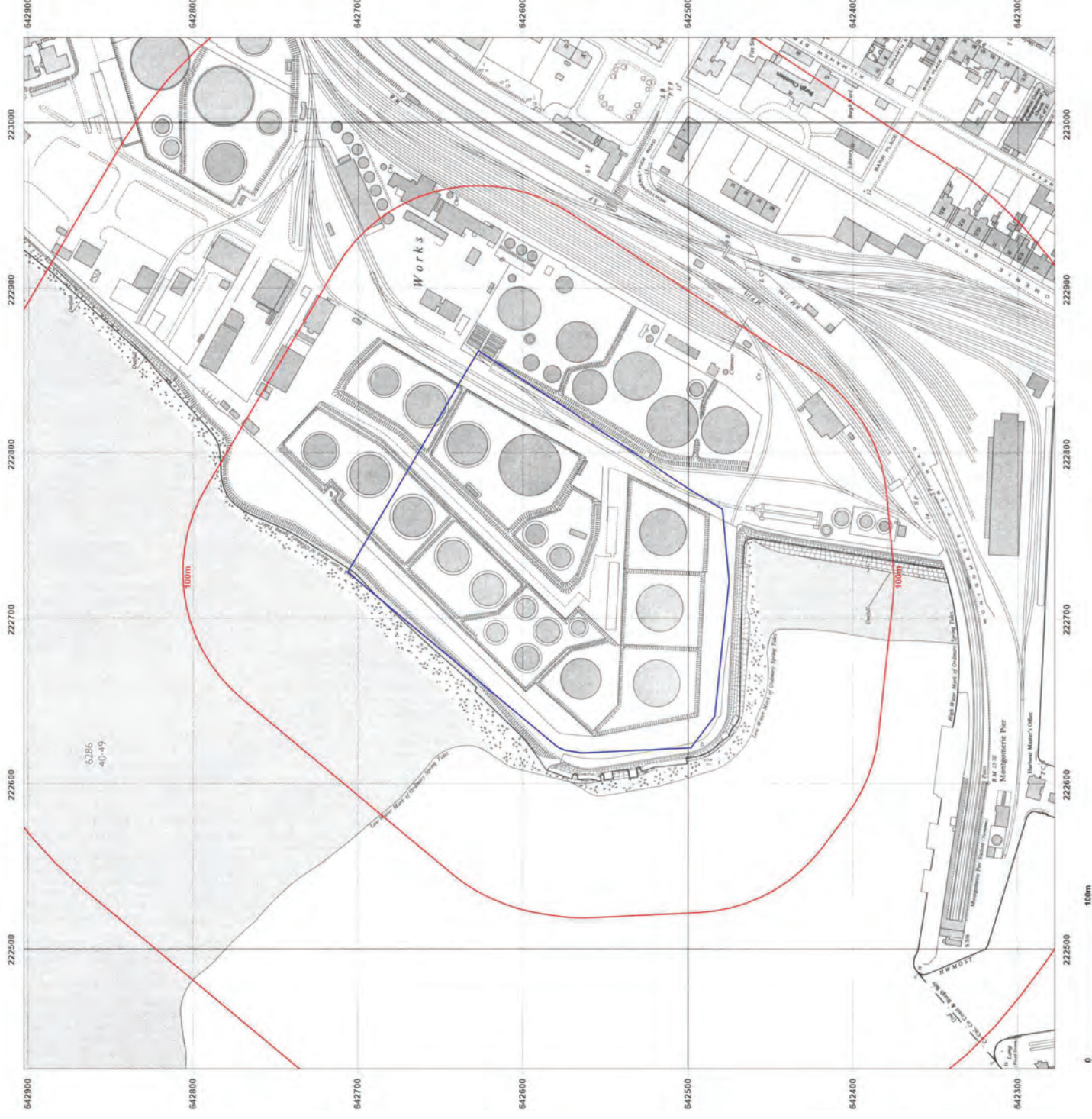


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Site Details:

1, MARINERS VIEW,
ARDROSSAN, KA22 8BF

Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 1980-1981

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A	Surveyed N/A
Revised N/A	Revised N/A
Edition N/A	Edition N/A
Copyright N/A	Copyright N/A
Levelled N/A	Levelled N/A



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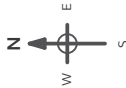
Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 1980-1981

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1980
Levelled 1981

Surveyed 1981
Revised 1981
Edition N/A
Copyright 1981
Levelled 1981



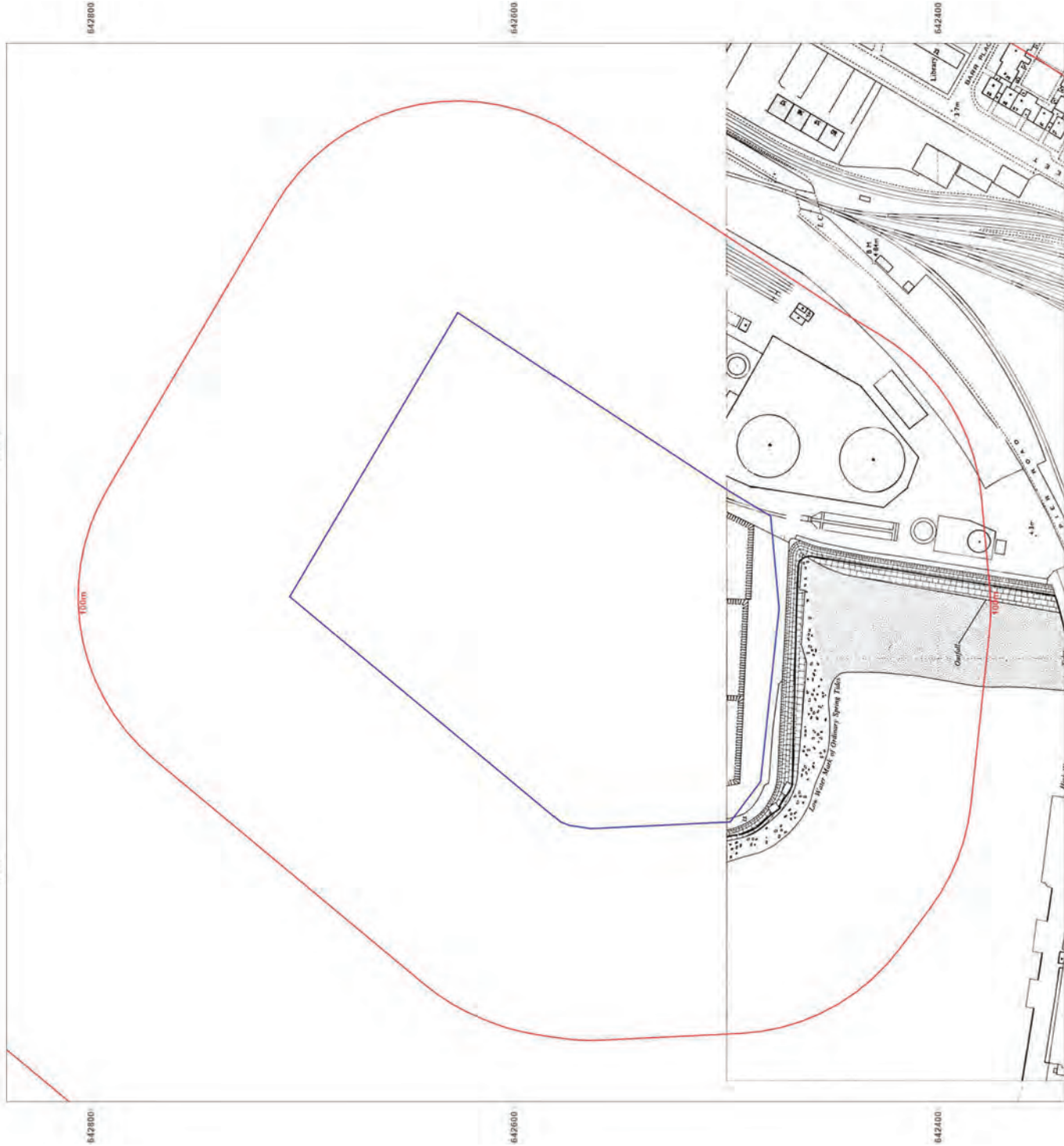
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Site Details:

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ARDROSSAN, KA22 8BF

Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 1981

Scale: 1:1,250

Printed at: 1:2,000

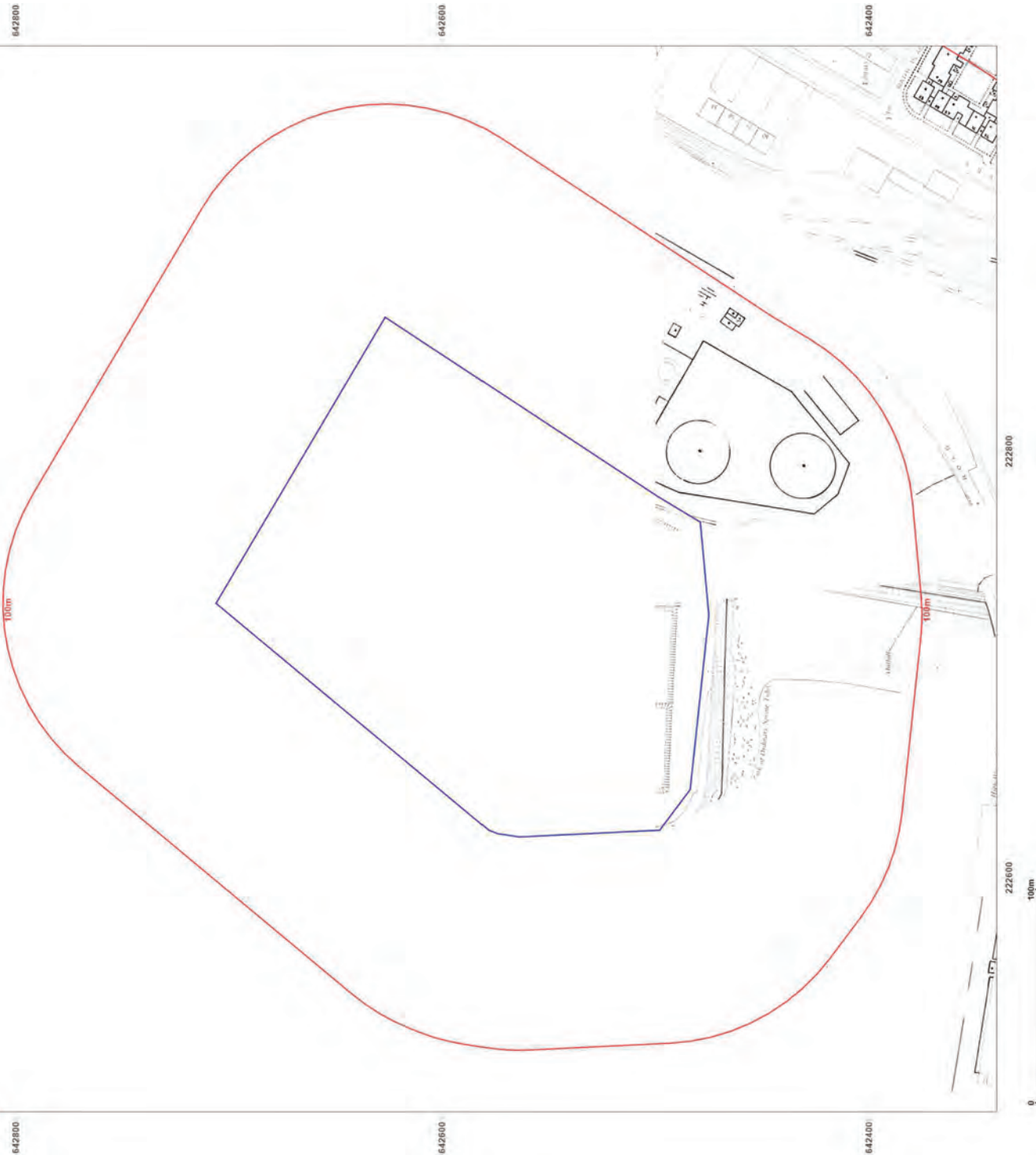


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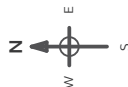
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Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 1986-1989

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1961
Revised 1989
Edition N/A
Copyright 1989
Levelled 1961

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



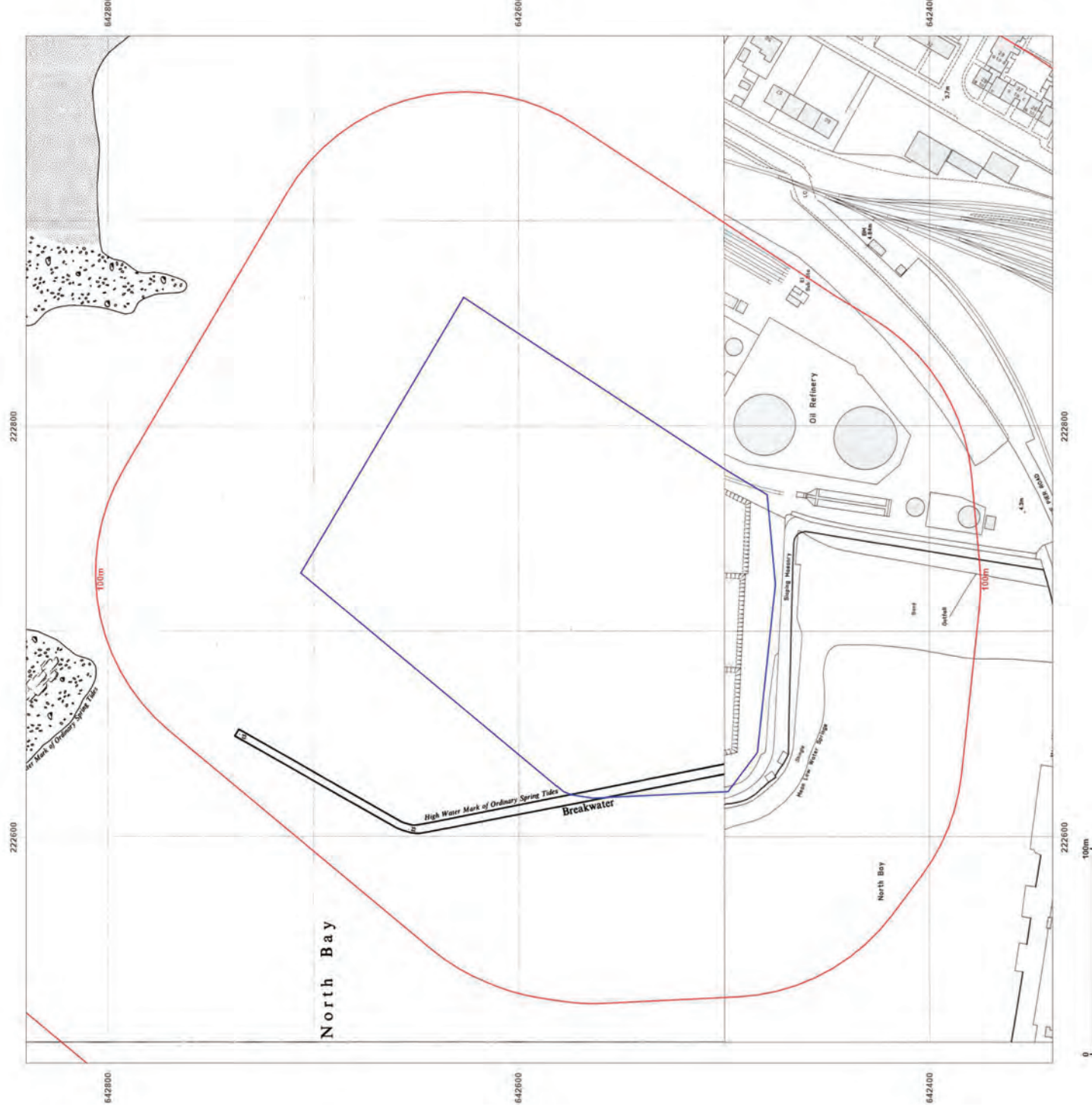
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Site Details:

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Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 1990-1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A	Surveyed 1990 Revised 1990 Edition N/A Copyright 1990 Levelled N/A
Surveyed 1993 Revised N/A Edition N/A Copyright 1993 Levelled N/A	Surveyed 1992 Revised 1992 Edition N/A Copyright 1992 Levelled N/A



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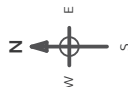
Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993,
Revised N/A
Edition N/A
Copyright 1993
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Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

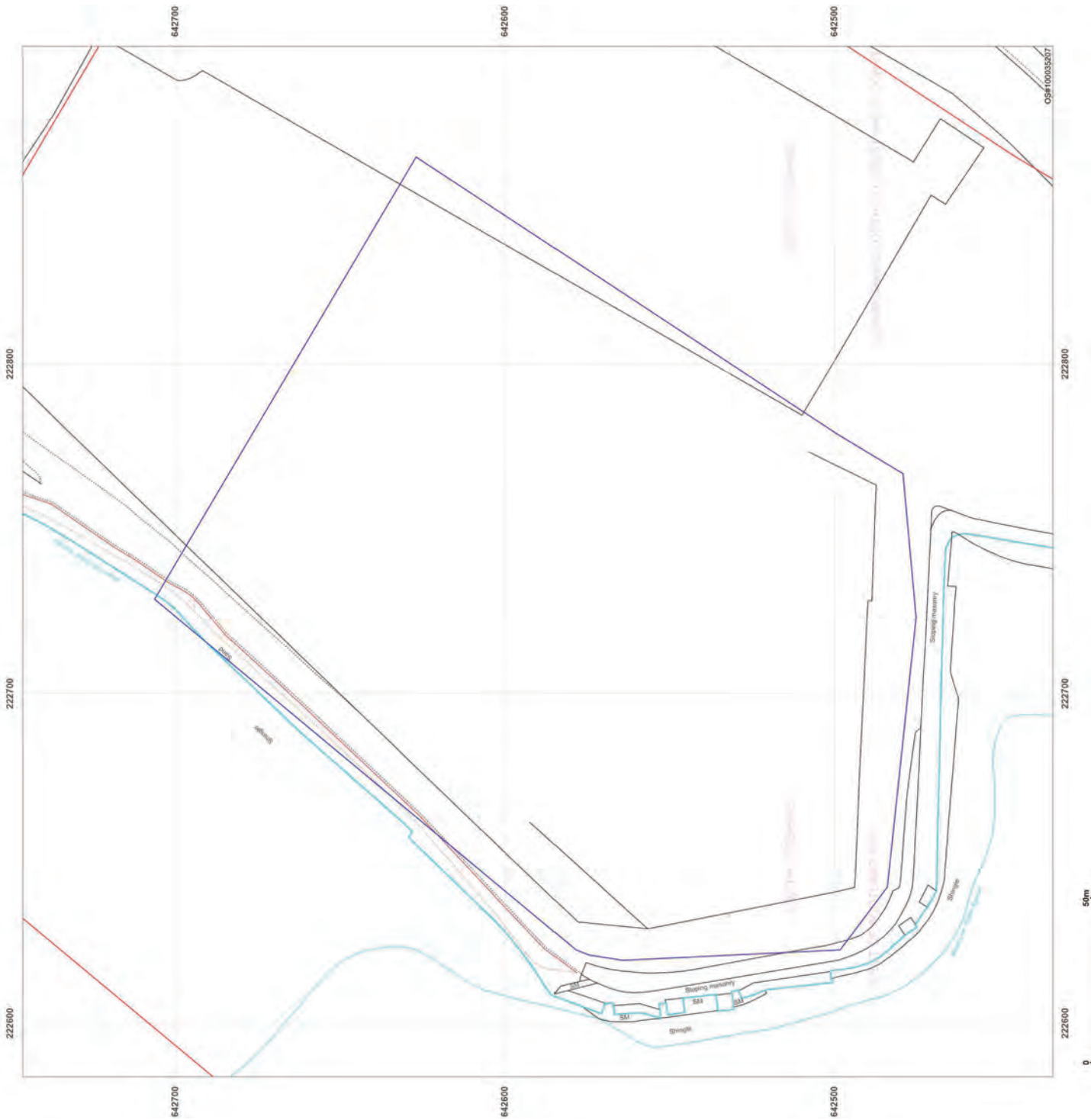


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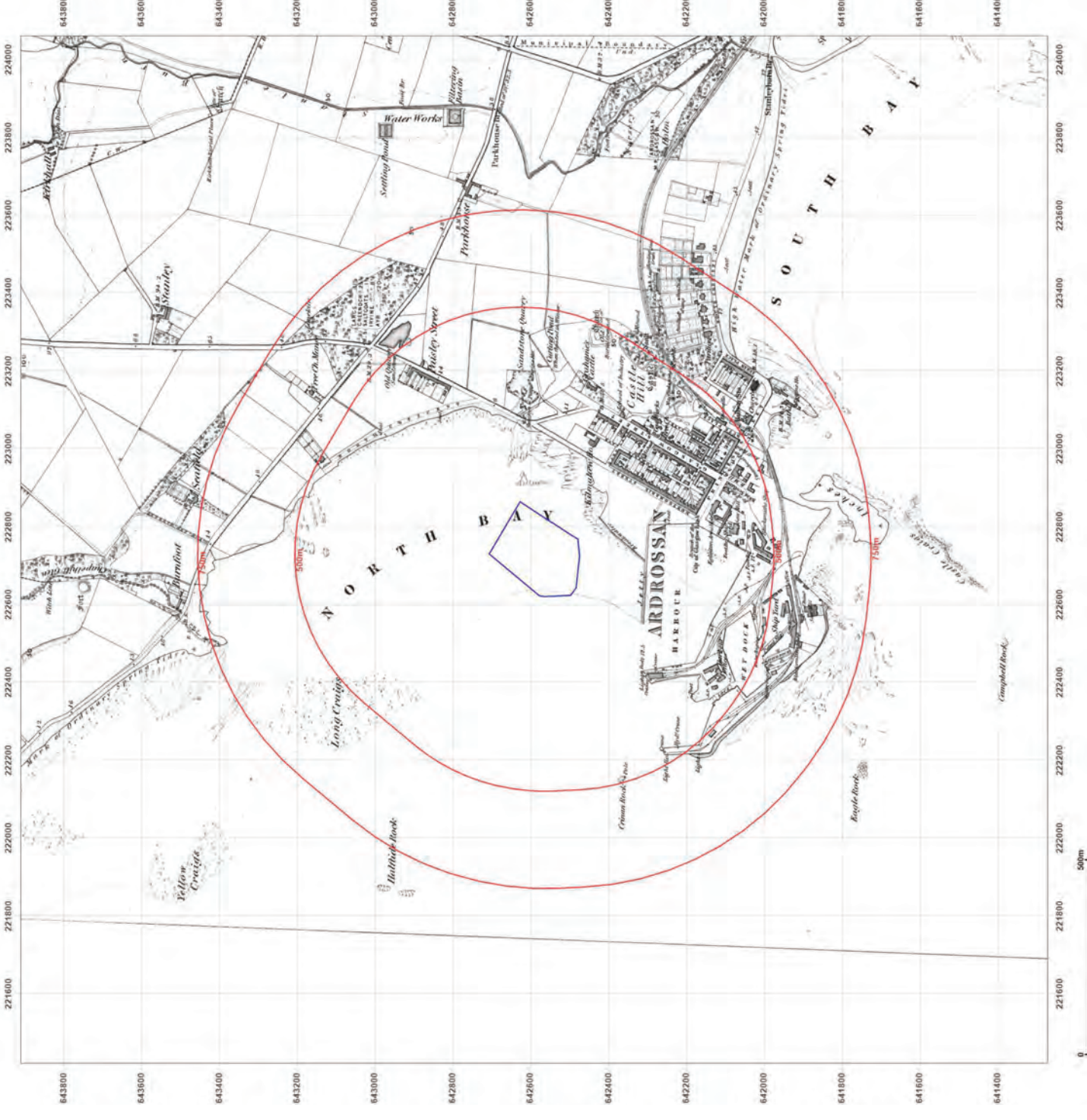
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Map legend available at:
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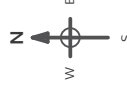


Site Details:

1, MARINERS VIEW,
ARDROSSAN, KA22 8BF

Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: County Series
Map date: 1895
Scale: 1:10,560
Printed at: 1:10,560



Surveyed 1855
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1855
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

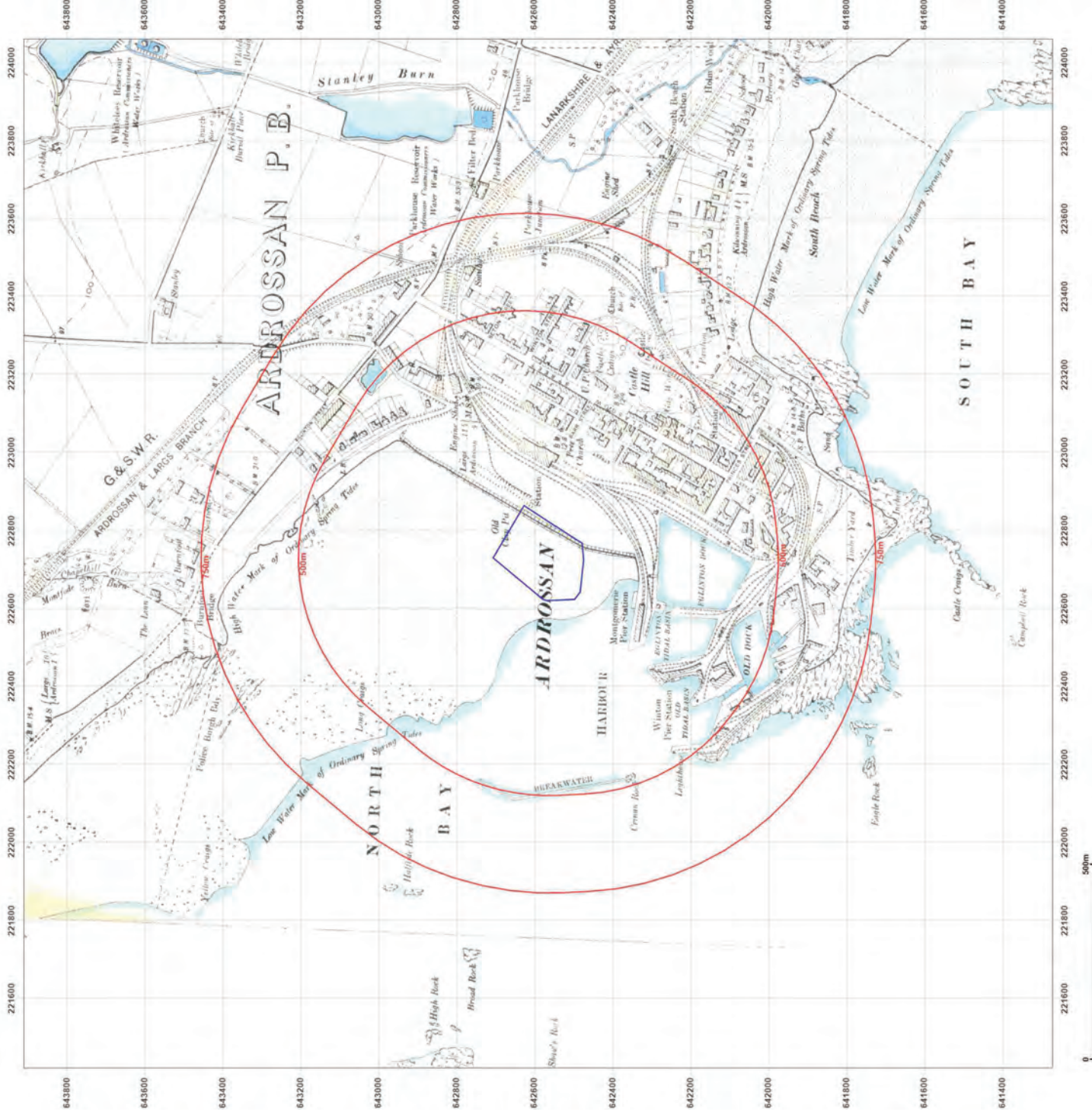


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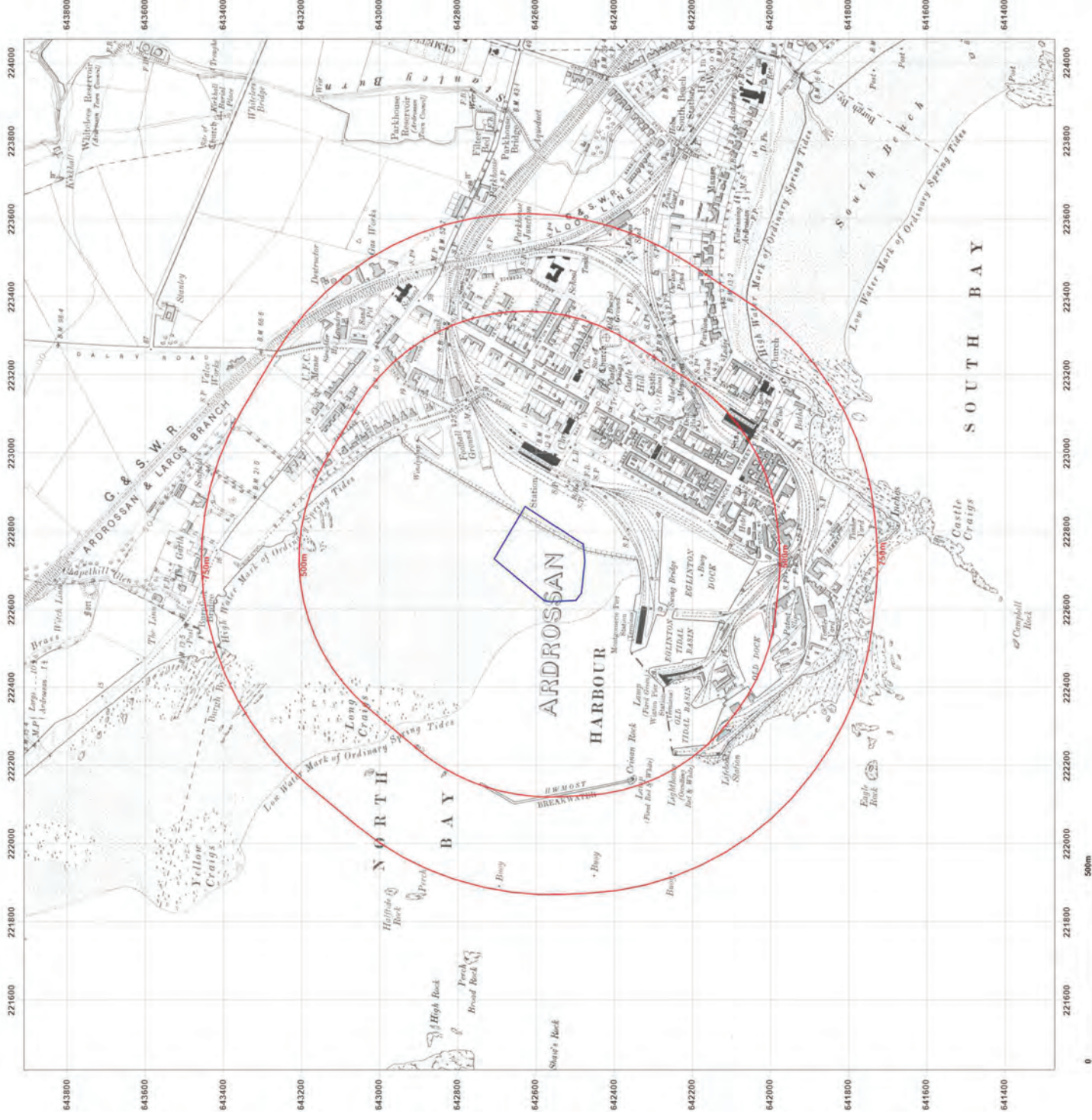
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Map legend available at:
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Map legend available at:
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Site Details:

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ARDROSSAN, KA22 8BF

Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1855
Revised 1938
Edition N/A
Copyright N/A
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ARDROSSAN, KA22 8BF

Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: Provisional

Map date: 1970

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1970
Revised 1970
Edition N/A
Copyright N/A
Levelled N/A

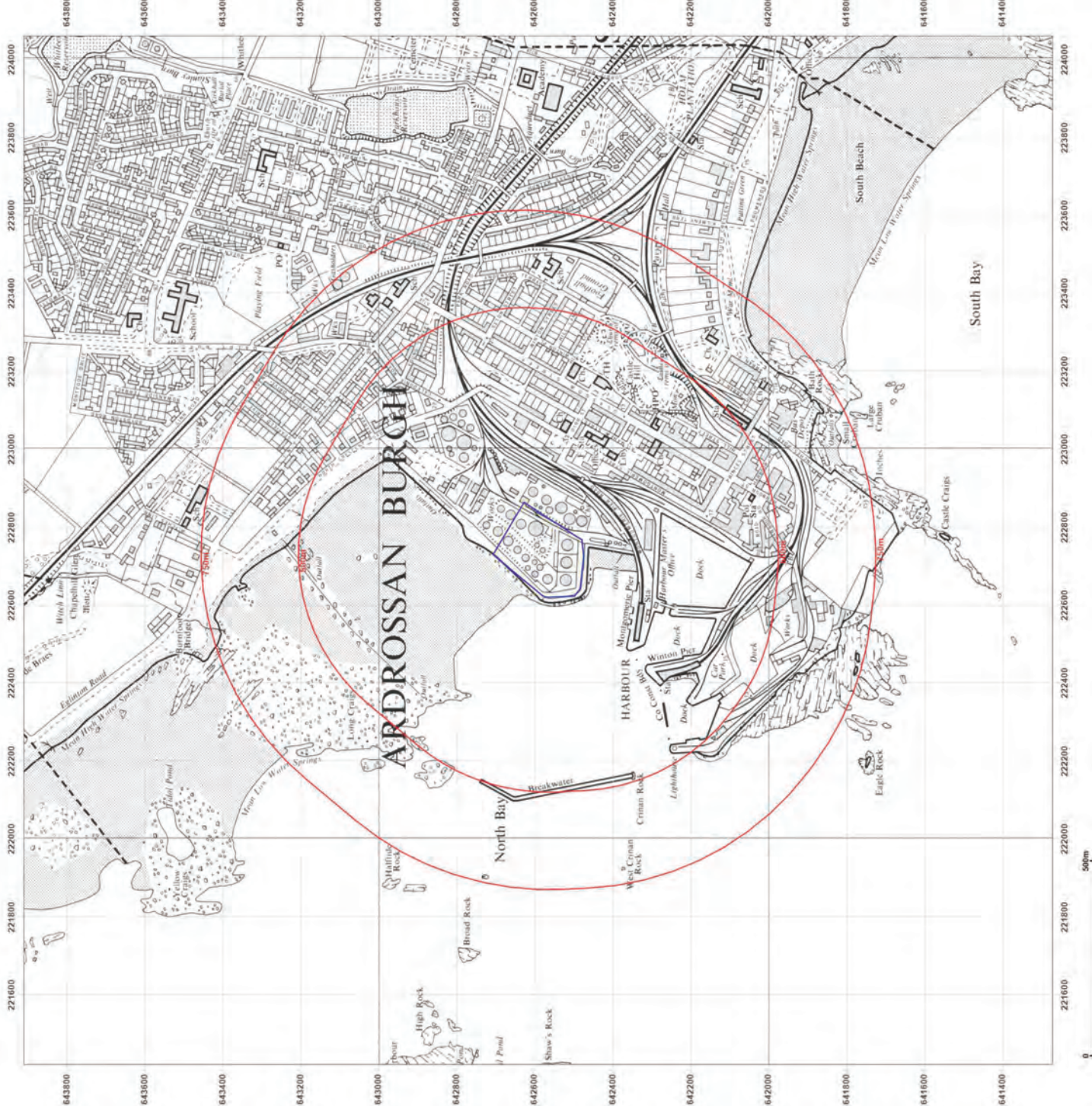


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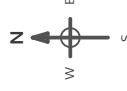
Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 1980

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

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Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

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Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

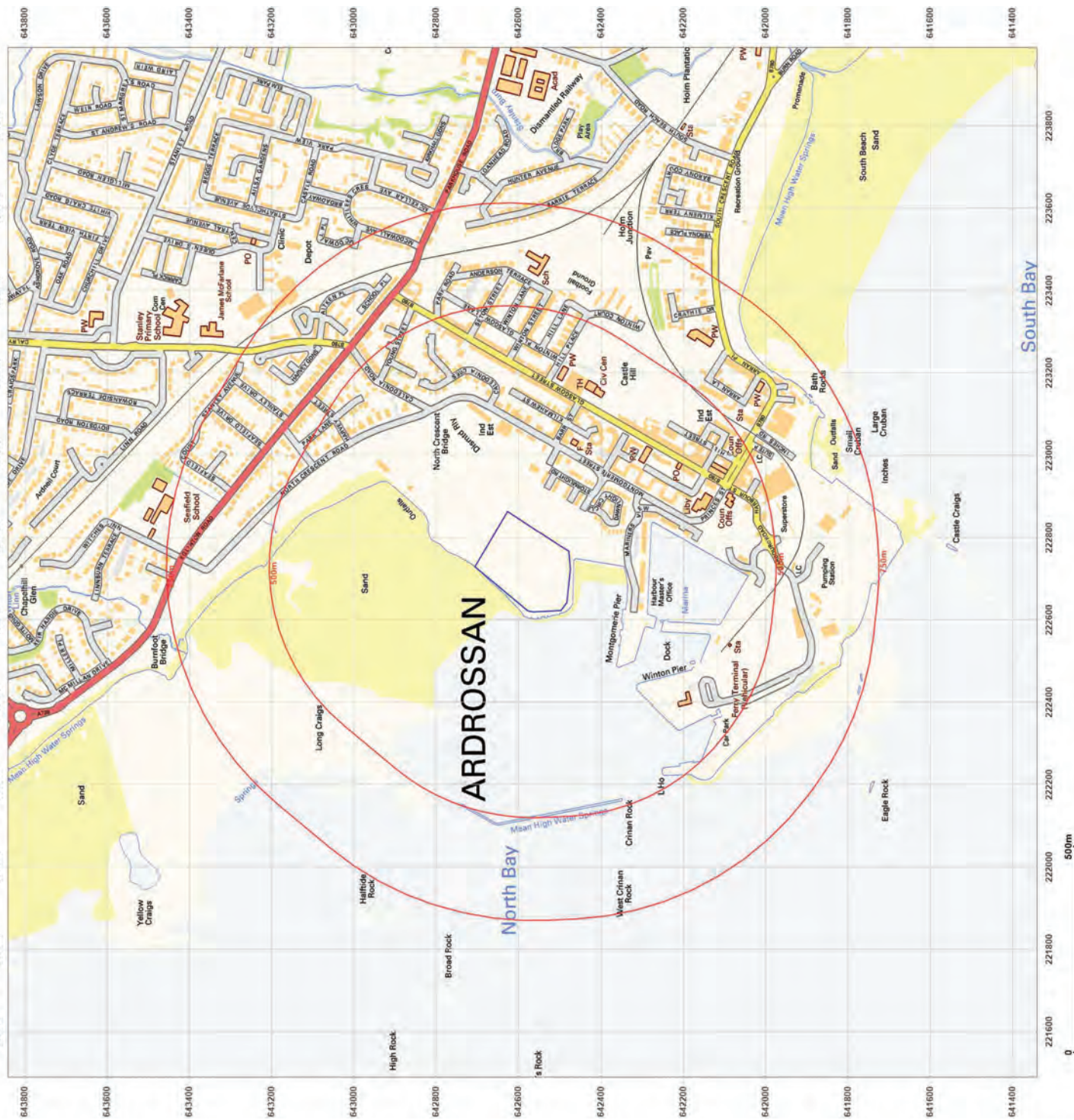


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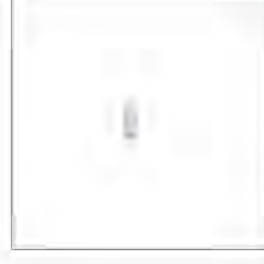
Client Ref: GGS3244
Report Ref: GS-PAM-V6C-T16-NNV
Grid Ref: 222740, 642590

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

Printed at: 1:10,000



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Appendix C

Periodic monitoring results



IMS Ref: GMPM
Version: 2.3

MONITORING WELL COMMENTS	
Extra Notes:	
Headworks: Raised / Ground Level Valve in rubber bung is clear and clean: Yes / No Area surrounding borehole is: Dry / Damp / Saturated / Flooded	

TIME (seconds)	Gas Flow Litres/hour	Gas Readings						
		CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)	
Fresh Air	0.0	0.0	0.0	20.5	NM	0	0	
Initial	0.0	0.0	0.0	20.2	NM	0	0	
30	0.0	0.0	0.5	20.0	NM	0	0	
60	0.0	0.0	0.5	19.9	NM	0	0	
120	0.0	0.0	0.5	19.9	NM	0	0	
180	0.0	0.0	0.5	19.9	NM	0	0	
240					NM			
300					NM			
360					NM			
420					NM			
480					NM			
540					NM			
600					NM			
Fresh Air					NM			

PROJECT DETAILS			
Project ID	GGS3244	Date	03/05/2023
Site	Ardrossan Academy	Time	14:22
Specialist			

EQUIPMENT	
Model	Serial Number

PRESSURE DETAILS	
Atmospheric Pressure - Met Office	Millibars 1025
Atmospheric Pressure - GFM	

BOREHOLE DETAILS						
Borehole ID	BHA					
Groundwater Level (mbgl)	3.17					
Depth to base (mbgl)	3.33					
What 3 Words						

STEADY STATE FINAL RESULTS						
Flow (l/hr)	180	CH ₄ (% v/v)	180	CO ₂ (% v/v)	180	O ₂ (% v/v)
Steady state time (s)	180	180	180	180	180	180
Steady state value	0.0	0.0	0.5	19.9	0	0
Peak Value (O ₂ Low)	0.0	0.0	0.5	19.9	0	0

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = millibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument, Met Office AP is relative to sea level, GFM AP is site specific measurement



IMS Ref: GMPM
Version: 2.3

MONITORING WELL COMMENTS	
Extra Notes:	
Headworks: Raised / Ground Level Valve in rubber bung is clear and clean: Yes / No Area surrounding borehole is: Dry / Damp / Saturated / Flooded	

TIME (seconds)	Gas Flow Litres/hour	Gas Readings								
		CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)	TVOC (ppmv)		
Fresh Air	0.0	0.0	0.0	20.6	NM	0	0	NM		
Initial	0.0	0.0	0.0	20.3	NM	0	0	0.0		
30	0.0	0.0	0.4	20.1	NM	0	0	0.4		
60	0.0	0.0	0.4	20.1	NM	0	0	2.2		
120	0.0	0.0	0.4	20.0	NM	0	0	3.4		
180	0.0	0.0	0.4	20.0	NM	0	0	3.0		
240					NM			2.7		
300					NM					
360					NM					
420					NM					
480					NM					
540					NM					
600					NM					
Fresh Air					NM					

PROJECT DETAILS			
Project ID	GGS3244	Date	03/05/2023
Site	Ardrossan Academy	Time	14:37
Specialist			

EQUIPMENT	
Model	Serial Number

PRESSURE DETAILS	
Atmospheric Pressure (mb)	Start: 1024 End:
Borehole Pressure (mb)	

BOREHOLE DETAILS		STEADY STATE FINAL RESULTS							
Borehole ID	BH_B	Flow (l/hr)	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)	TVOC (ppmv)
Groundwater Level (mbgl)	3.10	180	180	180	180	NM	180	180	240
Depth to base (mbgl)	3.25	0.0	0.0	0.4	20.0	NM	0	0	2.7
		0.0	0.0	0.4	20.0	NM	0	0	3.4

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument
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IMS Ref: GMPM
Version: 2.3

MONITORING WELL COMMENTS	
Extra Notes: Slight traces of fuel. Well disturbed before monitoring.	
Headworks: Raised / Ground Level	
Valve in rubber bung is clear and clean: Yes / No	
Area surrounding borehole is: Dry / Damp / Saturated / Flooded	

TIME (seconds)	Gas Flow Litres/hour	Gas Readings						
		CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)	
Fresh Air	0.0	0.0	0.0	20.4	NM	0	0	
Initial	0.0	0.0	0.0	20.5	NM	0	0	
30	0.0	0.0	1.1	18.1	NM	0	0	
60	0.0	0.0	1.2	18.0	NM	0	0	
120	0.0	0.0	1.6	17.4	NM	0	0	
180	0.0	0.0	2.0	16.6	NM	0	0	
240		0.0	2.1	16.4	NM	0	0	
300					NM			
360					NM			
420					NM			
480					NM			
540					NM			
600					NM			
Fresh Air					NM			

PROJECT DETAILS			
Project ID	GG53244	Date	04/05/2023
Site	Ardrossan Academy	Time	11:25
Specialist			

EQUIPMENT	
Model	Serial Number

PRESSURE DETAILS	
Atmospheric Pressure - Met Office	Millibars 1016
Atmospheric Pressure - GFM	

BOREHOLE DETAILS						
Borehole ID	BHC					
Groundwater Level (mbgl)	3.17					
Depth to base (mbgl)	3.44					
What 3 Words						

STEADY STATE FINAL RESULTS						
CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)	
240	240	240	NM	240	240	
0.0	2.1	16.4	NM	0	0	
0.0	2.1	16.4	NM	0	0	

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = millibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument, Met Office AP is relative to sea level, GFM AP is site specific measurement



IMS Ref: GMPM
Version: 2.3

MONITORING WELL COMMENTS	
Extra Notes: Black substance found on diptape when pulled back up.	
Headworks: Raised / Ground Level Valve in rubber bung is clear and clean: Yes / No Area surrounding borehole is: Dry / Damp / Saturated / Flooded	

TIME		Gas Flow	Gas Readings							
(seconds)		Litres/hour	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)	TVOC (ppmv)	
Fresh Air		0.0	0.0	0.0	20.6	NM	0	0	NM	
Initial		0.0	0.0	0.0	20.1	NM	0	0	1.1	
30		0.0	0.0	12.3	0.3	NM	0	0	28.5	
60		0.0	0.0	12.6	0.1	NM	0	0	32.9	
120		0.0	0.0	12.7	0.0	NM	0	0	35.4	
180		0.0	0.0	12.7	0.0	NM	0	0	37.6	
240						NM			38.8	
300						NM			39.1	
360						NM			38.8	
420						NM				
480						NM				
540						NM				
600						NM				
Fresh Air						NM				

PROJECT DETAILS			
Project ID	GGS3244	Date	03/05/2023
Site	Ardrossan Academy	Time	15.04
Specialist			

EQUIPMENT	
Model	Serial Number

PRESSURE DETAILS	
Atmospheric Pressure (mb)	Start: 1023 End:
Borehole Pressure (mb)	

BOREHOLE DETAILS		STEADY STATE FINAL RESULTS							
Borehole ID	BH_ID	Flow (l/hr)	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)	TVOC (ppmv)
Groundwater Level (mbgl)	2.46	180	180	180	180	NM	180	180	360
Depth to base (mbgl)	2.80	Steady state value	0.0	12.7	0.0	NM	0	0	38.8
		Peak Value (O ₂ Low)	0.0	12.7	0.0	NM	0	0	39.1

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument
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IMS Ref: GMPM
Version: 2.3

MONITORING WELL COMMENTS	
Extra Notes:	
Headworks: Raised / Ground Level Valve in rubber bung is clear and clean: Yes / No Area surrounding borehole is: Dry / Damp / Saturated / Flooded	

TIME		Gas Flow		Gas Readings						
(seconds)		Litres/hour		CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)	TVOC (ppmv)
Fresh Air		0.0		0.0	0.0	20.3	NM	0	0	NM
Initial		0.7		0.0	10.1		NM	0	0	0.0
30		1.0		0.0	2.5	15.9	NM	0	0	0.0
60		2.0		0.0	2.6	13.7	NM	0	0	0.0
120		2.5		0.0	2.6	13.4	NM	0	0	
180		2.1		0.0	3.1	12.9	NM	0	0	
240		1.5		0.0	3.4	12.5	NM	0	0	
300		2.2					NM			
360		1.3					NM			
420		0.9					NM			
480		1.0					NM			
540		1.9					NM			
600		1.9					NM			
Fresh Air		0.0		0.0	0.0	20.1	NM	0	0	

PRESSURE DETAILS		Start:	End:
Atmospheric Pressure (mb)		1017	
Borehole Pressure (mb)			

PROJECT DETAILS			
Project ID	GGS3244	Date	04/05/2023
Site	Ardrossan Academy	Time	10:46
Specialist			

EQUIPMENT		Serial Number
Model		

STEADY STATE FINAL RESULTS									
Flow (l/hr)		CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)	TVOC (ppmv)	
Steady state time (s)		240	240	240	NM	240	240	60	
Steady state value		0.0	3.4	12.5	NM	0	0	0.0	
Peak Value (O ₂ Low)		0.0	10.1	12.5	NM	0	0	0.0	

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument
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IMS Ref: GMPM
Version: 2.3

MONITORING WELL COMMENTS	
Extra Notes: Well disturbed before monitoring. Strong wind.	
Headworks: Raised / Ground Level	
Valve in rubber bung is clear and clean: Yes / No	
Area surrounding borehole is: Dry / Damp / Saturated / Flooded	

TIME		Gas Flow	Gas Readings					
(seconds)		Litres/hour	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)
Fresh Air		0.0	0.0	0.0	20.1	NM	0	0
Initial		0.4	0.0	0.0	20.2	NM	0	0
30		0.0	1.7	8.1	1.4	NM	0	0
60		0.0	1.8	8.3	1.1	NM	0	0
120		0.0	1.9	8.6	0.6	NM	0	0
180		0.1	2.0	8.7	0.2	NM	0	0
240			2.0	8.6	0.0	NM	0	0
300						NM		
360						NM		
420						NM		
480						NM		
540						NM		
600						NM		
Fresh Air		0.0	0.0	0.0	20.0	NM	0	0

PROJECT DETAILS			
Project ID	GG53244	Date	04/05/2023
Site	Ardrossan Academy	Time	11:55
Specialist			

EQUIPMENT	
Model	Serial Number

PRESSURE DETAILS	
Atmospheric Pressure - Met Office	Millibars
	1016
Atmospheric Pressure - GFM	

BOREHOLE DETAILS						
Borehole ID	BHC					
Groundwater Level (mbgl)	2.79					
Depth to base (mbgl)	2.80					
What 3 Words						

STEADY STATE FINAL RESULTS							
	Flow (l/hr)	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)
Steady state time (s)	180	240	240	240	NM	240	240
Steady state value	0.0	2.0	8.6	0.0	NM	0	0
Peak Value (O ₂ Low)	0.4	2.0	8.7	0.0	NM	0	0

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = millibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument, Met Office AP is relative to sea level, GFM AP is site specific measurement



IMS Ref: GMPM
Version: 2.3

PROJECT DETAILS			
Project ID	GG53244	Date	31/05/2023
Site	Ardrossan Academy	Time	12:05
Specialist	MA		

EQUIPMENT	
Model	Serial Number

PRESSURE DETAILS	
Atmospheric Pressure - Met Office	Millibars
Atmospheric Pressure - GFM	1030

BOREHOLE DETAILS	
Borehole ID	BHD
Groundwater Level (mbgl)	2.67
Depth to base (mbgl)	2.95
What 3 Words	

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = millibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument, Met Office AP is relative to sea level, GFM AP is site specific measurement
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MONITORING WELL COMMENTS									
Headworks: Raised / Ground Level Valve in rubber bung is clear and clean: Yes / No Area surrounding borehole is: Dry / Damp / Saturated / Flooded					Extra Notes: Well disturbed 1.5 hours before for instrument collection. Small amount of bitumen on probe.				
TIME (seconds)	Gas Flow Litres/hour	Gas Readings							
Fresh Air	0.0	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)		
Initial	0.0	0.0	-0.1	20.2	NM	0	0		
30	0.0	0.0	0.8	14.7	NM	0	0		
60	0.0	0.0	6.1	10.0	NM	0	0		
	0.0	0.0	6.7	9.1	NM	0	0		
120	0.0	0.0	8.4	7.2	NM	0	0		
180	0.0	0.0	10.3	4.8	NM	0	0		
240		0.0	12.5	2.0	NM	0	0		
300		0.0	13.7	0.3	NM	0	0		
360					NM				
420					NM				
480					NM				
540					NM				
600					NM				
Fresh Air					NM				

STEADY STATE FINAL RESULTS						
	Flow (l/hr)	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	H ₂ S (ppmv)
Steady state time (s)	180	300	300	300	NM	300
Steady state value	0.0	0.0	13.7	0.3	NM	0
Peak Value (O ₂ Low)	0.0	0.0	13.7	0.3	NM	0



IMS Ref: GMPM
Version: 2.3

MONITORING WELL COMMENTS	
Extra Notes: Well disturbed 1.5 hours before for instrument collection	
Headworks: Raised / Ground Level	
Valve in rubber bung is clear and clean: Yes / No	
Area surrounding borehole is: Dry / Damp / Saturated / Flooded	

TIME		Gas Flow	Gas Readings						
(seconds)		Litres/hour	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)	
Fresh Air		0.0	0.0	0.0	20.0	NM	0	0	
Initial		0.0	0.0	0.5	18.9	NM	0	0	
30		0.0	0.0	2.3	15.5	NM	0	0	
60		0.0	0.0	2.4	15.1	NM	0	0	
120		0.0	0.0	2.8	14.5	NM	0	0	
180		0.0	0.0	3.4	13.5	NM	0	0	
240			0.0	4.1	12.2	NM	0	0	
300			0.0	4.7	10.0	NM	0	0	
360						NM			
420						NM			
480						NM			
540						NM			
600						NM			
Fresh Air						NM			

PROJECT DETAILS			
Project ID	GG53244	Date	31/05/2023
Site	Ardrossan Academy	Time	12:19
Specialist	MA		

EQUIPMENT	
Model	Serial Number

PRESSURE DETAILS	
Atmospheric Pressure - Met Office	Millibars
Atmospheric Pressure - GFM	1030

BOREHOLE DETAILS				STEADY STATE FINAL RESULTS					
Borehole ID	BHE	Flow (l/hr)		CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)
Groundwater Level (mbgl)	Dry	180	Steady state time (s)	300	300	300	NM	300	300
Depth to base (mbgl)	4.94	0.0	Steady state value	0.0	4.7	10.0	NM	0	0
What 3 Words		0.0	Peak Value (O ₂ Low)	0.0	4.7	10.0	NM	0	0

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = millibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument, Met Office AP is relative to sea level, GFM AP is site specific measurement



IMS Ref: GMPM
Version: 2.3

PROJECT DETAILS			
Project ID	GG53244	Date	31/05/2023
Site	Ardrossan Academy	Time	13:20
Specialist	MA		

EQUIPMENT	
Model	Serial Number

PRESSURE DETAILS	
Atmospheric Pressure - Met Office	Millibars
Atmospheric Pressure - GFM	1028

BOREHOLE DETAILS	
Borehole ID	BHF
Groundwater Level (mbgl)	Dry
Depth to base (mbgl)	2.86
What 3 Words	

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = millibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument, Met Office AP is relative to sea level, GFM AP is site specific measurement

MONITORING WELL COMMENTS	
Extra Notes: Well disturbed 1.5 hours before for instrument collection	
Headworks: Raised / Ground Level Valve in rubber bung is clear and clean: Yes / No Area surrounding borehole is: Dry / Damp / Saturated / Flooded	

TIME (seconds)	Gas Flow Litres/hour	Gas Readings			
		CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL
Fresh Air	0.0	0.0	0.0	20.6	NM
Initial	0.0	0.0	0.0	11.2	NM
30	2.0	1.2	8.8	0.2	NM
60	2.1	1.3	8.9	0.1	NM
120	2.4	1.3	8.9	0.1	NM
180	2.6	1.3	8.9	0.0	NM
240	2.4				NM
300					NM
360					NM
420					NM
480					NM
540					NM
600					NM
Fresh Air					NM

STEADY STATE FINAL RESULTS					
CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)
180	180	180	NM	180	180
1.3	8.9	0.0	NM	0	0
1.3	8.9	0.0	NM	0	0



IMS Ref: GMPM
Version: 2.3

MONITORING WELL COMMENTS	
Extra Notes:	
Headworks: Raised / Ground Level Valve in rubber bung is clear and clean: Yes / No Area surrounding borehole is: Dry / Damp / Saturated / Flooded	

TIME		Gas Flow	Gas Readings					
(seconds)		Litres/hour	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)
Fresh Air		0.0	0.0	0.0	20.2	NM	0	0
Initial		0.0	0.0	0.2	20.0	NM	0	0
30		0.0	0.0	0.4	19.9	NM	0	0
60		0.0	0.0	0.4	19.8	NM	0	0
120		0.0	0.0	0.5	19.7	NM	0	0
180		0.0	0.0	0.6	19.7	NM	0	0
240								
300								
360								
420								
480								
540								
600								
Fresh Air						100.0		

PROJECT DETAILS			
Project ID	GG53244	Date	31/05/2023
Site	Ardrossan Academy	Time	12:36
Specialist	MR		

EQUIPMENT	
Model	Serial Number
GasData GFM 436	13585

PRESSURE DETAILS	
Atmospheric Pressure - Met Office	Millibars
Atmospheric Pressure - GFM	1030

STEADY STATE FINAL RESULTS						
Borehole ID	BHA	Flow (l/hr)	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	H ₂ S (ppmv)
Groundwater Level (mbgl)	DRY	180	180	180	180	180
Depth to base (mbgl)	3.40	0.0	0.0	0.6	19.7	0
What 3 Words		0.0	0.0	0.6	19.7	0.0

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = millibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument, Met Office AP is relative to sea level, GFM AP is site specific measurement



IMS Ref: GMPM
Version: 2.3

MONITORING WELL COMMENTS	
Extra Notes:	
Headworks: Raised / Ground Level Valve in rubber bung is clear and clean: Yes / No Area surrounding borehole is: Dry / Damp / Saturated / Flooded	

TIME		Gas Flow	Gas Readings					
(seconds)		Litres/hour	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)
Fresh Air		0.0	0.0	0.0	20.4	NM	0	0
		0.0	0.0	0.0	20.2	NM	0	0
Initial		0.0	0.0	0.1	20.2	NM	0	0
30		0.0	0.0	0.2	20.1	NM	0	0
60		0.0	0.0	0.2	20.1	NM	0	0
120		0.0	0.0	0.2	20.1	NM	0	0
180		0.0	0.0	0.3	20.0	NM	0	0
240								
300								
360								
420								
480								
540								
600								
						100.0		
Fresh Air								

PROJECT DETAILS			
Project ID	GG53244	Date	31/05/2023
Site	Ardrossan Academy	Time	12:50
Specialist	MR		

EQUIPMENT	
Model	Serial Number
GasData GFM 436	13585

PRESSURE DETAILS	
Atmospheric Pressure - Met Office	Millibars
Atmospheric Pressure - GFM	1030

STEADY STATE FINAL RESULTS						
Borehole ID	BHB	Flow (l/hr)	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	H ₂ S (ppmv)
Groundwater Level (mbgl)	DRY	180	180	180	180	180
Depth to base (mbgl)	3.26	0.0	0.0	0.3	20.0	0
What 3 Words		0.0	0.0	0.3	20.0	0.0

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, mb = millibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument, Met Office AP is relative to sea level, GFM AP is site specific measurement



IMS Ref: GMPM
Version: 2.3

MONITORING WELL COMMENTS	
Extra Notes:	
Headworks: Raised / Ground Level Valve in rubber bung is clear and clean: Yes / No Area surrounding borehole is: Dry / Damp / Saturated / Flooded	

TIME		Gas Flow	Gas Readings					
(seconds)		Litres/hour	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)
Fresh Air		0.0	0.0	0.0	20.6	NM	0	0
	Initial	0.0	0.0	0.0	20.5	NM	0	0
	30	0.0	0.0	0.9	19.0	NM	0	0
	60	0.0	0.0	1.0	18.9	NM	0	0
	120	0.0	0.0	1.3	18.6	NM	0	0
	180	0.0	0.0	1.6	18.3	NM	0	0
	240		0.0	1.8	17.9			
	300							
	360							
	420							
	480							
	540							
	600							
Fresh Air						100.0		

PROJECT DETAILS			
Project ID	GG53244	Date	31/05/2023
Site	Ardrossan Academy	Time	13:05
Specialist	MR		

EQUIPMENT	
Model	Serial Number
GasData GFM 436	13585

PRESSURE DETAILS	
Atmospheric Pressure - Met Office	Millibars
Atmospheric Pressure - GFM	1030

BOREHOLE DETAILS				STEADY STATE FINAL RESULTS					
Borehole ID	BHC	Flow (l/hr)		CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	BAL	CO (ppmv)	H ₂ S (ppmv)
Groundwater Level (mbgl)	3.32	180	Steady state time (s)	180	180	180	NM	180	180
Depth to base (mbgl)	3.45	0.0	Steady state value	0.0	1.8	17.9	NM	0	0
What 3 Words		0.0	Peak Value (O ₂ Low)	0.0	1.6	17.9	NM	0.0	0.0

KEY: <0.1= Below instrument limit of detection, NM = Not Measured, N/A = Not Applicable, %v/v = Percentage volume by volume, mb = millibar, ltr/hr = litres per hour, mbgl = metres below ground level, OS = off scale of instrument, Met Office AP is relative to sea level, GFM AP is site specific measurement

Appendix D

Continuous ground gas monitoring time series data

For Envirocentre Ltd.

Ref No. GGS3244GGRA_V1

Date: 23/05/2023



Time Series Data

Project Ref:	GG3244
Project Name:	Ardrossan Academy
Borehole ref:	EC-BH13
Instrument Name and ID:	GC 126/03/10
Start Date:	04/05/2023 16:54
End Date:	31/05/2023 00:53
Days of monitoring:	26
Monitoring Frequency (mins):	60
Total samples taken:	633



Summary Table

	CH ₄	CO ₂	O ₂	CO	H ₂ S	Borehole Pressure	Atmospheric Pressure	Differential Pressure	Average 8-hour atmospheric pressure change	Flow	Temperature	Water Level
Minimum	0.0	0.0	0.0	0	0	1003	1005	0	-0.53	-2.48	11.4	2.77
Maximum	2.1	0.0	21.0	5	0	1030	1032	4	0.75	4.00	22.9	2.84
Range	2.1	0.0	21.0	5	0	27	27	N/A	1.28	6.48	11.5	0.07

Date and Time	CH ₄	CO ₂	O ₂	CO	H ₂ S	Borehole Pressure	Atmospheric Pressure	Differential Pressure	Average 8-hour atmospheric pressure change	Flow	Temperature	Water Level
	% v/v	% v/v	% v/v	ppm/v	ppm/v	mbar	mbar	mbar	mbar	Ltr/hr	°C	mbgl
04/05/2023 16:54	0.0	0.0	21.0	4	0	1011	1012	1	N/A	0.51	17.6	2.79
04/05/2023 17:53	0.8	0.0	0.6	4	0	1011	1012	1	N/A	1.05	16.3	2.79
04/05/2023 18:53	1.2	0.0	0.0	4	0	1010	1012	2	N/A	-0.10	15.9	2.79
04/05/2023 19:53	0.4	0.0	11.3	4	0	1010	1012	2	N/A	0.21	15.2	2.80
04/05/2023 20:53	0.8	0.0	0.4	4	0	1010	1011	1	N/A	0.12	14.5	2.80
04/05/2023 21:53	0.8	0.0	2.7	4	0	1010	1010	0	N/A	1.19	13.8	2.79
04/05/2023 22:53	1.2	0.0	0.0	5	0	1009	1010	1	N/A	1.14	13.3	2.79
04/05/2023 23:53	1.2	0.0	0.0	4	0	1009	1010	1	N/A	0.21	12.8	2.78
05/05/2023 00:53	1.2	0.0	0.0	4	0	1008	1008	0	-0.46	1.57	12.4	2.77
05/05/2023 01:53	1.2	0.0	0.0	4	0	1008	1008	0	-0.48	1.08	12.1	2.77
05/05/2023 02:53	1.2	0.0	0.0	4	0	1007	1008	1	-0.51	0.69	11.9	2.78
05/05/2023 03:53	1.2	0.0	0.0	4	0	1006	1007	1	-0.52	0.55	11.8	2.78
05/05/2023 04:53	1.2	0.0	0.0	4	0	1006	1007	1	-0.43	0.89	11.7	2.78
05/05/2023 05:53	1.2	0.0	0.0	4	0	1005	1007	2	-0.42	0.45	11.6	2.79
05/05/2023 06:53	1.2	0.0	0.0	4	0	1005	1007	2	-0.37	0.19	11.6	2.79
05/05/2023 07:53	1.7	0.0	0.0	4	0	1005	1007	2	-0.15	-0.21	11.6	2.80
05/05/2023 08:53	0.4	0.0	16.1	3	0	1005	1007	2	-0.05	-0.23	11.7	2.81
05/05/2023 09:53	0.4	0.0	19.1	3	0	1005	1007	2	-0.02	-0.62	11.8	2.81
05/05/2023 10:53	0.4	0.0	19.8	3	0	1005	1008	3	0.08	-0.29	12.2	2.81
05/05/2023 11:53	0.4	0.0	20.0	3	0	1006	1007	1	0.07	-0.40	12.8	2.81
05/05/2023 12:53	0.4	0.0	20.2	3	0	1006	1008	2	0.12	-0.14	13.4	2.81
05/05/2023 13:53	0.4	0.0	20.3	3	0	1006	1008	2	0.11	-0.44	14.3	2.81
05/05/2023 14:53	0.4	0.0	20.5	3	0	1006	1008	2	0.12	0.22	15.4	2.81
05/05/2023 15:53	0.4	0.0	20.5	3	0	1006	1008	2	0.08	-0.11	16.0	2.81
05/05/2023 16:53	0.4	0.0	20.5	3	0	1006	1008	2	0.07	-0.16	16.5	2.80
05/05/2023 17:53	0.4	0.0	20.6	3	0	1006	1008	2	0.05	-0.28	16.8	2.81
05/05/2023 18:53	0.4	0.0	20.7	3	0	1006	1008	2	0.13	-0.78	17.1	2.81
05/05/2023 19:53	0.4	0.0	20.7	3	0	1006	1009	3	0.14	-0.64	16.8	2.82
05/05/2023 20:53	0.0	0.0	20.6	3	0	1007	1009	2	0.16	-0.58	16.2	2.82
05/05/2023 21:53	0.0	0.0	20.6	3	0	1007	1009	2	0.14	0.02	15.4	2.81
05/05/2023 22:53	0.4	0.0	20.5	3	0	1007	1009	2	0.13	0.08	14.9	2.81
05/05/2023 23:53	0.4	0.0	20.5	4	0	1007	1009	2	0.11	0.02	14.5	2.80
06/05/2023 00:53	0.0	0.0	20.3	4	0	1007	1009	2	0.10	-0.03	14.2	2.80
06/05/2023 01:53	0.0	0.0	17.0	4	0	1007	1009	2	0.05	-0.07	13.8	2.80
06/05/2023 02:53	0.0	0.0	17.4	4	0	1007	1009	2	0.00	0.11	13.5	2.80
06/05/2023 03:53	0.0	0.0	17.2	4	0	1007	1009	2	-0.02	-0.15	13.3	2.80
06/05/2023 04:53	0.0	0.0	18.4	4	0	1007	1009	2	0.01	-0.60	13.1	2.80
06/05/2023 05:53	0.0	0.0	19.9	4	0	1007	1010	3	0.06	-0.80	12.9	2.81
06/05/2023 06:53	0.0	0.0	20.3	4	0	1007	1010	3	0.15	-0.63	12.8	2.81
06/05/2023 07:53	0.0	0.0	20.3	4	0	1008	1010	2	0.18	0.00	12.8	2.82
06/05/2023 08:53	0.0	0.0	20.3	4	0	1008	1010	2	0.18	-0.04	13.2	2.81
06/05/2023 09:53	0.0	0.0	20.4	4	0	1008	1010	2	0.15	0.16	13.6	2.81
06/05/2023 10:53	0.0	0.0	20.4	3	0	1008	1010	2	0.16	-0.21	14.1	2.80
06/05/2023 11:53	0.0	0.0	19.4	4	0	1008	1010	2	0.13	0.08	14.6	2.80
06/05/2023 12:53	0.0	0.0	19.6	4	0	1008	1010	2	0.12	-0.47	15.1	2.81
06/05/2023 13:53	0.0	0.0	19.6	3	0	1008	1010	2	0.02	0.60	15.8	2.81
06/05/2023 14:53	0.0	0.0	20.5	3	0	1009	1010	1	-0.05	0.60	16.5	2.80
06/05/2023 15:53	0.0	0.0	18.8	4	0	1008	1010	2	-0.05	-0.02	16.8	2.80
06/05/2023 16:53	0.0	0.0	1.2	4	0	1008	1010	2	-0.04	0.24	17.0	2.80
06/05/2023 17:53	0.0	0.0	11.0	3	0	1008	1010	2	-0.05	-0.35	17.0	2.80
06/05/2023 18:53	0.4	0.0	7.7	4	0	1008	1010	2	-0.05	-0.25	16.9	2.80
06/05/2023 19:53	0.0	0.0	18.7	3	0	1008	1010	2	-0.05	-0.30	16.6	2.81
06/05/2023 20:53	0.0	0.0	19.6	3	0	1008	1010	2	0.00	-0.24	16.1	2.81
06/05/2023 21:53	0.0	0.0	20.2	3	0	1008	1011	3	0.07	-0.53	15.6	2.81
06/05/2023 22:53	0.0	0.0	20.3	3	0	1008	1011	3	0.11	-0.59	15.0	2.81
06/05/2023 23:53	0.0	0.0	20.4	3	0	1009	1011	2	0.16	-0.44	14.5	2.81
07/05/2023 00:53	0.0	0.0	20.4	3	0	1009	1011	2	0.20	-0.25	14.1	2.81
07/05/2023 01:53	0.0	0.0	20.4	3	0	1009	1011	2	0.19	-0.53	13.8	2.81
07/05/2023 02:53	0.0	0.0	20.4	4	0	1010	1012	2	0.19	0.02	13.5	2.81
07/05/2023 03:53	0.0	0.0	20.4	3	0	1010	1012	2	0.15	-0.31	13.2	2.80
07/05/2023 04:53	0.0	0.0	20.4	4	0	1010	1012	2	0.15	-0.55	12.9	2.81
07/05/2023 05:53	0.0	0.0	20.3	3	0	1010	1012	2	0.21	-0.46	12.6	2.81
07/05/2023 06:53	0.0	0.0	20.3	4	0	1010	1013	3	0.20	-0.80	12.5	2.81
07/05/2023 07:53	0.0	0.0	20.3	4	0	1011	1013	2	0.24	-0.90	12.7	2.82
07/05/2023 08:53	0.0	0.0	20.3	3	0	1011	1013	2	0.26	-0.50	13.1	2.82
07/05/2023 09:53	0.0	0.0	20.4	4	0	1011	1013	2	0.19	-0.07	13.7	2.81
07/05/2023 10:53	0.0	0.0	20.4	3	0	1011	1013	2	0.24	-0.06	14.2	2.81
07/05/2023 11:53	0.0	0.0	20.4	3	0	1011	1013	2	0.17	-0.08	15.2	2.80
07/05/2023 12:53	0.0	0.0	20.5	3	0	1012	1013	1	0.12	-0.41	16.4	2.80
07/05/2023 13:53	0.0	0.0	20.4	3	0	1012	1014	2	0.10	-0.23	17.3	2.81
07/05/2023 14:53	0.0	0.0	20.6	3	0	1012	1014	2	0.04	0.46	17.9	2.80
07/05/2023 15:53	0.0	0.0	20.6	3	0	1012	1013	1	-0.01	0.30	18.4	2.80
07/05/2023 16:53	0.0	0.0	18.3	3	0	1011	1013	2	0.01	0.58	18.9	2.80
07/05/2023 17:53	0.0	0.0	10.3	3	0	1011	1013	2	-0.02	-0.81	19.2	2.80
07/05/2023 18:53	0.0	0.0	4.0	4	0	1011	1013	2	0.00	-0.54	19.2	2.80
07/05/2023 19:53	0.0	0.0	19.4	3	0	1011	1013	2	-0.03	-0.23	18.5	2.80
07/05/2023 20:53	0.0	0.0	20.0	2	0	1011	1013	2	-0.06	0.05	17.6	2.81
07/05/2023 21:53	0.0	0.0	20.1	3	0	1011	1013	2	-0.11	1.12	16.9	2.80
07/05/2023 22:53	0.0	0.0	19.6	3	0	1011	1012	1	-0.17	0.70	16.3	2.79
07/05/2023 23:53	0.4	0.0	0.5	4	0	1011	1011	0	-0.22	0.74	15.9	2.79
08/05/2023 00:53	0.4	0.0	0.0	5	0	1010	1011	1	-0.32	0.77	15.5	2.78
08/05/2023 01:53	0.4	0.0	0.0	4	0	1010	1010	0	-0.38	0.79	15.1	2.78
08/05/2023 02:53	0.8	0.0	0.0	5	0	1009	1010	1	-0.45	0.73	14.9	2.78
08/05/2023 03:53	0.8	0.0	0.0	5	0	1008	1009	1	-0.52	0.74	14.6	2.78
08/05/2023 04:53	0.8	0.0	0.0	5	0	1008	1009	1	-0.46	0.03	14.4	2.78
08/05/2023 05:53	0.8	0.0	0.0	5	0	1007	1009	2	-0.37	0.26	14.3	2.79
08/05/2023 06:53	0.8	0.0	0.4	4	0	1007	1009	2</				

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
08/05/2023 14:53	0.4	0.0	19.6	2	0	1007	1009	2	0.01	0.02	14.7	2.80
08/05/2023 15:53	0.4	0.0	18.4	2	0	1007	1008	1	-0.02	1.21	14.8	2.80
08/05/2023 16:53	0.4	0.0	6.2	4	0	1007	1008	1	-0.04	0.26	14.8	2.80
08/05/2023 17:53	0.8	0.0	0.0	5	0	1007	1008	1	-0.08	0.12	14.9	2.79
08/05/2023 18:53	0.8	0.0	0.0	5	0	1006	1008	2	-0.09	-1.08	15.2	2.80
08/05/2023 19:53	0.8	0.0	0.0	5	0	1006	1009	3	-0.02	-0.49	15.1	2.81
08/05/2023 20:53	0.4	0.0	16.5	0	0	1006	1008	2	-0.14	4.00	14.9	2.80
08/05/2023 21:53	0.4	0.0	18.8	1	0	1007	1008	1	-0.08	0.12	14.8	2.80
08/05/2023 22:53	0.4	0.0	0.2	4	0	1006	1008	2	-0.06	0.58	14.5	2.80
08/05/2023 23:53	0.4	0.0	9.2	3	0	1006	1008	2	-0.07	0.71	14.3	2.79
09/05/2023 00:53	0.4	0.0	0.5	5	0	1006	1007	1	-0.08	0.20	14.2	2.80
09/05/2023 01:53	0.8	0.0	0.0	5	0	1006	1007	1	-0.08	0.27	14.1	2.80
09/05/2023 02:53	0.8	0.0	0.0	5	0	1006	1007	1	-0.17	0.02	14.0	2.80
09/05/2023 03:53	1.2	0.0	0.0	5	0	1006	1007	1	-0.06	0.27	13.9	2.80
09/05/2023 04:53	1.2	0.0	0.0	5	0	1006	1007	1	-0.11	0.31	13.6	2.80
09/05/2023 05:53	1.2	0.0	0.0	5	0	1006	1007	1	-0.06	0.66	13.4	2.80
09/05/2023 06:53	1.2	0.0	0.0	4	0	1006	1007	1	-0.07	0.14	13.4	2.80
09/05/2023 07:53	1.2	0.0	0.0	5	0	1005	1007	2	-0.04	-0.25	13.4	2.80
09/05/2023 08:53	1.2	0.0	0.0	4	0	1005	1008	3	0.01	-0.31	14.0	2.80
09/05/2023 09:53	0.8	0.0	10.9	0	0	1005	1008	3	0.02	0.20	14.9	2.81
09/05/2023 10:53	0.4	0.0	18.8	0	0	1006	1007	1	-0.05	0.32	15.8	2.80
09/05/2023 11:53	0.4	0.0	19.2	0	0	1006	1007	1	-0.05	0.26	16.2	2.80
09/05/2023 12:53	0.8	0.0	1.8	4	0	1005	1007	2	-0.06	-0.05	16.3	2.80
09/05/2023 13:53	0.8	0.0	0.0	5	0	1005	1007	2	-0.02	0.71	16.8	2.80
09/05/2023 14:53	1.2	0.0	0.0	5	0	1005	1007	2	-0.05	0.46	17.6	2.80
09/05/2023 15:53	1.2	0.0	0.0	5	0	1005	1007	2	-0.11	-0.39	18.3	2.80
09/05/2023 16:53	1.2	0.0	0.0	5	0	1005	1007	2	-0.10	0.09	18.8	2.80
09/05/2023 17:53	0.8	0.0	7.9	0	0	1005	1006	1	-0.08	0.32	19.1	2.80
09/05/2023 18:53	0.8	0.0	12.3	0	0	1005	1006	1	-0.05	-0.56	19.0	2.80
09/05/2023 19:53	1.2	0.0	0.7	4	0	1004	1007	3	-0.04	-0.55	18.2	2.80
09/05/2023 20:53	0.4	0.0	18.3	0	0	1004	1007	3	-0.05	-0.26	17.3	2.80
09/05/2023 21:53	0.4	0.0	19.8	1	0	1005	1006	1	-0.03	0.40	16.6	2.80
09/05/2023 22:53	0.4	0.0	19.7	2	0	1005	1006	1	-0.05	0.34	16.2	2.80
09/05/2023 23:53	0.4	0.0	11.0	3	0	1004	1006	2	-0.09	0.66	15.7	2.80
10/05/2023 00:53	0.8	0.0	0.3	5	0	1004	1006	2	-0.09	0.42	15.3	2.79
10/05/2023 01:53	1.2	0.0	0.0	5	0	1004	1005	1	-0.13	0.30	15.1	2.79
10/05/2023 02:53	1.2	0.0	0.0	5	0	1004	1005	1	-0.17	0.23	14.8	2.79
10/05/2023 03:53	1.2	0.0	0.0	5	0	1004	1005	1	-0.17	-0.17	14.6	2.79
10/05/2023 04:53	1.2	0.0	0.0	5	0	1004	1005	1	-0.16	-0.34	14.4	2.80
10/05/2023 05:53	1.2	0.0	0.0	5	0	1003	1005	2	-0.13	-0.26	14.2	2.80
10/05/2023 06:53	1.2	0.0	5.9	1	0	1003	1005	2	-0.08	-0.59	14.1	2.80
10/05/2023 07:53	0.4	0.0	18.1	0	0	1004	1006	2	0.00	-0.45	14.1	2.81
10/05/2023 08:53	0.4	0.0	19.5	0	0	1004	1006	2	0.05	-0.04	14.1	2.81
10/05/2023 09:53	0.4	0.0	20.0	1	0	1004	1006	2	0.07	-0.09	14.2	2.81
10/05/2023 10:53	0.4	0.0	20.2	1	0	1004	1006	2	0.08	0.00	14.4	2.81
10/05/2023 11:53	0.4	0.0	20.3	2	0	1004	1006	2	0.09	-0.63	14.8	2.81
10/05/2023 12:53	0.4	0.0	20.3	2	0	1004	1006	2	0.09	-0.34	15.3	2.80
10/05/2023 13:53	0.4	0.0	20.3	2	0	1004	1006	2	0.08	-0.32	15.8	2.81
10/05/2023 14:53	0.4	0.0	20.5	2	0	1004	1006	2	0.07	-0.58	16.9	2.81
10/05/2023 15:53	0.4	0.0	20.6	2	0	1004	1007	3	0.11	-0.69	17.3	2.81
10/05/2023 16:53	0.4	0.0	20.6	1	0	1004	1007	3	0.16	-0.57	17.5	2.81
10/05/2023 17:53	0.4	0.0	20.6	2	0	1005	1007	2	0.19	-0.35	17.9	2.82
10/05/2023 18:53	0.4	0.0	20.7	2	0	1005	1008	3	0.21	-0.60	18.2	2.82
10/05/2023 19:53	0.4	0.0	20.7	2	0	1005	1008	3	0.23	-0.30	17.9	2.82
10/05/2023 20:53	0.4	0.0	20.6	2	0	1006	1008	2	0.23	0.01	17.1	2.81
10/05/2023 21:53	0.4	0.0	20.6	2	0	1006	1008	2	0.21	-0.28	16.3	2.81
10/05/2023 22:53	0.4	0.0	20.5	3	0	1006	1008	2	0.16	-0.40	15.6	2.81
10/05/2023 23:53	0.4	0.0	20.5	3	0	1006	1008	2	0.13	-0.47	15.2	2.81
11/05/2023 00:53	0.0	0.0	20.5	3	0	1006	1008	2	0.13	-0.83	14.8	2.81
11/05/2023 01:53	0.4	0.0	20.4	3	0	1006	1009	3	0.13	-0.77	14.5	2.81
11/05/2023 02:53	0.4	0.0	20.4	3	0	1007	1009	2	0.14	-0.92	14.3	2.81
11/05/2023 03:53	0.4	0.0	20.4	3	0	1007	1009	2	0.18	-1.16	14.2	2.81
11/05/2023 04:53	0.0	0.0	20.4	3	0	1007	1010	3	0.25	-1.88	14.0	2.82
11/05/2023 05:53	0.4	0.0	20.4	3	0	1007	1011	4	0.33	-1.11	13.8	2.82
11/05/2023 06:53	0.4	0.0	20.4	3	0	1008	1012	4	0.43	-1.74	13.7	2.83
11/05/2023 07:53	0.4	0.0	20.4	3	0	1009	1012	3	0.48	-0.85	13.7	2.83
11/05/2023 08:53	0.0	0.0	20.4	3	0	1010	1013	3	0.54	-1.88	13.8	2.83
11/05/2023 09:53	0.0	0.0	20.4	3	0	1010	1014	4	0.58	-0.93	14.4	2.83
11/05/2023 10:53	0.0	0.0	20.5	3	0	1011	1014	3	0.61	-0.95	14.9	2.83
11/05/2023 11:53	0.0	0.0	20.5	2	0	1012	1015	3	0.58	-0.70	15.5	2.83
11/05/2023 12:53	0.0	0.0	20.5	2	0	1012	1015	3	0.55	-1.62	15.7	2.82
11/05/2023 13:53	0.4	0.0	20.5	2	0	1013	1015	2	0.49	-1.29	15.9	2.82
11/05/2023 14:53	0.0	0.0	20.5	2	0	1013	1016	3	0.49	-2.25	16.6	2.82
11/05/2023 15:53	0.4	0.0	20.6	2	0	1014	1017	3	0.55	-1.38	17.0	2.83
11/05/2023 16:53	0.4	0.0	20.6	2	0	1014	1018	4	0.56	-1.62	17.0	2.83
11/05/2023 17:53	0.0	0.0	20.6	2	0	1015	1019	4	0.60	-2.48	17.3	2.84
11/05/2023 18:53	0.0	0.0	20.6	2	0	1016	1020	4	0.63	-1.76	17.5	2.84
11/05/2023 19:53	0.0	0.0	20.6	2	0	1017	1021	4	0.74	-1.04	17.6	2.84
11/05/2023 20:53	0.0	0.0	20.6	2	0	1018	1021	3	0.75	-2.17	17.0	2.84
11/05/2023 21:53	0.4	0.0	20.6	3	0	1019	1022	3	0.74	-1.71	16.3	2.84
11/05/2023 22:53	0.0	0.0	20.5	3	0	1019	1023	4	0.73	-0.77	15.6	2.84
11/05/2023 23:53	0.0	0.0	20.5	3	0	1020	1024	4	0.71	-0.95	15.2	2.83
12/05/2023 00:53	0.0	0.0	20.5	3	0	1021	1024	3	0.65	-0.35	14.8	2.83
12/05/2023 01:53	0.0	0.0	20.4	3	0	1022	1025	3	0.61	-0.80	14.5	2.83
12/05/2023 02:53	0.0	0.0	20.4	3	0	1022	1025	3	0.53	-0.82	14.3	2.82
12/05/2023 03:53	0.0	0.0	20.4	3	0	1023	1025	2	0.49	-0.83	14.2	2.82
12/05/2023 04:53	0.0	0.0	20.4	3	0	1023	1026	3	0.48	-0.44	14.1	2.82
12/05/2023 05:53	0.0	0.0	20.4	3	0	1024	1027	3	0.45	-0.88	13.8	2.82
12/05/2023 06:53	0.0	0.0	20.4	3	0	1024	1027	3	0.41	-0.50	13.6	2.82
12/05/2023 07:53	0.0	0.0	20.3	3	0	1025	1027	2	0.39	-0.33	13.7	2.82
12/05/2023 08:53	0.0	0.0	20.4	3	0	1025	1028	3	0.39	-0.15	13.9	2.82
12/05/2023 09:53	0.0	0.0	20.4	3	0	1025	1028	3	0.35	0.04	14.4	2.81
12/05/2023 10:53	0.0	0.0	20.4	3	0	1026	1028	2	0.35	0.02	14.9	2.81
12/05/2023 11:53	0.0	0.0	20.4	3	0	1026	1028	2	0.29	0.32	15.5	2.81
12/05/2023 12:53	0.0	0.0	20.5	2	0	1026	1028	2	0.17	0.28	16.4	2.81
12/05/2023 13:53	0.0	0.0	20.5	2	0	1026	1028	2	0.13	0.24	17.2	2.80
12/05/2023 14:53	0.0	0.0	20.2	1	0	1026	1028	2	0.08	-0.23	17.8	2.80
12/05/2023 15:53	0.0	0.0	17.8	2	0	1026	1028	2	-0.01	-0.34	18.3	2.80
12/05/2023 16:53	0.0	0.0	11.5	3	0	1026	1028	2	-0.04	-0.50	18.8	2.80
12/05/2023 17:53	0.0	0.0	2.8	4	0	1025	1028	3	-0.08	-0.77	19.1	2.80
12/05/20												

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
13/05/2023 12:53	0.8	0.0	0.0	5	0	1025	1026	1	-0.25	1.35	15.6	2.79
13/05/2023 13:53	0.8	0.0	0.0	4	0	1024	1025	1	-0.30	1.22	16.3	2.78
13/05/2023 14:53	0.8	0.0	0.0	4	0	1024	1025	1	-0.31	0.70	16.8	2.78
13/05/2023 15:53	0.8	0.0	0.0	4	0	1023	1024	1	-0.45	0.36	17.1	2.78
13/05/2023 16:53	1.2	0.0	0.0	4	0	1022	1023	1	-0.49	0.11	17.3	2.78
13/05/2023 17:53	1.2	0.0	0.0	4	0	1021	1023	2	-0.50	0.21	17.3	2.78
13/05/2023 18:53	1.2	0.0	0.0	4	0	1021	1022	1	-0.51	0.51	17.0	2.78
13/05/2023 19:53	1.2	0.0	0.0	4	0	1021	1022	1	-0.48	1.12	16.4	2.79
13/05/2023 20:53	1.2	0.0	0.0	4	0	1020	1022	2	-0.42	1.34	15.9	2.79
13/05/2023 21:53	1.2	0.0	0.0	4	0	1020	1021	1	-0.46	1.47	15.4	2.79
13/05/2023 22:53	1.2	0.0	0.0	5	0	1020	1020	0	-0.40	1.33	15.0	2.78
13/05/2023 23:53	1.2	0.0	0.0	4	0	1019	1020	1	-0.41	0.55	14.7	2.78
14/05/2023 00:53	1.2	0.0	0.0	4	0	1018	1019	1	-0.46	0.81	14.4	2.77
14/05/2023 01:53	1.2	0.0	0.0	4	0	1018	1018	0	-0.47	0.65	14.3	2.78
14/05/2023 02:53	1.2	0.0	0.0	4	0	1017	1018	1	-0.48	0.31	14.1	2.78
14/05/2023 03:53	1.2	0.0	0.0	4	0	1016	1017	1	-0.53	0.70	13.8	2.78
14/05/2023 04:53	1.7	0.0	0.0	4	0	1016	1017	1	-0.50	0.35	13.6	2.78
14/05/2023 05:53	1.2	0.0	0.0	4	0	1016	1017	1	-0.43	0.41	13.4	2.79
14/05/2023 06:53	1.7	0.0	0.0	4	0	1015	1017	2	-0.38	0.15	13.5	2.79
14/05/2023 07:53	1.2	0.0	0.0	4	0	1015	1017	2	-0.28	-0.53	13.6	2.79
14/05/2023 08:53	1.7	0.0	0.0	4	0	1015	1016	1	-0.25	0.28	13.7	2.79
14/05/2023 09:53	1.7	0.0	0.0	4	0	1014	1016	2	-0.23	-0.31	13.9	2.80
14/05/2023 10:53	1.7	0.0	0.0	4	0	1014	1016	2	-0.15	-0.43	13.9	2.80
14/05/2023 11:53	0.8	0.0	15.4	0	0	1014	1016	2	-0.13	-0.27	13.9	2.80
14/05/2023 12:53	0.8	0.0	18.6	0	0	1014	1016	2	-0.09	-0.24	13.9	2.80
14/05/2023 13:53	0.4	0.0	17.1	0	0	1014	1016	2	-0.05	-0.15	14.3	2.80
14/05/2023 14:53	0.4	0.0	19.9	0	0	1014	1017	3	-0.02	-0.56	15.1	2.81
14/05/2023 15:53	0.4	0.0	20.2	0	0	1014	1017	3	0.05	-1.03	15.5	2.81
14/05/2023 16:53	0.4	0.0	20.4	1	0	1014	1017	3	0.09	-0.59	16.1	2.81
14/05/2023 17:53	0.4	0.0	20.5	1	0	1014	1017	3	0.11	-0.91	16.5	2.81
14/05/2023 18:53	0.4	0.0	20.5	1	0	1015	1017	2	0.19	-0.69	16.5	2.81
14/05/2023 19:53	0.4	0.0	20.5	1	0	1015	1018	3	0.18	-0.42	16.1	2.81
14/05/2023 20:53	0.4	0.0	20.5	2	0	1015	1018	3	0.20	-0.39	15.4	2.82
14/05/2023 21:53	0.4	0.0	20.5	2	0	1016	1018	2	0.21	-0.43	14.8	2.81
14/05/2023 22:53	0.4	0.0	20.4	2	0	1016	1018	2	0.20	-0.42	14.3	2.81
14/05/2023 23:53	0.4	0.0	20.4	3	0	1016	1018	2	0.18	-0.28	13.8	2.81
15/05/2023 00:53	0.4	0.0	20.3	3	0	1016	1018	2	0.17	-0.25	13.3	2.81
15/05/2023 01:53	0.4	0.0	20.3	3	0	1017	1018	1	0.13	-0.68	12.9	2.80
15/05/2023 02:53	0.4	0.0	20.3	3	0	1017	1019	2	0.15	-0.87	12.4	2.81
15/05/2023 03:53	0.4	0.0	20.2	3	0	1017	1019	2	0.13	-0.39	11.9	2.81
15/05/2023 04:53	0.4	0.0	20.2	3	0	1017	1019	2	0.13	-0.82	11.7	2.81
15/05/2023 05:53	0.4	0.0	20.2	3	0	1017	1020	3	0.17	-0.73	11.6	2.81
15/05/2023 06:53	0.4	0.0	20.2	3	0	1017	1020	3	0.21	-0.45	11.4	2.81
15/05/2023 07:53	0.4	0.0	20.2	3	0	1018	1020	2	0.26	-0.06	11.8	2.82
15/05/2023 08:53	0.4	0.0	20.2	3	0	1018	1021	3	0.28	-0.67	12.4	2.82
15/05/2023 09:53	0.4	0.0	20.3	2	0	1018	1021	3	0.23	-0.07	13.3	2.81
15/05/2023 10:53	0.4	0.0	20.3	2	0	1019	1021	2	0.24	-0.51	14.0	2.81
15/05/2023 11:53	0.4	0.0	20.3	2	0	1019	1021	2	0.23	-0.49	14.6	2.81
15/05/2023 12:53	0.4	0.0	20.4	1	0	1019	1021	2	0.21	-0.28	15.2	2.81
15/05/2023 13:53	0.4	0.0	20.4	1	0	1019	1021	2	0.17	-0.68	15.9	2.81
15/05/2023 14:53	0.4	0.0	20.5	1	0	1019	1022	3	0.15	-0.56	16.4	2.81
15/05/2023 15:53	0.4	0.0	20.5	1	0	1019	1022	3	0.13	-0.71	16.9	2.81
15/05/2023 16:53	0.4	0.0	20.6	1	0	1020	1022	2	0.19	-0.74	17.3	2.81
15/05/2023 17:53	0.4	0.0	20.6	1	0	1020	1022	2	0.17	-0.33	17.5	2.81
15/05/2023 18:53	0.4	0.0	20.6	2	0	1020	1022	2	0.17	0.18	17.4	2.81
15/05/2023 19:53	0.4	0.0	20.6	2	0	1020	1023	3	0.17	-0.08	17.0	2.81
15/05/2023 20:53	0.4	0.0	20.5	2	0	1021	1023	2	0.18	-0.61	16.2	2.81
15/05/2023 21:53	0.4	0.0	20.5	2	0	1021	1023	2	0.12	0.43	15.3	2.81
15/05/2023 22:53	0.4	0.0	20.4	3	0	1021	1023	2	0.11	0.19	14.6	2.80
15/05/2023 23:53	0.4	0.0	20.3	3	0	1021	1023	2	0.09	0.04	14.2	2.80
16/05/2023 00:53	0.4	0.0	20.4	3	0	1021	1022	1	0.00	0.30	13.8	2.80
16/05/2023 01:53	0.4	0.0	20.3	3	0	1021	1022	1	-0.03	-0.36	13.6	2.80
16/05/2023 02:53	0.4	0.0	7.4	4	0	1021	1022	1	-0.10	-0.70	13.4	2.79
16/05/2023 03:53	0.4	0.0	2.7	4	0	1020	1022	2	-0.13	-0.49	13.2	2.79
16/05/2023 04:53	0.4	0.0	17.1	4	0	1020	1022	2	-0.08	-0.51	13.1	2.80
16/05/2023 05:53	0.4	0.0	17.1	3	0	1020	1023	3	0.00	-0.58	12.9	2.81
16/05/2023 06:53	0.4	0.0	19.3	2	0	1020	1023	3	0.02	-0.32	12.8	2.81
16/05/2023 07:53	0.4	0.0	19.8	2	0	1021	1023	2	0.11	0.05	12.9	2.81
16/05/2023 08:53	0.4	0.0	20.0	2	0	1021	1023	2	0.13	0.02	13.3	2.81
16/05/2023 09:53	0.4	0.0	20.2	2	0	1021	1023	2	0.15	-0.16	13.6	2.81
16/05/2023 10:53	0.4	0.0	20.2	2	0	1021	1023	2	0.18	-0.67	13.8	2.81
16/05/2023 11:53	0.4	0.0	20.2	2	0	1021	1023	2	0.16	-0.32	14.1	2.80
16/05/2023 12:53	0.4	0.0	20.2	2	0	1021	1024	3	0.14	-0.45	15.1	2.81
16/05/2023 13:53	0.4	0.0	19.8	2	0	1021	1024	3	0.12	-0.43	15.9	2.81
16/05/2023 14:53	0.4	0.0	20.4	1	0	1022	1024	2	0.12	-0.60	16.3	2.81
16/05/2023 15:53	0.4	0.0	20.5	1	0	1022	1024	2	0.13	-0.92	16.4	2.81
16/05/2023 16:53	0.4	0.0	20.5	1	0	1022	1025	3	0.18	-0.35	16.6	2.81
16/05/2023 17:53	0.4	0.0	20.6	2	0	1022	1025	3	0.19	-1.01	16.9	2.81
16/05/2023 18:53	0.4	0.0	20.6	2	0	1022	1025	3	0.21	-0.32	16.9	2.81
16/05/2023 19:53	0.4	0.0	20.6	2	0	1023	1025	2	0.20	-0.52	16.5	2.81
16/05/2023 20:53	0.4	0.0	20.5	2	0	1023	1026	3	0.22	-0.31	15.9	2.82
16/05/2023 21:53	0.4	0.0	20.5	2	0	1023	1026	3	0.22	-0.27	15.3	2.81
16/05/2023 22:53	0.4	0.0	20.5	3	0	1024	1026	2	0.20	0.04	14.8	2.81
16/05/2023 23:53	0.4	0.0	20.4	3	0	1024	1026	2	0.18	0.00	14.3	2.81
17/05/2023 00:53	0.4	0.0	20.4	3	0	1024	1026	2	0.16	0.08	14.1	2.81
17/05/2023 01:53	0.4	0.0	20.4	3	0	1024	1026	2	0.12	-0.16	13.9	2.80
17/05/2023 02:53	0.4	0.0	20.4	3	0	1024	1026	2	0.06	-1.01	13.8	2.80
17/05/2023 03:53	0.4	0.0	20.0	3	0	1024	1026	2	0.01	-0.33	13.6	2.80
17/05/2023 04:53	0.4	0.0	18.8	3	0	1024	1026	2	0.04	-0.48	13.6	2.80
17/05/2023 05:53	0.4	0.0	18.9	3	0	1024	1027	3	0.09	-0.42	13.4	2.81
17/05/2023 06:53	0.4	0.0	20.2	3	0	1024	1027	3	0.09	0.08	13.3	2.81
17/05/2023 07:53	0.4	0.0	20.3	3	0	1025	1027	2	0.11	0.32	13.5	2.81
17/05/2023 08:53	0.4	0.0	20.3	3	0	1025	1027	2	0.15	0.41	14.1	2.81
17/05/2023 09:53	0.4	0.0	20.4	2	0	1025	1027	2	0.15	-0.18	15.0	2.81
17/05/2023 10:53	0.4	0.0	20.5	2	0	1025	1027	2	0.12	0.00	15.9	2.80
17/05/2023 11:53	0.4	0.0	20.4	1	0	1025	1026	1	0.03	0.06	16.6	2.80
17/05/2023 12:53	0.4	0.0	15.7	2	0	1025	1026	1	-0.02	0.48	17.1	2.80
17/05/2023 13:53	0.4	0.0	9.8	3	0	1025	1026	1	-0.05	0.46	17.4	2.80
17/05/2023 14:53	0.4	0.0	13.5	2	0	1025	1026	1	-0.11	0.10	17.6	2.80
17/05/2023 15:53	0.4	0.0	10.9	2	0	1024	1026	2	-0.19	0.14	17.6	2.79
17/0												

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
18/05/2023 10:53	0.4	0.0	19.9	2	0	1023	1024	1	0.06	0.04	15.1	2.80
18/05/2023 11:53	0.4	0.0	19.2	2	0	1022	1025	3	0.06	0.07	15.6	2.80
18/05/2023 12:53	0.4	0.0	20.3	2	0	1022	1024	2	0.03	-0.05	16.0	2.80
18/05/2023 13:53	0.4	0.0	20.2	2	0	1023	1024	1	-0.01	-0.29	16.2	2.80
18/05/2023 14:53	0.4	0.0	19.1	2	0	1022	1024	2	-0.07	0.12	16.4	2.80
18/05/2023 15:53	0.4	0.0	18.7	2	0	1022	1024	2	-0.05	-0.50	16.4	2.80
18/05/2023 16:53	0.4	0.0	17.2	2	0	1022	1024	2	-0.06	-0.74	16.3	2.80
18/05/2023 17:53	0.4	0.0	20.0	2	0	1022	1024	2	-0.04	-0.94	16.0	2.80
18/05/2023 18:53	0.4	0.0	19.0	2	0	1022	1024	2	-0.04	-0.42	15.8	2.80
18/05/2023 19:53	0.4	0.0	20.3	2	0	1022	1025	3	0.02	-0.63	15.5	2.81
18/05/2023 20:53	0.4	0.0	20.4	3	0	1022	1025	3	0.08	-0.08	15.3	2.81
18/05/2023 21:53	0.4	0.0	20.4	3	0	1023	1025	2	0.15	0.27	15.0	2.81
18/05/2023 22:53	0.4	0.0	20.4	3	0	1023	1026	3	0.18	-0.22	14.8	2.81
18/05/2023 23:53	0.4	0.0	20.4	3	0	1023	1026	3	0.21	-0.53	14.5	2.81
19/05/2023 00:53	0.4	0.0	20.4	3	0	1024	1026	2	0.18	-0.25	14.1	2.81
19/05/2023 01:53	0.4	0.0	20.3	3	0	1024	1026	2	0.18	-0.53	13.8	2.81
19/05/2023 02:53	0.4	0.0	20.3	3	0	1024	1026	2	0.13	-0.35	13.6	2.80
19/05/2023 03:53	0.4	0.0	20.3	3	0	1024	1026	2	0.11	-0.37	13.4	2.80
19/05/2023 04:53	0.4	0.0	20.3	3	0	1024	1026	2	0.13	-0.52	13.3	2.81
19/05/2023 05:53	0.4	0.0	20.3	3	0	1024	1027	3	0.11	-0.28	13.3	2.81
19/05/2023 06:53	0.4	0.0	20.3	3	0	1025	1027	2	0.18	-0.37	13.4	2.82
19/05/2023 07:53	0.4	0.0	20.3	3	0	1025	1027	2	0.19	-0.12	13.8	2.81
19/05/2023 08:53	0.4	0.0	20.3	3	0	1025	1027	2	0.17	-0.35	14.0	2.81
19/05/2023 09:53	0.4	0.0	20.4	3	0	1025	1027	2	0.21	-0.37	14.8	2.81
19/05/2023 10:53	0.4	0.0	20.4	2	0	1025	1027	2	0.19	-0.38	15.4	2.81
19/05/2023 11:53	0.4	0.0	20.5	2	0	1025	1027	2	0.13	-0.11	16.1	2.81
19/05/2023 12:53	0.4	0.0	20.5	2	0	1025	1028	3	0.14	-0.10	17.0	2.81
19/05/2023 13:53	0.4	0.0	20.6	1	0	1026	1028	2	0.10	-0.12	17.9	2.81
19/05/2023 14:53	0.4	0.0	20.7	1	0	1026	1028	2	0.11	-0.60	18.8	2.81
19/05/2023 15:53	0.4	0.0	20.7	1	0	1026	1028	2	0.07	-0.37	19.4	2.81
19/05/2023 16:53	0.4	0.0	20.7	1	0	1026	1028	2	0.03	-0.47	19.7	2.80
19/05/2023 17:53	0.4	0.0	20.6	2	0	1026	1028	2	0.01	-0.35	19.5	2.80
19/05/2023 18:53	0.4	0.0	20.4	2	0	1026	1028	2	0.06	-0.55	19.1	2.80
19/05/2023 19:53	0.4	0.0	20.2	2	0	1026	1028	2	0.04	-0.35	18.6	2.81
19/05/2023 20:53	0.4	0.0	20.6	2	0	1026	1028	2	0.03	0.16	17.9	2.81
19/05/2023 21:53	0.4	0.0	20.6	2	0	1026	1028	2	0.02	0.06	17.3	2.81
19/05/2023 22:53	0.4	0.0	20.6	3	0	1026	1028	2	0.07	0.42	16.7	2.81
19/05/2023 23:53	0.4	0.0	20.5	3	0	1026	1028	2	0.08	0.12	16.3	2.80
20/05/2023 00:53	0.4	0.0	20.5	3	0	1026	1028	2	0.03	0.68	15.9	2.80
20/05/2023 01:53	0.4	0.0	20.3	3	0	1026	1028	2	-0.03	0.23	15.6	2.80
20/05/2023 02:53	0.4	0.0	7.5	4	0	1026	1027	1	-0.07	-0.27	15.4	2.79
20/05/2023 03:53	0.4	0.0	1.2	4	0	1026	1027	1	-0.14	-0.34	15.3	2.79
20/05/2023 04:53	0.4	0.0	0.0	5	0	1025	1027	2	-0.13	0.15	15.1	2.79
20/05/2023 05:53	0.8	0.0	0.0	5	0	1025	1027	2	-0.15	-0.25	14.9	2.80
20/05/2023 06:53	0.8	0.0	8.9	3	0	1025	1027	2	-0.13	0.18	14.9	2.80
20/05/2023 07:53	0.4	0.0	15.4	2	0	1025	1027	2	-0.07	0.40	14.9	2.80
20/05/2023 08:53	0.4	0.0	14.4	2	0	1025	1027	2	-0.08	0.33	15.1	2.80
20/05/2023 09:53	0.4	0.0	18.4	2	0	1025	1027	2	-0.05	0.65	15.3	2.80
20/05/2023 10:53	0.4	0.0	14.7	2	0	1025	1027	2	-0.03	1.02	15.6	2.80
20/05/2023 11:53	0.4	0.0	11.7	3	0	1025	1026	1	-0.09	0.88	15.6	2.79
20/05/2023 12:53	0.4	0.0	6.2	3	0	1025	1026	1	-0.12	0.55	15.8	2.79
20/05/2023 13:53	0.8	0.0	0.0	5	0	1025	1026	1	-0.19	0.38	16.1	2.79
20/05/2023 14:53	1.2	0.0	0.0	5	0	1024	1025	1	-0.29	-0.09	16.4	2.78
20/05/2023 15:53	1.2	0.0	0.0	5	0	1024	1025	1	-0.31	0.32	16.7	2.78
20/05/2023 16:53	1.2	0.0	0.0	5	0	1023	1024	1	-0.36	-0.11	16.6	2.78
20/05/2023 17:53	1.2	0.0	0.0	4	0	1023	1024	1	-0.34	0.00	16.6	2.79
20/05/2023 18:53	1.2	0.0	0.0	4	0	1022	1024	2	-0.28	0.03	16.6	2.79
20/05/2023 19:53	1.2	0.0	0.0	3	0	1022	1024	2	-0.30	0.50	16.4	2.79
20/05/2023 20:53	1.2	0.0	7.8	0	0	1022	1024	2	-0.24	0.17	16.3	2.80
20/05/2023 21:53	1.2	0.0	0.4	3	0	1022	1023	1	-0.18	0.40	15.9	2.80
20/05/2023 22:53	1.2	0.0	6.4	1	0	1022	1023	1	-0.14	-0.25	15.6	2.80
20/05/2023 23:53	1.2	0.0	0.0	4	0	1022	1023	1	-0.16	0.26	15.4	2.79
21/05/2023 00:53	1.7	0.0	0.0	4	0	1021	1023	2	-0.16	-0.04	15.2	2.79
21/05/2023 01:53	1.7	0.0	0.0	4	0	1021	1022	1	-0.19	-0.22	15.1	2.79
21/05/2023 02:53	1.7	0.0	0.0	5	0	1021	1023	2	-0.14	-0.76	14.9	2.79
21/05/2023 03:53	1.7	0.0	0.0	6	0	1021	1022	1	-0.19	-0.14	14.8	2.79
21/05/2023 04:53	1.2	0.0	4.7	0	0	1021	1022	1	-0.15	-0.47	14.7	2.80
21/05/2023 05:53	1.7	0.0	0.0	4	0	1021	1022	1	-0.13	-0.21	14.6	2.80
21/05/2023 06:53	1.2	0.0	4.5	0	0	1021	1023	2	0.00	0.00	14.6	2.80
21/05/2023 07:53	0.8	0.0	18.2	0	0	1021	1023	2	0.04	0.32	14.7	2.81
21/05/2023 08:53	0.8	0.0	19.5	0	0	1021	1023	2	0.11	-0.24	14.8	2.81
21/05/2023 09:53	0.4	0.0	20.1	0	0	1021	1023	2	0.09	-0.11	15.1	2.81
21/05/2023 10:53	0.4	0.0	20.3	1	0	1021	1023	2	0.13	0.13	15.4	2.81
21/05/2023 11:53	0.4	0.0	20.3	2	0	1021	1023	2	0.11	0.21	15.6	2.80
21/05/2023 12:53	0.4	0.0	20.0	2	0	1021	1023	2	0.12	0.44	15.7	2.80
21/05/2023 13:53	0.4	0.0	18.9	2	0	1021	1023	2	0.04	0.06	16.1	2.80
21/05/2023 14:53	0.4	0.0	20.1	2	0	1021	1023	2	0.00	-0.39	16.5	2.80
21/05/2023 15:53	0.4	0.0	18.6	2	0	1021	1023	2	-0.05	-0.58	17.1	2.80
21/05/2023 16:53	0.4	0.0	13.0	3	0	1021	1023	2	-0.09	0.00	17.9	2.80
21/05/2023 17:53	0.4	0.0	6.9	3	0	1021	1022	1	-0.10	0.00	18.5	2.80
21/05/2023 18:53	0.4	0.0	2.3	4	0	1021	1023	2	-0.07	0.00	18.5	2.80
21/05/2023 19:53	0.8	0.0	5.5	3	0	1021	1023	2	-0.08	-0.12	18.3	2.80
21/05/2023 20:53	0.4	0.0	18.1	0	0	1021	1023	2	-0.06	-0.28	17.9	2.81
21/05/2023 21:53	0.4	0.0	19.5	1	0	1021	1023	2	-0.03	0.01	17.3	2.81
21/05/2023 22:53	0.4	0.0	19.9	2	0	1021	1023	2	-0.05	-0.39	16.7	2.80
21/05/2023 23:53	0.4	0.0	19.3	2	0	1021	1023	2	0.00	-0.19	16.1	2.80
22/05/2023 00:53	0.4	0.0	19.2	2	0	1021	1023	2	0.02	-0.24	15.7	2.80
22/05/2023 01:53	0.4	0.0	19.1	3	0	1021	1023	2	0.01	-0.46	15.4	2.80
22/05/2023 02:53	0.4	0.0	19.2	3	0	1021	1023	2	0.02	-0.69	15.1	2.80
22/05/2023 03:53	0.4	0.0	20.1	3	0	1021	1023	2	0.02	-1.19	14.8	2.80
22/05/2023 04:53	0.4	0.0	20.3	3	0	1021	1023	2	0.04	-0.11	14.6	2.81
22/05/2023 05:53	0.4	0.0	20.3	3	0	1021	1023	2	0.11	-0.02	14.3	2.81
22/05/2023 06:53	0.4	0.0	20.4	3	0	1021	1024	3	0.16	-0.31	14.0	2.81
22/05/2023 07:53	0.4	0.0	20.4	3	0	1021	1024	3	0.19	-0.38	13.9	2.81
22/05/2023 08:53	0.4	0.0	20.4	3	0	1022	1024	2	0.19	-0.56	14.3	2.81
22/05/2023 09:53	0.4	0.0	20.4	3	0	1022	1024	2	0.16	-0.25	14.9	2.81
22/05/2023 10:53	0.4	0.0	20.4	3	0	1022	1024	2	0.15	-0.20	15.6	2.80
22/05/2023 11:53	0.4	0.0	20.4	3	0	1022	1024	2	0.16	-0.28	16.4	2.80
22/05/2023 12:53	0.4	0.0	20.0	2	0	1022	1025	3	0.15	-0.35	17.2	2.81
22/05/2023 13:53	0.4	0.0	20.5	2	0	1022	1025	3	0.11	0.11	17.8	2.81
22/05												

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
23/05/2023 08:53	0.4	0.0	20.3	3	0	1025	1027	2	0.03	-0.21	14.2	2.80
23/05/2023 09:53	0.4	0.0	20.4	3	0	1025	1027	2	0.03	-0.34	14.5	2.80
23/05/2023 10:53	0.4	0.0	20.2	3	0	1025	1026	1	-0.01	0.42	15.1	2.80
23/05/2023 11:53	0.4	0.0	16.8	3	0	1025	1026	1	-0.06	1.07	15.8	2.79
23/05/2023 12:53	0.4	0.0	6.5	4	0	1024	1026	2	-0.10	0.07	16.4	2.80
23/05/2023 13:53	0.4	0.0	1.3	4	0	1024	1026	2	-0.10	-0.24	16.8	2.80
23/05/2023 14:53	0.4	0.0	13.4	2	0	1024	1026	2	-0.13	-0.22	16.8	2.80
23/05/2023 15:53	0.4	0.0	15.5	2	0	1024	1025	1	-0.24	-0.19	16.4	2.79
23/05/2023 16:53	0.8	0.0	2.0	4	0	1024	1025	1	-0.20	-0.42	16.4	2.79
23/05/2023 17:53	1.2	0.0	0.0	4	0	1023	1025	2	-0.16	-0.33	16.4	2.79
23/05/2023 18:53	1.2	0.0	0.8	4	0	1023	1025	2	-0.11	0.34	16.3	2.80
23/05/2023 19:53	0.8	0.0	17.6	0	0	1023	1025	2	-0.09	0.79	15.9	2.80
23/05/2023 20:53	0.4	0.0	18.8	1	0	1023	1025	2	-0.09	0.21	15.6	2.81
23/05/2023 21:53	0.4	0.0	19.7	1	0	1023	1025	2	-0.06	0.22	15.4	2.80
23/05/2023 22:53	0.4	0.0	20.1	2	0	1023	1025	2	0.01	0.27	15.0	2.80
23/05/2023 23:53	0.4	0.0	20.1	2	0	1023	1024	1	-0.07	-0.62	14.7	2.79
24/05/2023 00:53	0.4	0.0	8.2	3	0	1023	1024	1	-0.13	-0.55	14.3	2.79
24/05/2023 01:53	0.8	0.0	0.0	5	0	1023	1024	1	-0.14	-0.90	14.0	2.79
24/05/2023 02:53	1.2	0.0	0.0	5	0	1022	1024	2	-0.17	-0.45	13.8	2.79
24/05/2023 03:53	1.2	0.0	0.0	5	0	1022	1024	2	-0.14	-1.12	13.6	2.80
24/05/2023 04:53	0.8	0.0	17.1	1	0	1022	1024	2	-0.09	-0.78	13.4	2.80
24/05/2023 05:53	0.8	0.0	19.2	1	0	1022	1025	3	0.02	-0.18	13.4	2.81
24/05/2023 06:53	0.4	0.0	19.8	2	0	1023	1025	2	0.13	-0.44	13.4	2.82
24/05/2023 07:53	0.4	0.0	20.0	2	0	1023	1026	3	0.24	-0.25	13.6	2.82
24/05/2023 08:53	0.4	0.0	20.2	2	0	1024	1026	2	0.29	0.04	13.8	2.82
24/05/2023 09:53	0.4	0.0	20.3	2	0	1024	1026	2	0.33	-0.29	14.1	2.82
24/05/2023 10:53	0.4	0.0	20.3	2	0	1024	1026	2	0.27	-0.58	14.4	2.81
24/05/2023 11:53	0.4	0.0	20.4	2	0	1025	1027	2	0.26	-0.28	15.1	2.81
24/05/2023 12:53	0.4	0.0	20.4	2	0	1025	1026	1	0.17	0.05	15.6	2.81
24/05/2023 13:53	0.4	0.0	20.4	2	0	1025	1027	2	0.15	-0.91	16.2	2.80
24/05/2023 14:53	0.4	0.0	20.4	2	0	1025	1027	2	0.10	-0.08	16.8	2.81
24/05/2023 15:53	0.4	0.0	20.5	2	0	1025	1027	2	0.07	0.41	17.1	2.81
24/05/2023 16:53	0.4	0.0	20.5	2	0	1025	1027	2	0.09	-1.07	17.2	2.81
24/05/2023 17:53	0.4	0.0	20.6	2	0	1025	1027	2	0.11	-0.24	17.4	2.81
24/05/2023 18:53	0.4	0.0	20.6	2	0	1025	1027	2	0.07	-0.26	17.9	2.81
24/05/2023 19:53	0.4	0.0	20.6	2	0	1025	1027	2	0.07	-0.40	17.8	2.81
24/05/2023 20:53	0.4	0.0	20.5	2	0	1025	1028	3	0.13	-1.01	16.9	2.81
24/05/2023 21:53	0.4	0.0	20.5	3	0	1025	1027	2	0.09	-0.27	16.2	2.81
24/05/2023 22:53	0.4	0.0	20.5	3	0	1026	1028	2	0.09	-0.28	15.5	2.81
24/05/2023 23:53	0.4	0.0	20.4	3	0	1025	1028	3	0.10	-0.34	14.9	2.81
25/05/2023 00:53	0.4	0.0	20.4	3	0	1026	1028	2	0.13	-0.95	14.5	2.81
25/05/2023 01:53	0.4	0.0	20.4	3	0	1026	1028	2	0.14	-0.78	14.1	2.81
25/05/2023 02:53	0.4	0.0	20.4	3	0	1026	1028	2	0.18	-0.62	13.6	2.81
25/05/2023 03:53	0.4	0.0	20.3	3	0	1026	1029	3	0.15	-0.11	13.3	2.81
25/05/2023 04:53	0.4	0.0	20.3	3	0	1027	1029	2	0.21	-0.40	12.8	2.81
25/05/2023 05:53	0.4	0.0	20.3	3	0	1027	1030	3	0.29	-0.38	12.4	2.82
25/05/2023 06:53	0.4	0.0	20.3	3	0	1028	1030	2	0.27	0.04	12.3	2.82
25/05/2023 07:53	0.4	0.0	20.3	3	0	1028	1030	2	0.25	0.02	12.8	2.81
25/05/2023 08:53	0.4	0.0	20.4	3	0	1028	1030	2	0.27	0.05	13.6	2.81
25/05/2023 09:53	0.4	0.0	20.4	3	0	1028	1030	2	0.26	-0.10	14.6	2.81
25/05/2023 10:53	0.4	0.0	20.5	2	0	1028	1030	2	0.19	0.06	15.6	2.81
25/05/2023 11:53	0.4	0.0	20.5	2	0	1029	1030	1	0.14	0.16	16.6	2.80
25/05/2023 12:53	0.4	0.0	20.3	2	0	1028	1030	2	0.02	0.00	17.4	2.80
25/05/2023 13:53	0.4	0.0	20.1	2	0	1028	1030	2	0.02	-0.19	18.1	2.80
25/05/2023 14:53	0.4	0.0	17.9	2	0	1028	1030	2	-0.02	-0.22	18.6	2.80
25/05/2023 15:53	0.4	0.0	18.4	2	0	1028	1030	2	-0.02	-0.72	19.1	2.80
25/05/2023 16:53	0.4	0.0	15.3	2	0	1028	1030	2	-0.05	-0.40	19.6	2.80
25/05/2023 17:53	0.4	0.0	17.7	2	0	1028	1030	2	-0.03	-0.26	19.8	2.80
25/05/2023 18:53	0.4	0.0	16.6	2	0	1028	1030	2	-0.03	-0.39	19.8	2.80
25/05/2023 19:53	0.4	0.0	18.0	2	0	1028	1031	3	0.06	-0.32	19.4	2.81
25/05/2023 20:53	0.4	0.0	19.0	2	0	1028	1031	3	0.04	0.01	18.6	2.81
25/05/2023 21:53	0.4	0.0	20.4	2	0	1029	1030	1	0.05	-0.37	17.6	2.81
25/05/2023 22:53	0.4	0.0	20.4	2	0	1029	1031	2	0.05	-0.35	16.8	2.81
25/05/2023 23:53	0.4	0.0	20.5	3	0	1029	1031	2	0.07	-0.25	16.2	2.80
26/05/2023 00:53	0.4	0.0	20.5	3	0	1029	1030	1	0.05	-0.60	15.6	2.80
26/05/2023 01:53	0.4	0.0	20.6	3	0	1029	1031	2	0.07	-0.78	15.2	2.80
26/05/2023 02:53	0.4	0.0	19.9	3	0	1029	1031	2	0.00	-0.64	14.8	2.80
26/05/2023 03:53	0.4	0.0	20.4	3	0	1029	1031	2	0.02	-0.20	14.3	2.80
26/05/2023 04:53	0.4	0.0	20.4	3	0	1029	1031	2	0.07	-0.47	13.9	2.81
26/05/2023 05:53	0.4	0.0	20.4	3	0	1029	1032	3	0.12	-0.20	13.5	2.81
26/05/2023 06:53	0.4	0.0	20.4	3	0	1029	1032	3	0.13	0.14	13.4	2.81
26/05/2023 07:53	0.4	0.0	20.4	3	0	1030	1032	2	0.21	0.28	13.8	2.81
26/05/2023 08:53	0.4	0.0	20.4	3	0	1030	1032	2	0.21	0.09	14.6	2.81
26/05/2023 09:53	0.4	0.0	20.5	3	0	1030	1032	2	0.17	0.19	15.7	2.80
26/05/2023 10:53	0.4	0.0	20.5	3	0	1030	1032	2	0.14	0.44	16.4	2.80
26/05/2023 11:53	0.4	0.0	20.5	2	0	1030	1032	2	0.05	1.12	17.2	2.80
26/05/2023 12:53	0.4	0.0	19.1	2	0	1030	1031	1	-0.03	0.36	18.1	2.79
26/05/2023 13:53	0.4	0.0	12.7	3	0	1030	1031	1	-0.07	0.89	19.0	2.79
26/05/2023 14:53	0.4	0.0	8.0	3	0	1030	1031	1	-0.15	-0.35	19.9	2.79
26/05/2023 15:53	0.4	0.0	3.6	4	0	1029	1030	1	-0.25	0.33	20.5	2.79
26/05/2023 16:53	0.4	0.0	0.0	4	0	1029	1030	1	-0.25	-0.04	20.9	2.79
26/05/2023 17:53	0.8	0.0	0.0	4	0	1028	1029	1	-0.30	-0.09	21.2	2.79
26/05/2023 18:53	0.8	0.0	0.0	4	0	1028	1030	2	-0.24	0.29	21.2	2.79
26/05/2023 19:53	0.8	0.0	0.0	4	0	1028	1029	1	-0.26	0.42	20.6	2.79
26/05/2023 20:53	0.8	0.0	7.7	1	0	1028	1029	1	-0.26	0.52	19.6	2.80
26/05/2023 21:53	0.8	0.0	1.2	4	0	1027	1029	2	-0.22	0.90	18.6	2.80
26/05/2023 22:53	0.8	0.0	4.5	3	0	1027	1029	2	-0.18	0.92	17.8	2.80
26/05/2023 23:53	0.8	0.0	12.4	1	0	1027	1028	1	-0.19	0.95	17.1	2.80
27/05/2023 00:53	1.2	0.0	1.2	4	0	1027	1028	1	-0.20	0.66	16.5	2.79
27/05/2023 01:53	1.2	0.0	0.0	4	0	1027	1027	0	-0.28	0.09	15.9	2.78
27/05/2023 02:53	1.7	0.0	0.0	4	0	1026	1027	1	-0.34	1.01	15.4	2.78
27/05/2023 03:53	1.7	0.0	0.0	4	0	1025	1026	1	-0.37	0.21	14.7	2.78
27/05/2023 04:53	1.7	0.0	0.0	5	0	1025	1026	1	-0.39	-0.20	14.0	2.78
27/05/2023 05:53	1.7	0.0	0.0	4	0	1024	1026	2	-0.39	0.16	13.6	2.79
27/05/2023 06:53	1.7	0.0	0.0	4	0	1024	1025	1	-0.40	0.80	13.7	2.79
27/05/2023 07:53	2.1	0.0	0.0	4	0	1024	1025	1	-0.33	0.11	14.1	2.79
27/05/2023 08:53	2.1	0.0	0.0	3	0	1023	1025	2	-0.28	0.51	14.6	2.79
27/05/2023 09:53	1.7	0.0	4.8	0	0	1023	1025	2	-0.24	0.18	15.1	2.79
27/05/2023 10:53	1.7	0.0	2.6	1	0	1023	1024	1	-0.26	0.14	15.7	2.79
27/05/2023 11:53	1.7	0.0	0.0	4	0	1023	1024	1	-0.25	-0.41	16.6	2.79
27/05/20												

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
28/05/2023 06:53	0.8	0.0	20.3	3	0	1024	1026	2	0.21	-0.52	12.4	2.82
28/05/2023 07:53	0.8	0.0	20.4	3	0	1025	1027	2	0.29	-0.60	12.9	2.82
28/05/2023 08:53	0.8	0.0	20.4	3	0	1025	1027	2	0.28	0.41	14.0	2.81
28/05/2023 09:53	0.8	0.0	20.5	3	0	1025	1027	2	0.22	-0.46	15.3	2.80
28/05/2023 10:53	0.4	0.0	20.5	2	0	1025	1027	2	0.18	0.07	15.9	2.81
28/05/2023 11:53	0.4	0.0	19.9	2	0	1025	1027	2	0.13	0.22	16.7	2.80
28/05/2023 12:53	0.4	0.0	20.5	2	0	1025	1027	2	0.04	-0.09	17.3	2.80
28/05/2023 13:53	0.4	0.0	20.4	2	0	1025	1027	2	0.04	-0.52	18.1	2.80
28/05/2023 14:53	0.4	0.0	18.5	2	0	1025	1027	2	-0.05	-0.53	18.8	2.80
28/05/2023 15:53	0.4	0.0	18.7	2	0	1025	1026	1	-0.10	-0.41	19.4	2.80
28/05/2023 16:53	0.4	0.0	16.0	2	0	1025	1026	1	-0.02	-0.53	19.6	2.80
28/05/2023 17:53	0.4	0.0	11.9	3	0	1025	1027	2	-0.03	-0.34	19.6	2.80
28/05/2023 18:53	0.4	0.0	18.2	2	0	1025	1027	2	-0.02	-0.43	19.2	2.81
28/05/2023 19:53	0.4	0.0	20.0	2	0	1025	1027	2	0.06	-0.71	18.5	2.81
28/05/2023 20:53	0.4	0.0	20.5	2	0	1025	1027	2	0.06	-0.23	17.8	2.81
28/05/2023 21:53	0.4	0.0	20.5	1	0	1025	1028	3	0.12	-0.68	17.1	2.81
28/05/2023 22:53	0.4	0.0	20.5	2	0	1025	1028	3	0.16	-0.55	16.4	2.81
28/05/2023 23:53	0.4	0.0	20.5	2	0	1026	1028	2	0.14	-0.54	15.6	2.81
29/05/2023 00:53	0.4	0.0	20.5	3	0	1026	1028	2	0.18	-0.59	14.9	2.81
29/05/2023 01:53	0.4	0.0	20.4	3	0	1026	1028	2	0.14	-0.62	14.2	2.81
29/05/2023 02:53	0.4	0.0	20.4	3	0	1026	1028	2	0.16	-0.17	13.7	2.81
29/05/2023 03:53	0.4	0.0	20.4	3	0	1026	1029	3	0.16	-0.55	13.3	2.81
29/05/2023 04:53	0.4	0.0	20.3	3	0	1027	1029	2	0.18	-0.26	12.8	2.81
29/05/2023 05:53	0.8	0.0	20.3	4	0	1027	1029	2	0.24	-0.20	12.4	2.81
29/05/2023 06:53	0.8	0.0	20.3	3	0	1027	1030	3	0.25	-0.13	12.4	2.81
29/05/2023 07:53	0.8	0.0	20.3	3	0	1028	1030	2	0.21	0.22	13.0	2.81
29/05/2023 08:53	0.8	0.0	20.4	3	0	1028	1030	2	0.23	0.00	14.1	2.81
29/05/2023 09:53	0.4	0.0	20.4	3	0	1028	1030	2	0.19	-0.54	15.3	2.81
29/05/2023 10:53	0.4	0.0	20.5	3	0	1028	1030	2	0.14	0.35	16.6	2.80
29/05/2023 11:53	0.4	0.0	20.5	2	0	1028	1030	2	0.09	-0.21	17.8	2.80
29/05/2023 12:53	0.4	0.0	20.3	2	0	1028	1029	1	0.01	-0.16	18.8	2.80
29/05/2023 13:53	0.4	0.0	19.3	1	0	1028	1029	1	-0.01	-0.46	19.7	2.80
29/05/2023 14:53	0.4	0.0	18.0	2	0	1028	1030	2	0.00	-0.45	20.4	2.80
29/05/2023 15:53	0.4	0.0	18.6	1	0	1028	1029	1	-0.05	-0.48	21.0	2.80
29/05/2023 16:53	0.4	0.0	19.4	1	0	1028	1029	1	-0.06	-0.91	21.4	2.80
29/05/2023 17:53	0.4	0.0	17.2	2	0	1028	1030	2	-0.02	-0.34	21.8	2.80
29/05/2023 18:53	0.4	0.0	16.6	2	0	1028	1030	2	0.00	-0.37	21.9	2.81
29/05/2023 19:53	0.4	0.0	19.6	2	0	1028	1030	2	0.04	-0.10	21.6	2.81
29/05/2023 20:53	0.4	0.0	20.5	2	0	1028	1030	2	0.07		20.5	2.81
29/05/2023 21:53	0.4	0.0	20.6	2	0	1028	1030	2	0.05		19.4	2.81
29/05/2023 22:53	0.4	0.0	20.6	3	0	1028	1030	2	0.07		18.3	2.81
29/05/2023 23:53	0.4	0.0	20.6	3	0	1028	1030	2	0.09		17.4	2.81
30/05/2023 00:53	0.4	0.0	20.5	3	0	1028	1030	2	0.08		16.8	2.80
30/05/2023 01:53	0.4	0.0	20.5	3	0	1028	1030	2	0.08		16.2	2.80
30/05/2023 02:53	0.4	0.0	20.5	3	0	1028	1031	3	0.10		15.6	2.81
30/05/2023 03:53	0.4	0.0	20.5	2	0	1028	1031	3	0.11		15.2	2.81
30/05/2023 04:53	0.4	0.0	20.5	3	0	1029	1031	2	0.13		14.8	2.81
30/05/2023 05:53	0.4	0.0	20.5	3	0	1029	1031	2	0.18		14.5	2.81
30/05/2023 06:53	0.4	0.0	20.4	3	0	1029	1032	3	0.21		14.4	2.81
30/05/2023 07:53	0.8	0.0	20.5	3	0	1030	1032	2	0.20		14.8	2.81
30/05/2023 08:53	0.4	0.0	20.5	3	0	1030	1032	2	0.15		15.6	2.80
30/05/2023 09:53	0.4	0.0	20.5	2	0	1030	1031	1	0.10		16.8	2.80
30/05/2023 10:53	0.4	0.0	20.3	2	0	1030	1031	1	0.05		17.8	2.80
30/05/2023 11:53	0.4	0.0	19.5	1	0	1030	1031	1	0.02		18.9	2.80
30/05/2023 12:53	0.4	0.0	17.7	1	0	1030	1031	1	-0.06		19.9	2.80
30/05/2023 13:53	0.4	0.0	15.9	1	0	1030	1031	1	-0.12		20.7	2.80
30/05/2023 14:53	0.4	0.0	10.9	2	0	1029	1031	2	-0.16		21.4	2.79
30/05/2023 15:53	0.4	0.0	5.4	2	0	1029	1030	1	-0.16		22.1	2.79
30/05/2023 16:53	0.4	0.0	1.9	3	0	1029	1030	1	-0.19		22.6	2.79
30/05/2023 17:53	0.4	0.0	0.5	4	0	1028	1030	2	-0.22		22.9	2.79
30/05/2023 18:53	0.8	0.0	0.0	4	0	1028	1029	1	-0.23		22.9	2.80
30/05/2023 19:53	0.8	0.0	0.0	4	0	1028	1029	1	-0.24		22.6	2.79
30/05/2023 20:53	0.8	0.0	0.0	4	0	1028	1029	1	-0.21		21.6	2.80
30/05/2023 21:53	0.8	0.0	0.0	5	0	1027	1029	2	-0.13		20.5	2.80
30/05/2023 22:53	0.8	0.0	8.9	1	0	1027	1030	3	-0.09		19.5	2.81
30/05/2023 23:53	0.4	0.0	18.8	0	0	1028	1029	1	-0.07		18.6	2.81
31/05/2023 00:53	0.4	0.0	19.6	1	0	1028	1030	2	-0.01		17.9	2.81

Time Series Data

Project Ref:	GG3244
Project Name:	Ardrossan Academy
Borehole ref:	EC-BH3
Instrument Name and ID:	GC 23/03/10
Start Date:	04/05/2023 15:46
End Date:	31/05/2023 09:46
Days of monitoring:	27
Monitoring Frequency (mins):	60
Total samples taken:	643



Summary Table

	CH ₄	CO ₂	O ₂	CO	H ₂ S	Borehole Pressure	Atmospheric Pressure	Differential Pressure	Average 8-hour atmospheric pressure change	Flow	Temperature	Water Level
Minimum	0.0	0.0	2.7	3	0	1003	1005	0	-0.53	0.00	11.2	4.60
Maximum	0.0	14.3	19.0	5	1	1030	1032	4	0.75	0.26	18.4	4.86
Range	0.0	14.3	16.3	2	1	27	27	N/A	1.28	0.26	7.2	0.26

Date and Time	CH ₄	CO ₂	O ₂	CO	H ₂ S	Borehole Pressure	Atmospheric Pressure	Differential Pressure	Average 8-hour atmospheric pressure change	Flow	Temperature	Water Level
	% v/v	% v/v	% v/v	ppm/v	ppm/v	mbar	mbar	mbar	mbar	Ltr/hr	°C	mbgl
04/05/2023 15:46	0.0	11.5	4.5	4	0	1012	1013	1	N/A	0.26	18.4	4.69
04/05/2023 16:46	0.0	12.2	3.6	4	0	1011	1012	1	N/A	0.00	15.4	4.67
04/05/2023 17:46	0.0	12.7	3.4	4	0	1010	1012	2	N/A	0.00	14.4	4.67
04/05/2023 18:46	0.0	12.7	3.4	4	0	1010	1012	2	N/A	0.00	13.9	4.67
04/05/2023 19:46	0.0	11.6	4.8	3	0	1010	1012	2	N/A	0.00	13.6	4.67
04/05/2023 20:46	0.0	10.5	5.9	3	0	1010	1011	1	N/A	0.00	13.3	4.67
04/05/2023 21:46	0.0	7.1	9.5	3	0	1010	1010	0	N/A	0.00	13.0	4.66
04/05/2023 22:46	0.0	9.6	6.9	3	0	1009	1010	1	N/A	0.00	12.7	4.65
04/05/2023 23:46	0.0	11.4	5.1	4	0	1008	1010	2	-0.34	0.00	12.4	4.65
05/05/2023 00:46	0.0	11.9	4.6	4	0	1008	1008	0	-0.42	0.00	12.2	4.65
05/05/2023 01:46	0.0	12.6	3.9	4	0	1007	1008	1	-0.48	0.00	11.9	4.63
05/05/2023 02:46	0.0	13.6	3.0	3	0	1007	1008	1	-0.51	0.00	11.8	4.63
05/05/2023 03:46	0.0	13.9	2.9	5	0	1006	1007	1	-0.52	0.00	11.6	4.63
05/05/2023 04:46	0.0	14.0	2.8	4	1	1006	1007	1	-0.43	0.00	11.5	4.62
05/05/2023 05:46	0.0	13.8	2.7	4	0	1005	1007	2	-0.42	0.00	11.4	4.62
05/05/2023 06:46	0.0	13.6	2.8	4	0	1005	1007	2	-0.37	0.00	11.3	4.62
05/05/2023 07:46	0.0	12.0	4.8	3	0	1005	1007	2	-0.15	0.00	11.3	4.62
05/05/2023 08:46	0.0	5.6	11.4	3	0	1005	1007	2	-0.05	0.00	11.2	4.62
05/05/2023 09:46	0.0	2.8	14.3	3	0	1005	1007	2	-0.02	0.00	11.2	4.63
05/05/2023 10:46	0.0	1.1	16.4	3	1	1005	1008	3	0.08	0.00	11.2	4.63
05/05/2023 11:46	0.0	0.8	16.7	3	0	1006	1007	1	0.07	0.00	11.3	4.63
05/05/2023 12:46	0.0	0.7	16.7	3	0	1006	1008	2	0.12	0.00	11.4	4.63
05/05/2023 13:46	0.0	1.4	15.8	3	0	1006	1008	2	0.11	0.00	11.5	4.63
05/05/2023 14:46	0.0	1.2	16.0	3	1	1006	1008	2	0.12	0.00	11.8	4.63
05/05/2023 15:46	0.0	1.7	15.4	3	0	1006	1008	2	0.08	0.00	12.1	4.63
05/05/2023 16:46	0.0	1.7	15.4	3	0	1006	1008	2	0.07	0.00	12.3	4.63
05/05/2023 17:46	0.0	1.8	15.3	3	0	1006	1008	2	0.05	0.00	12.6	4.63
05/05/2023 18:46	0.0	1.5	15.6	3	0	1006	1008	2	0.13	0.00	12.8	4.63
05/05/2023 19:46	0.0	1.0	16.4	3	0	1006	1009	3	0.14	0.00	12.9	4.64
05/05/2023 20:46	0.0	0.2	17.7	3	0	1007	1009	2	0.16	0.00	13.1	4.64
05/05/2023 21:46	0.0	0.0	18.1	3	0	1007	1009	2	0.14	0.00	13.0	4.64
05/05/2023 22:46	0.0	0.0	18.3	3	0	1007	1009	2	0.13	0.00	12.9	4.64
05/05/2023 23:46	0.0	0.0	18.2	3	0	1007	1009	2	0.11	0.00	12.8	4.64
06/05/2023 00:46	0.0	0.0	18.0	3	0	1007	1009	2	0.10	0.00	12.7	4.64
06/05/2023 01:46	0.0	0.1	17.7	3	0	1007	1009	2	0.05	0.00	12.6	4.64
06/05/2023 02:46	0.0	0.2	17.6	3	0	1007	1009	2	0.00	0.00	12.4	4.64
06/05/2023 03:46	0.0	0.2	17.4	3	0	1007	1009	2	-0.02	0.00	12.3	4.64
06/05/2023 04:46	0.0	0.2	17.5	3	0	1007	1009	2	0.01	0.00	12.2	4.64
06/05/2023 05:46	0.0	0.1	17.6	3	1	1007	1010	3	0.06	0.00	12.1	4.64
06/05/2023 06:46	0.0	0.0	18.3	3	0	1007	1010	3	0.15	0.00	11.9	4.65
06/05/2023 07:46	0.0	0.0	18.5	3	0	1008	1010	2	0.18	0.00	11.9	4.65
06/05/2023 08:46	0.0	0.0	18.6	3	1	1008	1010	2	0.18	0.00	11.9	4.66
06/05/2023 09:46	0.0	0.0	18.6	3	0	1008	1010	2	0.15	0.00	11.9	4.65
06/05/2023 10:46	0.0	0.0	18.5	3	0	1008	1010	2	0.16	0.00	11.9	4.65
06/05/2023 11:46	0.0	0.0	18.4	3	0	1008	1010	2	0.13	0.00	12.1	4.65
06/05/2023 12:46	0.0	0.0	18.3	3	1	1008	1010	2	0.12	0.00	12.2	4.65
06/05/2023 13:46	0.0	0.0	18.2	3	0	1008	1010	2	0.02	0.00	12.4	4.65
06/05/2023 14:46	0.0	0.0	18.3	3	0	1008	1010	2	-0.05	0.00	12.6	4.65
06/05/2023 15:46	0.0	0.0	18.0	3	0	1008	1010	2	-0.05	0.00	12.9	4.65
06/05/2023 16:46	0.0	0.0	17.6	3	0	1008	1010	2	-0.04	0.00	13.1	4.65
06/05/2023 17:46	0.0	0.1	17.5	3	0	1008	1010	2	-0.05	0.00	13.3	4.65
06/05/2023 18:46	0.0	0.1	17.3	3	0	1008	1010	2	-0.05	0.00	13.4	4.65
06/05/2023 19:46	0.0	0.1	17.4	3	0	1008	1010	2	-0.05	0.00	13.4	4.65
06/05/2023 20:46	0.0	0.1	17.4	3	0	1008	1010	2	0.00	0.00	13.5	4.65
06/05/2023 21:46	0.0	0.0	17.7	3	1	1008	1011	3	0.07	0.00	13.4	4.65
06/05/2023 22:46	0.0	0.0	18.0	3	1	1008	1011	3	0.11	0.00	13.3	4.66
06/05/2023 23:46	0.0	0.0	18.4	3	0	1009	1011	2	0.16	0.00	13.2	4.66
07/05/2023 00:46	0.0	0.0	18.5	3	0	1009	1011	2	0.20	0.00	13.0	4.66
07/05/2023 01:46	0.0	0.0	18.6	3	0	1009	1011	2	0.19	0.00	12.9	4.66
07/05/2023 02:46	0.0	0.0	18.5	3	0	1010	1012	2	0.19	0.00	12.7	4.66
07/05/2023 03:46	0.0	0.0	18.5	3	0	1010	1012	2	0.15	0.00	12.6	4.66
07/05/2023 04:46	0.0	0.0	18.5	3	0	1010	1012	2	0.15	0.00	12.4	4.66
07/05/2023 05:46	0.0	0.0	18.4	3	0	1010	1012	2	0.21	0.00	12.3	4.67
07/05/2023 06:46	0.0	0.0	18.6	3	0	1010	1013	3	0.20	0.00	12.2	4.67
07/05/2023 07:46	0.0	0.0	18.7	3	0	1010	1013	3	0.24	0.00	12.1	4.68
07/05/2023 08:46	0.0	0.0	18.6	3	0	1011	1013	2	0.26	0.00	12.1	4.68
07/05/2023 09:46	0.0	0.0	18.5	3	0	1011	1013	2	0.19	0.00	12.1	4.68
07/05/2023 10:46	0.0	0.0	18.5	3	0	1011	1013	2	0.24	0.00	12.2	4.68
07/05/2023 11:46	0.0	0.0	18.4	3	0	1011	1013	2	0.17	0.00	12.3	4.68
07/05/2023 12:46	0.0	0.0	18.3	3	0	1011	1013	2	0.12	0.00	12.5	4.68
07/05/2023 13:46	0.0	0.0	18.3	3	0	1011	1014	3	0.10	0.00	12.8	4.68
07/05/2023 14:46	0.0	0.0	18.2	3	0	1011	1014	3	0.04	0.00	13.1	4.68
07/05/2023 15:46	0.0	0.0	18.1	3	0	1012	1013	1	-0.01	0.00	13.4	4.68
07/05/2023 16:46	0.0	0.0	17.9	3	0	1011	1013	2	0.01	0.00	13.8	4.68
07/05/2023 17:46	0.0	0.0	17.6	3	0	1011	1013	2	-0.02	0.00	14.0	4.68
07/05/2023 18:46	0.0	0.0	17.2	3	0	1011	1013	2	0.00	0.00	14.3	4.68
07/05/2023 19:46	0.0	0.2	16.8	3	0	1011	1013	2	-0.03	0.00	14.4	4.68
07/05/2023 20:46	0.0	0.5	16.2	3	0	1011	1013	2	-0.06	0.00	14.4	4.68
07/05/2023 21:46	0.0	0.6	15.9	3	0	1011	1013	2	-0.11	0.00	14.3	4.68
07/05/2023 22:46	0.0	0.8	15.5	3	0	1011	1012	1	-0.17	0.00	14.1	4.67
07/05/2023 23:46	0.0	1.2	14.9	3	0	1010	1011	1	-0.22	0.00	13.9	4.67
08/05/2023 00:46	0.0	1.7	14.1	3	0	1010	1011	1	-0.32	0.00	13.8	4.66
08/05/2023 01:46	0.0	2.5	12.9	3	0	1010	1010	0	-0.38	0.00	13.7	4.65
08/05/2023 02:46	0.0	4.0	11.2	3	0	1009	1010	1	-0.45	0.00	13.5	4.65
08/05/2023 03:46	0.0	5.7	9.6	3	0	1008	1009	1	-0.52	0.00	13.4	4.64
08/05/2023 04:46	0.0	7.2	8.1	3	0	1008	1009	1	-0.46	0.00	13.3	4.64
08/05/2023 05:46	0.0	8.7	6.7	3	0	1007	1					

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
08/05/2023 13:46	0.0	8.9	7.0	3	0	1007	1009	2	0.03	0.00	12.8	4.64
08/05/2023 14:46	0.0	8.9	7.1	3	1	1007	1009	2	0.01	0.00	12.9	4.64
08/05/2023 15:46	0.0	9.0	6.9	3	0	1007	1008	1	-0.02	0.00	12.9	4.64
08/05/2023 16:46	0.0	9.5	6.5	3	0	1007	1008	1	-0.04	0.00	12.9	4.63
08/05/2023 17:46	0.0	10.1	5.9	3	0	1006	1008	2	-0.08	0.00	13.0	4.63
08/05/2023 18:46	0.0	10.2	5.7	3	0	1006	1008	2	-0.09	0.00	13.1	4.63
08/05/2023 19:46	0.0	10.1	5.8	3	0	1006	1009	3	-0.02	0.00	13.1	4.63
08/05/2023 20:46	0.0	8.1	8.1	3	0	1007	1008	1	-0.14	0.00	13.1	4.64
08/05/2023 21:46	0.0	4.4	11.9	3	0	1007	1008	1	-0.08	0.00	13.1	4.63
08/05/2023 22:46	0.0	7.9	8.1	3	0	1006	1008	2	-0.06	0.00	13.1	4.63
08/05/2023 23:46	0.0	7.7	8.5	3	0	1006	1008	2	-0.07	0.00	13.1	4.63
09/05/2023 00:46	0.0	8.1	7.9	3	0	1006	1007	1	-0.08	0.00	13.0	4.63
09/05/2023 01:46	0.0	9.1	6.9	3	1	1006	1007	1	-0.08	0.00	12.9	4.62
09/05/2023 02:46	0.0	9.7	6.2	3	0	1006	1007	1	-0.17	0.00	12.9	4.62
09/05/2023 03:46	0.0	10.1	5.6	3	0	1006	1007	1	-0.06	0.00	12.8	4.62
09/05/2023 04:46	0.0	10.3	5.3	3	0	1006	1007	1	-0.11	0.00	12.8	4.62
09/05/2023 05:46	0.0	10.7	5.1	3	0	1006	1007	1	-0.06	0.00	12.7	4.62
09/05/2023 06:46	0.0	11.2	4.7	3	0	1005	1007	2	-0.07	0.00	12.6	4.62
09/05/2023 07:46	0.0	11.3	4.5	3	0	1005	1007	2	-0.04	0.00	12.6	4.62
09/05/2023 08:46	0.0	11.2	4.4	3	0	1005	1008	3	0.01	0.00	12.6	4.62
09/05/2023 09:46	0.0	11.0	4.9	3	0	1005	1008	3	0.02	0.00	12.6	4.63
09/05/2023 10:46	0.0	8.9	7.4	3	0	1006	1007	1	-0.05	0.00	12.8	4.63
09/05/2023 11:46	0.0	8.5	7.6	3	0	1005	1007	2	-0.05	0.00	13.0	4.62
09/05/2023 12:46	0.0	9.7	6.3	3	0	1005	1007	2	-0.06	0.00	13.1	4.62
09/05/2023 13:46	0.0	10.6	5.6	3	0	1005	1007	2	-0.02	0.00	13.3	4.62
09/05/2023 14:46	0.0	10.6	5.4	3	0	1005	1007	2	-0.05	0.00	13.4	4.62
09/05/2023 15:46	0.0	11.2	5.1	3	0	1005	1007	2	-0.11	0.00	13.7	4.62
09/05/2023 16:46	0.0	11.4	4.7	3	0	1004	1007	3	-0.10	0.00	14.0	4.62
09/05/2023 17:46	0.0	11.5	4.6	3	0	1005	1006	1	-0.08	0.00	14.3	4.62
09/05/2023 18:46	0.0	11.2	5.1	3	0	1005	1006	1	-0.05	0.00	14.5	4.61
09/05/2023 19:46	0.0	11.4	4.7	3	0	1004	1007	3	-0.04	0.00	14.6	4.61
09/05/2023 20:46	0.0	11.1	5.4	3	0	1005	1007	2	-0.05	0.00	14.6	4.62
09/05/2023 21:46	0.0	8.6	8.0	3	0	1005	1006	1	-0.03	0.00	14.4	4.62
09/05/2023 22:46	0.0	9.0	7.6	3	0	1005	1006	1	-0.05	0.00	14.3	4.62
09/05/2023 23:46	0.0	9.7	6.8	3	0	1004	1006	2	-0.09	0.00	14.2	4.61
10/05/2023 00:46	0.0	10.3	6.2	3	0	1004	1006	2	-0.09	0.00	14.0	4.61
10/05/2023 01:46	0.0	10.6	5.8	3	0	1004	1005	1	-0.13	0.00	13.9	4.61
10/05/2023 02:46	0.0	11.2	5.4	3	0	1004	1005	1	-0.17	0.00	13.8	4.61
10/05/2023 03:46	0.0	11.3	5.0	3	0	1004	1005	1	-0.17	0.00	13.6	4.60
10/05/2023 04:46	0.0	11.6	4.7	3	0	1004	1005	1	-0.16	0.00	13.5	4.60
10/05/2023 05:46	0.0	12.0	4.4	3	0	1003	1005	2	-0.13	0.00	13.4	4.60
10/05/2023 06:46	0.0	12.1	4.2	3	0	1003	1005	2	-0.08	0.00	13.3	4.60
10/05/2023 07:46	0.0	12.0	4.7	3	0	1004	1006	2	0.00	0.00	13.2	4.60
10/05/2023 08:46	0.0	10.3	6.5	3	0	1004	1006	2	0.05	0.00	13.1	4.61
10/05/2023 09:46	0.0	8.0	8.8	3	0	1004	1006	2	0.07	0.00	13.1	4.61
10/05/2023 10:46	0.0	6.1	10.7	3	0	1004	1006	2	0.08	0.00	13.1	4.61
10/05/2023 11:46	0.0	6.6	10.1	3	0	1004	1006	2	0.09	0.00	13.1	4.61
10/05/2023 12:46	0.0	7.3	9.4	3	0	1004	1006	2	0.09	0.00	13.2	4.61
10/05/2023 13:46	0.0	7.8	9.0	3	1	1004	1006	2	0.08	0.00	13.3	4.61
10/05/2023 14:46	0.0	7.3	9.5	3	0	1004	1006	2	0.07	0.00	13.4	4.61
10/05/2023 15:46	0.0	7.3	9.4	3	0	1004	1007	3	0.11	0.00	13.6	4.61
10/05/2023 16:46	0.0	7.2	9.7	3	0	1004	1007	3	0.16	0.00	13.8	4.62
10/05/2023 17:46	0.0	5.1	11.7	3	0	1005	1007	2	0.19	0.00	14.0	4.62
10/05/2023 18:46	0.0	3.8	13.2	3	0	1005	1008	3	0.21	0.00	14.2	4.62
10/05/2023 19:46	0.0	3.2	14.0	3	0	1005	1008	3	0.23	0.00	14.4	4.62
10/05/2023 20:46	0.0	2.5	14.9	3	0	1006	1008	2	0.23	0.00	14.4	4.63
10/05/2023 21:46	0.0	2.0	15.4	3	0	1006	1008	2	0.21	0.00	14.3	4.63
10/05/2023 22:46	0.0	1.7	15.9	3	0	1006	1008	2	0.16	0.00	14.2	4.63
10/05/2023 23:46	0.0	1.8	15.6	3	0	1006	1008	2	0.13	0.00	14.0	4.63
11/05/2023 00:46	0.0	1.7	15.8	3	0	1006	1008	2	0.13	0.00	13.8	4.63
11/05/2023 01:46	0.0	1.2	16.3	3	0	1006	1009	3	0.13	0.00	13.7	4.63
11/05/2023 02:46	0.0	1.2	16.3	3	0	1007	1009	2	0.14	0.00	13.6	4.64
11/05/2023 03:46	0.0	0.8	16.9	3	0	1007	1009	2	0.18	0.00	13.4	4.64
11/05/2023 04:46	0.0	0.5	17.3	3	0	1007	1010	3	0.25	0.00	13.3	4.64
11/05/2023 05:46	0.0	0.2	17.8	3	0	1008	1011	3	0.33	0.00	13.3	4.65
11/05/2023 06:46	0.0	0.0	18.3	3	0	1008	1012	4	0.43	0.00	13.1	4.65
11/05/2023 07:46	0.0	0.0	18.7	3	1	1009	1012	3	0.48	0.00	13.1	4.66
11/05/2023 08:46	0.0	0.0	18.8	3	0	1010	1013	3	0.54	0.00	13.0	4.67
11/05/2023 09:46	0.0	0.0	18.8	3	1	1010	1014	4	0.58	0.00	13.0	4.68
11/05/2023 10:46	0.0	0.0	18.7	3	0	1011	1014	3	0.61	0.00	13.1	4.68
11/05/2023 11:46	0.0	0.0	18.7	3	1	1012	1015	3	0.58	0.00	13.2	4.69
11/05/2023 12:46	0.0	0.0	18.8	3	0	1012	1015	3	0.55	0.00	13.3	4.69
11/05/2023 13:46	0.0	0.0	18.7	3	0	1013	1015	2	0.49	0.00	13.4	4.70
11/05/2023 14:46	0.0	0.0	18.6	3	0	1013	1016	3	0.49	0.00	13.6	4.70
11/05/2023 15:46	0.0	0.0	18.7	3	0	1014	1017	3	0.55	0.00	13.8	4.71
11/05/2023 16:46	0.0	0.0	18.7	3	0	1014	1018	4	0.56	0.00	13.9	4.72
11/05/2023 17:46	0.0	0.0	18.8	3	0	1015	1019	4	0.60	0.00	14.1	4.73
11/05/2023 18:46	0.0	0.0	18.8	3	0	1016	1020	4	0.63	0.00	14.2	4.73
11/05/2023 19:46	0.0	0.0	18.8	3	0	1017	1021	4	0.74	0.00	14.3	4.74
11/05/2023 20:46	0.0	0.0	18.9	3	0	1018	1021	3	0.75	0.00	14.4	4.75
11/05/2023 21:46	0.0	0.0	18.9	3	0	1019	1022	3	0.74	0.00	14.4	4.76
11/05/2023 22:46	0.0	0.0	18.9	3	0	1019	1023	4	0.73	0.00	14.3	4.76
11/05/2023 23:46	0.0	0.0	19.0	3	0	1020	1024	4	0.71	0.00	14.1	4.77
12/05/2023 00:46	0.0	0.0	18.9	3	0	1021	1024	3	0.65	0.00	13.9	4.78
12/05/2023 01:46	0.0	0.0	18.9	3	0	1022	1025	3	0.61	0.00	13.8	4.78
12/05/2023 02:46	0.0	0.0	18.8	3	1	1022	1025	3	0.53	0.00	13.6	4.79
12/05/2023 03:46	0.0	0.0	18.9	3	0	1023	1025	2	0.49	0.00	13.5	4.79
12/05/2023 04:46	0.0	0.0	18.8	3	0	1023	1026	3	0.48	0.00	13.4	4.79
12/05/2023 05:46	0.0	0.0	18.8	3	0	1023	1027	4	0.45	0.00	13.3	4.80
12/05/2023 06:46	0.0	0.0	18.8	3	0	1024	1027	3	0.41	0.00	13.2	4.81
12/05/2023 07:46	0.0	0.0	18.8	3	1	1025	1027	2	0.39	0.00	13.1	4.81
12/05/2023 08:46	0.0	0.0	18.8	3	0	1025	1028	3	0.39	0.00	13.1	4.81
12/05/2023 09:46	0.0	0.0	18.7	3	0	1025	1028	3	0.35	0.00	13.1	4.81
12/05/2023 10:46	0.0	0.0	18.7	3	0	1026	1028	2	0.35	0.00	13.1	4.82
12/05/2023 11:46	0.0	0.0	18.7	3	0	1026	1028	2	0.29	0.00	13.2	4.82
12/05/2023 12:46	0.0	0.0	18.7	3	0	1026	1028	2	0.17	0.00	13.3	4.82
12/05/2023 13:46	0.0	0.0	18.7	3	1	1026	1028	2	0.13	0.00	13.6	4.82
12/05/2023 14:46	0.0	0.0	18.7	3	1	1026	1028	2	0.08	0.00	13.8	4.82
12/05/2023 15:46	0.0	0.0	18.6	3	0	1026	1028	2	-0.01	0.00	14.1	4.82
12/05/2023 16:46	0.0	0.0	18.6	3	0	1026	1028	2	-0.04	0.00	14.3	4.81

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
13/05/2023 11:46	0.0	1.9	14.5	3	0	1024	1026	2	-0.18	0.00	13.1	4.80
13/05/2023 12:46	0.0	2.5	13.8	3	0	1024	1026	2	-0.25	0.00	13.3	4.80
13/05/2023 13:46	0.0	3.2	12.9	3	0	1024	1025	1	-0.30	0.00	13.4	4.80
13/05/2023 14:46	0.0	4.0	12.1	3	0	1023	1025	2	-0.31	0.00	13.7	4.79
13/05/2023 15:46	0.0	5.3	10.9	3	0	1023	1024	1	-0.45	0.00	13.9	4.79
13/05/2023 16:46	0.0	6.0	10.2	3	0	1022	1023	1	-0.49	0.00	14.2	4.78
13/05/2023 17:46	0.0	7.4	8.8	3	0	1021	1023	2	-0.50	0.00	14.3	4.77
13/05/2023 18:46	0.0	8.6	7.8	3	0	1021	1022	1	-0.51	0.00	14.4	4.77
13/05/2023 19:46	0.0	9.4	7.1	3	0	1020	1022	2	-0.48	0.00	14.4	4.76
13/05/2023 20:46	0.0	9.8	6.5	3	0	1020	1022	2	-0.42	0.00	14.3	4.76
13/05/2023 21:46	0.0	10.2	6.2	3	1	1020	1021	1	-0.46	0.00	14.2	4.76
13/05/2023 22:46	0.0	10.9	5.9	3	0	1019	1020	1	-0.40	0.00	14.1	4.75
13/05/2023 23:46	0.0	11.5	5.3	3	0	1019	1020	1	-0.41	0.00	13.9	4.75
14/05/2023 00:46	0.0	12.0	4.8	3	1	1018	1019	1	-0.46	0.00	13.8	4.74
14/05/2023 01:46	0.0	12.3	4.3	3	0	1017	1018	1	-0.47	0.00	13.6	4.73
14/05/2023 02:46	0.0	12.9	3.8	3	0	1017	1018	1	-0.48	0.00	13.6	4.73
14/05/2023 03:46	0.0	13.4	3.5	3	0	1016	1017	1	-0.53	0.00	13.4	4.72
14/05/2023 04:46	0.0	13.8	3.3	3	0	1016	1017	1	-0.50	0.00	13.3	4.72
14/05/2023 05:46	0.0	13.9	3.1	3	0	1015	1017	2	-0.43	0.00	13.3	4.71
14/05/2023 06:46	0.0	14.0	2.9	3	0	1015	1017	2	-0.38	0.00	13.1	4.71
14/05/2023 07:46	0.0	14.3	2.9	3	0	1015	1017	2	-0.28	0.00	13.1	4.71
14/05/2023 08:46	0.0	14.0	2.8	3	0	1014	1016	2	-0.25	0.00	13.1	4.71
14/05/2023 09:46	0.0	14.3	2.8	3	0	1014	1016	2	-0.23	0.00	13.1	4.71
14/05/2023 10:46	0.0	14.3	2.7	3	0	1014	1016	2	-0.15	0.00	13.1	4.71
14/05/2023 11:46	0.0	14.3	2.7	3	0	1014	1016	2	-0.13	0.00	13.1	4.71
14/05/2023 12:46	0.0	13.7	3.6	3	0	1014	1016	2	-0.09	0.00	13.1	4.70
14/05/2023 13:46	0.0	13.3	3.8	3	0	1014	1016	2	-0.05	0.00	13.1	4.71
14/05/2023 14:46	0.0	11.8	5.4	3	0	1014	1017	3	-0.02	0.00	13.1	4.71
14/05/2023 15:46	0.0	9.8	7.5	3	0	1014	1017	3	0.05	0.00	13.2	4.71
14/05/2023 16:46	0.0	8.8	8.4	3	1	1014	1017	3	0.09	0.00	13.3	4.72
14/05/2023 17:46	0.0	8.4	8.7	3	0	1014	1017	3	0.11	0.00	13.5	4.72
14/05/2023 18:46	0.0	6.7	10.3	3	1	1015	1017	2	0.19	0.00	13.7	4.72
14/05/2023 19:46	0.0	4.6	12.6	3	0	1015	1018	3	0.18	0.00	13.8	4.72
14/05/2023 20:46	0.0	3.6	13.7	3	0	1015	1018	3	0.20	0.00	13.8	4.72
14/05/2023 21:46	0.0	3.4	14.0	3	0	1016	1018	2	0.21	0.00	13.7	4.73
14/05/2023 22:46	0.0	2.3	15.2	3	0	1016	1018	2	0.20	0.00	13.6	4.73
14/05/2023 23:46	0.0	2.0	15.6	3	0	1016	1018	2	0.18	0.00	13.4	4.73
15/05/2023 00:46	0.0	1.9	15.7	3	0	1016	1018	2	0.17	0.00	13.3	4.73
15/05/2023 01:46	0.0	1.7	15.9	3	0	1016	1018	2	0.13	0.00	13.1	4.73
15/05/2023 02:46	0.0	1.7	15.9	3	0	1016	1019	3	0.15	0.00	12.9	4.73
15/05/2023 03:46	0.0	1.2	16.5	3	1	1016	1019	3	0.13	0.00	12.7	4.73
15/05/2023 04:46	0.0	1.1	16.7	3	0	1017	1019	2	0.13	0.00	12.5	4.74
15/05/2023 05:46	0.0	0.6	17.3	3	0	1017	1020	3	0.17	0.00	12.4	4.74
15/05/2023 06:46	0.0	0.1	18.0	3	0	1017	1020	3	0.21	0.00	12.3	4.74
15/05/2023 07:46	0.0	0.0	18.1	3	0	1018	1020	2	0.26	0.00	12.1	4.75
15/05/2023 08:46	0.0	0.0	18.3	3	0	1018	1021	3	0.28	0.00	12.1	4.75
15/05/2023 09:46	0.0	0.0	18.4	3	0	1018	1021	3	0.23	0.00	12.2	4.75
15/05/2023 10:46	0.0	0.0	18.4	3	0	1019	1021	2	0.24	0.00	12.3	4.75
15/05/2023 11:46	0.0	0.0	18.2	3	0	1018	1021	3	0.23	0.00	12.5	4.75
15/05/2023 12:46	0.0	0.0	18.2	3	0	1019	1021	2	0.21	0.00	12.6	4.76
15/05/2023 13:46	0.0	0.0	18.1	3	1	1019	1021	2	0.17	0.00	12.9	4.76
15/05/2023 14:46	0.0	0.0	18.1	3	0	1019	1022	3	0.15	0.00	13.1	4.76
15/05/2023 15:46	0.0	0.0	18.1	3	0	1019	1022	3	0.13	0.00	13.3	4.76
15/05/2023 16:46	0.0	0.0	18.0	3	0	1019	1022	3	0.19	0.00	13.6	4.76
15/05/2023 17:46	0.0	0.0	18.0	3	0	1019	1022	3	0.17	0.00	13.8	4.77
15/05/2023 18:46	0.0	0.0	18.2	3	0	1020	1022	2	0.17	0.00	14.0	4.77
15/05/2023 19:46	0.0	0.0	18.3	3	0	1020	1023	3	0.17	0.00	14.1	4.77
15/05/2023 20:46	0.0	0.0	18.3	3	0	1020	1023	3	0.18	0.00	14.1	4.77
15/05/2023 21:46	0.0	0.0	18.3	3	0	1021	1023	2	0.12	0.00	14.0	4.77
15/05/2023 22:46	0.0	0.0	18.2	3	0	1020	1023	3	0.11	0.00	13.8	4.77
15/05/2023 23:46	0.0	0.0	18.0	3	0	1020	1023	3	0.09	0.00	13.6	4.77
16/05/2023 00:46	0.0	0.0	18.0	3	0	1021	1022	1	0.00	0.00	13.4	4.77
16/05/2023 01:46	0.0	0.1	17.8	3	0	1021	1022	1	-0.03	0.00	13.3	4.77
16/05/2023 02:46	0.0	0.4	17.3	3	0	1020	1022	2	-0.10	0.00	13.1	4.77
16/05/2023 03:46	0.0	0.5	16.8	3	0	1020	1022	2	-0.13	0.00	13.0	4.76
16/05/2023 04:46	0.0	0.8	16.3	3	0	1020	1022	2	-0.08	0.00	12.9	4.76
16/05/2023 05:46	0.0	1.0	16.1	3	1	1020	1023	3	0.00	0.00	12.8	4.76
16/05/2023 06:46	0.0	0.8	16.4	3	0	1020	1023	3	0.02	0.00	12.8	4.77
16/05/2023 07:46	0.0	0.1	17.7	3	0	1020	1023	3	0.11	0.00	12.7	4.77
16/05/2023 08:46	0.0	0.0	18.0	3	0	1021	1023	2	0.13	0.00	12.6	4.78
16/05/2023 09:46	0.0	0.0	18.0	3	1	1021	1023	2	0.15	0.00	12.6	4.78
16/05/2023 10:46	0.0	0.0	17.8	3	0	1021	1023	2	0.18	0.00	12.7	4.78
16/05/2023 11:46	0.0	0.1	17.5	3	0	1021	1023	2	0.16	0.00	12.8	4.77
16/05/2023 12:46	0.0	0.2	17.2	3	0	1021	1024	3	0.14	0.00	12.8	4.78
16/05/2023 13:46	0.0	0.5	16.8	3	0	1021	1024	3	0.12	0.00	13.0	4.78
16/05/2023 14:46	0.0	0.1	17.4	3	0	1022	1024	2	0.12	0.00	13.3	4.78
16/05/2023 15:46	0.0	0.1	17.6	3	0	1022	1024	2	0.13	0.00	13.5	4.78
16/05/2023 16:46	0.0	0.0	17.7	3	0	1022	1025	3	0.18	0.00	13.7	4.79
16/05/2023 17:46	0.0	0.0	17.8	3	0	1022	1025	3	0.19	0.00	13.8	4.79
16/05/2023 18:46	0.0	0.0	17.7	3	0	1022	1025	3	0.21	0.00	14.0	4.79
16/05/2023 19:46	0.0	0.0	18.0	3	0	1023	1025	2	0.20	0.00	14.1	4.79
16/05/2023 20:46	0.0	0.0	18.0	3	0	1023	1026	3	0.22	0.00	14.1	4.80
16/05/2023 21:46	0.0	0.0	18.3	3	1	1023	1026	3	0.22	0.00	14.0	4.80
16/05/2023 22:46	0.0	0.0	18.4	3	0	1023	1026	3	0.20	0.00	13.9	4.80
16/05/2023 23:46	0.0	0.0	18.4	3	0	1024	1026	2	0.18	0.00	13.7	4.80
17/05/2023 00:46	0.0	0.0	18.3	3	0	1024	1026	2	0.16	0.00	13.5	4.80
17/05/2023 01:46	0.0	0.0	18.3	3	0	1024	1026	2	0.12	0.00	13.4	4.80
17/05/2023 02:46	0.0	0.0	18.1	3	0	1024	1026	2	0.06	0.00	13.3	4.80
17/05/2023 03:46	0.0	0.0	17.9	3	0	1024	1026	2	0.01	0.00	13.2	4.80
17/05/2023 04:46	0.0	0.0	17.7	3	0	1024	1026	2	0.04	0.00	13.1	4.80
17/05/2023 05:46	0.0	0.0	17.6	3	0	1024	1027	3	0.09	0.00	13.1	4.80
17/05/2023 06:46	0.0	0.0	18.3	3	0	1024	1027	3	0.09	0.00	13.0	4.81
17/05/2023 07:46	0.0	0.0	18.5	3	0	1024	1027	3	0.11	0.00	12.9	4.81
17/05/2023 08:46	0.0	0.0	18.4	3	0	1025	1027	2	0.15	0.00	12.9	4.81
17/05/2023 09:46	0.0	0.0	18.3	3	0	1025	1027	2	0.15	0.00	13.0	4.81
17/05/2023 10:46	0.0	0.0	18.2	3	0	1025	1027	2	0.12	0.00	13.2	4.81
17/05/2023 11:46	0.0	0.0	18.1	3	0	1025	1026	1	0.03	0.00	13.4	4.81
17/05/2023 12:46	0.0	0.0	17.8	3	0	1024	1026	2	-0.02	0.00	13.6	4.81
17/05/2023 13:46	0.0	0.1	17.4	3	0	1024	1026	2	-0.05	0.00	13.9	4.81
17/05/2023 14:46	0.0	0.2	17.2	3	0	1024	1026	2	-0.11	0.00	14.1	

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
18/05/2023 09:46	0.0	1.3	15.7	3	0	1023	1025	2	0.06	0.00	13.3	4.79
18/05/2023 10:46	0.0	1.9	14.9	3	0	1022	1024	2	0.06	0.00	13.4	4.79
18/05/2023 11:46	0.0	2.4	14.3	3	0	1022	1025	3	0.06	0.00	13.4	4.79
18/05/2023 12:46	0.0	2.5	14.1	3	0	1022	1024	2	0.03	0.00	13.6	4.79
18/05/2023 13:46	0.0	2.6	13.9	3	0	1022	1024	2	-0.01	0.00	13.7	4.79
18/05/2023 14:46	0.0	3.1	13.4	3	0	1022	1024	2	-0.07	0.00	13.8	4.79
18/05/2023 15:46	0.0	3.4	13.1	3	0	1022	1024	2	-0.05	0.00	13.9	4.78
18/05/2023 16:46	0.0	3.6	12.8	3	1	1022	1024	2	-0.06	0.00	14.0	4.78
18/05/2023 17:46	0.0	3.5	13.1	3	0	1022	1024	2	-0.04	0.00	14.0	4.78
18/05/2023 18:46	0.0	3.7	12.8	3	0	1022	1024	2	-0.04	0.00	14.0	4.79
18/05/2023 19:46	0.0	3.2	13.4	3	0	1022	1025	3	0.02	0.00	13.9	4.79
18/05/2023 20:46	0.0	2.0	14.9	3	0	1022	1025	3	0.08	0.00	13.9	4.79
18/05/2023 21:46	0.0	0.8	16.5	3	0	1023	1025	2	0.15	0.00	13.9	4.79
18/05/2023 22:46	0.0	0.5	17.1	3	0	1023	1026	3	0.18	0.00	13.8	4.80
18/05/2023 23:46	0.0	0.3	17.3	3	0	1023	1026	3	0.21	0.00	13.7	4.80
19/05/2023 00:46	0.0	0.4	17.2	3	0	1023	1026	3	0.18	0.00	13.6	4.80
19/05/2023 01:46	0.0	0.4	17.2	3	0	1023	1026	3	0.18	0.00	13.5	4.80
19/05/2023 02:46	0.0	0.6	16.9	3	0	1023	1026	3	0.13	0.00	13.4	4.80
19/05/2023 03:46	0.0	0.3	17.3	3	0	1024	1026	2	0.11	0.00	13.3	4.80
19/05/2023 04:46	0.0	0.6	16.9	3	0	1024	1026	2	0.13	0.00	13.2	4.80
19/05/2023 05:46	0.0	0.1	17.6	3	1	1024	1027	3	0.11	0.00	13.1	4.81
19/05/2023 06:46	0.0	0.0	17.9	3	0	1024	1027	3	0.18	0.00	13.0	4.81
19/05/2023 07:46	0.0	0.0	18.0	3	0	1024	1027	3	0.19	0.00	13.0	4.81
19/05/2023 08:46	0.0	0.0	18.5	3	0	1025	1027	2	0.17	0.00	13.0	4.81
19/05/2023 09:46	0.0	0.0	18.3	3	0	1025	1027	2	0.21	0.00	13.1	4.81
19/05/2023 10:46	0.0	0.0	18.2	3	0	1025	1027	2	0.19	0.00	13.3	4.82
19/05/2023 11:46	0.0	0.0	18.2	3	0	1025	1027	2	0.13	0.00	13.4	4.82
19/05/2023 12:46	0.0	0.0	18.1	3	0	1025	1028	3	0.14	0.00	13.6	4.82
19/05/2023 13:46	0.0	0.0	18.0	3	0	1025	1028	3	0.10	0.00	13.9	4.82
19/05/2023 14:46	0.0	0.0	17.9	3	1	1026	1028	2	0.11	0.00	14.2	4.82
19/05/2023 15:46	0.0	0.0	17.9	3	0	1026	1028	2	0.07	0.00	14.6	4.82
19/05/2023 16:46	0.0	0.0	17.7	3	0	1026	1028	2	0.03	0.00	14.9	4.82
19/05/2023 17:46	0.0	0.1	17.6	3	0	1026	1028	2	0.01	0.00	15.3	4.82
19/05/2023 18:46	0.0	0.2	17.4	3	0	1026	1028	2	0.06	0.00	15.4	4.82
19/05/2023 19:46	0.0	0.2	17.3	3	0	1026	1028	2	0.04	0.00	15.5	4.82
19/05/2023 20:46	0.0	0.2	17.4	3	0	1026	1028	2	0.03	0.00	15.5	4.82
19/05/2023 21:46	0.0	0.1	17.6	3	0	1026	1028	2	0.02	0.00	15.4	4.82
19/05/2023 22:46	0.0	0.2	17.4	3	0	1026	1028	2	0.07	0.00	15.2	4.82
19/05/2023 23:46	0.0	0.4	17.1	3	0	1026	1028	2	0.08	0.00	15.0	4.83
20/05/2023 00:46	0.0	0.4	17.2	3	0	1026	1028	2	0.03	0.00	14.9	4.82
20/05/2023 01:46	0.0	0.5	16.8	3	0	1026	1028	2	-0.03	0.00	14.7	4.82
20/05/2023 02:46	0.0	0.8	16.2	3	0	1026	1027	1	-0.07	0.00	14.6	4.82
20/05/2023 03:46	0.0	1.2	15.6	3	0	1026	1027	1	-0.14	0.00	14.4	4.81
20/05/2023 04:46	0.0	1.5	15.2	3	0	1025	1027	2	-0.13	0.00	14.3	4.81
20/05/2023 05:46	0.0	2.0	14.5	3	0	1025	1027	2	-0.15	0.00	14.2	4.81
20/05/2023 06:46	0.0	2.2	14.3	3	0	1025	1027	2	-0.13	0.00	14.1	4.81
20/05/2023 07:46	0.0	1.7	15.0	3	1	1025	1027	2	-0.07	0.00	14.0	4.81
20/05/2023 08:46	0.0	1.9	14.7	3	0	1025	1027	2	-0.08	0.00	14.0	4.81
20/05/2023 09:46	0.0	1.4	15.4	3	0	1025	1027	2	-0.05	0.00	14.0	4.81
20/05/2023 10:46	0.0	2.0	14.6	3	0	1025	1027	2	-0.03	0.00	14.0	4.81
20/05/2023 11:46	0.0	2.4	14.2	3	1	1025	1026	1	-0.09	0.00	14.1	4.81
20/05/2023 12:46	0.0	2.8	13.8	3	0	1025	1026	1	-0.12	0.00	14.1	4.81
20/05/2023 13:46	0.0	3.4	13.0	3	0	1024	1026	2	-0.19	0.00	14.1	4.80
20/05/2023 14:46	0.0	4.1	12.2	3	0	1024	1025	1	-0.29	0.00	14.2	4.80
20/05/2023 15:46	0.0	5.1	11.2	3	0	1023	1025	2	-0.31	0.00	14.3	4.79
20/05/2023 16:46	0.0	6.3	10.0	3	1	1023	1024	1	-0.36	0.00	14.4	4.79
20/05/2023 17:46	0.0	6.9	9.3	3	0	1023	1024	1	-0.34	0.00	14.4	4.78
20/05/2023 18:46	0.0	7.5	8.7	3	0	1022	1024	2	-0.28	0.00	14.4	4.78
20/05/2023 19:46	0.0	7.8	8.7	3	0	1022	1024	2	-0.30	0.00	14.4	4.79
20/05/2023 20:46	0.0	7.2	9.3	3	0	1022	1024	2	-0.24	0.00	14.4	4.78
20/05/2023 21:46	0.0	7.7	8.8	3	0	1022	1023	1	-0.18	0.00	14.4	4.78
20/05/2023 22:46	0.0	7.4	9.1	3	0	1022	1023	1	-0.14	0.00	14.3	4.78
20/05/2023 23:46	0.0	8.0	8.6	3	0	1022	1023	1	-0.16	0.00	14.3	4.78
21/05/2023 00:46	0.0	8.3	8.3	3	0	1021	1023	2	-0.16	0.00	14.2	4.77
21/05/2023 01:46	0.0	8.7	7.8	3	0	1021	1022	1	-0.19	0.00	14.1	4.77
21/05/2023 02:46	0.0	9.2	7.4	3	0	1021	1023	2	-0.14	0.00	14.1	4.77
21/05/2023 03:46	0.0	9.7	7.1	3	0	1021	1022	1	-0.19	0.00	13.9	4.77
21/05/2023 04:46	0.0	9.6	7.2	3	1	1021	1022	1	-0.15	0.00	13.9	4.77
21/05/2023 05:46	0.0	10.0	6.8	3	1	1020	1022	2	-0.13	0.00	13.8	4.77
21/05/2023 06:46	0.0	9.6	7.3	3	0	1020	1023	3	0.00	0.00	13.8	4.77
21/05/2023 07:46	0.0	6.0	11.1	3	0	1021	1023	2	0.04	0.00	13.8	4.78
21/05/2023 08:46	0.0	3.4	13.9	3	0	1021	1023	2	0.11	0.00	13.8	4.78
21/05/2023 09:46	0.0	2.6	14.6	3	0	1021	1023	2	0.09	0.00	13.8	4.78
21/05/2023 10:46	0.0	2.0	15.2	3	0	1021	1023	2	0.13	0.00	13.8	4.78
21/05/2023 11:46	0.0	2.4	14.7	3	0	1021	1023	2	0.11	0.00	13.8	4.78
21/05/2023 12:46	0.0	3.0	14.1	3	0	1021	1023	2	0.12	0.00	13.9	4.78
21/05/2023 13:46	0.0	3.4	13.6	3	0	1021	1023	2	0.04	0.00	14.0	4.78
21/05/2023 14:46	0.0	3.2	13.7	3	0	1021	1023	2	0.00	0.00	14.1	4.78
21/05/2023 15:46	0.0	3.8	13.2	3	0	1021	1023	2	-0.05	0.00	14.3	4.77
21/05/2023 16:46	0.0	4.3	12.5	3	0	1021	1023	2	-0.09	0.00	14.4	4.77
21/05/2023 17:46	0.0	4.8	12.0	3	0	1021	1022	1	-0.10	0.00	14.6	4.77
21/05/2023 18:46	0.0	5.3	11.6	3	0	1020	1023	3	-0.07	0.00	14.9	4.77
21/05/2023 19:46	0.0	5.3	11.6	3	0	1020	1023	3	-0.08	0.00	15.1	4.77
21/05/2023 20:46	0.0	4.6	12.5	3	0	1021	1023	2	-0.06	0.00	15.2	4.77
21/05/2023 21:46	0.0	4.0	13.1	3	0	1021	1023	2	-0.03	0.00	15.2	4.77
21/05/2023 22:46	0.0	3.8	13.2	3	0	1021	1023	2	-0.05	0.00	15.1	4.77
21/05/2023 23:46	0.0	4.3	12.8	3	0	1021	1023	2	0.00	0.00	15.0	4.77
22/05/2023 00:46	0.0	4.4	12.5	3	0	1021	1023	2	0.02	0.00	14.8	4.77
22/05/2023 01:46	0.0	4.8	12.2	3	0	1021	1023	2	0.01	0.00	14.6	4.77
22/05/2023 02:46	0.0	4.9	11.9	3	0	1021	1023	2	0.02	0.00	14.5	4.77
22/05/2023 03:46	0.0	5.1	11.8	3	0	1021	1023	2	0.02	0.00	14.3	4.77
22/05/2023 04:46	0.0	4.9	11.9	3	0	1021	1023	2	0.04	0.00	14.2	4.77
22/05/2023 05:46	0.0	4.9	11.9	3	0	1021	1023	2	0.11	0.00	14.1	4.77
22/05/2023 06:46	0.0	3.8	13.2	3	0	1021	1024	3	0.16	0.00	13.9	4.78
22/05/2023 07:46	0.0	2.5	14.7	3	0	1021	1024	3	0.19	0.00	13.8	4.78
22/05/2023 08:46	0.0	1.3	16.1	3	0	1022	1024	2	0.19	0.00	13.7	4.79
22/05/2023 09:46	0.0	1.0	16.5	3	0	1022	1024	2	0.16	0.00	13.7	4.79
22/05/2023 10:46	0.0	1.2	16.2	3	0	1022	1024	2	0.15	0.00	13.8	4.79
22/05/2023 11:46	0.0	1.5	15.7	3	0	1022	1024	2	0.16	0.00	13.9	4.79
22/05/2023 12:46	0.0	1.9	15.2	3	0	1022	1025	3	0.15	0.00	14.1	4.79

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
23/05/2023 07:46	0.0	1.1	16.2	3	0	1024	1027	3	0.05	0.00	13.8	4.81
23/05/2023 08:46	0.0	1.1	16.2	3	1	1024	1027	3	0.03	0.00	13.7	4.81
23/05/2023 09:46	0.0	0.8	16.5	3	0	1025	1027	2	0.03	0.00	13.7	4.81
23/05/2023 10:46	0.0	1.1	16.0	3	0	1024	1026	2	-0.01	0.00	13.8	4.81
23/05/2023 11:46	0.0	1.4	15.5	3	0	1024	1026	2	-0.06	0.00	13.8	4.81
23/05/2023 12:46	0.0	1.9	14.9	3	0	1024	1026	2	-0.10	0.00	14.0	4.80
23/05/2023 13:46	0.0	2.4	14.3	3	0	1024	1026	2	-0.10	0.00	14.2	4.80
23/05/2023 14:46	0.0	2.5	14.1	3	0	1024	1026	2	-0.13	0.00	14.3	4.80
23/05/2023 15:46	0.0	2.6	14.1	3	0	1024	1025	1	-0.24	0.00	14.4	4.80
23/05/2023 16:46	0.0	3.4	13.3	3	1	1023	1025	2	-0.20	0.00	14.5	4.79
23/05/2023 17:46	0.0	4.2	12.3	3	0	1023	1025	2	-0.16	0.00	14.5	4.79
23/05/2023 18:46	0.0	4.6	11.9	3	0	1023	1025	2	-0.11	0.00	14.5	4.79
23/05/2023 19:46	0.0	4.2	12.5	3	0	1023	1025	2	-0.09	0.00	14.5	4.80
23/05/2023 20:46	0.0	4.0	12.6	3	0	1023	1025	2	-0.09	0.00	14.4	4.80
23/05/2023 21:46	0.0	3.5	13.2	3	0	1023	1025	2	-0.06	0.00	14.4	4.80
23/05/2023 22:46	0.0	2.6	14.3	3	0	1023	1025	2	0.01	0.00	14.3	4.80
23/05/2023 23:46	0.0	2.9	14.0	3	0	1023	1024	1	-0.07	0.00	14.2	4.79
24/05/2023 00:46	0.0	3.8	12.8	3	0	1023	1024	1	-0.13	0.00	14.1	4.79
24/05/2023 01:46	0.0	4.8	11.9	3	1	1023	1024	1	-0.14	0.00	13.9	4.79
24/05/2023 02:46	0.0	5.6	11.0	3	0	1022	1024	2	-0.17	0.00	13.8	4.79
24/05/2023 03:46	0.0	6.3	10.3	3	0	1022	1024	2	-0.14	0.00	13.7	4.78
24/05/2023 04:46	0.0	6.5	10.2	3	1	1022	1024	2	-0.09	0.00	13.6	4.79
24/05/2023 05:46	0.0	5.9	10.9	3	0	1022	1025	3	0.02	0.00	13.5	4.79
24/05/2023 06:46	0.0	2.6	14.5	3	0	1023	1025	2	0.13	0.00	13.4	4.80
24/05/2023 07:46	0.0	1.2	16.3	3	0	1023	1026	3	0.24	0.00	13.4	4.80
24/05/2023 08:46	0.0	0.6	17.0	3	0	1023	1026	3	0.29	0.00	13.4	4.80
24/05/2023 09:46	0.0	0.2	17.5	3	0	1024	1026	2	0.33	0.00	13.4	4.81
24/05/2023 10:46	0.0	0.2	17.7	3	0	1024	1026	2	0.27	0.00	13.4	4.81
24/05/2023 11:46	0.0	0.1	17.7	3	1	1024	1027	3	0.26	0.00	13.5	4.81
24/05/2023 12:46	0.0	0.5	17.2	3	0	1024	1026	2	0.17	0.00	13.6	4.81
24/05/2023 13:46	0.0	0.7	16.7	3	0	1024	1027	3	0.15	0.00	13.8	4.81
24/05/2023 14:46	0.0	1.0	16.3	3	0	1024	1027	3	0.10	0.00	13.9	4.81
24/05/2023 15:46	0.0	1.0	16.3	3	0	1024	1027	3	0.07	0.00	14.2	4.81
24/05/2023 16:46	0.0	1.1	16.2	3	0	1025	1027	2	0.09	0.00	14.4	4.81
24/05/2023 17:46	0.0	1.2	16.0	3	0	1025	1027	2	0.11	0.00	14.5	4.82
24/05/2023 18:46	0.0	1.4	15.8	3	0	1025	1027	2	0.07	0.00	14.7	4.82
24/05/2023 19:46	0.0	1.3	15.9	3	0	1025	1027	2	0.07	0.00	14.8	4.82
24/05/2023 20:46	0.0	1.7	15.5	3	0	1025	1028	3	0.13	0.00	14.9	4.81
24/05/2023 21:46	0.0	1.3	15.9	3	0	1025	1027	2	0.09	0.00	14.8	4.82
24/05/2023 22:46	0.0	0.7	16.9	3	0	1026	1028	2	0.09	0.00	14.7	4.82
24/05/2023 23:46	0.0	1.4	15.9	3	0	1026	1028	2	0.10	0.00	14.5	4.82
25/05/2023 00:46	0.0	1.1	16.2	3	0	1026	1028	2	0.13	0.00	14.3	4.82
25/05/2023 01:46	0.0	0.6	16.9	3	1	1026	1028	2	0.14	0.00	14.1	4.83
25/05/2023 02:46	0.0	0.5	17.2	3	0	1026	1028	2	0.18	0.00	13.9	4.83
25/05/2023 03:46	0.0	0.6	16.8	3	0	1026	1029	3	0.15	0.00	13.8	4.83
25/05/2023 04:46	0.0	0.5	17.1	3	1	1026	1029	3	0.21	0.00	13.6	4.83
25/05/2023 05:46	0.0	0.4	17.4	3	0	1027	1030	3	0.29	0.00	13.4	4.84
25/05/2023 06:46	0.0	0.1	17.8	3	0	1027	1030	3	0.27	0.00	13.3	4.84
25/05/2023 07:46	0.0	0.0	18.2	3	0	1028	1030	2	0.25	0.00	13.1	4.84
25/05/2023 08:46	0.0	0.0	18.0	3	0	1028	1030	2	0.27	0.00	13.2	4.85
25/05/2023 09:46	0.0	0.0	18.1	3	0	1028	1030	2	0.26	0.00	13.3	4.85
25/05/2023 10:46	0.0	0.0	17.9	3	0	1028	1030	2	0.19	0.00	13.5	4.85
25/05/2023 11:46	0.0	0.1	17.7	3	0	1028	1030	2	0.14	0.00	13.7	4.85
25/05/2023 12:46	0.0	0.4	17.1	3	0	1028	1030	2	0.02	0.00	13.9	4.85
25/05/2023 13:46	0.0	0.6	16.8	3	0	1028	1030	2	0.02	0.00	14.3	4.84
25/05/2023 14:46	0.0	1.0	16.2	3	0	1028	1030	2	-0.02	0.00	14.6	4.85
25/05/2023 15:46	0.0	1.2	15.9	3	0	1028	1030	2	-0.02	0.00	14.9	4.84
25/05/2023 16:46	0.0	1.8	15.2	3	0	1028	1030	2	-0.05	0.00	15.2	4.85
25/05/2023 17:46	0.0	1.9	15.0	3	0	1028	1030	2	-0.03	0.00	15.4	4.84
25/05/2023 18:46	0.0	2.3	14.6	3	0	1028	1030	2	-0.03	0.00	15.7	4.84
25/05/2023 19:46	0.0	2.5	14.4	3	0	1028	1031	3	0.06	0.00	15.8	4.84
25/05/2023 20:46	0.0	2.8	14.2	3	0	1028	1031	3	0.04	0.00	15.9	4.85
25/05/2023 21:46	0.0	1.3	16.0	3	0	1029	1030	1	0.05	0.00	15.8	4.85
25/05/2023 22:46	0.0	2.0	15.1	3	0	1028	1031	3	0.05	0.00	15.6	4.85
25/05/2023 23:46	0.0	2.2	14.9	3	0	1029	1031	2	0.07	0.00	15.4	4.85
26/05/2023 00:46	0.0	2.3	14.7	3	0	1029	1030	1	0.05	0.00	15.1	4.85
26/05/2023 01:46	0.0	1.9	15.2	3	1	1029	1031	2	0.07	0.00	14.9	4.85
26/05/2023 02:46	0.0	2.6	14.3	3	0	1028	1031	3	0.00	0.00	14.7	4.85
26/05/2023 03:46	0.0	2.3	14.7	3	0	1029	1031	2	0.02	0.00	14.5	4.85
26/05/2023 04:46	0.0	2.2	14.9	3	1	1029	1031	2	0.07	0.00	14.3	4.85
26/05/2023 05:46	0.0	2.5	14.5	3	0	1029	1032	3	0.12	0.00	14.1	4.85
26/05/2023 06:46	0.0	1.1	16.3	3	0	1029	1032	3	0.13	0.00	13.9	4.86
26/05/2023 07:46	0.0	0.4	17.3	3	0	1030	1032	2	0.21	0.00	13.8	4.86
26/05/2023 08:46	0.0	0.5	17.1	3	0	1030	1032	2	0.21	0.00	13.9	4.86
26/05/2023 09:46	0.0	0.5	17.1	3	0	1030	1032	2	0.17	0.00	13.9	4.86
26/05/2023 10:46	0.0	0.4	17.2	3	0	1030	1032	2	0.14	0.00	14.1	4.86
26/05/2023 11:46	0.0	0.7	16.6	3	0	1030	1032	2	0.05	0.00	14.3	4.86
26/05/2023 12:46	0.0	1.2	16.0	3	0	1030	1031	1	-0.03	0.00	14.6	4.86
26/05/2023 13:46	0.0	1.8	15.3	3	0	1029	1031	2	-0.07	0.00	14.9	4.86
26/05/2023 14:46	0.0	2.3	14.7	3	0	1029	1031	2	-0.15	0.00	15.2	4.85
26/05/2023 15:46	0.0	2.8	14.1	3	0	1029	1030	1	-0.25	0.00	15.6	4.85
26/05/2023 16:46	0.0	3.5	13.3	3	0	1029	1030	1	-0.25	0.00	16.0	4.85
26/05/2023 17:46	0.0	4.3	12.5	3	0	1028	1029	1	-0.30	0.00	16.3	4.84
26/05/2023 18:46	0.0	5.1	11.7	3	0	1028	1030	2	-0.24	0.00	16.6	4.84
26/05/2023 19:46	0.0	5.7	11.1	3	0	1027	1029	2	-0.26	0.00	16.8	4.84
26/05/2023 20:46	0.0	5.9	11.0	3	0	1027	1029	2	-0.26	0.00	16.8	4.84
26/05/2023 21:46	0.0	6.3	10.6	3	0	1027	1029	2	-0.22	0.00	16.6	4.83
26/05/2023 22:46	0.0	6.4	10.6	3	0	1027	1029	2	-0.18	0.00	16.4	4.84
26/05/2023 23:46	0.0	6.1	10.9	3	0	1027	1028	1	-0.19	0.00	16.1	4.83
27/05/2023 00:46	0.0	6.6	10.4	3	0	1027	1028	1	-0.20	0.00	15.8	4.83
27/05/2023 01:46	0.0	7.2	9.9	3	0	1026	1027	1	-0.28	0.00	15.6	4.82
27/05/2023 02:46	0.0	7.9	9.2	3	0	1026	1027	1	-0.34	0.00	15.3	4.82
27/05/2023 03:46	0.0	8.6	8.5	3	0	1025	1026	1	-0.37	0.00	15.1	4.81
27/05/2023 04:46	0.0	9.6	7.6	3	0	1024	1026	2	-0.39	0.00	14.8	4.81
27/05/2023 05:46	0.0	10.3	7.1	3	0	1024	1026	2	-0.39	0.00	14.6	4.81
27/05/2023 06:46	0.0	10.6	6.8	3	0	1024	1025	1	-0.40	0.00	14.4	4.80
27/05/2023 07:46	0.0	10.8	6.5	3	0	1023	1025	2	-0.33	0.00	14.3	4.80
27/05/2023 08:46	0.0	11.5	6.0	3	0	1023	1025	2	-0.28	0.00	14.3	4.80
27/05/2023 09:46	0.0	11.6	5.9	3	0	1023	1025	2	-0.24	0.00	14.3	4.80
27/05/2023 10:46	0.0	11.6	5.9	3	0	1023	1024	1	-0.26	0.00	14.4	

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
28/05/2023 05:46	0.0	0.6	17.5	3	0	1024	1026	2	0.17	0.00	13.9	4.81
28/05/2023 06:46	0.0	0.2	17.9	3	0	1024	1026	2	0.21	0.00	13.7	4.81
28/05/2023 07:46	0.0	0.2	17.8	3	0	1024	1027	3	0.29	0.00	13.6	4.81
28/05/2023 08:46	0.0	0.4	17.6	3	0	1024	1027	3	0.28	0.00	13.6	4.82
28/05/2023 09:46	0.0	0.0	18.1	3	0	1025	1027	2	0.22	0.00	13.8	4.82
28/05/2023 10:46	0.0	0.2	17.7	3	0	1025	1027	2	0.18	0.00	13.9	4.81
28/05/2023 11:46	0.0	0.6	17.1	3	0	1025	1027	2	0.13	0.00	14.1	4.81
28/05/2023 12:46	0.0	0.6	17.1	3	0	1025	1027	2	0.04	0.00	14.3	4.82
28/05/2023 13:46	0.0	0.8	16.8	3	0	1025	1027	2	0.04	0.00	14.6	4.81
28/05/2023 14:46	0.0	1.3	16.1	3	0	1025	1027	2	-0.05	0.00	14.9	4.81
28/05/2023 15:46	0.0	1.4	15.9	3	0	1025	1026	1	-0.10	0.00	15.2	4.81
28/05/2023 16:46	0.0	1.9	15.3	3	0	1024	1026	2	-0.02	0.00	15.5	4.81
28/05/2023 17:46	0.0	2.4	14.7	3	0	1024	1027	3	-0.03	0.00	15.8	4.81
28/05/2023 18:46	0.0	2.6	14.5	3	0	1024	1027	3	-0.02	0.00	15.9	4.81
28/05/2023 19:46	0.0	2.4	14.7	3	0	1025	1027	2	0.06	0.00	15.9	4.81
28/05/2023 20:46	0.0	1.9	15.5	3	0	1025	1027	2	0.06	0.00	15.9	4.82
28/05/2023 21:46	0.0	1.6	15.9	3	0	1025	1028	3	0.12	0.00	15.8	4.82
28/05/2023 22:46	0.0	1.3	16.1	3	0	1026	1028	2	0.16	0.00	15.6	4.82
28/05/2023 23:46	0.0	1.2	16.4	3	0	1026	1028	2	0.14	0.00	15.3	4.82
29/05/2023 00:46	0.0	1.1	16.5	3	0	1026	1028	2	0.18	0.00	15.1	4.82
29/05/2023 01:46	0.0	0.8	16.9	3	0	1026	1028	2	0.14	0.00	14.8	4.83
29/05/2023 02:46	0.0	0.4	17.5	3	1	1026	1028	2	0.16	0.00	14.5	4.82
29/05/2023 03:46	0.0	0.5	17.3	3	0	1026	1029	3	0.16	0.00	14.3	4.83
29/05/2023 04:46	0.0	0.1	17.9	3	0	1026	1029	3	0.18	0.00	14.1	4.83
29/05/2023 05:46	0.0	0.0	18.0	3	0	1027	1029	2	0.24	0.00	13.9	4.83
29/05/2023 06:46	0.0	0.0	18.2	3	0	1027	1030	3	0.25	0.00	13.7	4.84
29/05/2023 07:46	0.0	0.0	18.2	3	1	1027	1030	3	0.21	0.00	13.6	4.84
29/05/2023 08:46	0.0	0.0	18.1	3	0	1027	1030	3	0.23	0.00	13.6	4.84
29/05/2023 09:46	0.0	0.0	17.9	3	0	1028	1030	2	0.19	0.00	13.8	4.84
29/05/2023 10:46	0.0	0.0	17.8	3	0	1028	1030	2	0.14	0.00	14.0	4.84
29/05/2023 11:46	0.0	0.2	17.5	3	0	1028	1030	2	0.09	0.00	14.3	4.84
29/05/2023 12:46	0.0	0.5	17.1	3	0	1028	1029	1	0.01	0.00	14.7	4.84
29/05/2023 13:46	0.0	0.7	16.6	3	0	1027	1029	2	-0.01	0.00	15.1	4.84
29/05/2023 14:46	0.0	1.1	16.2	3	0	1027	1030	3	0.00	0.00	15.4	4.84
29/05/2023 15:46	0.0	1.3	15.8	3	0	1027	1029	2	-0.05	0.00	15.7	4.84
29/05/2023 16:46	0.0	1.3	15.8	3	0	1027	1029	2	-0.06	0.00	16.1	4.84
29/05/2023 17:46	0.0	1.8	15.1	3	0	1027	1030	3	-0.02	0.00	16.4	4.84
29/05/2023 18:46	0.0	2.0	14.9	3	0	1027	1030	3	0.00	0.00	16.6	4.84
29/05/2023 19:46	0.0	2.2	14.8	3	0	1027	1030	3	0.04	0.00	16.8	4.84
29/05/2023 20:46	0.0	2.0	15.0	3	0	1028	1030	2	0.07	0.00	16.9	4.84
29/05/2023 21:46	0.0	1.9	15.2	3	0	1028	1030	2	0.05	0.00	16.8	4.84
29/05/2023 22:46	0.0	1.7	15.6	3	0	1028	1030	2	0.07	0.00	16.6	4.84
29/05/2023 23:46	0.0	1.6	15.8	3	0	1028	1030	2	0.09	0.00	16.3	4.84
30/05/2023 00:46	0.0	1.7	15.5	3	0	1028	1030	2	0.08	0.00	16.0	4.84
30/05/2023 01:46	0.0	1.6	15.6	3	0	1028	1030	2	0.08	0.00	15.7	4.85
30/05/2023 02:46	0.0	1.2	16.2	3	1	1028	1031	3	0.10	0.00	15.4	4.85
30/05/2023 03:46	0.0	0.7	16.9	3	0	1029	1031	2	0.11	0.00	15.3	4.85
30/05/2023 04:46	0.0	0.4	17.4	3	0	1029	1031	2	0.13	0.00	15.0	4.85
30/05/2023 05:46	0.0	0.1	17.8	3	0	1029	1031	2	0.18	0.00	14.8	4.85
30/05/2023 06:46	0.0	0.1	17.8	3	0	1029	1032	3	0.21	0.00	14.7	4.86
30/05/2023 07:46	0.0	0.1	17.8	3	0	1029	1032	3	0.20	0.00	14.6	4.86
30/05/2023 08:46	0.0	0.1	17.7	3	0	1030	1032	2	0.15	0.00	14.6	4.86
30/05/2023 09:46	0.0	0.2	17.4	3	0	1030	1031	1	0.10	0.00	14.6	4.86
30/05/2023 10:46	0.0	0.6	16.8	3	0	1029	1031	2	0.05	0.00	14.8	4.86
30/05/2023 11:46	0.0	1.0	16.3	3	0	1029	1031	2	0.02	0.00	15.0	4.86
30/05/2023 12:46	0.0	1.3	15.9	3	0	1029	1031	2	-0.06	0.00	15.3	4.86
30/05/2023 13:46	0.0	1.5	15.4	3	0	1029	1031	2	-0.12	0.00	15.7	4.85
30/05/2023 14:46	0.0	2.0	14.8	3	0	1029	1031	2	-0.16	0.00	16.1	4.85
30/05/2023 15:46	0.0	2.6	14.2	3	0	1029	1030	1	-0.16	0.00	16.4	4.85
30/05/2023 16:46	0.0	3.1	13.6	3	0	1028	1030	2	-0.19	0.00	16.8	4.85
30/05/2023 17:46	0.0	3.6	13.1	3	0	1028	1030	2	-0.22	0.00	17.1	4.84
30/05/2023 18:46	0.0	4.0	12.5	3	0	1028	1029	1	-0.23	0.00	17.4	4.84
30/05/2023 19:46	0.0	4.7	12.0	3	0	1027	1029	2	-0.24	0.00	17.6	4.84
30/05/2023 20:46	0.0	5.1	11.6	3	0	1027	1029	2	-0.21	0.00	17.6	4.84
30/05/2023 21:46	0.0	5.5	11.2	3	0	1027	1029	2	-0.19	0.00	17.6	4.84
30/05/2023 22:46	0.0	5.7	11.1	3	0	1027	1030	3	-0.09	0.00	17.4	4.84
30/05/2023 23:46	0.0	4.7	12.4	3	0	1027	1029	2	-0.07	0.00	17.1	4.84
31/05/2023 00:46	0.0	4.2	12.9	3	0	1028	1030	2	-0.01	0.00	16.8	4.84
31/05/2023 01:46	0.0	4.3	12.8	3	0	1028	1030	2	0.08	0.00	16.5	4.84
31/05/2023 02:46	0.0	3.5	13.7	3	0	1028	1030	2	0.12	0.00	16.3	4.85
31/05/2023 03:46	0.0	3.0	14.3	3	0	1028	1030	2	0.14	0.00	16.0	4.84
31/05/2023 04:46	0.0	3.5	13.7	3	1	1028	1030	2	0.10	0.00	15.8	4.85
31/05/2023 05:46	0.0	3.0	14.0	3	0	1028	1030	2	0.12	0.00	15.6	4.85
31/05/2023 06:46	0.0	2.9	14.1	3	0	1028	1030	2	0.08	0.00	15.4	4.85
31/05/2023 07:46	0.0	2.8	14.2	3	0	1028	1030	2	0.08	0.00	15.3	4.84
31/05/2023 08:46	0.0	3.4	13.5	3	0	1028	1030	2	-0.05	0.00	15.2	4.84
31/05/2023 09:46	0.0	3.6	13.1	3	0	1028	1029	1	-0.09	0.00	15.2	4.84

Time Series Data

Project Ref:	GG3244
Project Name:	Ardrossan Academy
Borehole ref:	BH D
Instrument Name and ID:	GC 50/06/16
Start Date:	04/05/2023 13:43
End Date:	31/05/2023 09:42
Days of monitoring:	27
Monitoring Frequency (mins):	60
Total samples taken:	645



Summary Table

	CH ₄	CO ₂	O ₂	CO	H ₂ S	Borehole Pressure	Atmospheric Pressure	Differential Pressure	Average 8-hour atmospheric pressure change	Flow	Temperature	Water Level
Minimum	0.0	0.0	0.0	0	0	1007	1005	0	-0.53	0.00	8.5	2.45
Maximum	0.1	19.7	20.0	2	0	1033	1032	2	0.75	0.00	17.8	2.47
Range	0.1	19.7	20.0	2	0	26	27	N/A	1.28	0.00	9.3	0.02

Date and Time	CH ₄	CO ₂	O ₂	CO	H ₂ S	Borehole Pressure	Atmospheric Pressure	Differential Pressure	Average 8-hour atmospheric pressure change	Flow	Temperature	Water Level
	% v/v	% v/v	% v/v	ppm/v	ppm/v	mbar	mbar	mbar	mbar	Ltr/hr	°C	mbgl
04/05/2023 13:43	0.0	0.0	20.0	0	0	1017	1015	2	N/A	0.00	17.0	2.46
04/05/2023 14:42	0.0	12.6	7.5	2	0	1016	1014	2	N/A	0.00	17.8	2.45
04/05/2023 15:42	0.0	14.4	3.1	0	0	1015	1013	2	N/A	0.00	13.4	2.46
04/05/2023 16:42	0.0	15.5	1.7	0	0	1014	1013	1	N/A	0.00	12.2	2.46
04/05/2023 17:42	0.0	16.0	1.1	0	0	1013	1012	1	N/A	0.00	11.6	2.46
04/05/2023 18:42	0.0	16.0	0.8	0	0	1013	1012	1	N/A	0.00	11.3	2.46
04/05/2023 19:42	0.0	16.2	0.6	0	0	1013	1012	1	N/A	0.00	10.9	2.46
04/05/2023 20:42	0.0	16.6	0.4	0	0	1013	1012	1	N/A	0.00	10.6	2.46
04/05/2023 21:42	0.0	16.6	0.3	0	0	1013	1011	2	-0.47	0.00	10.3	2.46
04/05/2023 22:42	0.0	16.7	0.1	0	0	1012	1010	2	-0.39	0.00	9.9	2.45
04/05/2023 23:42	0.0	16.7	0.0	0	0	1011	1010	1	-0.28	0.00	9.6	2.46
05/05/2023 00:42	0.0	16.8	0.0	0	0	1011	1010	1	-0.26	0.00	9.3	2.46
05/05/2023 01:42	0.0	17.0	0.0	0	0	1010	1008	2	-0.42	0.00	9.1	2.45
05/05/2023 02:42	0.0	17.0	0.0	0	0	1010	1008	2	-0.48	0.00	8.9	2.45
05/05/2023 03:42	0.0	17.0	0.0	0	0	1009	1008	1	-0.51	0.00	8.8	2.46
05/05/2023 04:42	0.0	17.1	0.0	0	0	1009	1007	2	-0.52	0.00	8.7	2.46
05/05/2023 05:42	0.0	17.1	0.0	0	0	1008	1007	1	-0.43	0.00	8.6	2.46
05/05/2023 06:42	0.0	17.1	0.0	0	0	1008	1007	1	-0.42	0.00	8.6	2.46
05/05/2023 07:42	0.0	17.2	0.0	0	0	1008	1007	1	-0.37	0.00	8.5	2.46
05/05/2023 08:42	0.0	17.1	0.0	0	0	1008	1007	1	-0.15	0.00	8.5	2.46
05/05/2023 09:42	0.0	17.2	0.0	0	0	1008	1007	1	-0.05	0.00	8.6	2.46
05/05/2023 10:42	0.0	17.3	0.0	0	0	1008	1007	1	-0.02	0.00	8.6	2.46
05/05/2023 11:42	0.0	17.2	0.0	0	0	1009	1008	1	0.08	0.00	8.8	2.46
05/05/2023 12:42	0.0	17.2	0.0	0	0	1009	1007	2	0.07	0.00	8.9	2.46
05/05/2023 13:42	0.0	17.3	0.0	0	0	1009	1008	1	0.12	0.00	9.2	2.46
05/05/2023 14:42	0.0	17.2	0.0	0	0	1009	1008	1	0.11	0.00	9.6	2.46
05/05/2023 15:42	0.0	17.2	0.0	0	0	1009	1008	1	0.12	0.00	10.0	2.46
05/05/2023 16:42	0.0	17.2	0.0	0	0	1009	1008	1	0.08	0.00	10.4	2.46
05/05/2023 17:42	0.0	17.3	0.0	0	0	1009	1008	1	0.07	0.00	10.7	2.46
05/05/2023 18:42	0.0	17.2	0.0	0	0	1009	1008	1	0.05	0.00	11.0	2.46
05/05/2023 19:42	0.0	17.5	0.0	0	0	1009	1008	1	0.13	0.00	11.2	2.47
05/05/2023 20:42	0.0	17.4	0.0	0	0	1010	1009	1	0.14	0.00	11.3	2.46
05/05/2023 21:42	0.0	17.6	0.0	0	0	1010	1009	1	0.16	0.00	11.1	2.46
05/05/2023 22:42	0.0	17.5	0.0	0	0	1010	1009	1	0.14	0.00	11.0	2.46
05/05/2023 23:42	0.0	17.5	0.0	0	0	1010	1009	1	0.13	0.00	10.8	2.46
06/05/2023 00:42	0.0	17.5	0.0	0	0	1010	1009	1	0.11	0.00	10.6	2.46
06/05/2023 01:42	0.0	17.5	0.0	0	0	1010	1009	1	0.10	0.00	10.4	2.46
06/05/2023 02:42	0.0	17.5	0.0	0	0	1010	1009	1	0.05	0.00	10.3	2.46
06/05/2023 03:42	0.0	17.6	0.0	0	0	1010	1009	1	0.00	0.00	10.1	2.46
06/05/2023 04:42	0.0	17.5	0.0	0	0	1010	1009	1	-0.02	0.00	9.9	2.46
06/05/2023 05:42	0.0	17.6	0.0	0	0	1010	1009	1	0.01	0.00	9.8	2.46
06/05/2023 06:42	0.0	17.6	0.0	0	0	1010	1010	0	0.06	0.00	9.7	2.46
06/05/2023 07:42	0.0	17.7	0.0	0	0	1011	1010	1	0.15	0.00	9.6	2.46
06/05/2023 08:42	0.0	17.5	0.0	0	0	1011	1010	1	0.18	0.00	9.6	2.46
06/05/2023 09:42	0.0	17.7	0.0	0	0	1011	1010	1	0.18	0.00	9.7	2.46
06/05/2023 10:42	0.0	17.5	0.0	0	0	1011	1010	1	0.15	0.00	9.8	2.46
06/05/2023 11:42	0.0	17.5	0.0	0	0	1011	1010	1	0.16	0.00	9.9	2.46
06/05/2023 12:42	0.0	17.3	0.0	0	0	1011	1010	1	0.13	0.00	10.2	2.46
06/05/2023 13:42	0.0	17.5	0.0	0	0	1011	1010	1	0.12	0.00	10.4	2.46
06/05/2023 14:42	0.0	17.6	0.0	0	0	1012	1010	2	0.02	0.00	10.7	2.46
06/05/2023 15:42	0.0	17.6	0.0	0	0	1011	1010	1	-0.05	0.00	11.0	2.46
06/05/2023 16:42	0.0	17.6	0.0	0	0	1011	1010	1	-0.05	0.00	11.3	2.46
06/05/2023 17:42	0.0	17.7	0.0	0	0	1011	1010	1	-0.04	0.00	11.5	2.46
06/05/2023 18:42	0.0	17.6	0.0	0	0	1011	1010	1	-0.05	0.00	11.6	2.46
06/05/2023 19:42	0.0	17.5	0.0	0	0	1011	1010	1	-0.05	0.00	11.7	2.46
06/05/2023 20:42	0.0	17.9	0.0	0	0	1011	1010	1	-0.05	0.00	11.7	2.46
06/05/2023 21:42	0.0	17.6	0.0	0	0	1011	1010	1	0.00	0.00	11.6	2.46
06/05/2023 22:42	0.0	17.3	0.0	0	0	1011	1011	0	0.07	0.00	11.4	2.46
06/05/2023 23:42	0.0	17.7	0.0	0	0	1012	1011	1	0.11	0.00	11.2	2.46
07/05/2023 00:42	0.0	17.7	0.0	0	0	1012	1011	1	0.16	0.00	10.9	2.46
07/05/2023 01:42	0.0	17.6	0.0	0	0	1013	1011	2	0.20	0.00	10.8	2.46
07/05/2023 02:42	0.0	17.5	0.0	0	0	1013	1011	2	0.19	0.00	10.6	2.46
07/05/2023 03:42	0.0	17.9	0.0	0	0	1013	1012	1	0.19	0.00	10.4	2.46
07/05/2023 04:42	0.0	17.9	0.0	0	0	1013	1012	1	0.15	0.00	10.3	2.46
07/05/2023 05:42	0.0	17.7	0.0	0	0	1013	1012	1	0.15	0.00	10.1	2.46
07/05/2023 06:42	0.0	18.0	0.0	0	0	1013	1012	1	0.21	0.00	9.9	2.46
07/05/2023 07:42	0.0	17.7	0.0	0	0	1014	1013	1	0.20	0.00	9.9	2.46
07/05/2023 08:42	0.0	17.7	0.0	0	0	1014	1013	1	0.24	0.00	9.9	2.46
07/05/2023 09:42	0.0	17.9	0.0	0	0	1014	1013	1	0.26	0.00	9.9	2.46
07/05/2023 10:42	0.0	18.0	0.0	0	0	1014	1013	1	0.19	0.00	10.1	2.46
07/05/2023 11:42	0.0	17.9	0.0	0	0	1014	1013	1	0.24	0.00	10.3	2.46
07/05/2023 12:42	0.0	17.8	0.0	0	0	1014	1013	1	0.17	0.00	10.6	2.46
07/05/2023 13:42	0.0	17.7	0.0	0	0	1014	1013	1	0.12	0.00	10.9	2.46
07/05/2023 14:42	0.0	17.6	0.0	0	0	1015	1014	1	0.10	0.00	11.4	2.46
07/05/2023 15:42	0.0	17.7	0.0	0	0	1015	1014	1	0.04	0.00	11.8	2.46
07/05/2023 16:42	0.0	18.0	0.0	0	0	1014	1013	1	-0.01	0.00	12.1	2.46
07/05/2023 17:42	0.0	18.0	0.0	0	0	1014	1013	1	0.01	0.00	12.4	2.46
07/05/2023 18:42	0.0	17.8	0.0	0	0	1014	1013	1	-0.02	0.00	12.8	2.47
07/05/2023 19:42	0.0	17.8	0.0	0	0	1015	1013	2	0.00	0.00	12.9	2.46
07/05/2023 20:42	0.0	17.9	0.0	0	0	1015	1013	2	-0.03	0.00	12.8	2.46
07/05/2023 21:42	0.0	17.9	0.0	0	0	1014	1013	1	-0.06	0.00	12.6	2.46
07/05/2023 22:42	0.0	17.6	0.0	0	0	1014	1013	1	-0.11	0.00	12.4	2.46
07/05/2023 23:42	0.0	17.9	0.0	0	0	1014	1012	2	-0.17	0.00	12.2	2.46
08/05/2023 00:42	0.0	17.7	0.0	0	0	1013	1011	2	-0.22	0.00	12.0	2.46
08/05/2023 01:42	0.0	17.9	0.0	0	0	1013	1011	2	-0.32	0.00	11.8	2.45
08/05/2023 02:42	0.0	18.1	0.0	0	0	1012	1010	2	-0.38	0.00	11.6	2.46
08/05/2023 03:42	0.0	17.6	0.0	0	0	1011	1010	1				

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
08/05/2023 11:42	0.0	17.9	0.0	0	0	1010	1009	1	-0.03	0.00	10.8	2.46
08/05/2023 12:42	0.0	18.1	0.0	0	0	1010	1009	1	-0.02	0.00	10.8	2.46
08/05/2023 13:42	0.0	17.7	0.0	0	0	1010	1009	1	-0.02	0.00	10.8	2.46
08/05/2023 14:42	0.0	17.9	0.0	0	0	1010	1009	1	0.03	0.00	10.9	2.46
08/05/2023 15:42	0.0	18.1	0.0	0	0	1010	1009	1	0.01	0.00	10.9	2.46
08/05/2023 16:42	0.0	17.7	0.0	0	0	1010	1008	2	-0.02	0.00	10.9	2.46
08/05/2023 17:42	0.0	17.9	0.0	0	0	1009	1008	1	-0.04	0.00	11.0	2.46
08/05/2023 18:42	0.0	17.9	0.0	0	0	1009	1008	1	-0.08	0.00	11.1	2.46
08/05/2023 19:42	0.0	18.1	0.0	0	0	1009	1008	1	-0.09	0.00	11.1	2.46
08/05/2023 20:42	0.0	17.7	0.0	0	0	1010	1009	1	-0.02	0.00	11.2	2.46
08/05/2023 21:42	0.0	17.7	0.0	0	0	1010	1008	2	-0.14	0.00	11.1	2.45
08/05/2023 22:42	0.0	18.1	0.0	0	0	1009	1008	1	-0.08	0.00	11.1	2.47
08/05/2023 23:42	0.0	18.1	0.0	0	0	1009	1008	1	-0.06	0.00	11.0	2.46
09/05/2023 00:42	0.0	18.1	0.0	0	0	1009	1008	1	-0.07	0.00	10.9	2.46
09/05/2023 01:42	0.0	18.0	0.0	0	0	1009	1007	2	-0.08	0.00	10.9	2.46
09/05/2023 02:42	0.0	18.0	0.0	0	0	1009	1007	2	-0.08	0.00	10.8	2.46
09/05/2023 03:42	0.0	18.1	0.0	0	0	1009	1007	2	-0.17	0.00	10.8	2.46
09/05/2023 04:42	0.0	18.1	0.0	0	0	1009	1007	2	-0.06	0.00	10.6	2.46
09/05/2023 05:42	0.0	18.3	0.0	0	0	1009	1007	2	-0.11	0.00	10.5	2.46
09/05/2023 06:42	0.0	18.1	0.0	0	0	1009	1007	2	-0.06	0.00	10.4	2.46
09/05/2023 07:42	0.0	18.1	0.0	0	0	1008	1007	1	-0.07	0.00	10.4	2.46
09/05/2023 08:42	0.0	18.1	0.0	0	0	1008	1007	1	-0.04	0.00	10.4	2.46
09/05/2023 09:42	0.0	18.1	0.0	0	0	1008	1008	1	0.01	0.00	10.4	2.46
09/05/2023 10:42	0.0	18.0	0.0	0	0	1009	1008	1	0.02	0.00	10.6	2.46
09/05/2023 11:42	0.0	18.0	0.0	0	0	1009	1007	2	-0.05	0.00	10.8	2.46
09/05/2023 12:42	0.0	17.9	0.0	0	0	1008	1007	1	-0.05	0.00	10.9	2.46
09/05/2023 13:42	0.0	18.1	0.0	0	0	1008	1007	1	-0.06	0.00	11.1	2.46
09/05/2023 14:42	0.0	17.9	0.0	0	0	1008	1007	1	-0.02	0.00	11.3	2.46
09/05/2023 15:42	0.0	18.0	0.0	0	0	1008	1007	1	-0.05	0.00	11.6	2.46
09/05/2023 16:42	0.0	18.0	0.0	0	0	1007	1007	0	-0.11	0.00	11.9	2.46
09/05/2023 17:42	0.0	17.9	0.0	0	0	1008	1007	1	-0.10	0.00	12.2	2.46
09/05/2023 18:42	0.0	18.0	0.0	0	0	1008	1006	2	-0.08	0.00	12.4	2.46
09/05/2023 19:42	0.0	17.9	0.0	0	0	1007	1006	1	-0.05	0.00	12.6	2.46
09/05/2023 20:42	0.0	17.8	0.0	0	0	1008	1007	1	-0.04	0.00	12.4	2.46
09/05/2023 21:42	0.0	18.1	0.0	0	0	1008	1007	2	-0.05	0.00	12.3	2.46
09/05/2023 22:42	0.0	18.0	0.0	0	0	1008	1006	2	-0.03	0.00	12.1	2.46
09/05/2023 23:42	0.0	18.0	0.0	0	0	1008	1006	2	-0.05	0.00	12.0	2.46
10/05/2023 00:42	0.0	18.1	0.0	0	0	1007	1006	1	-0.09	0.00	11.8	2.46
10/05/2023 01:42	0.0	17.9	0.0	0	0	1007	1006	1	-0.09	0.00	11.7	2.46
10/05/2023 02:42	0.0	18.1	0.0	0	0	1007	1005	2	-0.13	0.00	11.6	2.46
10/05/2023 03:42	0.0	18.0	0.0	0	0	1007	1005	2	-0.17	0.00	11.4	2.46
10/05/2023 04:42	0.0	17.9	0.0	0	0	1007	1005	2	-0.17	0.00	11.3	2.46
10/05/2023 05:42	0.0	18.1	0.0	0	0	1007	1005	2	-0.16	0.00	11.2	2.46
10/05/2023 06:42	0.0	18.1	0.0	0	0	1007	1005	2	-0.13	0.00	11.1	2.46
10/05/2023 07:42	0.0	18.0	0.0	0	0	1007	1005	2	-0.08	0.00	11.0	2.46
10/05/2023 08:42	0.0	18.1	0.0	0	0	1007	1006	1	0.00	0.00	10.9	2.46
10/05/2023 09:42	0.0	17.9	0.0	0	0	1007	1006	1	0.05	0.00	10.9	2.46
10/05/2023 10:42	0.0	18.0	0.0	0	0	1007	1006	1	0.07	0.00	10.9	2.46
10/05/2023 11:42	0.0	18.0	0.0	0	0	1007	1006	1	0.08	0.00	10.9	2.46
10/05/2023 12:42	0.0	17.9	0.0	0	0	1007	1006	1	0.09	0.00	11.1	2.46
10/05/2023 13:42	0.0	18.0	0.0	0	0	1007	1006	1	0.09	0.00	11.2	2.46
10/05/2023 14:42	0.0	17.9	0.0	0	0	1007	1006	1	0.08	0.00	11.4	2.46
10/05/2023 15:42	0.0	18.0	0.0	0	0	1007	1006	1	0.07	0.00	11.6	2.46
10/05/2023 16:42	0.0	18.0	0.0	0	0	1007	1007	0	0.11	0.00	11.8	2.47
10/05/2023 17:42	0.0	18.1	0.0	0	0	1008	1007	1	0.16	0.00	12.0	2.47
10/05/2023 18:42	0.0	18.0	0.0	0	0	1008	1007	1	0.19	0.00	12.2	2.46
10/05/2023 19:42	0.0	18.0	0.0	0	0	1008	1008	0	0.21	0.00	12.3	2.46
10/05/2023 20:42	0.0	18.2	0.0	0	0	1009	1008	1	0.23	0.00	12.3	2.46
10/05/2023 21:42	0.0	18.0	0.0	0	0	1009	1008	1	0.23	0.00	12.2	2.46
10/05/2023 22:42	0.0	18.0	0.0	0	0	1009	1008	1	0.21	0.00	11.9	2.46
10/05/2023 23:42	0.0	18.1	0.0	0	0	1009	1008	1	0.16	0.00	11.8	2.46
11/05/2023 00:42	0.0	18.0	0.0	0	0	1009	1008	1	0.13	0.00	11.6	2.46
11/05/2023 01:42	0.0	18.0	0.0	0	0	1010	1008	2	0.13	0.00	11.4	2.46
11/05/2023 02:42	0.0	18.2	0.0	0	0	1010	1009	1	0.13	0.00	11.3	2.46
11/05/2023 03:42	0.0	18.1	0.0	0	0	1010	1009	1	0.14	0.00	11.2	2.46
11/05/2023 04:42	0.0	17.9	0.0	0	0	1010	1009	1	0.18	0.00	11.1	2.46
11/05/2023 05:42	0.0	18.2	0.0	0	0	1011	1010	1	0.25	0.00	11.0	2.46
11/05/2023 06:42	0.0	18.4	0.0	0	0	1011	1011	0	0.33	0.00	10.9	2.46
11/05/2023 07:42	0.0	18.0	0.0	0	0	1012	1012	0	0.43	0.00	10.8	2.46
11/05/2023 08:42	0.0	18.4	0.0	0	0	1013	1012	1	0.48	0.00	10.8	2.47
11/05/2023 09:42	0.0	18.2	0.0	0	0	1014	1013	1	0.54	0.00	10.8	2.46
11/05/2023 10:42	0.0	18.4	0.0	0	0	1014	1014	0	0.58	0.00	10.9	2.47
11/05/2023 11:42	0.0	18.3	0.0	0	0	1015	1014	1	0.61	0.00	11.1	2.46
11/05/2023 12:42	0.0	18.1	0.0	0	0	1016	1015	1	0.58	0.00	11.3	2.46
11/05/2023 13:42	0.0	18.1	0.0	0	0	1016	1015	1	0.55	0.00	11.3	2.46
11/05/2023 14:42	0.0	18.2	0.0	0	0	1016	1015	1	0.49	0.00	11.5	2.46
11/05/2023 15:42	0.0	18.4	0.0	0	0	1017	1016	1	0.49	0.00	11.7	2.46
11/05/2023 16:42	0.0	18.3	0.0	0	0	1017	1017	0	0.55	0.00	11.9	2.47
11/05/2023 17:42	0.0	18.3	0.0	0	0	1019	1018	1	0.56	0.00	12.1	2.47
11/05/2023 18:42	0.0	18.1	0.0	0	0	1019	1019	0	0.60	0.00	12.2	2.47
11/05/2023 19:42	0.0	18.3	0.0	0	0	1020	1020	0	0.63	0.00	12.3	2.47
11/05/2023 20:42	0.0	18.1	0.0	0	0	1021	1021	0	0.74	0.00	12.4	2.47
11/05/2023 21:42	0.0	18.7	0.0	0	0	1022	1021	1	0.75	0.00	12.3	2.46
11/05/2023 22:42	0.0	18.4	0.0	0	0	1023	1022	1	0.74	0.00	12.1	2.47
11/05/2023 23:42	0.0	18.4	0.0	0	0	1024	1023	1	0.73	0.00	11.9	2.47
12/05/2023 00:42	0.0	18.5	0.0	0	0	1025	1024	1	0.71	0.00	11.7	2.46
12/05/2023 01:42	0.0	18.5	0.0	0	0	1025	1024	1	0.65	0.00	11.5	2.46
12/05/2023 02:42	0.0	18.5	0.0	0	0	1025	1025	0	0.61	0.00	11.4	2.46
12/05/2023 03:42	0.0	18.7	0.0	0	0	1026	1025	1	0.53	0.00	11.3	2.46
12/05/2023 04:42	0.0	18.5	0.0	0	0	1026	1025	1	0.49	0.00	11.1	2.46
12/05/2023 05:42	0.0	18.7	0.0	0	0	1027	1026	1	0.48	0.00	11.0	2.46
12/05/2023 06:42	0.0	18.5	0.0	0	0	1028	1027	1	0.45	0.00	10.9	2.47
12/05/2023 07:42	0.0	18.8	0.0	0	0	1028	1027	1	0.41	0.00	10.9	2.46
12/05/2023 08:42	0.0	18.9	0.0	0	0	1028	1027	1	0.39	0.00	10.8	2.46
12/05/2023 09:42	0.0	18.8	0.0	0	0	1028	1028	0	0.39	0.00	10.9	2.46
12/05/2023 10:42	0.0	18.5	0.0	0	0	1029	1028	1	0.35	0.00	10.9	2.46
12/05/2023 11:42	0.0	18.3	0.0	0	0	1029	1028	1	0.35	0.00	11.1	2.46
12/05/2023 12:42	0.0	18.4	0.0	0	0	1029	1028	1	0.29	0.00	11.3	2.46
12/05/2023 13:42	0.0	18.1	0.0	0	0	1029	1028	1	0.17	0.00	11.6	2.46
12/05/2023 14:42	0.0	18.7	0.0	0	0	1029	1028	1	0.13			

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change	Flow Ltr/hr	Temperature °C	Water Level mbgl
13/05/2023 09:42	0.0	18.7	0.0	0	0	1028	1027	1	-0.05	0.00	10.6	2.46
13/05/2023 10:42	0.0	18.5	0.0	0	0	1028	1027	1	-0.05	0.00	10.8	2.46
13/05/2023 11:42	0.0	18.8	0.0	0	0	1028	1027	1	-0.11	0.00	10.9	2.46
13/05/2023 12:42	0.0	18.4	0.0	0	0	1028	1026	2	-0.18	0.00	11.1	2.46
13/05/2023 13:42	0.0	18.8	0.0	0	0	1027	1026	1	-0.25	0.00	11.4	2.46
13/05/2023 14:42	0.0	18.5	0.0	0	0	1026	1025	1	-0.30	0.00	11.7	2.46
13/05/2023 15:42	0.0	18.7	0.0	0	0	1026	1025	1	-0.31	0.00	11.9	2.46
13/05/2023 16:42	0.0	18.8	0.0	0	0	1025	1024	1	-0.45	0.00	12.1	2.46
13/05/2023 17:42	0.0	18.7	0.0	0	0	1024	1023	1	-0.49	0.00	12.3	2.46
13/05/2023 18:42	0.0	18.5	0.0	0	0	1024	1023	1	-0.50	0.00	12.4	2.46
13/05/2023 19:42	0.0	18.7	0.0	0	0	1024	1022	2	-0.51	0.00	12.3	2.46
13/05/2023 20:42	0.0	18.5	0.0	0	0	1023	1022	1	-0.48	0.00	12.3	2.46
13/05/2023 21:42	0.0	18.9	0.0	0	0	1023	1022	1	-0.42	0.00	12.1	2.46
13/05/2023 22:42	0.0	18.9	0.0	0	0	1023	1021	2	-0.46	0.00	11.9	2.45
13/05/2023 23:42	0.0	18.4	0.0	0	0	1022	1020	2	-0.40	0.00	11.8	2.46
14/05/2023 00:42	0.0	18.5	0.0	0	0	1021	1020	1	-0.41	0.00	11.6	2.46
14/05/2023 01:42	0.0	18.8	0.0	0	0	1021	1019	2	-0.46	0.00	11.5	2.46
14/05/2023 02:42	0.0	18.7	0.0	0	0	1020	1018	2	-0.47	0.00	11.4	2.46
14/05/2023 03:42	0.0	18.8	0.0	0	0	1020	1018	2	-0.48	0.00	11.3	2.46
14/05/2023 04:42	0.0	18.4	0.0	0	0	1019	1017	2	-0.53	0.00	11.1	2.46
14/05/2023 05:42	0.0	18.7	0.0	0	0	1019	1017	2	-0.50	0.00	11.0	2.45
14/05/2023 06:42	0.0	18.7	0.0	0	0	1018	1017	1	-0.43	0.00	10.9	2.46
14/05/2023 07:42	0.0	18.8	0.0	0	0	1018	1017	1	-0.38	0.00	10.9	2.46
14/05/2023 08:42	0.0	18.8	0.0	0	0	1018	1017	1	-0.28	0.00	10.9	2.46
14/05/2023 09:42	0.0	18.5	0.0	0	0	1017	1016	1	-0.25	0.00	10.9	2.46
14/05/2023 10:42	0.0	18.7	0.0	0	0	1017	1016	1	-0.23	0.00	10.9	2.46
14/05/2023 11:42	0.0	18.5	0.0	0	0	1017	1016	1	-0.15	0.00	10.9	2.46
14/05/2023 12:42	0.0	18.5	0.0	0	0	1017	1016	1	-0.13	0.00	10.9	2.46
14/05/2023 13:42	0.0	18.4	0.0	0	0	1017	1016	1	-0.09	0.00	10.8	2.46
14/05/2023 14:42	0.0	18.5	0.0	0	0	1017	1016	1	-0.05	0.00	10.9	2.46
14/05/2023 15:42	0.0	18.5	0.0	0	0	1017	1017	1	-0.02	0.00	11.1	2.46
14/05/2023 16:42	0.0	18.4	0.0	0	0	1017	1017	0	0.05	0.00	11.3	2.46
14/05/2023 17:42	0.0	18.5	0.0	0	0	1018	1017	1	0.09	0.00	11.5	2.46
14/05/2023 18:42	0.0	18.5	0.0	0	0	1018	1017	1	0.11	0.00	11.6	2.46
14/05/2023 19:42	0.0	18.5	0.0	0	0	1018	1017	1	0.19	0.00	11.6	2.46
14/05/2023 20:42	0.0	18.5	0.0	0	0	1019	1018	1	0.18	0.00	11.6	2.46
14/05/2023 21:42	0.0	18.4	0.0	0	0	1019	1018	1	0.20	0.00	11.4	2.46
14/05/2023 22:42	0.0	18.8	0.0	0	0	1019	1018	1	0.21	0.00	11.1	2.46
14/05/2023 23:42	0.0	18.4	0.0	0	0	1020	1018	2	0.20	0.00	10.9	2.46
15/05/2023 00:42	0.0	18.8	0.0	0	0	1020	1018	2	0.18	0.00	10.7	2.46
15/05/2023 01:42	0.0	18.8	0.0	0	0	1020	1018	2	0.17	0.00	10.5	2.46
15/05/2023 02:42	0.0	19.1	0.0	0	0	1020	1018	2	0.13	0.00	10.3	2.46
15/05/2023 03:42	0.0	18.7	0.0	0	0	1020	1019	1	0.15	0.00	10.1	2.46
15/05/2023 04:42	0.0	18.7	0.0	0	0	1020	1019	1	0.13	0.00	9.9	2.46
15/05/2023 05:42	0.0	18.9	0.0	0	0	1020	1019	1	0.13	0.00	9.7	2.46
15/05/2023 06:42	0.0	18.5	0.0	0	0	1021	1020	1	0.17	0.00	9.6	2.46
15/05/2023 07:42	0.0	18.7	0.0	0	0	1021	1020	1	0.21	0.00	9.5	2.46
15/05/2023 08:42	0.0	18.8	0.0	0	0	1021	1020	1	0.26	0.00	9.5	2.46
15/05/2023 09:42	0.0	18.7	0.0	0	0	1021	1021	0	0.28	0.00	9.6	2.46
15/05/2023 10:42	0.0	18.5	0.0	0	0	1022	1021	1	0.23	0.00	9.8	2.46
15/05/2023 11:42	0.0	18.8	0.0	0	0	1022	1021	1	0.24	0.00	10.0	2.46
15/05/2023 12:42	0.0	18.5	0.0	0	0	1022	1021	1	0.23	0.00	10.3	2.46
15/05/2023 13:42	0.0	18.5	0.0	0	0	1022	1021	1	0.21	0.00	10.5	2.46
15/05/2023 14:42	0.0	18.5	0.0	0	0	1022	1021	1	0.17	0.00	10.8	2.46
15/05/2023 15:42	0.0	18.8	0.0	0	0	1023	1022	1	0.15	0.00	11.1	2.46
15/05/2023 16:42	0.0	18.9	0.0	0	0	1023	1022	1	0.13	0.00	11.3	2.46
15/05/2023 17:42	0.0	18.5	0.0	0	0	1023	1022	1	0.19	0.00	11.6	2.47
15/05/2023 18:42	0.0	18.5	0.0	0	0	1023	1022	1	0.17	0.00	11.7	2.46
15/05/2023 19:42	0.0	18.5	0.0	0	0	1024	1022	2	0.17	0.00	11.8	2.46
15/05/2023 20:42	0.0	18.8	0.0	0	0	1024	1023	1	0.17	0.00	11.6	2.46
15/05/2023 21:42	0.0	18.7	0.0	0	0	1024	1023	1	0.18	0.00	11.4	2.46
15/05/2023 22:42	0.0	18.9	0.0	0	0	1024	1023	1	0.12	0.00	11.2	2.46
15/05/2023 23:42	0.0	18.7	0.0	0	0	1024	1023	1	0.11	0.00	10.9	2.46
16/05/2023 00:42	0.0	18.8	0.0	0	0	1024	1023	1	0.09	0.00	10.8	2.46
16/05/2023 01:42	0.0	18.7	0.0	0	0	1024	1022	2	0.00	0.00	10.6	2.46
16/05/2023 02:42	0.0	18.9	0.0	0	0	1024	1022	2	-0.03	0.00	10.5	2.46
16/05/2023 03:42	0.0	18.8	0.0	0	0	1023	1022	1	-0.10	0.00	10.4	2.46
16/05/2023 04:42	0.0	18.7	0.0	0	0	1023	1022	1	-0.13	0.00	10.3	2.46
16/05/2023 05:42	0.0	18.7	0.0	0	0	1023	1022	1	-0.08	0.00	10.2	2.46
16/05/2023 06:42	0.0	18.9	0.0	0	0	1023	1023	0	0.00	0.00	10.1	2.46
16/05/2023 07:42	0.0	18.7	0.0	0	0	1024	1023	1	0.02	0.00	10.1	2.46
16/05/2023 08:42	0.0	18.8	0.0	0	0	1024	1023	1	0.11	0.00	10.1	2.46
16/05/2023 09:42	0.0	18.8	0.0	0	0	1024	1023	1	0.13	0.00	10.2	2.46
16/05/2023 10:42	0.0	18.8	0.0	0	0	1024	1023	1	0.15	0.00	10.3	2.46
16/05/2023 11:42	0.0	18.5	0.0	0	0	1024	1023	1	0.18	0.00	10.4	2.46
16/05/2023 12:42	0.0	18.8	0.0	0	0	1024	1023	1	0.16	0.00	10.6	2.46
16/05/2023 13:42	0.0	18.5	0.0	0	0	1024	1024	0	0.14	0.00	10.8	2.47
16/05/2023 14:42	0.0	18.8	0.0	0	0	1025	1024	1	0.12	0.00	11.2	2.46
16/05/2023 15:42	0.0	18.5	0.0	0	0	1025	1024	1	0.12	0.00	11.4	2.46
16/05/2023 16:42	0.0	18.7	0.0	0	0	1025	1024	1	0.13	0.00	11.6	2.46
16/05/2023 17:42	0.0	18.7	0.0	0	0	1026	1025	1	0.18	0.00	11.8	2.46
16/05/2023 18:42	0.0	18.9	0.0	0	0	1026	1025	1	0.19	0.00	12.0	2.46
16/05/2023 19:42	0.0	18.8	0.0	0	0	1026	1025	1	0.21	0.00	12.1	2.46
16/05/2023 20:42	0.0	18.7	0.0	0	0	1026	1025	1	0.20	0.00	12.1	2.46
16/05/2023 21:42	0.0	18.7	0.0	0	0	1027	1026	1	0.22	0.00	11.9	2.46
16/05/2023 22:42	0.0	18.9	0.0	0	0	1027	1026	1	0.22	0.00	11.6	2.46
16/05/2023 23:42	0.0	18.9	0.0	0	0	1027	1026	1	0.20	0.00	11.4	2.46
17/05/2023 00:42	0.0	18.8	0.0	0	0	1027	1026	1	0.18	0.00	11.3	2.46
17/05/2023 01:42	0.0	18.7	0.0	0	0	1028	1026	2	0.16	0.00	11.1	2.46
17/05/2023 02:42	0.0	18.9	0.0	0	0	1027	1026	1	0.12	0.00	11.0	2.46
17/05/2023 03:42	0.0	18.8	0.0	0	0	1027	1026	1	0.06	0.00	10.9	2.46
17/05/2023 04:42	0.0	18.8	0.0	0	0	1027	1026	1	0.01	0.00	10.8	2.46
17/05/2023 05:42	0.0	18.8	0.0	0	0	1027	1026	1	0.04	0.00	10.8	2.46
17/05/2023 06:42	0.0	19.1	0.0	0	0	1028	1027	1	0.09	0.00	10.7	2.46
17/05/2023 07:42	0.0	18.9	0.0	0	0	1028	1027	1	0.09	0.00	10.6	2.46
17/05/2023 08:42	0.0	18.5	0.0	0	0	1028	1027	1	0.11	0.00	10.6	2.46
17/05/2023 09:42	0.0	18.9	0.0	0	0	1028	1027	1	0.15	0.00	10.8	2.46
17/05/2023 10:42	0.0	18.7	0.0	0	0	1028	1027	1	0.15	0.00	10.9	2.46
17/05/2023 11:42	0.0	19.1	0.0	0	0	1028	1027	1	0.12	0.00	11.2	2.46
17/05/2023 12:42	0.0	18.5	0.0	0	0	1028	1026	2	0.03	0.00		

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
18/05/2023 07:42	0.0	18.8	0.0	0	0	1025	1024	1	-0.03	0.00	11.1	2.46
18/05/2023 08:42	0.0	18.8	0.0	0	0	1026	1025	1	0.03	0.00	11.1	2.46
18/05/2023 09:42	0.0	18.8	0.0	0	0	1026	1025	1	0.03	0.00	11.2	2.46
18/05/2023 10:42	0.0	18.7	0.0	0	0	1026	1025	1	0.06	0.00	11.3	2.46
18/05/2023 11:42	0.0	18.7	0.0	0	0	1026	1024	2	0.06	0.00	11.4	2.46
18/05/2023 12:42	0.0	18.8	0.0	0	0	1026	1025	1	0.06	0.00	11.6	2.46
18/05/2023 13:42	0.0	18.7	0.0	0	0	1026	1024	2	0.03	0.00	11.8	2.46
18/05/2023 14:42	0.0	18.8	0.0	0	0	1026	1024	2	-0.01	0.00	11.9	2.46
18/05/2023 15:42	0.0	18.9	0.0	0	0	1025	1024	1	-0.07	0.00	12.1	2.46
18/05/2023 16:42	0.0	18.8	0.0	0	0	1025	1024	1	-0.05	0.00	12.1	2.46
18/05/2023 17:42	0.0	18.9	0.0	0	0	1025	1024	1	-0.06	0.00	12.1	2.46
18/05/2023 18:42	0.0	18.9	0.0	0	0	1025	1024	1	-0.04	0.00	12.1	2.46
18/05/2023 19:42	0.0	19.1	0.0	0	0	1025	1024	1	-0.04	0.00	12.0	2.46
18/05/2023 20:42	0.0	18.8	0.0	0	0	1026	1025	1	0.02	0.00	11.9	2.46
18/05/2023 21:42	0.0	19.1	0.0	0	0	1026	1025	1	0.08	0.00	11.9	2.46
18/05/2023 22:42	0.0	18.8	0.0	0	0	1027	1025	2	0.15	0.00	11.8	2.46
18/05/2023 23:42	0.0	18.9	0.0	0	0	1027	1026	1	0.18	0.00	11.6	2.46
19/05/2023 00:42	0.0	18.8	0.0	0	0	1027	1026	1	0.21	0.00	11.5	2.46
19/05/2023 01:42	0.0	19.1	0.0	0	0	1027	1026	1	0.18	0.00	11.3	2.46
19/05/2023 02:42	0.0	18.8	0.0	0	0	1027	1026	1	0.18	0.00	11.2	2.46
19/05/2023 03:42	0.0	19.2	0.0	0	0	1027	1026	1	0.13	0.00	11.0	2.46
19/05/2023 04:42	0.0	18.9	0.0	0	0	1027	1026	1	0.11	0.00	10.9	2.46
19/05/2023 05:42	0.0	18.8	0.0	0	0	1028	1026	2	0.13	0.00	10.9	2.46
19/05/2023 06:42	0.0	18.9	0.0	0	0	1028	1027	1	0.11	0.00	10.8	2.46
19/05/2023 07:42	0.0	18.9	0.0	0	0	1028	1027	1	0.18	0.00	10.8	2.47
19/05/2023 08:42	0.0	18.9	0.0	0	0	1028	1027	1	0.19	0.00	10.9	2.46
19/05/2023 09:42	0.0	19.3	0.0	0	0	1028	1027	1	0.17	0.00	11.0	2.46
19/05/2023 10:42	0.0	18.5	0.0	0	0	1028	1027	1	0.21	0.00	11.2	2.46
19/05/2023 11:42	0.0	19.1	0.0	0	0	1028	1027	1	0.19	0.00	11.4	2.46
19/05/2023 12:42	0.0	18.9	0.0	0	0	1029	1027	2	0.13	0.00	11.6	2.46
19/05/2023 13:42	0.0	18.9	0.0	0	0	1029	1028	1	0.14	0.00	11.9	2.46
19/05/2023 14:42	0.0	19.1	0.0	0	0	1029	1028	1	0.10	0.00	12.3	2.46
19/05/2023 15:42	0.0	18.8	0.0	0	0	1029	1028	1	0.11	0.00	12.8	2.46
19/05/2023 16:42	0.0	18.9	0.0	0	0	1029	1028	1	0.07	0.00	13.1	2.46
19/05/2023 17:42	0.0	18.8	0.0	0	0	1029	1028	1	0.03	0.00	13.4	2.46
19/05/2023 18:42	0.0	18.7	0.0	0	0	1029	1028	1	0.01	0.00	13.6	2.46
19/05/2023 19:42	0.0	18.8	0.0	0	0	1029	1028	1	0.06	0.00	13.7	2.46
19/05/2023 20:42	0.0	18.7	0.0	0	0	1029	1028	1	0.04	0.00	13.6	2.46
19/05/2023 21:42	0.0	18.9	0.0	0	0	1029	1028	1	0.03	0.00	13.4	2.46
19/05/2023 22:42	0.0	18.9	0.0	0	0	1029	1028	1	0.02	0.00	13.1	2.46
19/05/2023 23:42	0.0	18.9	0.0	0	0	1029	1028	1	0.07	0.00	12.9	2.46
20/05/2023 00:42	0.0	18.8	0.0	0	0	1030	1028	2	0.08	0.00	12.7	2.46
20/05/2023 01:42	0.0	19.1	0.0	0	0	1029	1028	1	0.03	0.00	12.5	2.46
20/05/2023 02:42	0.0	18.9	0.0	0	0	1029	1028	1	-0.03	0.00	12.3	2.46
20/05/2023 03:42	0.0	19.1	0.0	0	0	1029	1027	2	-0.07	0.00	12.3	2.46
20/05/2023 04:42	0.0	18.9	0.0	0	0	1029	1027	2	-0.14	0.00	12.1	2.46
20/05/2023 05:42	0.0	18.9	0.0	0	0	1028	1027	1	-0.13	0.00	12.0	2.46
20/05/2023 06:42	0.0	19.2	0.0	0	0	1028	1027	1	-0.15	0.00	11.9	2.46
20/05/2023 07:42	0.0	19.2	0.0	0	0	1028	1027	1	-0.13	0.00	11.9	2.46
20/05/2023 08:42	0.0	18.9	0.0	0	0	1028	1027	1	-0.07	0.00	11.9	2.46
20/05/2023 09:42	0.0	18.9	0.0	0	0	1028	1027	1	-0.08	0.00	11.9	2.46
20/05/2023 10:42	0.0	19.2	0.0	0	0	1028	1027	1	-0.05	0.00	12.0	2.46
20/05/2023 11:42	0.0	18.9	0.0	0	0	1028	1027	1	-0.03	0.00	12.1	2.46
20/05/2023 12:42	0.0	18.9	0.0	0	0	1028	1026	2	-0.09	0.00	12.1	2.46
20/05/2023 13:42	0.0	18.9	0.0	0	0	1028	1026	2	-0.12	0.00	12.2	2.46
20/05/2023 14:42	0.0	18.8	0.0	0	0	1027	1026	1	-0.19	0.00	12.3	2.46
20/05/2023 15:42	0.0	18.9	0.0	0	0	1027	1025	2	-0.29	0.00	12.4	2.46
20/05/2023 16:42	0.0	18.8	0.0	0	0	1026	1025	1	-0.31	0.00	12.6	2.46
20/05/2023 17:42	0.0	18.9	0.0	0	0	1026	1024	2	-0.36	0.00	12.6	2.46
20/05/2023 18:42	0.0	19.1	0.0	0	0	1025	1024	1	-0.34	0.00	12.6	2.46
20/05/2023 19:42	0.0	18.9	0.0	0	0	1025	1024	1	-0.28	0.00	12.7	2.46
20/05/2023 20:42	0.0	18.8	0.0	0	0	1025	1024	1	-0.30	0.00	12.6	2.46
20/05/2023 21:42	0.0	18.8	0.0	0	0	1025	1024	1	-0.24	0.00	12.6	2.46
20/05/2023 22:42	0.0	19.1	0.0	0	0	1025	1023	2	-0.18	0.00	12.5	2.46
20/05/2023 23:42	0.0	19.1	0.0	0	0	1025	1023	2	-0.14	0.00	12.4	2.46
21/05/2023 00:42	0.0	19.1	0.0	0	0	1024	1023	1	-0.16	0.00	12.3	2.46
21/05/2023 01:42	0.1	19.1	0.0	0	0	1024	1023	1	-0.16	0.00	12.2	2.46
21/05/2023 02:42	0.0	18.8	0.0	0	0	1024	1022	2	-0.19	0.00	12.1	2.46
21/05/2023 03:42	0.0	18.9	0.0	0	0	1024	1023	1	-0.14	0.00	12.0	2.46
21/05/2023 04:42	0.0	19.1	0.0	0	0	1024	1022	2	-0.19	0.00	11.9	2.46
21/05/2023 05:42	0.0	18.9	0.0	0	0	1024	1022	2	-0.15	0.00	11.9	2.46
21/05/2023 06:42	0.0	19.1	0.0	0	0	1024	1022	2	-0.13	0.00	11.8	2.46
21/05/2023 07:42	0.0	18.8	0.0	0	0	1024	1023	1	0.00	0.00	11.8	2.46
21/05/2023 08:42	0.1	18.9	0.0	0	0	1024	1023	1	0.04	0.00	11.8	2.46
21/05/2023 09:42	0.1	19.1	0.0	0	0	1024	1023	1	0.11	0.00	11.8	2.46
21/05/2023 10:42	0.0	18.9	0.0	0	0	1024	1023	1	0.09	0.00	11.8	2.46
21/05/2023 11:42	0.0	18.9	0.0	0	0	1024	1023	1	0.13	0.00	11.9	2.46
21/05/2023 12:42	0.0	18.9	0.0	0	0	1024	1023	1	0.11	0.00	12.0	2.46
21/05/2023 13:42	0.0	18.8	0.0	0	0	1024	1023	1	0.12	0.00	12.1	2.46
21/05/2023 14:42	0.0	18.9	0.0	0	0	1024	1023	1	0.04	0.00	12.3	2.46
21/05/2023 15:42	0.0	19.1	0.0	0	0	1024	1023	1	0.00	0.00	12.4	2.46
21/05/2023 16:42	0.0	18.8	0.0	0	0	1024	1023	1	-0.05	0.00	12.7	2.46
21/05/2023 17:42	0.0	19.1	0.0	0	0	1024	1023	1	-0.09	0.00	13.0	2.46
21/05/2023 18:42	0.0	18.9	0.0	0	0	1024	1022	2	-0.10	0.00	13.3	2.46
21/05/2023 19:42	0.0	18.8	0.0	0	0	1024	1023	1	-0.07	0.00	13.4	2.46
21/05/2023 20:42	0.0	18.8	0.0	0	0	1024	1023	1	-0.08	0.00	13.5	2.46
21/05/2023 21:42	0.0	18.7	0.0	0	0	1024	1023	1	-0.06	0.00	13.4	2.46
21/05/2023 22:42	0.0	19.1	0.0	0	0	1024	1023	1	-0.03	0.00	13.3	2.46
21/05/2023 23:42	0.0	18.9	0.0	0	0	1024	1023	1	-0.05	0.00	13.0	2.46
22/05/2023 00:42	0.0	19.1	0.0	0	0	1024	1023	1	0.00	0.00	12.8	2.46
22/05/2023 01:42	0.0	19.1	0.0	0	0	1024	1023	1	0.02	0.00	12.5	2.46
22/05/2023 02:42	0.0	18.9	0.0	0	0	1024	1023	1	0.01	0.00	12.3	2.46
22/05/2023 03:42	0.0	19.1	0.0	0	0	1024	1023	1	0.02	0.00	12.1	2.46
22/05/2023 04:42	0.0	19.1	0.0	0	0	1024	1023	1	0.02	0.00	11.9	2.46
22/05/2023 05:42	0.0	19.1	0.0	0	0	1024	1023	1	0.04	0.00	11.7	2.46
22/05/2023 06:42	0.0	19.1	0.0	0	0	1025	1023	2	0.11	0.00	11.6	2.46
22/05/2023 07:42	0.0	18.9	0.0	0	0	1025	1024	1	0.16	0.00	11.4	2.46
22/05/2023 08:42	0.0	19.1	0.0	0	0	1025	1024	1	0.19	0.00	11.3	2.46
22/05/2023 09:42	0.0	19.2	0.0	0	0	1025	1024	1	0.19	0.00	11.3	2.46
22/05/2023 10:42	0.1	18.9	0.0	0	0	1025	1024	1	0.16			

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
23/05/2023 05:42	0.0	19.2	0.0	0	0	1028	1026	2	0.01	0.00	11.3	2.46
23/05/2023 06:42	0.1	19.2	0.0	0	0	1028	1027	1	0.08	0.00	11.3	2.46
23/05/2023 07:42	0.0	19.1	0.0	0	0	1028	1027	1	0.05	0.00	11.2	2.46
23/05/2023 08:42	0.0	19.2	0.0	0	0	1028	1027	1	0.05	0.00	11.2	2.46
23/05/2023 09:42	0.0	19.2	0.0	0	0	1028	1027	1	0.03	0.00	11.3	2.46
23/05/2023 10:42	0.0	19.2	0.0	0	0	1028	1027	2	0.03	0.00	11.4	2.46
23/05/2023 11:42	0.0	18.7	0.0	0	0	1028	1026	2	-0.01	0.00	11.6	2.46
23/05/2023 12:42	0.0	18.9	0.0	0	0	1027	1026	1	-0.06	0.00	11.8	2.46
23/05/2023 13:42	0.0	19.1	0.0	0	0	1027	1026	1	-0.10	0.00	12.0	2.46
23/05/2023 14:42	0.0	19.2	0.0	0	0	1027	1026	1	-0.10	0.00	12.2	2.46
23/05/2023 15:42	0.0	19.5	0.0	0	0	1027	1026	1	-0.13	0.00	12.3	2.46
23/05/2023 16:42	0.0	19.1	0.0	0	0	1027	1025	2	-0.24	0.00	12.3	2.46
23/05/2023 17:42	0.0	19.2	0.0	0	0	1026	1025	1	-0.20	0.00	12.3	2.46
23/05/2023 18:42	0.1	18.9	0.0	0	0	1026	1025	1	-0.16	0.00	12.3	2.46
23/05/2023 19:42	0.1	19.2	0.0	0	0	1027	1025	2	-0.11	0.00	12.3	2.46
23/05/2023 20:42	0.1	18.9	0.0	0	0	1026	1025	1	-0.09	0.00	12.3	2.46
23/05/2023 21:42	0.0	18.9	0.0	0	0	1026	1025	1	-0.09	0.00	12.1	2.46
23/05/2023 22:42	0.0	19.1	0.0	0	0	1027	1025	2	-0.06	0.00	12.1	2.46
23/05/2023 23:42	0.0	19.2	0.0	0	0	1027	1025	2	0.01	0.00	11.9	2.46
24/05/2023 00:42	0.0	18.9	0.0	0	0	1026	1024	2	-0.07	0.00	11.7	2.46
24/05/2023 01:42	0.1	19.2	0.0	0	0	1026	1024	2	-0.13	0.00	11.6	2.46
24/05/2023 02:42	0.0	19.1	0.0	0	0	1025	1024	1	-0.14	0.00	11.4	2.46
24/05/2023 03:42	0.1	19.2	0.0	0	0	1025	1024	1	-0.17	0.00	11.3	2.46
24/05/2023 04:42	0.0	19.2	0.0	0	0	1025	1024	1	-0.14	0.00	11.1	2.46
24/05/2023 05:42	0.1	19.1	0.0	0	0	1025	1024	1	-0.09	0.00	11.0	2.46
24/05/2023 06:42	0.0	19.1	0.0	0	0	1026	1025	1	0.02	0.00	10.9	2.46
24/05/2023 07:42	0.0	19.1	0.0	0	0	1026	1025	1	0.13	0.00	10.9	2.46
24/05/2023 08:42	0.0	18.9	0.0	0	0	1027	1026	1	0.24	0.00	10.9	2.46
24/05/2023 09:42	0.0	19.3	0.0	0	0	1027	1026	1	0.29	0.00	11.0	2.46
24/05/2023 10:42	0.0	19.2	0.0	0	0	1027	1026	1	0.33	0.00	11.1	2.46
24/05/2023 11:42	0.0	19.3	0.0	0	0	1028	1026	2	0.27	0.00	11.3	2.46
24/05/2023 12:42	0.1	19.2	0.0	0	0	1028	1027	2	0.26	0.00	11.5	2.46
24/05/2023 13:42	0.0	19.2	0.0	0	0	1028	1026	2	0.17	0.00	11.7	2.46
24/05/2023 14:42	0.1	18.9	0.0	0	0	1028	1027	1	0.15	0.00	11.9	2.46
24/05/2023 15:42	0.0	19.2	0.0	0	0	1028	1027	1	0.10	0.00	12.2	2.46
24/05/2023 16:42	0.0	19.3	0.0	0	0	1028	1027	1	0.07	0.00	12.4	2.46
24/05/2023 17:42	0.0	18.7	0.0	0	0	1028	1027	1	0.09	0.00	12.6	2.46
24/05/2023 18:42	0.1	18.9	0.0	0	0	1028	1027	1	0.11	0.00	12.8	2.46
24/05/2023 19:42	0.0	18.9	0.0	0	0	1028	1027	1	0.07	0.00	13.0	2.46
24/05/2023 20:42	0.0	19.1	0.0	0	0	1028	1027	1	0.07	0.00	13.1	2.46
24/05/2023 21:42	0.0	19.2	0.0	0	0	1029	1028	1	0.13	0.00	12.9	2.46
24/05/2023 22:42	0.0	18.8	0.0	0	0	1029	1027	2	0.09	0.00	12.6	2.46
24/05/2023 23:42	0.0	19.3	0.0	0	0	1029	1028	1	0.09	0.00	12.4	2.46
25/05/2023 00:42	0.0	19.1	0.0	0	0	1029	1028	1	0.10	0.00	12.1	2.46
25/05/2023 01:42	0.0	19.2	0.0	0	0	1029	1028	1	0.13	0.00	11.8	2.46
25/05/2023 02:42	0.1	19.2	0.0	0	0	1030	1028	2	0.14	0.00	11.6	2.46
25/05/2023 03:42	0.1	19.2	0.0	0	0	1030	1028	2	0.18	0.00	11.3	2.46
25/05/2023 04:42	0.0	19.2	0.0	0	0	1030	1029	1	0.15	0.00	11.1	2.46
25/05/2023 05:42	0.0	19.3	0.0	0	0	1030	1029	1	0.21	0.00	10.9	2.46
25/05/2023 06:42	0.0	19.3	0.0	0	0	1031	1030	1	0.29	0.00	10.7	2.46
25/05/2023 07:42	0.1	19.1	0.0	0	0	1031	1030	1	0.27	0.00	10.6	2.46
25/05/2023 08:42	0.0	19.2	0.0	0	0	1031	1030	1	0.25	0.00	10.7	2.46
25/05/2023 09:42	0.0	19.1	0.0	0	0	1031	1030	1	0.27	0.00	10.8	2.46
25/05/2023 10:42	0.0	19.2	0.0	0	0	1031	1030	1	0.26	0.00	11.0	2.46
25/05/2023 11:42	0.1	19.2	0.0	0	0	1031	1030	1	0.19	0.00	11.3	2.46
25/05/2023 12:42	0.1	19.1	0.0	0	0	1031	1030	1	0.14	0.00	11.6	2.46
25/05/2023 13:42	0.0	19.1	0.0	0	0	1031	1030	1	0.02	0.00	12.0	2.46
25/05/2023 14:42	0.0	19.2	0.0	0	0	1031	1030	1	0.02	0.00	12.4	2.46
25/05/2023 15:42	0.0	18.8	0.0	0	0	1031	1030	1	-0.02	0.00	12.8	2.46
25/05/2023 16:42	0.0	19.2	0.0	0	0	1031	1030	1	-0.02	0.00	13.3	2.47
25/05/2023 17:42	0.0	19.3	0.0	0	0	1031	1030	1	-0.05	0.00	13.6	2.46
25/05/2023 18:42	0.0	19.1	0.0	0	0	1031	1030	1	-0.03	0.00	13.8	2.46
25/05/2023 19:42	0.0	19.2	0.0	0	0	1031	1030	1	-0.03	0.00	13.9	2.46
25/05/2023 20:42	0.0	19.2	0.0	0	0	1031	1031	0	0.06	0.00	13.9	2.47
25/05/2023 21:42	0.0	19.3	0.0	0	0	1032	1031	1	0.04	0.00	13.7	2.46
25/05/2023 22:42	0.1	19.2	0.0	0	0	1032	1030	2	0.05	0.00	13.4	2.46
25/05/2023 23:42	0.0	19.3	0.0	0	0	1032	1031	1	0.05	0.00	13.1	2.46
26/05/2023 00:42	0.0	19.1	0.0	0	0	1032	1031	1	0.07	0.00	12.8	2.46
26/05/2023 01:42	0.0	19.1	0.0	0	0	1032	1030	2	0.05	0.00	12.5	2.46
26/05/2023 02:42	0.0	19.3	0.0	0	0	1032	1031	1	0.07	0.00	12.3	2.46
26/05/2023 03:42	0.0	19.2	0.0	0	0	1032	1031	1	0.00	0.00	12.1	2.46
26/05/2023 04:42	0.1	19.3	0.0	0	0	1032	1031	1	0.02	0.00	11.8	2.46
26/05/2023 05:42	0.0	19.3	0.0	0	0	1032	1031	1	0.07	0.00	11.6	2.46
26/05/2023 06:42	0.0	19.5	0.0	0	0	1032	1032	0	0.12	0.00	11.4	2.46
26/05/2023 07:42	0.0	19.2	0.0	0	0	1033	1032	1	0.13	0.00	11.3	2.46
26/05/2023 08:42	0.1	19.3	0.0	0	0	1033	1032	1	0.21	0.00	11.3	2.46
26/05/2023 09:42	0.1	19.2	0.0	0	0	1033	1032	1	0.21	0.00	11.4	2.46
26/05/2023 10:42	0.0	19.2	0.0	0	0	1033	1032	1	0.17	0.00	11.7	2.46
26/05/2023 11:42	0.0	19.3	0.0	0	0	1033	1032	1	0.14	0.00	11.9	2.46
26/05/2023 12:42	0.0	19.2	0.0	0	0	1033	1032	2	0.05	0.00	12.3	2.46
26/05/2023 13:42	0.1	19.5	0.0	0	0	1033	1031	2	-0.03	0.00	12.7	2.46
26/05/2023 14:42	0.0	19.1	0.0	0	0	1032	1031	1	-0.07	0.00	13.1	2.46
26/05/2023 15:42	0.0	19.2	0.0	0	0	1032	1031	1	-0.15	0.00	13.5	2.46
26/05/2023 16:42	0.0	19.2	0.0	0	0	1032	1030	2	-0.25	0.00	13.9	2.46
26/05/2023 17:42	0.0	19.1	0.0	0	0	1031	1030	1	-0.25	0.00	14.3	2.46
26/05/2023 18:42	0.0	19.3	0.0	0	0	1031	1029	2	-0.30	0.00	14.6	2.46
26/05/2023 19:42	0.0	18.9	0.0	0	0	1031	1030	1	-0.24	0.00	14.7	2.46
26/05/2023 20:42	0.0	19.1	0.0	0	0	1031	1029	2	-0.26	0.00	14.6	2.46
26/05/2023 21:42	0.0	19.1	0.0	0	0	1031	1029	2	-0.26	0.00	14.4	2.46
26/05/2023 22:42	0.1	19.2	0.0	0	0	1031	1029	2	-0.22	0.00	14.1	2.46
26/05/2023 23:42	0.0	19.1	0.0	0	0	1031	1029	2	-0.18	0.00	13.8	2.46
27/05/2023 00:42	0.0	19.1	0.0	0	0	1030	1028	2	-0.19	0.00	13.4	2.46
27/05/2023 01:42	0.0	19.2	0.0	0	0	1030	1028	2	-0.20	0.00	13.1	2.45
27/05/2023 02:42	0.0	19.2	0.0	0	0	1029	1027	2	-0.28	0.00	12.9	2.46
27/05/2023 03:42	0.0	19.3	0.0	0	0	1028	1027	1	-0.34	0.00	12.6	2.45
27/05/2023 04:42	0.0	19.5	0.0	0	0	1028	1026	2	-0.37	0.00	12.3	2.46
27/05/2023 05:42	0.0	18.9	0.0	0	0	1028	1026	2	-0.39	0.00	11.9	2.46
27/05/2023 06:42	0.0	19.3	0.0	0	0	1027	1026	1	-0.39	0.00	11.7	2.46
27/05/2023 07:42	0.0	19.2	0.0	0	0	1027	1025	2	-0.40	0.00	11.7	2.46
27/05/2023 08:42	0.0	19.2	0.0	0	0	1026	1025	1	-0.33			

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
28/05/2023 03:42	0.1	19.5	0.0	0	0	1026	1025	1	0.07	0.00	11.8	2.46
28/05/2023 04:42	0.1	19.2	0.0	0	0	1026	1025	1	0.11	0.00	11.4	2.46
28/05/2023 05:42	0.1	19.3	0.0	0	0	1027	1026	1	0.15	0.00	11.2	2.46
28/05/2023 06:42	0.0	19.6	0.0	0	0	1027	1026	1	0.17	0.00	10.9	2.46
28/05/2023 07:42	0.0	19.5	0.0	0	0	1028	1026	2	0.21	0.00	10.9	2.46
28/05/2023 08:42	0.1	19.3	0.0	0	0	1028	1027	1	0.29	0.00	10.9	2.47
28/05/2023 09:42	0.0	19.3	0.0	0	0	1028	1027	1	0.28	0.00	11.0	2.46
28/05/2023 10:42	0.0	19.6	0.0	0	0	1028	1027	1	0.22	0.00	11.3	2.46
28/05/2023 11:42	0.1	19.1	0.0	0	0	1028	1027	1	0.18	0.00	11.5	2.46
28/05/2023 12:42	0.1	19.5	0.0	0	0	1028	1027	1	0.13	0.00	11.8	2.46
28/05/2023 13:42	0.0	19.1	0.0	0	0	1028	1027	1	0.04	0.00	12.2	2.46
28/05/2023 14:42	0.0	19.3	0.0	0	0	1028	1027	1	0.04	0.00	12.6	2.46
28/05/2023 15:42	0.0	19.2	0.0	0	0	1028	1027	1	-0.05	0.00	12.9	2.46
28/05/2023 16:42	0.0	19.2	0.0	0	0	1028	1026	2	-0.10	0.00	13.3	2.46
28/05/2023 17:42	0.0	18.9	0.0	0	0	1028	1026	2	-0.02	0.00	13.6	2.46
28/05/2023 18:42	0.1	19.2	0.0	0	0	1028	1027	1	-0.03	0.00	13.8	2.46
28/05/2023 19:42	0.1	19.3	0.0	0	0	1028	1027	1	-0.02	0.00	13.8	2.46
28/05/2023 20:42	0.1	19.3	0.0	0	0	1028	1027	1	0.06	0.00	13.6	2.46
28/05/2023 21:42	0.0	19.1	0.0	0	0	1028	1027	1	0.06	0.00	13.4	2.46
28/05/2023 22:42	0.1	19.3	0.0	0	0	1029	1028	2	0.12	0.00	13.2	2.46
28/05/2023 23:42	0.1	19.5	0.0	0	0	1029	1028	2	0.16	0.00	12.9	2.46
29/05/2023 00:42	0.1	19.5	0.0	0	0	1029	1028	1	0.14	0.00	12.6	2.46
29/05/2023 01:42	0.0	19.7	0.0	0	0	1029	1028	1	0.18	0.00	12.3	2.46
29/05/2023 02:42	0.0	19.2	0.0	0	0	1029	1028	1	0.14	0.00	11.9	2.46
29/05/2023 03:42	0.1	19.3	0.0	0	0	1029	1028	1	0.16	0.00	11.6	2.46
29/05/2023 04:42	0.0	19.5	0.0	0	0	1030	1029	1	0.16	0.00	11.4	2.46
29/05/2023 05:42	0.0	19.5	0.0	0	0	1030	1029	1	0.18	0.00	11.1	2.46
29/05/2023 06:42	0.0	19.6	0.0	0	0	1030	1029	1	0.24	0.00	10.9	2.46
29/05/2023 07:42	0.1	19.5	0.0	0	0	1031	1030	1	0.25	0.00	10.8	2.46
29/05/2023 08:42	0.1	19.6	0.0	0	0	1031	1030	1	0.21	0.00	10.9	2.46
29/05/2023 09:42	0.1	19.3	0.0	0	0	1031	1030	1	0.23	0.00	11.1	2.46
29/05/2023 10:42	0.1	19.2	0.0	0	0	1031	1030	1	0.19	0.00	11.4	2.46
29/05/2023 11:42	0.0	19.2	0.0	0	0	1031	1030	1	0.14	0.00	11.8	2.46
29/05/2023 12:42	0.1	19.3	0.0	0	0	1031	1030	1	0.09	0.00	12.2	2.46
29/05/2023 13:42	0.0	19.3	0.0	0	0	1031	1029	2	0.01	0.00	12.6	2.46
29/05/2023 14:42	0.0	19.2	0.0	0	0	1031	1029	2	-0.01	0.00	13.1	2.46
29/05/2023 15:42	0.1	19.2	0.0	0	0	1031	1030	1	0.00	0.00	13.5	2.46
29/05/2023 16:42	0.0	19.2	0.0	0	0	1031	1029	2	-0.05	0.00	13.9	2.46
29/05/2023 17:42	0.1	19.5	0.0	0	0	1031	1029	2	-0.06	0.00	14.3	2.46
29/05/2023 18:42	0.0	19.3	0.0	0	0	1031	1030	2	-0.02	0.00	14.6	2.47
29/05/2023 19:42	0.0	19.2	0.0	0	0	1031	1030	1	0.00	0.00	14.8	2.47
29/05/2023 20:42	0.1	19.2	0.0	0	0	1031	1030	1	0.04	0.00	14.9	2.46
29/05/2023 21:42	0.0	19.2	0.0	0	0	1031	1030	1	0.07	0.00	14.8	2.47
29/05/2023 22:42	0.1	19.6	0.0	0	0	1031	1030	1	0.05	0.00	14.4	2.46
29/05/2023 23:42	0.0	19.3	0.0	0	0	1031	1030	1	0.07	0.00	14.1	2.46
30/05/2023 00:42	0.0	19.3	0.0	0	0	1031	1030	1	0.09	0.00	13.7	2.46
30/05/2023 01:42	0.0	19.2	0.0	0	0	1031	1030	1	0.08	0.00	13.4	2.46
30/05/2023 02:42	0.0	19.5	0.0	0	0	1032	1030	2	0.08	0.00	13.1	2.46
30/05/2023 03:42	0.1	19.5	0.0	0	0	1032	1031	1	0.10	0.00	12.8	2.46
30/05/2023 04:42	0.1	19.5	0.0	0	0	1032	1031	1	0.11	0.00	12.6	2.46
30/05/2023 05:42	0.0	19.6	0.0	0	0	1032	1031	1	0.13	0.00	12.3	2.46
30/05/2023 06:42	0.0	19.5	0.0	0	0	1033	1031	2	0.18	0.00	12.1	2.46
30/05/2023 07:42	0.0	19.3	0.0	0	0	1033	1032	1	0.21	0.00	12.0	2.46
30/05/2023 08:42	0.1	19.2	0.0	0	0	1033	1032	1	0.20	0.00	12.0	2.46
30/05/2023 09:42	0.1	19.5	0.0	0	0	1033	1032	1	0.15	0.00	12.1	2.46
30/05/2023 10:42	0.0	19.2	0.0	0	0	1033	1031	2	0.10	0.00	12.3	2.46
30/05/2023 11:42	0.0	19.3	0.0	0	0	1033	1031	2	0.05	0.00	12.6	2.46
30/05/2023 12:42	0.1	19.3	0.0	0	0	1033	1031	2	0.02	0.00	13.0	2.46
30/05/2023 13:42	0.1	19.3	0.0	0	0	1032	1031	1	-0.06	0.00	13.4	2.46
30/05/2023 14:42	0.0	19.2	0.0	0	0	1032	1031	1	-0.12	0.00	13.9	2.46
30/05/2023 15:42	0.0	19.1	0.0	0	0	1032	1031	1	-0.16	0.00	14.4	2.46
30/05/2023 16:42	0.0	19.2	0.0	0	0	1031	1030	1	-0.16	0.00	14.8	2.46
30/05/2023 17:42	0.1	19.3	0.0	0	0	1031	1030	1	-0.19	0.00	15.2	2.46
30/05/2023 18:42	0.0	19.5	0.0	0	0	1031	1030	1	-0.22	0.00	15.5	2.46
30/05/2023 19:42	0.0	19.3	0.0	0	0	1031	1029	2	-0.23	0.00	15.7	2.46
30/05/2023 20:42	0.1	19.1	0.0	0	0	1031	1029	2	-0.24	0.00	15.8	2.46
30/05/2023 21:42	0.0	19.2	0.0	0	0	1031	1029	2	-0.21	0.00	15.6	2.46
30/05/2023 22:42	0.0	19.2	0.0	0	0	1031	1029	2	-0.13	0.00	15.4	2.46
30/05/2023 23:42	0.1	19.3	0.0	0	0	1031	1030	1	-0.09	0.00	15.0	2.46
31/05/2023 00:42	0.0	19.3	0.0	0	0	1031	1029	2	-0.07	0.00	14.6	2.46
31/05/2023 01:42	0.1	19.3	0.0	0	0	1031	1030	1	-0.01	0.00	14.3	2.46
31/05/2023 02:42	0.0	19.6	0.0	0	0	1031	1030	1	0.08	0.00	14.0	2.46
31/05/2023 03:42	0.1	19.6	0.0	0	0	1031	1030	1	0.12	0.00	13.7	2.46
31/05/2023 04:42	0.0	19.6	0.0	0	0	1031	1030	1	0.14	0.00	13.4	2.46
31/05/2023 05:42	0.1	19.3	0.0	0	0	1031	1030	1	0.10	0.00	13.2	2.46
31/05/2023 06:42	0.0	19.5	0.0	0	0	1032	1030	2	0.12	0.00	12.9	2.46
31/05/2023 07:42	0.0	19.5	0.0	0	0	1032	1030	2	0.08	0.00	12.8	2.46
31/05/2023 08:42	0.1	19.5	0.0	0	0	1031	1030	1	0.08	0.00	12.8	2.46
31/05/2023 09:42	0.0	19.5	0.0	0	0	1031	1030	1	-0.05	0.00	12.8	2.46

Time Series Data

Project Ref:	GG3244
Project Name:	Ardrossan Academy, Ardrossan
Borehole ref:	EC-BH15
Instrument Name and ID:	GC221/01/12, FD0016
Start Date:	05/05/2023 15:39
End Date:	31/05/2023 08:39
Days of monitoring:	26
Monitoring Frequency (mins):	60
Total samples taken:	618



Summary Table

	CH ₄	CO ₂	O ₂	CO	H ₂ S	Atmospheric Pressure	Differential Pressure	Average 8-hour atmospheric pressure change	Flow	Temperature	Water Level
Minimum	0.3	0.0	19.8	0	0	1002	-4	-0.50	-0.02	12.4	3.16
Maximum	0.3	0.0	20.2	3	0	1029	-2	0.75	0.26	18.3	3.18
Range	0.0	0.0	0.4	3	0	27	N/A	1.25	0.29	5.9	0.02

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/lhr	Temperature °C	Water Level mbgl
05/05/2023 15:39	0.3	0.0	20.1	3	0	1004	-4	N/A	0.01	12.8	3.17
05/05/2023 16:39	0.3	0.0	20.1	3	0	1004	-4	N/A	0.01	13.2	3.17
05/05/2023 17:39	0.3	0.0	20.1	3	0	1004	-4	N/A	0.00	13.4	3.17
05/05/2023 18:39	0.3	0.0	20.1	3	0	1005	-3	N/A	0.00	13.7	3.17
05/05/2023 19:39	0.3	0.0	20.1	3	0	1005	-3	N/A	0.00	13.8	3.17
05/05/2023 20:39	0.3	0.0	20.1	3	0	1005	-4	N/A	0.00	13.8	3.17
05/05/2023 21:39	0.3	0.0	20.1	3	0	1005	-4	N/A	0.01	13.8	3.17
05/05/2023 22:39	0.3	0.0	20.1	3	0	1006	-3	0.25	0.02	13.6	3.17
05/05/2023 23:39	0.3	0.0	20.1	3	0	1006	-3	0.25	0.02	13.4	3.17
06/05/2023 00:39	0.3	0.0	20.1	3	0	1006	-3	0.25	0.03	13.3	3.17
06/05/2023 01:39	0.3	0.0	20.1	3	0	1006	-3	0.13	0.00	13.1	3.17
06/05/2023 02:39	0.3	0.0	20.0	3	0	1006	-3	0.13	0.02	12.9	3.17
06/05/2023 03:39	0.3	0.0	20.0	2	0	1006	-3	0.13	0.01	12.8	3.17
06/05/2023 04:39	0.3	0.0	20.0	3	0	1006	-3	0.13	0.00	12.7	3.17
06/05/2023 05:39	0.3	0.0	20.0	3	0	1006	-3	0.00	0.00	12.6	3.17
06/05/2023 06:39	0.3	0.0	20.0	3	0	1006	-4	0.00	0.00	12.5	3.17
06/05/2023 07:39	0.3	0.0	20.0	3	0	1006	-4	0.00	0.00	12.4	3.17
06/05/2023 08:39	0.3	0.0	20.1	3	0	1007	-3	0.13	0.00	12.4	3.17
06/05/2023 09:39	0.3	0.0	20.1	3	0	1007	-3	0.13	0.00	12.4	3.17
06/05/2023 10:39	0.3	0.0	20.1	3	0	1007	-3	0.13	0.01	12.6	3.17
06/05/2023 11:39	0.3	0.0	20.1	3	0	1007	-3	0.13	0.07	12.7	3.17
06/05/2023 12:39	0.3	0.0	20.1	3	0	1007	-3	0.13	0.05	12.9	3.17
06/05/2023 13:39	0.3	0.0	20.1	3	0	1007	-3	0.13	0.02	13.1	3.17
06/05/2023 14:39	0.3	0.0	20.1	2	0	1007	-3	0.13	0.00	13.4	3.17
06/05/2023 15:39	0.3	0.0	20.2	3	0	1007	-3	0.00	0.00	13.8	3.17
06/05/2023 16:39	0.3	0.0	20.2	3	0	1006	-4	-0.13	0.00	14.0	3.17
06/05/2023 17:39	0.3	0.0	20.2	3	0	1006	-4	-0.13	0.00	14.2	3.17
06/05/2023 18:39	0.3	0.0	20.2	3	0	1006	-4	-0.13	0.00	14.3	3.17
06/05/2023 19:39	0.3	0.0	20.2	3	0	1006	-4	-0.13	0.01	14.4	3.17
06/05/2023 20:39	0.3	0.0	20.2	2	0	1007	-3	0.00	0.00	14.4	3.17
06/05/2023 21:39	0.3	0.0	20.2	3	0	1007	-3	0.00	0.00	14.3	3.17
06/05/2023 22:39	0.3	0.0	20.2	3	0	1007	-4	0.00	0.02	14.1	3.17
06/05/2023 23:39	0.3	0.0	20.1	3	0	1007	-4	0.13	0.01	13.9	3.17
07/05/2023 00:39	0.3	0.0	20.1	2	0	1008	-3	0.25	0.02	13.7	3.17
07/05/2023 01:39	0.3	0.0	20.1	3	0	1008	-3	0.25	0.00	13.5	3.17
07/05/2023 02:39	0.3	0.0	20.1	3	0	1008	-3	0.25	0.00	13.3	3.17
07/05/2023 03:39	0.3	0.0	20.1	2	0	1008	-4	0.13	0.00	13.2	3.17
07/05/2023 04:39	0.3	0.0	20.1	3	0	1008	-4	0.13	0.00	13.0	3.17
07/05/2023 05:39	0.3	0.0	20.1	3	0	1009	-3	0.25	0.00	12.9	3.17
07/05/2023 06:39	0.3	0.0	20.1	3	0	1009	-3	0.25	0.00	12.8	3.17
07/05/2023 07:39	0.3	0.0	20.1	2	0	1009	-4	0.13	0.00	12.6	3.17
07/05/2023 08:39	0.3	0.0	20.1	2	0	1009	-4	0.13	0.00	12.6	3.17
07/05/2023 09:39	0.3	0.0	20.1	3	0	1010	-3	0.25	0.00	12.7	3.17
07/05/2023 10:39	0.3	0.0	20.1	2	0	1010	-3	0.25	0.00	12.8	3.16
07/05/2023 11:39	0.3	0.0	20.1	2	0	1010	-3	0.25	0.00	13.0	3.17
07/05/2023 12:39	0.3	0.0	20.2	2	0	1010	-3	0.13	0.06	13.3	3.16
07/05/2023 13:39	0.3	0.0	20.2	2	0	1010	-3	0.13	0.10	13.7	3.17
07/05/2023 14:39	0.3	0.0	20.2	2	0	1010	-4	0.13	0.08	14.2	3.17
07/05/2023 15:39	0.3	0.0	20.2	3	0	1010	-4	0.13	0.05	14.6	3.17
07/05/2023 16:39	0.3	0.0	20.2	2	0	1010	-3	0.00	0.01	14.8	3.17
07/05/2023 17:39	0.3	0.0	20.2	2	0	1010	-3	0.00	0.10	15.1	3.17
07/05/2023 18:39	0.3	0.0	20.2	2	0	1009	-4	-0.13	0.00	15.3	3.17
07/05/2023 19:39	0.3	0.0	20.2	2	0	1010	-3	0.00	0.00	15.4	3.17
07/05/2023 20:39	0.3	0.0	20.2	2	0	1010	-3	0.00	0.01	15.3	3.17
07/05/2023 21:39	0.3	0.0	20.2	2	0	1010	-3	0.00	0.00	15.1	3.17
07/05/2023 22:39	0.3	0.0	20.2	2	0	1010	-3	0.00	0.03	14.9	3.16
07/05/2023 23:39	0.3	0.0	20.2	2	0	1009	-3	-0.13	0.08	14.6	3.16
08/05/2023 00:39	0.3	0.0	20.2	2	0	1009	-2	-0.13	0.06	14.5	3.16
08/05/2023 01:39	0.3	0.0	20.1	2	0	1008	-3	-0.13	0.09	14.3	3.16
08/05/2023 02:39	0.3	0.0	20.1	2	0	1007	-3	-0.38	0.07	14.2	3.16
08/05/2023 03:39	0.3	0.0	20.1	2	0	1007	-3	-0.38	0.06	14.0	3.16
08/05/2023 04:39	0.3	0.0	20.1	2	0	1006	-3	-0.50	0.01	13.9	3.16
08/05/2023 05:39	0.3	0.0	20.1	2	0	1006	-3	-0.50	0.02	13.8	3.17
08/05/2023 06:39	0.3	0.0	20.1	2	0	1006	-3	-0.38	0.00	13.7	3.17
08/05/2023 07:39	0.3	0.0	20.1	2	0	1006	-3	-0.38	0.01	13.6	3.16
08/05/2023 08:39	0.3	0.0	20.1	2	0	1005	-4	-0.38	0.00	13.5	3.17
08/05/2023 09:39	0.3	0.0	20.1	2	0	1005	-3	-0.25	0.00	13.4	3.16
08/05/2023 10:39	0.3	0.0	20.1	2	0	1005	-4	-0.25	0.00	13.4	3.17
08/05/2023 11:39	0.3	0.0	20.1	2	0	1005	-4	-0.13	0.00	13.4	3.17
08/05/2023 12:39	0.3	0.0	20.1	2	0	1005	-4	-0.13	0.07	13.4	3.17
08/05/2023 13:39	0.3	0.0	20.1	1	0	1005	-4	-0.13	0.08	13.4	3.17
08/05/2023 14:39	0.3	0.0	20.1	2	0	1005	-4	-0.13	0.10	13.4	3.17
08/05/2023 15:39	0.3	0.0	20.1	2	0	1005	-4	0.00	0.07	13.4	3.17
08/05/2023 16:39	0.3	0.0	20.1	2	0	1005	-3	0.00	0.00	13.5	3.16
08/05/2023 17:39	0.3	0.0	20.1	2	0	1005	-3	0.00	0.00	13.5	3.17
08/05/2023 18:39	0.3	0.0	20.1	2	0	1005	-3	0.00	0.00	13.6	3.17
08/05/2023 19:39	0.3	0.0	20.1	2	0	1005	-3	0.00	0.00	13.6	3.17
08/05/2023 20:39	0.3	0.0	20.1	2	0	1005	-4	0.00	0.01	13.7	3.17
08/05/2023 21:39	0.3	0.0	20.1	2	0	1005	-3	0.00	-0.01	13.7	3.16
08/05/2023 22:39	0.3	0.0	20.1	2	0	1004	-4	-0.13	0.00	13.6	3.17
08/05/2023 23:39	0.3	0.0	20.1	2	0	1005	-3	0.00	0.00	13.6	3.17
09/05/2023 00:39	0.3	0.0	20.1	2	0	1005	-3	0.00	0.04	13.5	3.17
09/05/2023 01:39	0.3	0.0	20.1	2	0	1004	-3	-0.13	0.07	13.4	3.17
09/05/2023 02:39	0.3	0.0	20.0	1	0	1004	-3	-0.13	0.09	13.4	3.16
09/05/2023 03:39	0.3	0.0	20.0	2	0	1004	-3	-0.13	0.01	13.4	3.17
09/05/2023 04:39	0.3	0.0	20.0	2	0	1004	-3	-0.13	0.00	13.3	3.16
09/05/2023 05:39	0.3	0.0	20.0	2	0	1004	-3	0.00	0.00	13.2	3.16
09/05/2023 06:39	0.3	0.0	20.0	2	0	1004	-3	-0.13	0.00	13.1	3.17
09/05/2023 07:39	0.3	0.0	20.0	1	0	1004	-3	-0.13	0.00	13.1	3.17
09/05/2023 08:39	0.3	0.0	20.0	1	0	1004	-3	0.00	0.01	13.1	3.17
09/05/2023 09:39	0.3	0.0	20.0	2	0	1004	-4	0.00	0.03	13.2	3.17
09/05/2023 10:39	0.3	0.0	20.1	1	0	1004	-4	0.00	0.06	13.4	3.17
09/05/2023 11:39	0.3	0.0	20.1	1	0	1004	-3	0.00	0.04	13.7	3.16
09/05/2023 12:39	0.3	0.0	20.1	1	0	1004	-3	0.00	0.05	13.9	3.17

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
09/05/2023 13:39	0.3	0.0	20.1	1	0	1004	-3	0.00	0.06	14.0	3.17
09/05/2023 14:39	0.3	0.0	20.1	1	0	1004	-3	0.00	0.06	14.2	3.17
09/05/2023 15:39	0.3	0.0	20.1	1	0	1003	-4	-0.13	0.08	14.4	3.17
09/05/2023 16:39	0.3	0.0	20.1	1	0	1003	-4	-0.13	0.02	14.7	3.17
09/05/2023 17:39	0.3	0.0	20.1	1	0	1003	-4	-0.13	0.00	14.9	3.17
09/05/2023 18:39	0.3	0.0	20.1	1	0	1003	-3	-0.13	0.03	15.1	3.17
09/05/2023 19:39	0.3	0.0	20.1	1	0	1003	-3	-0.13	0.00	15.2	3.17
09/05/2023 20:39	0.3	0.0	20.1	1	0	1003	-4	-0.13	0.00	15.1	3.17
09/05/2023 21:39	0.3	0.0	20.1	1	0	1003	-4	-0.13	0.03	14.9	3.16
09/05/2023 22:39	0.3	0.0	20.1	1	0	1003	-3	0.00	0.00	14.8	3.16
09/05/2023 23:39	0.3	0.0	20.0	1	0	1003	-3	0.00	0.00	14.6	3.17
10/05/2023 00:39	0.3	0.0	20.0	1	0	1003	-3	0.00	0.00	14.4	3.17
10/05/2023 01:39	0.3	0.0	20.0	1	0	1003	-3	0.00	0.00	14.3	3.16
10/05/2023 02:39	0.3	0.0	20.0	1	0	1002	-3	-0.13	0.06	14.1	3.17
10/05/2023 03:39	0.3	0.0	20.0	1	0	1002	-3	-0.13	0.11	14.0	3.16
10/05/2023 04:39	0.3	0.0	20.0	1	0	1002	-3	-0.13	0.07	13.9	3.17
10/05/2023 05:39	0.3	0.0	20.0	1	0	1002	-3	-0.13	0.02	13.8	3.17
10/05/2023 06:39	0.3	0.0	20.0	1	0	1002	-3	-0.13	0.00	13.8	3.17
10/05/2023 07:39	0.3	0.0	20.0	2	0	1002	-3	-0.13	0.01	13.6	3.17
10/05/2023 08:39	0.3	0.0	20.0	1	0	1002	-4	-0.13	0.01	13.6	3.17
10/05/2023 09:39	0.3	0.0	20.0	1	0	1002	-4	0.00	0.00	13.6	3.17
10/05/2023 10:39	0.3	0.0	20.0	1	0	1002	-4	0.00	0.06	13.6	3.17
10/05/2023 11:39	0.3	0.0	20.0	1	0	1002	-4	0.00	0.02	13.6	3.17
10/05/2023 12:39	0.3	0.0	20.0	1	0	1002	-4	0.00	0.06	13.6	3.17
10/05/2023 13:39	0.3	0.0	20.0	1	0	1002	-4	0.00	0.10	13.8	3.17
10/05/2023 14:39	0.3	0.0	20.0	1	0	1003	-3	0.13	0.11	13.9	3.17
10/05/2023 15:39	0.3	0.0	20.0	1	0	1002	-4	0.00	0.06	14.2	3.17
10/05/2023 16:39	0.3	0.0	20.0	1	0	1003	-4	0.13	0.02	14.4	3.17
10/05/2023 17:39	0.3	0.0	20.0	1	0	1003	-4	0.13	0.01	14.5	3.17
10/05/2023 18:39	0.3	0.0	20.0	1	0	1004	-3	0.25	0.00	14.7	3.17
10/05/2023 19:39	0.3	0.0	20.0	1	0	1004	-4	0.25	0.01	14.8	3.17
10/05/2023 20:39	0.3	0.0	20.0	1	0	1004	-4	0.25	0.00	14.8	3.17
10/05/2023 21:39	0.3	0.0	20.0	1	0	1005	-3	0.25	0.00	14.6	3.17
10/05/2023 22:39	0.3	0.0	20.0	1	0	1005	-3	0.38	0.00	14.4	3.17
10/05/2023 23:39	0.3	0.0	20.0	1	0	1005	-3	0.25	0.00	14.3	3.17
11/05/2023 00:39	0.3	0.0	20.0	1	0	1005	-3	0.25	0.01	14.1	3.17
11/05/2023 01:39	0.3	0.0	20.0	1	0	1005	-3	0.13	0.04	13.9	3.17
11/05/2023 02:39	0.3	0.0	20.0	1	0	1005	-4	0.13	0.11	13.8	3.17
11/05/2023 03:39	0.3	0.0	19.9	1	0	1005	-4	0.13	0.03	13.8	3.17
11/05/2023 04:39	0.3	0.0	19.9	1	0	1006	-3	0.13	0.01	13.7	3.17
11/05/2023 05:39	0.3	0.0	19.9	1	0	1006	-4	0.13	0.00	13.6	3.17
11/05/2023 06:39	0.3	0.0	19.9	1	0	1007	-4	0.25	0.00	13.5	3.17
11/05/2023 07:39	0.3	0.0	19.9	1	0	1008	-4	0.38	0.00	13.4	3.17
11/05/2023 08:39	0.3	0.0	19.9	1	0	1009	-3	0.50	0.00	13.4	3.17
11/05/2023 09:39	0.3	0.0	20.0	1	0	1009	-4	0.50	0.00	13.4	3.17
11/05/2023 10:39	0.3	0.0	20.0	1	0	1010	-4	0.63	0.00	13.4	3.17
11/05/2023 11:39	0.3	0.0	20.0	1	0	1010	-4	0.50	0.01	13.6	3.17
11/05/2023 12:39	0.3	0.0	20.0	1	0	1011	-4	0.63	0.02	13.8	3.17
11/05/2023 13:39	0.3	0.0	20.0	1	0	1012	-3	0.63	0.01	13.9	3.17
11/05/2023 14:39	0.3	0.0	20.0	1	0	1012	-3	0.50	0.00	14.1	3.17
11/05/2023 15:39	0.3	0.0	20.0	1	0	1013	-3	0.50	0.00	14.3	3.17
11/05/2023 16:39	0.3	0.0	20.0	1	0	1013	-4	0.50	0.01	14.4	3.18
11/05/2023 17:39	0.3	0.0	20.0	1	0	1014	-4	0.50	0.00	14.6	3.17
11/05/2023 18:39	0.3	0.0	20.1	1	0	1015	-4	0.63	0.00	14.7	3.18
11/05/2023 19:39	0.3	0.0	20.0	1	0	1016	-4	0.63	0.00	14.8	3.17
11/05/2023 20:39	0.3	0.0	20.0	1	0	1017	-4	0.63	0.02	14.8	3.17
11/05/2023 21:39	0.3	0.0	20.0	1	0	1018	-3	0.75	0.00	14.7	3.17
11/05/2023 22:39	0.3	0.0	20.0	1	0	1018	-4	0.63	0.00	14.6	3.17
11/05/2023 23:39	0.3	0.0	20.0	1	0	1019	-4	0.75	0.00	14.4	3.17
12/05/2023 00:39	0.3	0.0	20.0	1	0	1020	-4	0.75	0.00	14.3	3.17
12/05/2023 01:39	0.3	0.0	20.0	1	0	1021	-3	0.75	0.00	14.1	3.17
12/05/2023 02:39	0.3	0.0	20.0	1	0	1021	-4	0.63	0.00	13.9	3.17
12/05/2023 03:39	0.3	0.0	20.0	1	0	1021	-4	0.50	0.00	13.8	3.17
12/05/2023 04:39	0.3	0.0	20.0	1	0	1022	-3	0.50	0.00	13.8	3.17
12/05/2023 05:39	0.3	0.0	19.9	1	0	1022	-4	0.50	0.00	13.6	3.17
12/05/2023 06:39	0.3	0.0	19.9	1	0	1023	-4	0.50	0.00	13.5	3.17
12/05/2023 07:39	0.3	0.0	20.0	1	0	1024	-3	0.50	0.00	13.4	3.17
12/05/2023 08:39	0.3	0.0	20.0	1	0	1024	-3	0.38	0.00	13.4	3.17
12/05/2023 09:39	0.3	0.0	20.0	1	0	1024	-4	0.38	-0.02	13.4	3.17
12/05/2023 10:39	0.3	0.0	20.0	1	0	1024	-4	0.38	-0.01	13.5	3.17
12/05/2023 11:39	0.3	0.0	20.0	1	0	1025	-3	0.38	0.00	13.6	3.17
12/05/2023 12:39	0.3	0.0	20.0	1	0	1025	-3	0.38	0.00	13.8	3.17
12/05/2023 13:39	0.3	0.0	20.0	1	0	1025	-3	0.25	0.00	14.1	3.17
12/05/2023 14:39	0.3	0.0	20.1	1	0	1025	-3	0.13	0.00	14.4	3.17
12/05/2023 15:39	0.3	0.0	20.1	1	0	1024	-4	0.00	0.01	14.6	3.17
12/05/2023 16:39	0.3	0.0	20.1	1	0	1024	-4	0.00	0.01	14.9	3.17
12/05/2023 17:39	0.3	0.0	20.1	1	0	1024	-4	0.00	0.03	15.1	3.17
12/05/2023 18:39	0.3	0.0	20.1	0	0	1024	-4	-0.13	0.00	15.4	3.17
12/05/2023 19:39	0.3	0.0	20.1	1	0	1024	-4	-0.13	0.00	15.6	3.17
12/05/2023 20:39	0.3	0.0	20.1	1	0	1024	-4	-0.13	0.00	15.6	3.17
12/05/2023 21:39	0.3	0.0	20.0	0	0	1025	-3	0.00	0.00	15.4	3.17
12/05/2023 22:39	0.3	0.0	20.0	1	0	1025	-3	0.13	0.00	15.1	3.17
12/05/2023 23:39	0.3	0.0	20.0	1	0	1025	-3	0.13	0.00	14.9	3.17
13/05/2023 00:39	0.3	0.0	20.0	1	0	1025	-3	0.13	0.00	14.6	3.16
13/05/2023 01:39	0.3	0.0	20.0	1	0	1024	-4	0.00	0.00	14.2	3.17
13/05/2023 02:39	0.3	0.0	19.9	1	0	1024	-4	0.00	0.00	14.0	3.17
13/05/2023 03:39	0.3	0.0	19.9	1	0	1024	-3	0.00	0.00	13.8	3.16
13/05/2023 04:39	0.3	0.0	19.9	1	0	1024	-3	-0.13	0.00	13.5	3.17
13/05/2023 05:39	0.3	0.0	19.9	1	0	1024	-4	-0.13	0.01	13.3	3.17
13/05/2023 06:39	0.3	0.0	19.9	1	0	1024	-4	-0.13	0.00	13.1	3.17
13/05/2023 07:39	0.3	0.0	19.9	1	0	1024	-3	-0.13	0.00	13.1	3.16
13/05/2023 08:39	0.3	0.0	19.9	1	0	1024	-3	0.00	0.00	13.1	3.17
13/05/2023 09:39	0.3	0.0	19.9	1	0	1024	-3	0.00	0.00	13.1	3.17
13/05/2023 10:39	0.3	0.0	19.9	1	0	1024	-3	0.00	0.00	13.2	3.17
13/05/2023 11:39	0.3	0.0	19.9	1	0	1023	-4	-0.13	0.00	13.3	3.17
13/05/2023 12:39	0.3	0.0	20.0	1	0	1023	-3	-0.13	0.00	13.6	3.17
13/05/2023 13:39	0.3	0.0	20.0	1	0	1022	-4	-0.25	0.00	13.8	3.17
13/05/2023 14:39	0.3	0.0	20.0	1	0	1022	-3	-0.25	0.00	14.1	3.17
13/05/2023 15:39	0.3	0.0	20.0	1	0	1021	-4	-0.38	0.01	14.3	3.17
13/05/2023 16:39	0.3	0.0	20.0	0	0	1021	-3	-0.38	0.01	14.6	3.16
13/05/2023 17:39	0.3	0.0	20.0	1	0	1020	-3	-0.50	0.03	14.7	3.16
13/05/2023 18:39	0.3	0.0	20.0	0	0	1020	-3	-0.38	0.02	14.8	3.17
13/05/2023 19:39	0.3	0.0	20.0	0	0	1019	-3	-0.50	0.02	14.8	3.16
13/05/2023 20:39	0.3	0.0	20.0	0	0	1019	-3	-0.38	0.00	14.6	3.16
13/05/2023 21:39	0.3	0.0	20.0	0	0	1019	-3	-0.38	0.00	14.5	3.16
13/05/2023 22:39	0.3	0.0	20.0	0	0	1018	-3	-0.38	0.00	14.4	3.16
13/05/2023 23:39	0.3	0.0	19.9	1	0	1017	-3	-0.50	0.00	14.2	3.16
14/05/2023 00:39	0.3	0.0	19.9	1	0	1017	-3	-0.38	0.00	14.1	

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
14/05/2023 11:39	0.3	0.0	19.9	1	0	1013	-3	-0.25	0.14	13.4	3.17
14/05/2023 12:39	0.3	0.0	19.9	0	0	1013	-3	-0.13	0.17	13.4	3.17
14/05/2023 13:39	0.3	0.0	19.9	1	0	1013	-3	0.00	0.10	13.4	3.17
14/05/2023 14:39	0.3	0.0	19.9	1	0	1013	-3	0.00	0.19	13.5	3.17
14/05/2023 15:39	0.3	0.0	19.9	1	0	1013	-4	0.00	0.15	13.6	3.17
14/05/2023 16:39	0.3	0.0	19.9	0	0	1013	-4	0.00	0.09	13.8	3.17
14/05/2023 17:39	0.3	0.0	19.9	0	0	1013	-4	0.00	0.08	13.9	3.17
14/05/2023 18:39	0.3	0.0	19.9	1	0	1013	-4	0.00	0.17	14.1	3.17
14/05/2023 19:39	0.3	0.0	19.9	0	0	1014	-3	0.13	0.11	14.1	3.17
14/05/2023 20:39	0.3	0.0	19.9	0	0	1014	-4	0.13	0.10	14.1	3.17
14/05/2023 21:39	0.3	0.0	19.9	0	0	1014	-4	0.13	0.03	14.0	3.17
14/05/2023 22:39	0.3	0.0	19.9	0	0	1015	-3	0.25	0.09	13.8	3.17
14/05/2023 23:39	0.3	0.0	19.9	0	0	1015	-3	0.25	0.01	13.7	3.17
15/05/2023 00:39	0.3	0.0	19.9	1	0	1015	-3	0.25	0.00	13.5	3.16
15/05/2023 01:39	0.3	0.0	19.8	1	0	1015	-3	0.25	0.00	13.3	3.16
15/05/2023 02:39	0.3	0.0	19.8	1	0	1015	-3	0.13	0.09	13.2	3.16
15/05/2023 03:39	0.3	0.0	19.8	1	0	1015	-4	0.13	0.02	12.9	3.17
15/05/2023 04:39	0.3	0.0	19.8	1	0	1016	-3	0.25	0.00	12.8	3.17
15/05/2023 05:39	0.3	0.0	19.8	1	0	1016	-3	0.13	0.00	12.6	3.17
15/05/2023 06:39	0.3	0.0	19.8	1	0	1016	-4	0.13	0.01	12.5	3.17
15/05/2023 07:39	0.3	0.0	19.8	1	0	1016	-4	0.13	0.01	12.4	3.17
15/05/2023 08:39	0.3	0.0	19.8	1	0	1017	-3	0.25	0.00	12.5	3.17
15/05/2023 09:39	0.3	0.0	19.8	1	0	1017	-4	0.25	0.08	12.6	3.17
15/05/2023 10:39	0.3	0.0	19.9	0	0	1017	-4	0.25	0.26	12.8	3.17
15/05/2023 11:39	0.3	0.0	19.9	0	0	1017	-4	0.13	0.09	12.9	3.17
15/05/2023 12:39	0.3	0.0	19.9	1	0	1018	-3	0.25	0.12	13.1	3.17
15/05/2023 13:39	0.3	0.0	19.9	1	0	1017	-4	0.13	0.08	13.3	3.17
15/05/2023 14:39	0.3	0.0	19.9	0	0	1018	-3	0.25	0.07	13.6	3.17
15/05/2023 15:39	0.3	0.0	19.9	0	0	1018	-4	0.13	0.05	13.8	3.17
15/05/2023 16:39	0.3	0.0	19.9	1	0	1018	-4	0.13	0.05	14.0	3.17
15/05/2023 17:39	0.3	0.0	20.0	0	0	1018	-4	0.13	0.02	14.2	3.17
15/05/2023 18:39	0.3	0.0	20.0	0	0	1019	-3	0.25	0.09	14.4	3.17
15/05/2023 19:39	0.3	0.0	19.9	0	0	1019	-3	0.13	0.04	14.4	3.17
15/05/2023 20:39	0.3	0.0	19.9	1	0	1019	-4	0.25	0.06	14.4	3.17
15/05/2023 21:39	0.3	0.0	19.9	1	0	1020	-3	0.25	0.13	14.2	3.17
15/05/2023 22:39	0.3	0.0	19.9	0	0	1019	-4	0.13	0.05	14.0	3.17
15/05/2023 23:39	0.3	0.0	19.9	1	0	1019	-4	0.13	0.05	13.8	3.17
16/05/2023 00:39	0.3	0.0	19.9	0	0	1020	-3	0.25	0.02	13.6	3.16
16/05/2023 01:39	0.3	0.0	19.9	1	0	1020	-2	0.13	0.08	13.5	3.16
16/05/2023 02:39	0.3	0.0	19.9	0	0	1019	-3	0.00	0.02	13.4	3.16
16/05/2023 03:39	0.3	0.0	19.8	1	0	1019	-3	0.00	0.06	13.3	3.16
16/05/2023 04:39	0.3	0.0	19.8	1	0	1018	-4	-0.25	0.05	13.2	3.17
16/05/2023 05:39	0.3	0.0	19.8	1	0	1019	-3	0.00	0.01	13.1	3.17
16/05/2023 06:39	0.3	0.0	19.8	1	0	1019	-4	0.00	0.08	13.0	3.17
16/05/2023 07:39	0.3	0.0	19.8	1	0	1019	-4	-0.13	0.08	12.9	3.17
16/05/2023 08:39	0.3	0.0	19.8	1	0	1020	-3	0.00	0.15	12.9	3.17
16/05/2023 09:39	0.3	0.0	19.8	1	0	1020	-3	0.13	0.13	12.9	3.17
16/05/2023 10:39	0.3	0.0	19.8	1	0	1020	-3	0.13	0.11	13.1	3.17
16/05/2023 11:39	0.3	0.0	19.8	1	0	1020	-3	0.25	0.21	13.1	3.17
16/05/2023 12:39	0.3	0.0	19.9	1	0	1020	-3	0.13	0.17	13.2	3.17
16/05/2023 13:39	0.3	0.0	19.9	1	0	1020	-4	0.13	0.16	13.4	3.17
16/05/2023 14:39	0.3	0.0	19.9	1	0	1020	-4	0.13	0.06	13.6	3.17
16/05/2023 15:39	0.3	0.0	19.9	1	0	1020	-4	0.00	0.08	13.8	3.17
16/05/2023 16:39	0.3	0.0	19.9	1	0	1021	-3	0.13	0.05	13.9	3.17
16/05/2023 17:39	0.3	0.0	19.9	0	0	1021	-4	0.13	0.07	14.1	3.17
16/05/2023 18:39	0.3	0.0	19.9	0	0	1021	-4	0.13	0.08	14.3	3.17
16/05/2023 19:39	0.3	0.0	19.9	0	0	1021	-4	0.13	0.06	14.4	3.17
16/05/2023 20:39	0.3	0.0	19.9	1	0	1021	-4	0.13	0.00	14.3	3.17
16/05/2023 21:39	0.3	0.0	19.9	0	0	1022	-4	0.25	0.01	14.2	3.17
16/05/2023 22:39	0.3	0.0	19.9	0	0	1022	-4	0.25	0.00	14.1	3.17
16/05/2023 23:39	0.3	0.0	19.9	0	0	1023	-3	0.25	0.01	13.9	3.17
17/05/2023 00:39	0.3	0.0	19.9	1	0	1023	-3	0.25	0.00	13.7	3.17
17/05/2023 01:39	0.3	0.0	19.9	0	0	1023	-3	0.25	0.00	13.6	3.16
17/05/2023 02:39	0.3	0.0	19.9	1	0	1023	-3	0.25	0.00	13.5	3.17
17/05/2023 03:39	0.3	0.0	19.9	1	0	1023	-3	0.25	0.00	13.4	3.17
17/05/2023 04:39	0.3	0.0	19.9	1	0	1023	-3	0.13	0.01	13.4	3.17
17/05/2023 05:39	0.3	0.0	19.9	1	0	1023	-3	0.13	0.00	13.3	3.17
17/05/2023 06:39	0.3	0.0	19.9	1	0	1023	-4	0.00	0.00	13.3	3.17
17/05/2023 07:39	0.3	0.0	19.9	1	0	1023	-4	0.00	0.00	13.2	3.17
17/05/2023 08:39	0.3	0.0	19.9	1	0	1024	-3	0.13	0.00	13.2	3.17
17/05/2023 09:39	0.3	0.0	19.9	1	0	1024	-3	0.13	0.05	13.3	3.17
17/05/2023 10:39	0.3	0.0	19.9	1	0	1024	-3	0.13	0.08	13.5	3.17
17/05/2023 11:39	0.3	0.0	19.9	1	0	1024	-3	0.13	0.12	13.9	3.17
17/05/2023 12:39	0.3	0.0	20.0	0	0	1023	-3	0.00	0.07	14.2	3.17
17/05/2023 13:39	0.3	0.0	20.0	0	0	1023	-3	0.00	0.05	14.4	3.17
17/05/2023 14:39	0.3	0.0	20.0	1	0	1023	-3	0.00	0.02	14.6	3.17
17/05/2023 15:39	0.3	0.0	20.0	0	0	1023	-3	-0.13	0.00	14.8	3.17
17/05/2023 16:39	0.3	0.0	20.0	0	0	1023	-3	-0.13	0.00	14.9	3.16
17/05/2023 17:39	0.3	0.0	20.0	0	0	1022	-3	-0.25	0.00	14.9	3.17
17/05/2023 18:39	0.3	0.0	20.0	0	0	1022	-3	-0.25	0.00	14.9	3.17
17/05/2023 19:39	0.3	0.0	20.0	0	0	1022	-3	-0.13	0.00	14.9	3.17
17/05/2023 20:39	0.3	0.0	20.0	1	0	1022	-3	-0.13	0.00	14.9	3.17
17/05/2023 21:39	0.3	0.0	20.0	0	0	1022	-3	-0.13	0.00	14.8	3.17
17/05/2023 22:39	0.3	0.0	20.0	0	0	1022	-3	-0.13	0.00	14.7	3.16
17/05/2023 23:39	0.3	0.0	19.9	1	0	1022	-3	-0.13	0.01	14.5	3.16
18/05/2023 00:39	0.3	0.0	19.9	1	0	1022	-3	0.00	0.00	14.4	3.16
18/05/2023 01:39	0.3	0.0	19.9	1	0	1021	-3	-0.13	0.00	14.3	3.16
18/05/2023 02:39	0.3	0.0	19.9	0	0	1021	-3	-0.13	0.00	14.1	3.16
18/05/2023 03:39	0.3	0.0	19.9	1	0	1021	-3	-0.13	0.00	14.0	3.16
18/05/2023 04:39	0.3	0.0	19.9	1	0	1021	-3	-0.13	0.00	13.9	3.16
18/05/2023 05:39	0.3	0.0	19.9	1	0	1021	-3	-0.13	0.00	13.8	3.17
18/05/2023 06:39	0.3	0.0	19.9	1	0	1021	-3	-0.13	0.00	13.6	3.17
18/05/2023 07:39	0.3	0.0	19.9	1	0	1021	-3	-0.13	0.00	13.6	3.17
18/05/2023 08:39	0.3	0.0	19.9	1	0	1021	-4	0.00	0.00	13.6	3.17
18/05/2023 09:39	0.3	0.0	19.9	1	0	1021	-4	0.00	0.03	13.6	3.17
18/05/2023 10:39	0.3	0.0	19.9	1	0	1021	-4	0.00	0.10	13.7	3.17
18/05/2023 11:39	0.3	0.0	19.9	1	0	1021	-3	0.00	0.11	13.9	3.17
18/05/2023 12:39	0.3	0.0	19.9	0	0	1021	-4	0.00	0.11	14.0	3.17
18/05/2023 13:39	0.3	0.0	19.9	1	0	1021	-3	0.00	0.08	14.2	3.17
18/05/2023 14:39	0.3	0.0	19.9	1	0	1021	-3	0.00	0.04	14.3	3.17
18/05/2023 15:39	0.3	0.0	19.9	1	0	1021	-3	0.00	0.03	14.4	3.17
18/05/2023 16:39	0.3	0.0	19.9	0	0	1021	-3	0.00	0.01	14.4	3.17
18/05/2023 17:39	0.3	0.0	19.9	1	0	1021	-3	0.00	0.01	14.4	3.16
18/05/2023 18:39	0.3	0.0	19.9	0	0	1021	-3	0.00	0.00	14.4	3.17
18/05/2023 19:39	0.3	0.0	19.9	1	0	1021	-3	0.00	0.03	14.4	3.17
18/05/2023 20:39	0.3	0.0	19.9	1	0	1021	-4	0.00	0.00	14.3	3.17
18/05/2023 21:39	0.3	0.0	19.9	1	0	1022	-3	0.13	0.01	14.3	3.17
18/05/2023 22:39	0.3	0.0	19.9	1	0	1022	-3	0.13	0.06	14.1	

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
19/05/2023 09:39	0.3	0.0	19.9	1	0	1024	-3	0.25	0.00	13.5	3.17
19/05/2023 10:39	0.3	0.0	19.9	1	0	1024	-3	0.13	0.00	13.7	3.17
19/05/2023 11:39	0.3	0.0	19.9	1	0	1024	-3	0.13	0.05	13.9	3.17
19/05/2023 12:39	0.3	0.0	20.0	1	0	1024	-3	0.13	0.06	14.2	3.17
19/05/2023 13:39	0.3	0.0	20.0	1	0	1024	-4	0.13	0.02	14.5	3.17
19/05/2023 14:39	0.3	0.0	20.0	0	0	1024	-4	0.13	0.06	14.9	3.17
19/05/2023 15:39	0.3	0.0	20.1	0	0	1024	-4	0.00	0.05	15.4	3.17
19/05/2023 16:39	0.3	0.0	20.1	0	0	1024	-4	0.00	0.00	15.8	3.17
19/05/2023 17:39	0.3	0.0	20.1	0	0	1024	-4	0.00	0.01	16.0	3.17
19/05/2023 18:39	0.3	0.0	20.1	0	0	1024	-4	0.00	0.00	16.2	3.17
19/05/2023 19:39	0.3	0.0	20.1	0	0	1024	-4	0.00	0.00	16.3	3.17
19/05/2023 20:39	0.3	0.0	20.1	0	0	1025	-3	0.13	0.02	16.1	3.17
19/05/2023 21:39	0.3	0.0	20.0	0	0	1025	-3	0.13	0.05	15.9	3.17
19/05/2023 22:39	0.3	0.0	20.0	0	0	1025	-3	0.13	0.00	15.7	3.17
19/05/2023 23:39	0.3	0.0	20.0	0	0	1025	-3	0.13	0.02	15.5	3.17
20/05/2023 00:39	0.3	0.0	20.0	1	0	1025	-3	0.13	0.05	15.3	3.17
20/05/2023 01:39	0.3	0.0	20.0	1	0	1025	-3	0.13	0.01	15.1	3.16
20/05/2023 02:39	0.3	0.0	20.0	1	0	1025	-3	0.13	0.00	15.0	3.17
20/05/2023 03:39	0.3	0.0	20.0	1	0	1024	-3	-0.13	0.00	14.8	3.17
20/05/2023 04:39	0.3	0.0	20.0	1	0	1024	-3	-0.13	0.00	14.7	3.16
20/05/2023 05:39	0.3	0.0	19.9	1	0	1024	-3	-0.13	0.00	14.6	3.17
20/05/2023 06:39	0.3	0.0	20.0	0	0	1024	-3	-0.13	0.00	14.5	3.17
20/05/2023 07:39	0.3	0.0	20.0	1	0	1024	-3	-0.13	0.00	14.4	3.17
20/05/2023 08:39	0.3	0.0	20.0	1	0	1024	-3	-0.13	0.00	14.4	3.17
20/05/2023 09:39	0.3	0.0	20.0	1	0	1024	-3	-0.13	0.00	14.4	3.16
20/05/2023 10:39	0.3	0.0	20.0	1	0	1024	-3	0.00	0.00	14.4	3.17
20/05/2023 11:39	0.3	0.0	20.0	1	0	1024	-3	0.00	0.02	14.5	3.17
20/05/2023 12:39	0.3	0.0	20.0	1	0	1024	-2	0.00	0.11	14.6	3.16
20/05/2023 13:39	0.3	0.0	20.0	1	0	1023	-3	-0.13	0.10	14.6	3.16
20/05/2023 14:39	0.3	0.0	20.0	1	0	1023	-3	-0.13	0.04	14.7	3.16
20/05/2023 15:39	0.3	0.0	20.0	1	0	1022	-3	-0.25	0.00	14.8	3.16
20/05/2023 16:39	0.3	0.0	20.0	0	0	1021	-4	-0.38	0.00	14.9	3.17
20/05/2023 17:39	0.3	0.0	20.0	1	0	1021	-3	-0.38	0.00	15.0	3.16
20/05/2023 18:39	0.3	0.0	20.0	0	0	1021	-3	-0.38	0.00	15.0	3.17
20/05/2023 19:39	0.3	0.0	20.0	0	0	1021	-3	-0.38	0.00	15.0	3.17
20/05/2023 20:39	0.3	0.0	20.0	1	0	1021	-3	-0.25	0.00	15.0	3.16
20/05/2023 21:39	0.3	0.0	20.0	1	0	1020	-4	-0.38	0.00	14.9	3.17
20/05/2023 22:39	0.3	0.0	20.0	1	0	1020	-3	-0.25	0.00	14.9	3.16
20/05/2023 23:39	0.3	0.0	20.0	1	0	1020	-3	-0.13	0.00	14.8	3.17
21/05/2023 00:39	0.3	0.0	19.9	0	0	1020	-3	-0.13	0.02	14.6	3.16
21/05/2023 01:39	0.3	0.0	19.9	1	0	1020	-3	-0.13	0.01	14.6	3.16
21/05/2023 02:39	0.3	0.0	19.9	1	0	1020	-2	-0.13	0.00	14.5	3.16
21/05/2023 03:39	0.3	0.0	19.9	1	0	1020	-3	-0.13	0.00	14.4	3.17
21/05/2023 04:39	0.3	0.0	19.9	1	0	1019	-3	-0.13	0.00	14.3	3.16
21/05/2023 05:39	0.3	0.0	19.9	1	0	1019	-3	-0.13	0.00	14.3	3.17
21/05/2023 06:39	0.3	0.0	19.9	1	0	1019	-3	-0.13	0.00	14.2	3.17
21/05/2023 07:39	0.3	0.0	19.9	1	0	1020	-3	0.00	0.00	14.1	3.17
21/05/2023 08:39	0.3	0.0	19.9	1	0	1020	-3	0.00	0.00	14.1	3.17
21/05/2023 09:39	0.3	0.0	19.9	1	0	1020	-3	0.00	0.00	14.1	3.17
21/05/2023 10:39	0.3	0.0	19.9	1	0	1020	-3	0.00	0.00	14.2	3.17
21/05/2023 11:39	0.3	0.0	19.9	1	0	1020	-3	0.13	0.00	14.3	3.17
21/05/2023 12:39	0.3	0.0	19.9	1	0	1020	-3	0.13	0.03	14.4	3.17
21/05/2023 13:39	0.3	0.0	19.9	1	0	1020	-3	0.13	0.08	14.4	3.17
21/05/2023 14:39	0.3	0.0	20.0	1	0	1020	-3	0.00	0.06	14.6	3.17
21/05/2023 15:39	0.3	0.0	20.0	1	0	1020	-3	0.00	0.00	14.7	3.17
21/05/2023 16:39	0.3	0.0	20.0	0	0	1020	-3	0.00	0.00	14.9	3.17
21/05/2023 17:39	0.3	0.0	20.0	0	0	1020	-3	0.00	0.00	15.3	3.17
21/05/2023 18:39	0.3	0.0	20.0	0	0	1019	-3	-0.13	0.00	15.6	3.17
21/05/2023 19:39	0.3	0.0	20.0	1	0	1019	-4	-0.13	0.01	15.8	3.17
21/05/2023 20:39	0.3	0.0	20.0	0	0	1020	-3	0.00	0.01	15.8	3.17
21/05/2023 21:39	0.3	0.0	20.0	0	0	1020	-3	0.00	0.03	15.8	3.17
21/05/2023 22:39	0.3	0.0	20.0	0	0	1020	-3	0.00	0.02	15.6	3.17
21/05/2023 23:39	0.3	0.0	20.0	0	0	1020	-3	0.00	0.06	15.4	3.17
22/05/2023 00:39	0.3	0.0	19.9	1	0	1020	-3	0.00	0.11	15.3	3.16
22/05/2023 01:39	0.3	0.0	19.9	1	0	1020	-3	0.13	0.11	15.1	3.17
22/05/2023 02:39	0.3	0.0	19.9	1	0	1020	-3	0.13	0.10	14.9	3.17
22/05/2023 03:39	0.3	0.0	19.9	1	0	1020	-3	0.00	0.08	14.8	3.17
22/05/2023 04:39	0.3	0.0	19.9	1	0	1020	-3	0.00	0.05	14.6	3.17
22/05/2023 05:39	0.3	0.0	19.9	1	0	1020	-3	0.00	0.06	14.4	3.17
22/05/2023 06:39	0.3	0.0	19.9	1	0	1020	-3	0.00	0.00	14.3	3.17
22/05/2023 07:39	0.3	0.0	19.9	1	0	1020	-4	0.00	0.03	14.2	3.17
22/05/2023 08:39	0.3	0.0	19.9	1	0	1020	-4	0.00	0.02	14.1	3.17
22/05/2023 09:39	0.3	0.0	19.9	1	0	1021	-3	0.13	0.04	14.1	3.17
22/05/2023 10:39	0.3	0.0	19.9	1	0	1021	-3	0.13	0.10	14.2	3.17
22/05/2023 11:39	0.3	0.0	19.9	1	0	1021	-3	0.13	0.05	14.3	3.17
22/05/2023 12:39	0.3	0.0	19.9	1	0	1020	-4	0.00	0.18	14.5	3.17
22/05/2023 13:39	0.3	0.0	19.9	1	0	1021	-4	0.13	0.17	14.8	3.17
22/05/2023 14:39	0.3	0.0	20.0	1	0	1021	-4	0.13	0.17	14.9	3.17
22/05/2023 15:39	0.3	0.0	20.0	1	0	1021	-4	0.13	0.13	15.1	3.17
22/05/2023 16:39	0.3	0.0	20.0	1	0	1022	-3	0.13	0.05	15.3	3.17
22/05/2023 17:39	0.3	0.0	20.0	1	0	1022	-3	0.13	0.04	15.4	3.17
22/05/2023 18:39	0.3	0.0	20.0	1	0	1022	-3	0.13	0.04	15.4	3.17
22/05/2023 19:39	0.3	0.0	20.0	1	0	1022	-4	0.25	0.02	15.4	3.17
22/05/2023 20:39	0.3	0.0	20.0	1	0	1023	-3	0.25	-0.01	15.4	3.17
22/05/2023 21:39	0.3	0.0	19.9	0	0	1023	-4	0.25	0.01	15.3	3.17
22/05/2023 22:39	0.3	0.0	19.9	1	0	1024	-2	0.38	0.03	15.1	3.16
22/05/2023 23:39	0.3	0.0	19.9	1	0	1023	-3	0.13	0.03	14.9	3.16
23/05/2023 00:39	0.3	0.0	19.9	1	0	1023	-3	0.13	0.01	14.7	3.17
23/05/2023 01:39	0.3	0.0	19.9	1	0	1023	-3	0.13	0.06	14.6	3.17
23/05/2023 02:39	0.3	0.0	19.9	1	0	1023	-3	0.13	0.06	14.4	3.17
23/05/2023 03:39	0.3	0.0	19.9	1	0	1023	-3	0.00	0.02	14.3	3.16
23/05/2023 04:39	0.3	0.0	19.9	1	0	1023	-3	0.00	0.00	14.2	3.17
23/05/2023 05:39	0.3	0.0	19.9	1	0	1023	-3	-0.13	0.00	14.1	3.17
23/05/2023 06:39	0.3	0.0	19.8	1	0	1023	-4	0.00	0.01	13.9	3.17
23/05/2023 07:39	0.3	0.0	19.9	1	0	1023	-4	0.00	0.00	13.9	3.17
23/05/2023 08:39	0.3	0.0	19.9	1	0	1023	-4	0.00	0.01	13.9	3.17
23/05/2023 09:39	0.3	0.0	19.9	1	0	1024	-3	0.13	0.00	13.9	3.17
23/05/2023 10:39	0.3	0.0	19.9	1	0	1023	-4	0.00	0.00	13.9	3.17
23/05/2023 11:39	0.3	0.0	19.9	1	0	1023	-3	0.00	0.03	14.1	3.17
23/05/2023 12:39	0.3	0.0	19.9	1	0	1023	-3	0.00	0.09	14.3	3.17
23/05/2023 13:39	0.3	0.0	19.9	1	0	1022	-4	-0.13	0.07	14.4	3.17
23/05/2023 14:39	0.3	0.0	19.9	1	0	1023	-3	0.00	0.07	14.6	3.17
23/05/2023 15:39	0.3	0.0	19.9	1	0	1023	-3	0.00	0.13	14.7	3.16
23/05/2023 16:39	0.3	0.0	19.9	1	0	1022	-3	-0.25	0.09	14.7	3.16
23/05/2023 17:39	0.3	0.0	19.9	1	0	1022	-3	-0.13	0.06	14.8	3.17
23/05/2023 18:39	0.3	0.0	19.9	1	0	1022	-3	-0.13	0.11	14.8	3.17
23/05/2023 19:39	0.3	0.0	19.9	0	0	1022	-3	-0.13	0.02	14.7	3.17
23/05/2023 20:39	0.3	0.0	19.9	1	0	1022	-3	0.00	0.04		

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
24/05/2023 07:39	0.3	0.0	19.8	1	0	1022	-3	0.13	0.01	13.6	3.17
24/05/2023 08:39	0.3	0.0	19.8	0	0	1022	-4	0.13	0.00	13.6	3.17
24/05/2023 09:39	0.3	0.0	19.8	1	0	1023	-3	0.25	0.00	13.6	3.17
24/05/2023 10:39	0.3	0.0	19.8	1	0	1023	-3	0.38	0.03	13.7	3.17
24/05/2023 11:39	0.3	0.0	19.9	1	0	1023	-3	0.25	0.04	13.8	3.17
24/05/2023 12:39	0.3	0.0	19.9	1	0	1023	-4	0.25	0.04	13.9	3.17
24/05/2023 13:39	0.3	0.0	19.9	1	0	1023	-3	0.25	0.04	14.1	3.17
24/05/2023 14:39	0.3	0.0	19.9	1	0	1023	-4	0.13	0.10	14.3	3.17
24/05/2023 15:39	0.3	0.0	19.9	1	0	1023	-4	0.13	0.08	14.5	3.17
24/05/2023 16:39	0.3	0.0	19.9	1	0	1023	-4	0.00	0.06	14.6	3.17
24/05/2023 17:39	0.3	0.0	19.9	1	0	1024	-3	0.13	0.10	14.8	3.17
24/05/2023 18:39	0.3	0.0	19.9	1	0	1024	-3	0.13	0.07	15.0	3.17
24/05/2023 19:39	0.3	0.0	19.9	0	0	1024	-3	0.13	0.13	15.1	3.17
24/05/2023 20:39	0.3	0.0	19.9	1	0	1024	-3	0.13	0.01	15.2	3.17
24/05/2023 21:39	0.3	0.0	19.9	1	0	1024	-4	0.13	0.02	15.1	3.17
24/05/2023 22:39	0.3	0.0	19.9	1	0	1024	-3	0.13	0.02	14.9	3.16
24/05/2023 23:39	0.3	0.0	19.9	1	0	1024	-4	0.13	0.02	14.7	3.17
25/05/2023 00:39	0.3	0.0	19.9	1	0	1024	-4	0.00	0.00	14.5	3.17
25/05/2023 01:39	0.3	0.0	19.9	1	0	1025	-3	0.13	0.00	14.3	3.17
25/05/2023 02:39	0.3	0.0	19.9	1	0	1025	-3	0.13	0.00	14.1	3.16
25/05/2023 03:39	0.3	0.0	19.8	1	0	1025	-3	0.13	0.00	13.9	3.17
25/05/2023 04:39	0.3	0.0	19.8	1	0	1025	-4	0.13	0.00	13.8	3.17
25/05/2023 05:39	0.3	0.0	19.8	1	0	1026	-3	0.25	0.00	13.6	3.17
25/05/2023 06:39	0.3	0.0	19.8	2	0	1026	-4	0.25	0.00	13.4	3.17
25/05/2023 07:39	0.3	0.0	19.8	1	0	1027	-3	0.38	0.00	13.3	3.17
25/05/2023 08:39	0.3	0.0	19.9	1	0	1027	-3	0.25	0.07	13.4	3.17
25/05/2023 09:39	0.3	0.0	19.9	1	0	1027	-3	0.25	0.05	13.6	3.17
25/05/2023 10:39	0.3	0.0	19.9	1	0	1027	-3	0.25	0.00	13.8	3.17
25/05/2023 11:39	0.3	0.0	19.9	1	0	1027	-3	0.25	0.06	14.1	3.17
25/05/2023 12:39	0.3	0.0	19.9	1	0	1027	-3	0.13	0.09	14.4	3.17
25/05/2023 13:39	0.3	0.0	20.0	1	0	1027	-3	0.13	0.06	14.7	3.17
25/05/2023 14:39	0.3	0.0	20.0	1	0	1027	-3	0.00	0.05	15.1	3.17
25/05/2023 15:39	0.3	0.0	20.0	1	0	1027	-3	0.00	0.06	15.4	3.17
25/05/2023 16:39	0.3	0.0	20.0	0	0	1027	-3	0.00	0.10	15.7	3.17
25/05/2023 17:39	0.3	0.0	20.0	0	0	1027	-3	0.00	0.04	15.9	3.17
25/05/2023 18:39	0.3	0.0	20.0	0	0	1027	-3	0.00	0.03	16.1	3.17
25/05/2023 19:39	0.3	0.0	20.0	0	0	1027	-3	0.00	0.00	16.2	3.17
25/05/2023 20:39	0.3	0.0	20.0	0	0	1027	-4	0.00	0.13	16.2	3.17
25/05/2023 21:39	0.3	0.0	20.0	0	0	1027	-4	0.00	0.04	16.0	3.16
25/05/2023 22:39	0.3	0.0	20.0	0	0	1027	-3	0.00	0.12	15.8	3.17
25/05/2023 23:39	0.3	0.0	20.0	1	0	1027	-4	0.00	0.01	15.5	3.17
26/05/2023 00:39	0.3	0.0	19.9	1	0	1027	-4	0.00	0.03	15.3	3.17
26/05/2023 01:39	0.3	0.0	19.9	1	0	1027	-3	0.00	0.01	15.1	3.16
26/05/2023 02:39	0.3	0.0	19.9	1	0	1027	-4	0.00	0.00	14.9	3.17
26/05/2023 03:39	0.3	0.0	19.9	1	0	1027	-4	0.00	0.01	14.7	3.16
26/05/2023 04:39	0.3	0.0	19.9	1	0	1027	-4	0.00	0.00	14.5	3.16
26/05/2023 05:39	0.3	0.0	19.9	1	0	1027	-4	0.00	0.00	14.3	3.17
26/05/2023 06:39	0.3	0.0	19.9	1	0	1028	-4	0.13	0.00	14.1	3.17
26/05/2023 07:39	0.3	0.0	19.9	1	0	1028	-4	0.13	0.00	14.1	3.17
26/05/2023 08:39	0.3	0.0	19.9	1	0	1028	-4	0.13	0.00	14.1	3.17
26/05/2023 09:39	0.3	0.0	19.9	1	0	1029	-3	0.25	0.01	14.3	3.17
26/05/2023 10:39	0.3	0.0	20.0	1	0	1029	-3	0.25	0.00	14.5	3.16
26/05/2023 11:39	0.3	0.0	20.0	1	0	1029	-3	0.25	0.00	14.8	3.17
26/05/2023 12:39	0.3	0.0	20.0	1	0	1028	-4	0.13	0.00	15.1	3.17
26/05/2023 13:39	0.3	0.0	20.0	1	0	1028	-3	0.00	0.01	15.4	3.17
26/05/2023 14:39	0.3	0.0	20.1	1	0	1028	-3	0.00	0.01	15.8	3.17
26/05/2023 15:39	0.3	0.0	20.1	1	0	1028	-3	0.00	0.03	16.3	3.17
26/05/2023 16:39	0.3	0.0	20.1	1	0	1027	-3	-0.25	0.08	16.6	3.17
26/05/2023 17:39	0.3	0.0	20.1	1	0	1027	-3	-0.25	0.09	16.9	3.17
26/05/2023 18:39	0.3	0.0	20.1	0	0	1026	-3	-0.38	0.03	17.2	3.17
26/05/2023 19:39	0.3	0.0	20.1	0	0	1026	-4	-0.25	0.03	17.3	3.17
26/05/2023 20:39	0.3	0.0	20.1	0	0	1026	-3	-0.25	0.00	17.2	3.17
26/05/2023 21:39	0.3	0.0	20.1	1	0	1026	-3	-0.25	0.01	16.9	3.17
26/05/2023 22:39	0.3	0.0	20.1	0	0	1026	-3	-0.25	0.00	16.6	3.17
26/05/2023 23:39	0.3	0.0	20.0	1	0	1028	-3	-0.13	0.00	16.3	3.16
27/05/2023 00:39	0.3	0.0	20.0	1	0	1025	-3	-0.25	0.00	16.1	3.16
27/05/2023 01:39	0.3	0.0	20.0	1	0	1025	-3	-0.13	0.00	15.8	3.16
27/05/2023 02:39	0.3	0.0	20.0	1	0	1025	-2	-0.13	0.00	15.6	3.16
27/05/2023 03:39	0.3	0.0	19.9	1	0	1024	-3	-0.25	0.00	15.3	3.16
27/05/2023 04:39	0.3	0.0	19.9	1	0	1023	-3	-0.38	0.00	14.9	3.16
27/05/2023 05:39	0.3	0.0	19.9	1	0	1023	-3	-0.38	0.01	14.6	3.17
27/05/2023 06:39	0.3	0.0	19.9	1	0	1023	-3	-0.38	0.06	14.3	3.16
27/05/2023 07:39	0.3	0.0	19.9	1	0	1022	-3	-0.38	0.05	14.3	3.16
27/05/2023 08:39	0.3	0.0	19.9	1	0	1022	-3	-0.38	0.07	14.3	3.17
27/05/2023 09:39	0.3	0.0	19.9	1	0	1022	-3	-0.38	0.01	14.4	3.17
27/05/2023 10:39	0.3	0.0	19.9	1	0	1021	-4	-0.38	0.10	14.5	3.17
27/05/2023 11:39	0.3	0.0	19.9	1	0	1021	-3	-0.25	0.03	14.7	3.16
27/05/2023 12:39	0.3	0.0	20.0	1	0	1020	-4	-0.38	0.01	14.9	3.17
27/05/2023 13:39	0.3	0.0	20.0	1	0	1020	-4	-0.38	0.00	15.2	3.17
27/05/2023 14:39	0.3	0.0	20.0	1	0	1020	-3	-0.25	0.01	15.5	3.16
27/05/2023 15:39	0.3	0.0	20.0	1	0	1020	-3	-0.25	0.04	15.7	3.16
27/05/2023 16:39	0.3	0.0	20.0	1	0	1020	-4	-0.25	0.02	15.9	3.17
27/05/2023 17:39	0.3	0.0	20.0	0	0	1020	-4	-0.13	0.09	16.0	3.17
27/05/2023 18:39	0.3	0.0	20.0	0	0	1020	-4	-0.13	0.04	16.1	3.17
27/05/2023 19:39	0.3	0.0	20.0	0	0	1020	-4	0.00	0.06	16.2	3.17
27/05/2023 20:39	0.3	0.0	20.0	0	0	1021	-3	0.13	0.03	16.1	3.17
27/05/2023 21:39	0.3	0.0	20.0	1	0	1021	-3	0.13	0.01	15.9	3.17
27/05/2023 22:39	0.3	0.0	20.0	1	0	1021	-4	0.13	0.00	15.8	3.17
27/05/2023 23:39	0.3	0.0	20.0	1	0	1022	-3	0.25	0.00	15.5	3.17
28/05/2023 00:39	0.3	0.0	19.9	1	0	1022	-3	0.25	0.00	15.3	3.16
28/05/2023 01:39	0.3	0.0	19.9	1	0	1021	-4	0.13	0.00	15.1	3.17
28/05/2023 02:39	0.3	0.0	19.9	1	0	1021	-4	0.13	0.00	14.8	3.17
28/05/2023 03:39	0.3	0.0	19.9	1	0	1022	-3	0.13	0.00	14.6	3.17
28/05/2023 04:39	0.3	0.0	19.9	1	0	1022	-3	0.13	0.00	14.3	3.17
28/05/2023 05:39	0.3	0.0	19.9	1	0	1023	-3	0.25	0.00	14.1	3.17
28/05/2023 06:39	0.3	0.0	19.9	1	0	1023	-3	0.13	0.00	13.9	3.17
28/05/2023 07:39	0.3	0.0	19.9	1	0	1023	-3	0.13	0.00	13.8	3.17
28/05/2023 08:39	0.3	0.0	19.9	1	0	1023	-4	0.25	0.04	13.9	3.17
28/05/2023 09:39	0.3	0.0	19.9	1	0	1024	-3	0.38	0.05	14.1	3.17
28/05/2023 10:39	0.3	0.0	19.9	1	0	1024	-3	0.25	0.06	14.4	3.16
28/05/2023 11:39	0.3	0.0	20.0	1	0	1023	-4	0.13	0.04	14.6	3.17
28/05/2023 12:39	0.3	0.0	20.0	1	0	1024	-3	0.13	0.00	14.9	3.17
28/05/2023 13:39	0.3	0.0	20.0	1	0	1024	-3	0.13	0.02	15.2	3.17
28/05/2023 14:39	0.3	0.0	20.0	1	0	1023	-4	0.00	0.02	15.5	3.17
28/05/2023 15:39	0.3	0.0	20.0	1	0	1023	-4	0.00	0.03	15.8	3.17
28/05/2023 16:39	0.3	0.0	20.1	1	0	1023	-3	-0.13	0.02	16.1	3.17
28/05/2023 17:39	0.3	0.0	20.1	0	0	1023	-3	-0.13	0.01	16.3	3.17
28/05/2023 18:39	0.3	0.0	20.0	1	0	1023	-4	0.00	0.01		

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
29/05/2023 05:39	0.3	0.0	19.9	1	0	1026	-3	0.25	0.00	13.8	3.17
29/05/2023 06:39	0.3	0.0	19.9	1	0	1026	-3	0.25	0.00	13.6	3.17
29/05/2023 07:39	0.3	0.0	19.9	1	0	1026	-4	0.25	0.00	13.5	3.17
29/05/2023 08:39	0.3	0.0	19.9	1	0	1026	-4	0.13	0.01	13.6	3.17
29/05/2023 09:39	0.3	0.0	19.9	1	0	1027	-3	0.25	0.01	13.9	3.17
29/05/2023 10:39	0.3	0.0	20.0	1	0	1027	-3	0.25	0.00	14.3	3.17
29/05/2023 11:39	0.3	0.0	20.0	1	0	1027	-3	0.25	0.02	14.7	3.17
29/05/2023 12:39	0.3	0.0	20.1	1	0	1026	-4	0.00	0.01	15.1	3.17
29/05/2023 13:39	0.3	0.0	20.1	1	0	1026	-3	0.00	0.02	15.6	3.17
29/05/2023 14:39	0.3	0.0	20.1	1	0	1026	-3	0.00	0.01	16.0	3.17
29/05/2023 15:39	0.3	0.0	20.1	1	0	1026	-4	0.00	0.01	16.4	3.17
29/05/2023 16:39	0.3	0.0	20.1	1	0	1026	-3	-0.13	0.00	16.7	3.17
29/05/2023 17:39	0.3	0.0	20.2	0	0	1026	-3	-0.13	0.00	16.9	3.17
29/05/2023 18:39	0.3	0.0	20.2	0	0	1026	-4	-0.13	0.00	17.1	3.17
29/05/2023 19:39	0.3	0.0	20.2	0	0	1026	-4	0.00	0.00	17.3	3.17
29/05/2023 20:39	0.3	0.0	20.1	0	0	1026	-4	0.00	0.00	17.3	3.17
29/05/2023 21:39	0.3	0.0	20.1	1	0	1027	-3	0.13	0.00	17.1	3.17
29/05/2023 22:39	0.3	0.0	20.1	1	0	1027	-3	0.13	0.01	16.8	3.17
29/05/2023 23:39	0.3	0.0	20.1	1	0	1027	-3	0.13	0.01	16.4	3.17
30/05/2023 00:39	0.3	0.0	20.1	1	0	1027	-3	0.13	-0.02	16.1	3.17
30/05/2023 01:39	0.3	0.0	20.0	1	0	1027	-3	0.13	0.00	15.8	3.17
30/05/2023 02:39	0.3	0.0	20.0	1	0	1027	-3	0.13	0.01	15.6	3.17
30/05/2023 03:39	0.3	0.0	20.0	1	0	1027	-4	0.13	0.00	15.4	3.17
30/05/2023 04:39	0.3	0.0	20.0	1	0	1028	-3	0.13	0.00	15.1	3.17
30/05/2023 05:39	0.3	0.0	20.0	1	0	1028	-3	0.13	0.01	14.9	3.17
30/05/2023 06:39	0.3	0.0	20.0	1	0	1028	-3	0.13	0.00	14.8	3.17
30/05/2023 07:39	0.3	0.0	20.0	1	0	1028	-4	0.13	0.03	14.8	3.17
30/05/2023 08:39	0.3	0.0	20.0	1	0	1028	-4	0.13	0.04	14.8	3.17
30/05/2023 09:39	0.3	0.0	20.0	1	0	1028	-4	0.13	0.01	14.9	3.17
30/05/2023 10:39	0.3	0.0	20.1	1	0	1028	-3	0.13	0.01	15.3	3.16
30/05/2023 11:39	0.3	0.0	20.1	1	0	1028	-3	0.00	0.00	15.6	3.17
30/05/2023 12:39	0.3	0.0	20.1	1	0	1028	-3	0.00	0.02	15.9	3.17
30/05/2023 13:39	0.3	0.0	20.1	1	0	1028	-3	0.00	0.02	16.4	3.17
30/05/2023 14:39	0.3	0.0	20.2	0	0	1027	-4	-0.13	0.03	16.8	3.17
30/05/2023 15:39	0.3	0.0	20.2	1	0	1027	-4	-0.13	0.01	17.3	3.17
30/05/2023 16:39	0.3	0.0	20.2	0	0	1027	-3	-0.13	0.00	17.6	3.17
30/05/2023 17:39	0.3	0.0	20.2	0	0	1027	-3	-0.13	0.02	17.9	3.17
30/05/2023 18:39	0.3	0.0	20.2	0	0	1027	-3	-0.13	0.00	18.1	3.17
30/05/2023 19:39	0.3	0.0	20.2	1	0	1026	-3	-0.25	0.03	18.3	3.17
30/05/2023 20:39	0.3	0.0	20.2	0	0	1026	-3	-0.25	0.01	18.3	3.17
30/05/2023 21:39	0.3	0.0	20.2	0	0	1026	-3	-0.13	0.00	18.1	3.17
30/05/2023 22:39	0.3	0.0	20.2	1	0	1026	-3	-0.13	0.03	17.8	3.17
30/05/2023 23:39	0.3	0.0	20.1	0	0	1026	-4	-0.13	0.09	17.4	3.17
31/05/2023 00:39	0.3	0.0	20.1	0	0	1027	-2	0.00	0.03	17.1	3.17
31/05/2023 01:39	0.3	0.0	20.1	1	0	1027	-3	0.00	0.01	16.8	3.17
31/05/2023 02:39	0.3	0.0	20.1	1	0	1027	-3	0.13	0.00	16.5	3.17
31/05/2023 03:39	0.3	0.0	20.1	1	0	1027	-3	0.13	-0.02	16.3	3.17
31/05/2023 04:39	0.3	0.0	20.1	1	0	1027	-3	0.13	-0.02	16.0	3.17
31/05/2023 05:39	0.3	0.0	20.1	1	0	1027	-3	0.13	-0.01	15.8	3.17
31/05/2023 06:39	0.3	0.0	20.1	1	0	1027	-3	0.13	0.02	15.6	3.17
31/05/2023 07:39	0.3	0.0	20.1	1	0	1027	-3	0.00	0.01	15.5	3.16
31/05/2023 08:39	0.3	0.0	20.1	1	0	1027	-3	0.00	0.06	15.4	3.17



Experts in Continuous Monitoring

Time Series Data

Project Ref:	GG3244
Project Name:	Ardrossan Academy, Ardrossan
Borehole ref:	EC-BH16
Instrument Name and ID:	GC47/06/18, FD0006
Start Date:	04/05/2023 16:08
End Date:	31/05/2023 10:07
Days of monitoring:	27
Monitoring Frequency (mins):	60
Total samples taken:	643



Summary Table

	CH ₄	CO ₂	O ₂	CO	H ₂ S	Borehole Pressure	Atmospheric Pressure	Differential Pressure	Average 8-hour atmospheric pressure change	Flow	Temperature	Water Level
Minimum	0.2	0.0	19.8	0	0	1006	1005	-2	-0.50	0.0	12.9	3.10
Maximum	0.3	0.0	20.8	2	0	1033	1032	0	0.75	0.1	20.7	3.27
Range	0.1	0.0	1.0	2	0	27	27	N/A	1.25	0.1	7.8	0.17

Date and Time	CH ₄	CO ₂	O ₂	CO	H ₂ S	Borehole Pressure	Atmospheric Pressure	Differential Pressure	Average 8-hour atmospheric pressure change	Flow	Temperature	Water Level
	% v/v	% v/v	% v/v	ppm/v	ppm/v	mbar	mbar	mbar	mbar	Ltr/hr	°C	mbgl
04/05/2023 16:08	0.2	0.0	20.8	0	0	1015	1014	-1	N/A	0.0	20.7	3.25
04/05/2023 17:07	0.2	0.0	20.2	0	0	1014	1013	-1	N/A	0.0	18.2	3.17
04/05/2023 18:07	0.2	0.0	20.1	0	0	1013	1013	0	N/A	0.0	16.9	3.17
04/05/2023 19:07	0.2	0.0	20.1	0	0	1013	1012	-1	N/A	0.0	16.3	3.18
04/05/2023 20:07	0.2	0.0	20.1	0	0	1013	1012	-1	N/A	0.0	15.8	3.18
04/05/2023 21:07	0.2	0.0	20.0	0	0	1013	1012	-1	N/A	0.0	15.3	3.18
04/05/2023 22:07	0.2	0.0	20.0	0	0	1012	1011	-1	N/A	0.0	14.9	3.18
04/05/2023 23:07	0.2	0.0	19.9	0	0	1012	1011	-1	N/A	0.1	14.4	3.19
05/05/2023 00:07	0.2	0.0	19.9	0	0	1011	1010	-1	-0.50	0.0	14.1	3.18
05/05/2023 01:07	0.2	0.0	19.9	0	0	1011	1010	-1	-0.38	0.0	13.8	3.16
05/05/2023 02:07	0.2	0.0	19.9	0	0	1009	1009	0	-0.38	0.1	13.5	3.16
05/05/2023 03:07	0.2	0.0	19.9	0	0	1009	1008	-1	-0.50	0.0	13.4	3.16
05/05/2023 04:07	0.2	0.0	19.8	0	0	1008	1008	0	-0.50	0.0	13.2	3.16
05/05/2023 05:07	0.2	0.0	19.8	0	0	1008	1007	-1	-0.50	0.0	13.1	3.16
05/05/2023 06:07	0.2	0.0	19.8	0	0	1008	1007	-1	-0.50	0.0	13.0	3.17
05/05/2023 07:07	0.2	0.0	19.8	0	0	1008	1007	-1	-0.38	0.0	12.9	3.17
05/05/2023 08:07	0.2	0.0	19.8	0	0	1008	1007	-1	-0.38	0.0	12.9	3.17
05/05/2023 09:07	0.2	0.0	19.8	0	0	1008	1007	-1	-0.25	0.0	12.9	3.18
05/05/2023 10:07	0.2	0.0	19.8	0	0	1008	1007	-1	-0.13	0.0	13.0	3.18
05/05/2023 11:07	0.2	0.0	19.8	0	0	1008	1007	-1	-0.13	0.0	13.1	3.18
05/05/2023 12:07	0.2	0.0	19.9	0	0	1008	1007	-1	0.00	0.0	13.4	3.17
05/05/2023 13:07	0.2	0.0	19.9	0	0	1008	1007	-1	0.00	0.0	13.7	3.17
05/05/2023 14:07	0.2	0.0	19.9	0	0	1008	1008	0	0.13	0.0	14.1	3.16
05/05/2023 15:07	0.2	0.0	20.0	0	0	1008	1008	0	0.13	0.0	14.7	3.16
05/05/2023 16:07	0.2	0.0	20.0	0	0	1008	1008	0	0.13	0.0	15.2	3.16
05/05/2023 17:07	0.2	0.0	20.0	0	0	1008	1008	0	0.13	0.0	15.6	3.16
05/05/2023 18:07	0.2	0.0	20.0	0	0	1009	1008	-1	0.13	0.0	15.9	3.17
05/05/2023 19:07	0.2	0.0	20.0	0	0	1009	1008	-1	0.13	0.0	16.1	3.17
05/05/2023 20:07	0.2	0.0	20.1	0	0	1009	1009	0	0.25	0.0	16.2	3.18
05/05/2023 21:07	0.2	0.0	20.1	0	0	1010	1009	-1	0.13	0.0	16.1	3.18
05/05/2023 22:07	0.2	0.0	20.1	0	0	1010	1009	-1	0.13	0.0	15.9	3.18
05/05/2023 23:07	0.2	0.0	20.0	0	0	1010	1009	-1	0.13	0.0	15.6	3.18
06/05/2023 00:07	0.2	0.0	20.0	0	0	1010	1009	-1	0.13	0.0	15.4	3.17
06/05/2023 01:07	0.2	0.0	20.0	0	0	1010	1009	-1	0.13	0.0	15.1	3.17
06/05/2023 02:07	0.2	0.0	20.0	0	0	1010	1009	-1	0.13	0.0	14.9	3.16
06/05/2023 03:07	0.2	0.0	19.9	0	0	1010	1009	-1	0.00	0.0	14.7	3.16
06/05/2023 04:07	0.2	0.0	19.9	0	0	1010	1009	-1	0.00	0.0	14.5	3.15
06/05/2023 05:07	0.2	0.0	19.9	0	0	1010	1009	-1	0.00	0.0	14.3	3.16
06/05/2023 06:07	0.2	0.0	19.9	0	0	1010	1009	-1	0.00	0.0	14.2	3.16
06/05/2023 07:07	0.2	0.0	19.9	0	0	1010	1009	-1	0.00	0.0	14.1	3.17
06/05/2023 08:07	0.2	0.0	19.9	0	0	1011	1010	-1	0.13	0.0	14.0	3.17
06/05/2023 09:07	0.2	0.0	19.9	0	0	1011	1010	-1	0.13	0.0	14.1	3.17
06/05/2023 10:07	0.2	0.0	19.9	0	0	1011	1010	-1	0.13	0.0	14.2	3.17
06/05/2023 11:07	0.2	0.0	19.9	0	0	1011	1010	-1	0.13	0.0	14.4	3.17
06/05/2023 12:07	0.2	0.0	20.0	0	0	1011	1010	-1	0.13	0.0	14.6	3.17
06/05/2023 13:07	0.2	0.0	20.0	0	0	1011	1010	-1	0.13	0.0	14.9	3.17
06/05/2023 14:07	0.2	0.0	20.0	0	0	1011	1010	-1	0.13	0.0	15.3	3.15
06/05/2023 15:07	0.2	0.0	20.0	0	0	1011	1010	-1	0.00	0.0	15.7	3.15
06/05/2023 16:07	0.2	0.0	20.0	0	0	1011	1010	-1	0.00	0.0	16.1	3.14
06/05/2023 17:07	0.2	0.0	20.0	0	0	1011	1010	-1	0.00	0.0	16.3	3.15
06/05/2023 18:07	0.2	0.0	20.1	0	0	1011	1010	-1	0.00	0.0	16.5	3.15
06/05/2023 19:07	0.2	0.0	20.1	0	0	1011	1010	-1	0.00	0.0	16.6	3.15
06/05/2023 20:07	0.2	0.0	20.1	0	0	1011	1010	-1	0.00	0.0	16.6	3.15
06/05/2023 21:07	0.2	0.0	20.1	0	0	1011	1010	-1	0.00	0.0	16.5	3.16
06/05/2023 22:07	0.2	0.0	20.1	0	0	1012	1011	-1	0.13	0.0	16.3	3.16
06/05/2023 23:07	0.2	0.0	20.0	0	0	1012	1011	-1	0.13	0.0	16.1	3.16
07/05/2023 00:07	0.2	0.0	20.0	0	0	1012	1011	-1	0.13	0.0	15.8	3.17
07/05/2023 01:07	0.2	0.0	20.0	0	0	1012	1011	-1	0.13	0.0	15.5	3.16
07/05/2023 02:07	0.2	0.0	20.0	0	0	1012	1011	-1	0.13	0.0	15.3	3.15
07/05/2023 03:07	0.2	0.0	20.0	0	0	1012	1012	0	0.25	0.0	15.0	3.14
07/05/2023 04:07	0.2	0.0	20.0	0	0	1013	1012	-1	0.25	0.0	14.8	3.14
07/05/2023 05:07	0.2	0.0	19.9	0	0	1012	1012	0	0.13	0.0	14.6	3.14
07/05/2023 06:07	0.2	0.0	19.9	0	0	1013	1012	-1	0.13	0.0	14.4	3.15
07/05/2023 07:07	0.2	0.0	19.9	0	0	1013	1013	0	0.25	0.0	14.3	3.15
07/05/2023 08:07	0.2	0.0	19.9	0	0	1013	1013	0	0.25	0.0	14.3	3.16
07/05/2023 09:07	0.2	0.0	19.9	0	0	1014	1013	-1	0.25	0.0	14.3	3.16
07/05/2023 10:07	0.2	0.0	19.9	0	0	1014	1013	-1	0.13	0.0	14.4	3.15
07/05/2023 11:07	0.2	0.0	20.0	0	0	1014	1013	-1	0.13	0.0	14.6	3.16
07/05/2023 12:07	0.2	0.0	20.0	0	0	1014	1013	-1	0.13	0.0	15.0	3.16
07/05/2023 13:07	0.2	0.0	20.0	0	0	1014	1013	-1	0.13	0.0	15.5	3.16
07/05/2023 14:07	0.2	0.0	20.0	0	0	1014	1013	-1	0.00	0.0	16.0	3.15
07/05/2023 15:07	0.2	0.0	20.1	0	0	1015	1014	-1	0.13	0.0	16.6	3.14
07/05/2023 16:07	0.2	0.0	20.1	0	0	1015	1014	-1	0.13	0.0	17.0	3.14
07/05/2023 17:07	0.2	0.0	20.1	0	0	1014	1013	-1	0.00	0.0	17.4	3.14
07/05/2023 18:07	0.2	0.0	20.1	0	0	1014	1014	0	0.13	0.0	17.7	3.14
07/05/2023 19:07	0.2	0.0	20.1	0	0	1014	1013	-1	0.00	0.0	17.9	3.14
07/05/2023 20:07	0.2	0.0	20.1	0	0	1015	1014	-1	0.13	0.0	17.8	3.14
07/05/2023 21:07	0.2	0.0	20.1	0	0	1014	1013	-1	0.00	0.0	17.4	3.14
07/05/2023 22:07	0.2	0.0	20.1	0	0	1014	1013	-1	-0.13	0.0	17.1	3.14
07/05/2023 23:07	0.2	0.0	20.1	0	0	1014	1013	-1	-0.13	0.0	16.8	3.14
08/05/2023 00:07	0.2	0.0	20.1	0	0	1013	1013	0	0.00	0.0	16.6	3.14
08/05/2023 01:07	0.2	0.0	20.1	0	0	1013	1012	-1	-0.25	0.0	16.3	3.13
08/05/2023 02:07	0.2	0.0	20.1	0	0	1012	1011	-1	-0.25	0.0	16.1	3.12
08/05/2023 03:07	0.2	0.0	20.1	0	0	1012	1011	-1	-0.38	0.0	15.9	3.12
08/05/2023 04:07	0.2	0.0	20.0	0	0	1011	1010	-1	-0.38	0.0	15.8	3.11
08/05/2023 05:07	0.2	0.0	20.0	0	0	1010	1009	-1	-0.50	0.0	15.6	3.11
08/05/2023 06:07	0.2	0.0	20.0	0	0	1010	1009	-1	-0.50	0.0	15.4	3.11
08/05/2023 07:07	0.											

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
08/05/2023 14:07	0.2	0.0	20.0	0	0	1010	1009	-1	0.00	0.0	15.2	3.12
08/05/2023 15:07	0.2	0.0	20.0	0	0	1010	1009	-1	0.00	0.0	15.3	3.11
08/05/2023 16:07	0.2	0.0	20.0	0	0	1010	1009	-1	0.00	0.0	15.3	3.11
08/05/2023 17:07	0.2	0.0	20.0	0	0	1009	1009	0	0.00	0.0	15.3	3.11
08/05/2023 18:07	0.2	0.0	20.0	0	0	1009	1008	-1	-0.13	0.0	15.4	3.11
08/05/2023 19:07	0.2	0.0	20.0	0	0	1009	1008	-1	-0.13	0.0	15.5	3.11
08/05/2023 20:07	0.2	0.0	20.0	0	0	1009	1008	-1	-0.13	0.0	15.6	3.12
08/05/2023 21:07	0.2	0.0	20.0	0	0	1010	1009	-1	0.00	0.0	15.6	3.11
08/05/2023 22:07	0.2	0.0	20.0	0	0	1009	1009	0	0.00	0.0	15.6	3.12
08/05/2023 23:07	0.2	0.0	20.0	0	0	1009	1008	-1	-0.13	0.0	15.5	3.12
09/05/2023 00:07	0.2	0.0	20.0	0	0	1009	1008	-1	-0.13	0.0	15.4	3.12
09/05/2023 01:07	0.2	0.0	20.0	0	0	1009	1008	-1	0.00	0.0	15.3	3.12
09/05/2023 02:07	0.2	0.0	20.0	0	0	1008	1008	0	0.00	0.0	15.3	3.12
09/05/2023 03:07	0.2	0.0	20.0	0	0	1008	1008	0	0.00	0.0	15.1	3.11
09/05/2023 04:07	0.2	0.0	20.0	0	0	1008	1008	0	-0.13	0.0	15.1	3.11
09/05/2023 05:07	0.2	0.0	20.0	0	0	1008	1008	0	-0.13	0.0	14.9	3.10
09/05/2023 06:07	0.2	0.0	20.0	0	0	1008	1007	-1	-0.13	0.0	14.8	3.11
09/05/2023 07:07	0.2	0.0	20.0	0	0	1008	1007	-1	-0.13	0.0	14.7	3.10
09/05/2023 08:07	0.2	0.0	19.9	0	0	1008	1007	-1	-0.13	0.0	14.7	3.11
09/05/2023 09:07	0.2	0.0	19.9	0	0	1008	1007	-1	-0.13	0.0	14.8	3.11
09/05/2023 10:07	0.2	0.0	20.0	0	0	1008	1007	-1	-0.13	0.0	15.0	3.11
09/05/2023 11:07	0.2	0.0	20.0	0	0	1008	1008	0	0.00	0.0	15.4	3.11
09/05/2023 12:07	0.2	0.0	20.0	0	0	1008	1007	-1	-0.13	0.0	15.6	3.11
09/05/2023 13:07	0.2	0.0	20.0	0	0	1008	1007	-1	0.00	0.0	15.7	3.12
09/05/2023 14:07	0.2	0.0	20.0	0	0	1008	1007	-1	0.00	0.0	15.9	3.12
09/05/2023 15:07	0.2	0.0	20.0	0	0	1008	1007	-1	0.00	0.0	16.2	3.11
09/05/2023 16:07	0.2	0.0	20.0	0	0	1008	1007	-1	0.00	0.0	16.5	3.11
09/05/2023 17:07	0.2	0.0	20.1	0	0	1008	1007	-1	0.00	0.0	16.8	3.11
09/05/2023 18:07	0.2	0.0	20.1	0	0	1008	1007	-1	-0.13	0.0	17.1	3.10
09/05/2023 19:07	0.2	0.0	20.1	0	0	1008	1007	-1	0.00	0.0	17.3	3.10
09/05/2023 20:07	0.2	0.0	20.1	0	0	1008	1007	-1	0.00	0.0	17.2	3.10
09/05/2023 21:07	0.2	0.0	20.1	0	0	1008	1007	-1	0.00	0.0	16.9	3.11
09/05/2023 22:07	0.2	0.0	20.1	0	0	1008	1007	-1	0.00	0.0	16.6	3.11
09/05/2023 23:07	0.2	0.0	20.0	0	0	1008	1007	-1	0.00	0.0	16.4	3.11
10/05/2023 00:07	0.2	0.0	20.0	0	0	1007	1006	-1	-0.13	0.0	16.3	3.11
10/05/2023 01:07	0.2	0.0	20.0	0	0	1007	1006	-1	-0.13	0.0	16.0	3.11
10/05/2023 02:07	0.2	0.0	20.0	0	0	1007	1006	-1	-0.13	0.0	15.8	3.11
10/05/2023 03:07	0.2	0.0	20.0	0	0	1007	1006	-1	-0.13	0.0	15.7	3.10
10/05/2023 04:07	0.2	0.0	20.0	0	0	1006	1005	-1	-0.25	0.0	15.6	3.10
10/05/2023 05:07	0.2	0.0	20.0	0	0	1006	1005	-1	-0.25	0.0	15.4	3.10
10/05/2023 06:07	0.2	0.0	20.0	0	0	1006	1005	-1	-0.25	0.0	15.3	3.10
10/05/2023 07:07	0.2	0.0	20.0	0	0	1006	1005	-1	-0.13	0.0	15.1	3.10
10/05/2023 08:07	0.2	0.0	19.9	0	0	1006	1005	-1	-0.13	0.0	15.1	3.10
10/05/2023 09:07	0.2	0.0	19.9	0	0	1006	1005	-1	-0.13	0.0	15.0	3.10
10/05/2023 10:07	0.2	0.0	20.0	0	0	1007	1006	-1	0.00	0.0	15.0	3.10
10/05/2023 11:07	0.2	0.0	20.0	0	0	1007	1006	-1	0.13	0.0	15.1	3.11
10/05/2023 12:07	0.2	0.0	19.9	0	0	1007	1006	-1	0.13	0.0	15.1	3.11
10/05/2023 13:07	0.2	0.0	20.0	0	0	1007	1006	-1	0.13	0.0	15.3	3.11
10/05/2023 14:07	0.2	0.0	20.0	0	0	1007	1006	-1	0.13	0.0	15.5	3.12
10/05/2023 15:07	0.2	0.0	20.0	0	0	1007	1006	-1	0.13	0.0	15.8	3.12
10/05/2023 16:07	0.2	0.0	20.0	0	0	1007	1006	-1	0.13	0.0	16.1	3.12
10/05/2023 17:07	0.2	0.0	20.0	0	0	1008	1007	-1	0.13	0.0	16.2	3.11
10/05/2023 18:07	0.2	0.0	20.0	0	0	1008	1007	-1	0.13	0.0	16.4	3.11
10/05/2023 19:07	0.2	0.0	20.0	0	0	1008	1007	-1	0.13	0.0	16.6	3.11
10/05/2023 20:07	0.2	0.0	20.0	0	0	1008	1008	0	0.25	0.0	16.8	3.11
10/05/2023 21:07	0.2	0.0	20.0	0	0	1009	1008	-1	0.25	0.0	16.6	3.11
10/05/2023 22:07	0.2	0.0	20.0	0	0	1009	1008	-1	0.25	0.0	16.3	3.11
10/05/2023 23:07	0.2	0.0	20.0	0	0	1009	1008	-1	0.25	0.0	16.1	3.11
11/05/2023 00:07	0.2	0.0	20.0	0	0	1009	1008	-1	0.13	0.0	15.8	3.11
11/05/2023 01:07	0.2	0.0	20.0	0	0	1009	1009	0	0.25	0.0	15.7	3.11
11/05/2023 02:07	0.2	0.0	20.0	0	0	1009	1009	0	0.25	0.0	15.5	3.12
11/05/2023 03:07	0.2	0.0	20.0	0	0	1010	1009	-1	0.13	0.0	15.3	3.12
11/05/2023 04:07	0.2	0.0	20.0	0	0	1010	1009	-1	0.13	0.0	15.2	3.12
11/05/2023 05:07	0.2	0.0	20.0	0	0	1010	1009	-1	0.13	0.0	15.0	3.11
11/05/2023 06:07	0.2	0.0	20.0	0	0	1011	1010	-1	0.25	0.0	14.9	3.11
11/05/2023 07:07	0.2	0.0	20.0	0	0	1012	1011	-1	0.38	0.0	14.8	3.11
11/05/2023 08:07	0.2	0.0	20.0	0	0	1012	1012	0	0.38	0.0	14.8	3.11
11/05/2023 09:07	0.2	0.0	20.0	0	0	1013	1012	-1	0.38	0.0	14.8	3.11
11/05/2023 10:07	0.2	0.0	20.0	0	0	1014	1013	-1	0.50	0.0	14.9	3.12
11/05/2023 11:07	0.2	0.0	20.1	0	0	1014	1013	-1	0.50	0.0	15.2	3.12
11/05/2023 12:07	0.2	0.0	20.1	0	0	1015	1014	-1	0.63	0.0	15.4	3.12
11/05/2023 13:07	0.2	0.0	20.1	0	0	1016	1015	-1	0.63	0.0	15.6	3.13
11/05/2023 14:07	0.2	0.0	20.1	0	0	1016	1015	-1	0.50	0.0	15.8	3.13
11/05/2023 15:07	0.2	0.0	20.1	0	0	1016	1016	0	0.50	0.0	16.1	3.14
11/05/2023 16:07	0.2	0.0	20.1	0	0	1017	1016	-1	0.50	0.0	16.4	3.14
11/05/2023 17:07	0.2	0.0	20.2	0	0	1018	1017	-1	0.50	0.0	16.5	3.14
11/05/2023 18:07	0.2	0.0	20.1	0	0	1019	1018	-1	0.63	0.0	16.7	3.14
11/05/2023 19:07	0.2	0.0	20.2	0	0	1020	1019	-1	0.63	0.0	16.8	3.13
11/05/2023 20:07	0.2	0.0	20.2	0	0	1021	1020	-1	0.63	0.0	16.9	3.14
11/05/2023 21:07	0.2	0.0	20.2	0	0	1022	1021	-1	0.75	0.0	16.9	3.13
11/05/2023 22:07	0.2	0.0	20.2	0	0	1023	1022	-1	0.75	0.0	16.7	3.14
11/05/2023 23:07	0.2	0.0	20.1	0	0	1023	1022	-1	0.75	0.0	16.4	3.14
12/05/2023 00:07	0.2	0.0	20.1	0	0	1024	1023	-1	0.75	0.0	16.2	3.14
12/05/2023 01:07	0.2	0.0	20.1	0	0	1025	1024	-1	0.75	0.0	16.0	3.14
12/05/2023 02:07	0.2	0.0	20.1	0	0	1025	1024	-1	0.63	0.0	15.8	3.15
12/05/2023 03:07	0.2	0.0	20.1	0	0	1026	1025	-1	0.63	0.0	15.6	3.15
12/05/2023 04:07	0.2	0.0	20.1	0	0	1026	1025	-1	0.50	0.0	15.4	3.15
12/05/2023 05:07	0.2	0.0	20.1	0	0	1026	1025	-1	0.38	0.0	15.3	3.15
12/05/2023 06:07	0.2	0.0	20.1	0	0	1027	1026	-1	0.50	0.0	15.2	3.15
12/05/2023 07:07	0.2	0.0	20.1	0	0	1028	1027	-1	0.50	0.0	15.1	3.14
12/05/2023 08:07	0.2	0.0	20.1	0	0	1028	1027	-1	0.38	0.0	15.0	3.14
12/05/2023 09:07	0.2	0.0	20.1	0	0	1028	1027	-1	0.38	0.0	15.0	3.14
12/05/2023 10:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.38	0.0	15.1	3.15
12/05/2023 11:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.38	0.0	15.2	3.15
12/05/2023 12:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.38	0.0	15.4	3.15
12/05/2023 13:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.25	0.0	15.8	3.15
12/05/2023 14:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.13	0.0	16.1	3.16
12/05/2023 15:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.13	0.0	16.5	3.16
12/05/2023 16:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.13	0.0	16.9	3.16
12/05/2023 17:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.00	0.0	17.2	3.16
12/05/2023 18:07	0.2	0.0	20.1	0	0	1029						

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
13/05/2023 12:07	0.2	0.0	19.9	0	0	1028	1027	-1	-0.13	0.0	15.1	3.17
13/05/2023 13:07	0.2	0.0	20.0	0	0	1027	1026	-1	-0.25	0.0	15.4	3.17
13/05/2023 14:07	0.2	0.0	20.0	0	0	1027	1026	-1	-0.25	0.0	15.8	3.17
13/05/2023 15:07	0.2	0.0	20.0	0	0	1026	1025	-1	-0.25	0.0	16.2	3.18
13/05/2023 16:07	0.2	0.0	20.0	0	0	1026	1025	-1	-0.25	0.0	16.4	3.17
13/05/2023 17:07	0.2	0.0	20.0	0	0	1025	1024	-1	-0.38	0.0	16.7	3.18
13/05/2023 18:07	0.2	0.0	20.0	0	0	1024	1023	-1	-0.50	0.0	16.8	3.18
13/05/2023 19:07	0.2	0.0	20.0	0	0	1024	1023	-1	-0.50	0.0	16.8	3.18
13/05/2023 20:07	0.2	0.0	20.0	0	0	1024	1023	-1	-0.38	0.0	16.7	3.18
13/05/2023 21:07	0.2	0.0	20.0	0	0	1023	1022	-1	-0.50	0.0	16.5	3.18
13/05/2023 22:07	0.2	0.0	20.0	0	0	1023	1022	-1	-0.38	0.0	16.3	3.17
13/05/2023 23:07	0.2	0.0	20.0	0	0	1022	1021	-1	-0.50	0.0	16.1	3.17
14/05/2023 00:07	0.2	0.0	20.0	0	0	1022	1021	-1	-0.38	0.0	15.9	3.17
14/05/2023 01:07	0.2	0.0	20.0	0	0	1021	1020	-1	-0.38	0.0	15.8	3.17
14/05/2023 02:07	0.2	0.0	19.9	0	0	1020	1019	-1	-0.50	0.0	15.6	3.18
14/05/2023 03:07	0.2	0.0	19.9	0	0	1020	1019	-1	-0.50	0.0	15.5	3.18
14/05/2023 04:07	0.2	0.0	19.9	0	0	1019	1018	-1	-0.50	0.0	15.4	3.18
14/05/2023 05:07	0.2	0.0	19.9	0	0	1019	1018	-1	-0.50	0.0	15.2	3.19
14/05/2023 06:07	0.2	0.0	19.9	0	0	1018	1017	-1	-0.50	0.0	15.1	3.19
14/05/2023 07:07	0.2	0.0	19.9	0	0	1018	1017	-1	-0.50	0.0	14.9	3.18
14/05/2023 08:07	0.2	0.0	19.9	0	0	1017	1016	-1	-0.50	0.0	14.9	3.18
14/05/2023 09:07	0.2	0.0	19.9	0	0	1017	1016	-1	-0.38	0.0	14.9	3.17
14/05/2023 10:07	0.2	0.0	19.8	0	0	1017	1016	-1	-0.38	0.0	14.9	3.17
14/05/2023 11:07	0.2	0.0	19.8	0	0	1017	1016	-1	-0.25	0.0	14.9	3.17
14/05/2023 12:07	0.2	0.0	19.8	0	0	1017	1016	-1	-0.25	0.0	14.9	3.17
14/05/2023 13:07	0.2	0.0	19.8	0	0	1017	1016	-1	-0.13	0.0	14.9	3.18
14/05/2023 14:07	0.2	0.0	19.8	0	0	1017	1016	-1	-0.13	0.0	14.9	3.18
14/05/2023 15:07	0.2	0.0	19.8	0	0	1017	1016	-1	0.00	0.0	15.2	3.19
14/05/2023 16:07	0.2	0.0	19.9	0	0	1017	1016	-1	0.00	0.0	15.4	3.19
14/05/2023 17:07	0.2	0.0	19.9	0	0	1017	1016	-1	0.00	0.0	15.7	3.20
14/05/2023 18:07	0.2	0.0	19.9	0	0	1017	1016	-1	0.00	0.0	15.9	3.20
14/05/2023 19:07	0.2	0.0	19.9	0	0	1018	1017	-1	0.13	0.0	16.1	3.20
14/05/2023 20:07	0.2	0.0	19.9	0	0	1018	1017	-1	0.13	0.0	16.0	3.20
14/05/2023 21:07	0.2	0.0	19.9	0	0	1018	1017	-1	0.13	0.0	15.8	3.20
14/05/2023 22:07	0.2	0.0	19.9	0	0	1019	1018	-1	0.25	0.0	15.6	3.20
14/05/2023 23:07	0.2	0.0	19.8	0	0	1019	1018	-1	0.25	0.0	15.3	3.20
15/05/2023 00:07	0.2	0.0	19.8	0	0	1019	1018	-1	0.25	0.0	15.1	3.19
15/05/2023 01:07	0.2	0.0	19.8	0	0	1019	1018	-1	0.25	0.0	14.9	3.19
15/05/2023 02:07	0.2	0.0	19.8	0	0	1019	1018	-1	0.13	0.0	14.6	3.20
15/05/2023 03:07	0.2	0.0	19.8	0	0	1020	1019	-1	0.25	0.0	14.4	3.20
15/05/2023 04:07	0.2	0.0	19.8	0	0	1020	1019	-1	0.25	0.0	14.2	3.20
15/05/2023 05:07	0.2	0.0	19.8	0	0	1020	1019	-1	0.13	0.0	13.9	3.21
15/05/2023 06:07	0.2	0.0	19.8	0	0	1020	1019	-1	0.13	0.0	13.8	3.21
15/05/2023 07:07	0.2	0.0	19.8	0	0	1020	1020	0	0.25	0.0	13.7	3.21
15/05/2023 08:07	0.2	0.0	19.8	0	0	1020	1020	0	0.25	0.0	13.7	3.21
15/05/2023 09:07	0.2	0.0	19.8	0	0	1021	1020	-1	0.25	0.0	13.8	3.21
15/05/2023 10:07	0.2	0.0	19.8	0	0	1021	1020	-1	0.13	0.0	14.0	3.20
15/05/2023 11:07	0.2	0.0	19.8	0	0	1021	1020	-1	0.13	0.0	14.3	3.20
15/05/2023 12:07	0.2	0.0	19.8	0	0	1021	1020	-1	0.13	0.1	14.6	3.20
15/05/2023 13:07	0.2	0.0	19.8	0	0	1022	1021	-1	0.25	0.0	14.9	3.20
15/05/2023 14:07	0.2	0.0	19.8	0	0	1022	1021	-1	0.13	0.0	15.2	3.20
15/05/2023 15:07	0.2	0.0	19.9	0	0	1022	1021	-1	0.13	0.0	15.5	3.21
15/05/2023 16:07	0.2	0.0	19.9	0	0	1022	1021	-1	0.13	0.0	15.8	3.21
15/05/2023 17:07	0.2	0.0	19.9	0	0	1023	1021	-2	0.13	0.0	16.1	3.22
15/05/2023 18:07	0.2	0.0	19.9	0	0	1023	1022	-1	0.25	0.0	16.3	3.22
15/05/2023 19:07	0.2	0.0	19.9	0	0	1023	1022	-1	0.25	0.0	16.4	3.22
15/05/2023 20:07	0.2	0.0	19.9	0	0	1023	1022	-1	0.13	0.0	16.4	3.22
15/05/2023 21:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.25	0.0	16.3	3.22
15/05/2023 22:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.25	0.0	15.9	3.21
15/05/2023 23:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.25	0.0	15.6	3.21
16/05/2023 00:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.25	0.0	15.3	3.21
16/05/2023 01:07	0.2	0.0	19.8	0	0	1024	1023	-1	0.13	0.0	15.1	3.20
16/05/2023 02:07	0.2	0.0	19.8	0	0	1024	1023	-1	0.13	0.0	14.8	3.20
16/05/2023 03:07	0.2	0.0	19.8	0	0	1023	1022	-1	0.00	0.0	14.7	3.21
16/05/2023 04:07	0.2	0.0	19.8	0	0	1023	1022	-1	-0.13	0.0	14.6	3.21
16/05/2023 05:07	0.2	0.0	19.8	0	0	1023	1022	-1	-0.13	0.0	14.4	3.21
16/05/2023 06:07	0.2	0.0	19.8	0	0	1023	1022	-1	-0.13	0.0	14.4	3.22
16/05/2023 07:07	0.2	0.0	19.8	0	0	1023	1022	-1	-0.13	0.0	14.3	3.22
16/05/2023 08:07	0.2	0.0	19.8	0	0	1023	1023	0	0.00	0.0	14.3	3.23
16/05/2023 09:07	0.2	0.0	19.8	0	0	1024	1023	-1	0.00	0.0	14.3	3.23
16/05/2023 10:07	0.2	0.0	19.8	0	0	1024	1023	-1	0.13	0.0	14.4	3.22
16/05/2023 11:07	0.2	0.0	19.8	0	0	1024	1023	-1	0.13	0.0	14.6	3.21
16/05/2023 12:07	0.2	0.0	19.8	0	0	1024	1023	-1	0.13	0.0	14.7	3.21
16/05/2023 13:07	0.2	0.0	19.8	0	0	1024	1023	-1	0.13	0.0	15.0	3.21
16/05/2023 14:07	0.2	0.0	19.8	0	0	1024	1023	-1	0.13	0.0	15.4	3.21
16/05/2023 15:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.13	0.0	15.7	3.21
16/05/2023 16:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.13	0.0	15.9	3.21
16/05/2023 17:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.13	0.0	16.1	3.22
16/05/2023 18:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.13	0.0	16.3	3.22
16/05/2023 19:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.13	0.0	16.4	3.23
16/05/2023 20:07	0.2	0.0	19.9	0	0	1026	1025	-1	0.25	0.0	16.4	3.23
16/05/2023 21:07	0.2	0.0	19.9	0	0	1026	1025	-1	0.25	0.0	16.2	3.23
16/05/2023 22:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.25	0.0	15.9	3.23
16/05/2023 23:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.25	0.0	15.7	3.23
17/05/2023 00:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.25	0.0	15.5	3.22
17/05/2023 01:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.25	0.0	15.3	3.22
17/05/2023 02:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.25	0.0	15.2	3.22
17/05/2023 03:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.13	0.0	15.1	3.22
17/05/2023 04:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.13	0.0	15.0	3.22
17/05/2023 05:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.00	0.0	14.9	3.23
17/05/2023 06:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.00	0.0	14.9	3.23
17/05/2023 07:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	14.8	3.23
17/05/2023 08:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	14.8	3.23
17/05/2023 09:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	14.8	3.23
17/05/2023 10:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	15.1	3.23
17/05/2023 11:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	15.5	3.22
17/05/2023 12:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	15.9	3.22
17/05/2023 13:07	0.2	0.0	20.0	0	0	1028	1027	-1	0.13	0.0	16.3	3.21
17/05/2023 14:07	0.2	0.0	20.0	0	0	1028	1027	-1	0.00	0.0	16.5	3.21
17/05/2023 15:07	0.2	0.0	20.0	0	0	1028	1027	-1	0.00	0.0	16.6	3.21
17/05/2023 16:07	0.2	0.0	20.0	0	0	1027						

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
18/05/2023 10:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.00	0.0	15.3	3.23
18/05/2023 11:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.00	0.0	15.4	3.23
18/05/2023 12:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.00	0.0	15.7	3.23
18/05/2023 13:07	0.2	0.0	19.9	0	0	1026	1025	-1	0.13	0.0	15.9	3.22
18/05/2023 14:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.00	0.0	16.0	3.21
18/05/2023 15:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.00	0.0	16.1	3.21
18/05/2023 16:07	0.2	0.0	20.0	0	0	1025	1024	-1	-0.13	0.0	16.2	3.21
18/05/2023 17:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.00	0.0	16.2	3.21
18/05/2023 18:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.00	0.0	16.1	3.21
18/05/2023 19:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.00	0.0	16.0	3.22
18/05/2023 20:07	0.2	0.0	19.9	0	0	1025	1024	-1	-0.13	0.0	15.9	3.22
18/05/2023 21:07	0.2	0.0	19.9	0	0	1026	1025	-1	0.13	0.0	15.8	3.23
18/05/2023 22:07	0.2	0.0	19.9	0	0	1026	1025	-1	0.13	0.0	15.8	3.23
18/05/2023 23:07	0.2	0.0	19.9	0	0	1026	1025	-1	0.13	0.0	15.7	3.24
19/05/2023 00:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.25	0.0	15.6	3.23
19/05/2023 01:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.25	0.0	15.4	3.22
19/05/2023 02:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.25	0.0	15.3	3.22
19/05/2023 03:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.25	0.0	15.1	3.21
19/05/2023 04:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.13	0.0	15.0	3.21
19/05/2023 05:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.13	0.0	14.9	3.22
19/05/2023 06:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.13	0.0	14.8	3.22
19/05/2023 07:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.00	0.0	14.8	3.23
19/05/2023 08:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	14.9	3.23
19/05/2023 09:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	15.0	3.23
19/05/2023 10:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	15.2	3.24
19/05/2023 11:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	15.4	3.24
19/05/2023 12:07	0.2	0.0	19.9	0	0	1029	1028	-1	0.25	0.0	15.8	3.23
19/05/2023 13:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.25	0.0	16.1	3.23
19/05/2023 14:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.25	0.0	16.6	3.22
19/05/2023 15:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.13	0.0	17.1	3.22
19/05/2023 16:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.13	0.0	17.6	3.22
19/05/2023 17:07	0.2	0.0	20.0	1	0	1029	1028	-1	0.13	0.0	17.9	3.22
19/05/2023 18:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.13	0.0	18.2	3.22
19/05/2023 19:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.00	0.0	18.2	3.22
19/05/2023 20:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.00	0.0	18.1	3.23
19/05/2023 21:07	0.2	0.0	20.1	0	0	1029	1028	-1	0.00	0.0	17.9	3.23
19/05/2023 22:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.00	0.0	17.7	3.23
19/05/2023 23:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.00	0.0	17.4	3.24
20/05/2023 00:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.00	0.0	17.1	3.23
20/05/2023 01:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.00	0.0	16.9	3.23
20/05/2023 02:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.00	0.0	16.7	3.22
20/05/2023 03:07	0.2	0.0	19.9	0	0	1029	1028	-1	0.00	0.0	16.6	3.22
20/05/2023 04:07	0.2	0.0	19.9	0	0	1029	1028	-1	0.00	0.0	16.4	3.21
20/05/2023 05:07	0.2	0.0	19.9	0	0	1029	1028	-1	0.00	0.0	16.3	3.22
20/05/2023 06:07	0.2	0.0	19.9	0	0	1028	1027	-1	-0.13	0.0	16.1	3.22
20/05/2023 07:07	0.2	0.0	19.9	0	0	1029	1027	-2	-0.13	0.0	16.1	3.22
20/05/2023 08:07	0.2	0.0	19.9	0	0	1028	1027	-1	-0.13	0.0	16.0	3.23
20/05/2023 09:07	0.2	0.0	19.9	0	0	1028	1027	-1	-0.13	0.0	16.0	3.23
20/05/2023 10:07	0.2	0.0	19.9	0	0	1028	1027	-1	-0.13	0.0	16.1	3.23
20/05/2023 11:07	0.2	0.0	20.0	0	0	1028	1027	-1	-0.13	0.0	16.1	3.23
20/05/2023 12:07	0.2	0.0	20.0	0	0	1028	1027	-1	-0.13	0.0	16.2	3.23
20/05/2023 13:07	0.2	0.0	20.0	0	0	1028	1027	-1	0.00	0.0	16.3	3.23
20/05/2023 14:07	0.2	0.0	20.0	0	0	1027	1026	-1	-0.13	0.0	16.4	3.22
20/05/2023 15:07	0.2	0.0	20.0	0	0	1027	1026	-1	-0.13	0.0	16.6	3.21
20/05/2023 16:07	0.2	0.0	20.0	0	0	1026	1025	-1	-0.25	0.0	16.8	3.21
20/05/2023 17:07	0.2	0.0	20.0	0	0	1026	1025	-1	-0.25	0.0	16.8	3.21
20/05/2023 18:07	0.2	0.0	20.0	0	0	1025	1025	0	-0.25	0.0	16.9	3.21
20/05/2023 19:07	0.2	0.0	20.0	0	0	1025	1024	-1	-0.38	0.0	16.9	3.22
20/05/2023 20:07	0.2	0.0	20.0	0	0	1025	1024	-1	-0.38	0.0	16.8	3.22
20/05/2023 21:07	0.2	0.0	20.0	0	0	1025	1024	-1	-0.25	0.0	16.8	3.23
20/05/2023 22:07	0.2	0.0	20.0	0	0	1025	1024	-1	-0.25	0.0	16.7	3.23
20/05/2023 23:07	0.2	0.0	20.0	0	0	1025	1024	-1	-0.13	0.0	16.6	3.23
21/05/2023 00:07	0.2	0.0	20.0	0	0	1025	1024	-1	-0.13	0.0	16.4	3.23
21/05/2023 01:07	0.2	0.0	20.0	0	0	1025	1024	-1	-0.13	0.0	16.3	3.23
21/05/2023 02:07	0.2	0.0	20.0	0	0	1024	1023	-1	-0.13	0.0	16.2	3.22
21/05/2023 03:07	0.2	0.0	19.9	0	0	1024	1023	-1	-0.13	0.0	16.1	3.22
21/05/2023 04:07	0.2	0.0	19.9	0	0	1024	1023	-1	-0.13	0.0	16.0	3.21
21/05/2023 05:07	0.2	0.0	19.9	0	0	1024	1023	-1	-0.13	0.0	15.9	3.21
21/05/2023 06:07	0.2	0.0	19.9	0	0	1024	1023	-1	-0.13	0.0	15.8	3.22
21/05/2023 07:07	0.2	0.0	19.9	0	0	1024	1023	-1	-0.13	0.0	15.8	3.22
21/05/2023 08:07	0.2	0.0	19.9	0	0	1024	1023	-1	-0.13	0.0	15.8	3.23
21/05/2023 09:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.00	0.0	15.8	3.23
21/05/2023 10:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.00	0.0	15.8	3.23
21/05/2023 11:07	0.2	0.0	19.9	0	0	1025	1023	-2	0.00	0.0	15.9	3.23
21/05/2023 12:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.00	0.0	16.1	3.24
21/05/2023 13:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	16.1	3.24
21/05/2023 14:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	16.3	3.23
21/05/2023 15:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	16.5	3.23
21/05/2023 16:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	16.8	3.22
21/05/2023 17:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	17.1	3.22
21/05/2023 18:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	17.4	3.22
21/05/2023 19:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	17.8	3.22
21/05/2023 20:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	17.8	3.23
21/05/2023 21:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	17.8	3.23
21/05/2023 22:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	17.7	3.23
21/05/2023 23:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	17.4	3.23
22/05/2023 00:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	17.2	3.24
22/05/2023 01:07	0.2	0.0	20.0	0	0	1024	1023	-1	0.00	0.0	16.9	3.24
22/05/2023 02:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.00	0.0	16.6	3.23
22/05/2023 03:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.00	0.0	16.3	3.23
22/05/2023 04:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.00	0.0	16.1	3.22
22/05/2023 05:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.00	0.0	15.9	3.22
22/05/2023 06:07	0.2	0.0	19.9	0	0	1024	1023	-1	0.00	0.0	15.7	3.22
22/05/2023 07:07	0.2	0.0	19.9	0	0	1025	1023	-2	0.00	0.0	15.5	3.22
22/05/2023 08:07	0.2	0.0	19.8	0	0	1025	1024	-1	0.13	0.0	15.4	3.23
22/05/2023 09:07	0.2	0.0	19.8	0	0	1025	1024	-1	0.13	0.0	15.4	3.22
22/05/2023 10:07	0.2	0.0	19.8	0	0	1025	1024	-1	0.13	0.0	15.6	3.23
22/05/2023 11:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.13	0.0	15.8	3.23
22/05/2023 12:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.13	0.0	16.0	3.24
22/05/2023 13:07	0.2	0.0	19.9	0	0	1025	1024	-1	0.13	0.0	16.4	3.24
22/05/2023 14:07	0.2	0.0	19.9	0	0	1025	1024	-1</				

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
23/05/2023 08:07	0.2	0.0	19.8	0	0	1028	1027	-1	0.00	0.0	15.3	3.23
23/05/2023 09:07	0.2	0.0	19.8	0	0	1028	1027	-1	0.00	0.0	15.3	3.23
23/05/2023 10:07	0.2	0.0	19.8	0	0	1028	1027	-1	0.13	0.0	15.4	3.23
23/05/2023 11:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.00	0.0	15.6	3.23
23/05/2023 12:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.00	0.0	15.8	3.23
23/05/2023 13:07	0.2	0.0	19.9	0	0	1027	1026	-1	-0.13	0.0	16.1	3.24
23/05/2023 14:07	0.2	0.0	19.9	0	0	1027	1026	-1	-0.13	0.0	16.4	3.24
23/05/2023 15:07	0.2	0.0	19.9	0	0	1027	1026	-1	-0.13	0.0	16.6	3.24
23/05/2023 16:07	0.2	0.0	19.9	0	0	1027	1026	-1	-0.13	0.0	16.6	3.23
23/05/2023 17:07	0.2	0.0	19.9	0	0	1026	1025	-1	-0.25	0.0	16.6	3.23
23/05/2023 18:07	0.2	0.0	19.9	0	0	1026	1025	-1	-0.13	0.0	16.6	3.23
23/05/2023 19:07	0.2	0.0	19.9	0	0	1026	1025	-1	-0.13	0.0	16.6	3.24
23/05/2023 20:07	0.2	0.0	19.9	0	0	1026	1025	-1	-0.13	0.0	16.5	3.24
23/05/2023 21:07	0.2	0.0	19.9	0	0	1026	1025	-1	-0.13	0.0	16.4	3.24
23/05/2023 22:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.00	0.0	16.2	3.24
23/05/2023 23:07	0.2	0.0	19.9	0	0	1026	1025	-1	-0.13	0.0	16.1	3.24
24/05/2023 00:07	0.2	0.0	19.8	0	0	1026	1025	-1	0.00	0.0	15.9	3.24
24/05/2023 01:07	0.2	0.0	19.8	0	0	1025	1024	-1	-0.13	0.0	15.6	3.24
24/05/2023 02:07	0.2	0.0	19.8	0	0	1025	1024	-1	-0.13	0.0	15.4	3.24
24/05/2023 03:07	0.2	0.0	19.8	0	0	1025	1024	-1	-0.13	0.0	15.3	3.24
24/05/2023 04:07	0.2	0.0	19.8	0	0	1025	1024	-1	-0.13	0.0	15.1	3.24
24/05/2023 05:07	0.2	0.0	19.8	0	0	1025	1024	-1	-0.25	0.0	15.1	3.23
24/05/2023 06:07	0.2	0.0	19.8	0	0	1025	1024	-1	-0.13	0.0	14.9	3.23
24/05/2023 07:07	0.2	0.0	19.8	0	0	1026	1025	-1	0.00	0.0	14.9	3.23
24/05/2023 08:07	0.3	0.0	19.8	1	0	1026	1025	-1	0.13	0.0	14.9	3.23
24/05/2023 09:07	0.2	0.0	19.8	0	0	1027	1026	-1	0.25	0.0	14.9	3.23
24/05/2023 10:07	0.2	0.0	19.8	0	0	1027	1026	-1	0.25	0.0	15.0	3.23
24/05/2023 11:07	0.2	0.0	19.8	0	0	1027	1026	-1	0.25	0.0	15.1	3.24
24/05/2023 12:07	0.2	0.0	19.8	0	0	1027	1026	-1	0.25	0.0	15.4	3.24
24/05/2023 13:07	0.2	0.0	19.8	0	0	1027	1026	-1	0.25	0.0	15.6	3.24
24/05/2023 14:07	0.2	0.0	19.9	0	0	1027	1026	-1	0.13	0.0	15.9	3.25
24/05/2023 15:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.25	0.0	16.3	3.25
24/05/2023 16:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	16.6	3.25
24/05/2023 17:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	16.7	3.25
24/05/2023 18:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	16.9	3.25
24/05/2023 19:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	17.1	3.24
24/05/2023 20:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	17.1	3.24
24/05/2023 21:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	17.0	3.25
24/05/2023 22:07	0.2	0.0	19.9	0	0	1029	1028	-1	0.13	0.0	16.8	3.25
24/05/2023 23:07	0.2	0.0	19.9	0	0	1029	1028	-1	0.13	0.0	16.4	3.25
25/05/2023 00:07	0.2	0.0	19.9	0	0	1029	1028	-1	0.13	0.0	16.1	3.26
25/05/2023 01:07	0.2	0.0	19.8	0	0	1029	1028	-1	0.13	0.0	15.8	3.26
25/05/2023 02:07	0.2	0.0	19.8	0	0	1029	1028	-1	0.13	0.0	15.6	3.25
25/05/2023 03:07	0.2	0.0	19.8	0	0	1029	1028	-1	0.13	0.0	15.4	3.26
25/05/2023 04:07	0.2	0.0	19.9	0	0	1029	1028	-1	0.13	0.0	15.1	3.25
25/05/2023 05:07	0.2	0.0	19.8	0	0	1030	1029	-1	0.13	0.0	14.9	3.25
25/05/2023 06:07	0.2	0.0	19.8	0	0	1030	1029	-1	0.13	0.0	14.8	3.25
25/05/2023 07:07	0.2	0.0	19.8	0	0	1031	1030	-1	0.25	0.0	14.6	3.24
25/05/2023 08:07	0.2	0.0	19.8	0	0	1031	1030	-1	0.25	0.0	14.7	3.24
25/05/2023 09:07	0.2	0.0	19.8	0	0	1031	1030	-1	0.25	0.0	14.9	3.24
25/05/2023 10:07	0.2	0.0	19.8	0	0	1031	1030	-1	0.25	0.0	15.1	3.25
25/05/2023 11:07	0.2	0.0	19.8	0	0	1031	1030	-1	0.25	0.0	15.6	3.25
25/05/2023 12:07	0.2	0.0	19.9	0	0	1031	1030	-1	0.13	0.0	15.9	3.25
25/05/2023 13:07	0.2	0.0	19.9	0	0	1031	1030	-1	0.13	0.0	16.4	3.25
25/05/2023 14:07	0.2	0.0	19.9	0	0	1031	1030	-1	0.00	0.0	16.8	3.26
25/05/2023 15:07	0.2	0.0	19.9	0	0	1031	1030	-1	0.00	0.0	17.1	3.26
25/05/2023 16:07	0.2	0.0	20.0	0	0	1031	1030	-1	0.00	0.0	17.4	3.26
25/05/2023 17:07	0.2	0.0	20.0	0	0	1031	1030	-1	0.00	0.0	17.8	3.26
25/05/2023 18:07	0.3	0.0	20.0	0	0	1031	1030	-1	0.00	0.0	18.0	3.26
25/05/2023 19:07	0.2	0.0	20.0	0	0	1031	1030	-1	0.00	0.0	18.2	3.26
25/05/2023 20:07	0.2	0.0	20.0	0	0	1031	1030	-1	0.00	0.0	18.3	3.26
25/05/2023 21:07	0.2	0.0	20.0	0	0	1032	1031	-1	0.13	0.0	18.1	3.26
25/05/2023 22:07	0.2	0.0	20.0	0	0	1032	1031	-1	0.13	0.0	17.8	3.26
25/05/2023 23:07	0.2	0.0	19.9	0	0	1032	1031	-1	0.13	0.0	17.4	3.26
26/05/2023 00:07	0.2	0.0	19.9	0	0	1032	1031	-1	0.13	0.0	17.1	3.26
26/05/2023 01:07	0.2	0.0	19.9	0	0	1032	1031	-1	0.13	0.0	16.8	3.26
26/05/2023 02:07	0.2	0.0	19.9	0	0	1032	1031	-1	0.13	0.0	16.4	3.26
26/05/2023 03:07	0.2	0.0	19.9	0	0	1032	1031	-1	0.13	0.0	16.2	3.27
26/05/2023 04:07	0.2	0.0	19.9	0	0	1032	1031	-1	0.00	0.0	15.9	3.26
26/05/2023 05:07	0.2	0.0	19.8	0	0	1032	1031	-1	0.00	0.0	15.8	3.27
26/05/2023 06:07	0.2	0.0	19.8	0	0	1032	1031	-1	0.00	0.0	15.5	3.26
26/05/2023 07:07	0.2	0.0	19.8	0	0	1033	1031	-2	0.00	0.0	15.3	3.26
26/05/2023 08:07	0.2	0.0	19.8	0	0	1033	1032	-1	0.13	0.0	15.4	3.26
26/05/2023 09:07	0.2	0.0	19.8	0	0	1033	1032	-1	0.13	0.0	15.5	3.26
26/05/2023 10:07	0.2	0.0	19.9	0	0	1033	1032	-1	0.13	0.0	15.9	3.26
26/05/2023 11:07	0.2	0.0	19.9	0	0	1033	1032	-1	0.13	0.0	16.2	3.26
26/05/2023 12:07	0.2	0.0	19.9	0	0	1033	1032	-1	0.13	0.0	16.6	3.26
26/05/2023 13:07	0.2	0.0	19.9	0	0	1033	1032	-1	0.13	0.0	17.0	3.26
26/05/2023 14:07	0.2	0.0	19.9	0	0	1033	1032	-1	0.13	0.0	17.4	3.26
26/05/2023 15:07	0.2	0.0	20.0	0	0	1033	1031	-2	-0.13	0.0	18.0	3.26
26/05/2023 16:07	0.2	0.0	20.0	0	0	1032	1031	-1	-0.13	0.0	18.5	3.25
26/05/2023 17:07	0.2	0.0	20.0	0	0	1032	1031	-1	-0.13	0.0	18.9	3.26
26/05/2023 18:07	0.3	0.0	20.1	0	0	1031	1031	0	-0.13	0.0	19.3	3.25
26/05/2023 19:07	0.2	0.0	20.1	0	0	1031	1030	-1	-0.25	0.0	19.4	3.26
26/05/2023 20:07	0.2	0.0	20.1	0	0	1031	1030	-1	-0.25	0.0	19.4	3.26
26/05/2023 21:07	0.2	0.0	20.1	0	0	1031	1030	-1	-0.25	0.0	19.2	3.26
26/05/2023 22:07	0.2	0.0	20.0	0	0	1031	1030	-1	-0.13	0.0	18.9	3.26
26/05/2023 23:07	0.2	0.0	20.0	0	0	1031	1030	-1	-0.13	0.0	18.5	3.25
27/05/2023 00:07	0.2	0.0	20.0	0	0	1030	1029	-1	-0.25	0.0	18.1	3.25
27/05/2023 01:07	0.2	0.0	20.0	0	0	1030	1029	-1	-0.25	0.0	17.8	3.25
27/05/2023 02:07	0.2	0.0	20.0	0	0	1029	1028	-1	-0.25	0.0	17.4	3.25
27/05/2023 03:07	0.2	0.0	19.9	0	0	1029	1028	-1	-0.25	0.0	17.1	3.25
27/05/2023 04:07	0.2	0.0	19.9	0	0	1028	1027	-1	-0.38	0.0	16.8	3.25
27/05/2023 05:07	0.2	0.0	19.9	0	0	1028	1027	-1	-0.38	0.0	16.4	3.25
27/05/2023 06:07	0.2	0.0	19.9	0	0	1027	1026	-1	-0.50	0.0	16.0	3.25
27/05/2023 07:07	0.2	0.0	19.8	0	0	1027	1026	-1	-0.38	0.0	15.8	3.25
27/05/2023 08:07	0.2	0.0	19.8	0	0	1026	1025	-1	-0.50	0.0	15.8	3.26
27/05/2023 09:07	0.2	0.0	19.8	0	0	1026	1025	-1	-0.38	0.0	15.9	3.26
27/05/2023 10:07	0.2	0.0	19.8	0	0	1026	1025	-1	-0.38	0.0	16.0	3.25
27/05/2023 11:07	0.2	0.0	19.9	0	0	1026	1025	-1	-0.25	0.0	16.2	3.25
27/05/2023 12:07	0.2	0.0	19.9	0	0	1025	1024	-1</				

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Presssure mbar	Atmospheric Pressure mbar	Differential Presssure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
28/05/2023 06:07	0.2	0.0	19.8	0	0	1027	1026	-1	0.13	0.0	15.2	3.26
28/05/2023 07:07	0.2	0.0	19.8	0	0	1027	1026	-1	0.13	0.0	15.0	3.26
28/05/2023 08:07	0.2	0.0	19.8	0	0	1027	1026	-1	0.13	0.0	15.0	3.26
28/05/2023 09:07	0.3	0.0	19.8	0	0	1028	1027	-1	0.25	0.0	15.2	3.26
28/05/2023 10:07	0.2	0.0	19.8	0	0	1028	1027	-1	0.25	0.0	15.6	3.25
28/05/2023 11:07	0.3	0.0	19.8	0	0	1028	1027	-1	0.25	0.0	15.9	3.26
28/05/2023 12:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.25	0.0	16.3	3.26
28/05/2023 13:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	16.6	3.25
28/05/2023 14:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	16.9	3.26
28/05/2023 15:07	0.2	0.0	19.9	0	0	1028	1027	-1	0.13	0.0	17.3	3.26
28/05/2023 16:07	0.2	0.0	20.0	0	0	1028	1027	-1	0.00	0.0	17.8	3.25
28/05/2023 17:07	0.2	0.0	20.0	0	0	1028	1027	-1	0.00	0.0	18.1	3.26
28/05/2023 18:07	0.2	0.0	20.0	0	0	1028	1027	-1	0.00	0.0	18.3	3.26
28/05/2023 19:07	0.3	0.0	20.0	0	0	1028	1027	-1	0.00	0.0	18.3	3.26
28/05/2023 20:07	0.2	0.0	20.0	0	0	1028	1027	-1	0.00	0.0	18.2	3.26
28/05/2023 21:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.13	0.0	18.0	3.26
28/05/2023 22:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.13	0.0	17.7	3.26
28/05/2023 23:07	0.2	0.0	20.0	0	0	1029	1028	-1	0.13	0.0	17.4	3.26
29/05/2023 00:07	0.3	0.0	19.9	0	0	1029	1028	-1	0.13	0.0	17.1	3.26
29/05/2023 01:07	0.2	0.0	19.9	0	0	1029	1028	-1	0.13	0.0	16.8	3.26
29/05/2023 02:07	0.2	0.0	19.9	0	0	1029	1028	-1	0.13	0.0	16.3	3.25
29/05/2023 03:07	0.3	0.0	19.9	0	0	1029	1028	-1	0.13	0.0	16.0	3.26
29/05/2023 04:07	0.2	0.0	19.9	0	0	1030	1029	-1	0.13	0.0	15.7	3.26
29/05/2023 05:07	0.2	0.0	19.9	0	0	1030	1029	-1	0.13	0.0	15.4	3.26
29/05/2023 06:07	0.2	0.0	19.9	0	0	1030	1029	-1	0.13	0.0	15.1	3.26
29/05/2023 07:07	0.2	0.0	19.9	0	0	1030	1029	-1	0.13	0.0	14.9	3.26
29/05/2023 08:07	0.2	0.0	19.9	0	0	1031	1030	-1	0.25	0.0	14.9	3.26
29/05/2023 09:07	0.2	0.0	19.9	0	0	1031	1030	-1	0.25	0.0	15.1	3.26
29/05/2023 10:07	0.2	0.0	19.9	0	0	1031	1030	-1	0.25	0.0	15.5	3.26
29/05/2023 11:07	0.3	0.0	19.9	0	0	1031	1030	-1	0.13	0.0	16.0	3.25
29/05/2023 12:07	0.2	0.0	20.0	0	0	1031	1030	-1	0.13	0.0	16.6	3.26
29/05/2023 13:07	0.2	0.0	20.0	0	0	1031	1030	-1	0.13	0.0	17.1	3.26
29/05/2023 14:07	0.2	0.0	20.0	0	0	1031	1030	-1	0.13	0.0	17.6	3.26
29/05/2023 15:07	0.2	0.0	20.0	0	0	1031	1030	-1	0.00	0.0	18.1	3.26
29/05/2023 16:07	0.2	0.0	20.1	0	0	1031	1030	-1	0.00	0.0	18.4	3.26
29/05/2023 17:07	0.2	0.0	20.1	0	0	1031	1030	-1	0.00	0.0	18.8	3.26
29/05/2023 18:07	0.2	0.0	20.1	0	0	1031	1030	-1	0.00	0.0	19.1	3.26
29/05/2023 19:07	0.2	0.0	20.1	0	0	1031	1030	-1	0.00	0.0	19.3	3.26
29/05/2023 20:07	0.2	0.0	20.1	0	0	1031	1030	-1	0.00	0.0	19.4	3.26
29/05/2023 21:07	0.2	0.0	20.1	0	0	1031	1030	-1	0.00	0.0	19.3	3.26
29/05/2023 22:07	0.3	0.0	20.1	0	0	1032	1031	-1	0.13	0.0	18.9	3.26
29/05/2023 23:07	0.2	0.0	20.1	0	0	1032	1031	-1	0.13	0.0	18.6	3.26
30/05/2023 00:07	0.3	0.0	20.1	0	0	1032	1031	-1	0.13	0.0	18.2	3.26
30/05/2023 01:07	0.2	0.0	20.0	0	0	1032	1031	-1	0.13	0.0	17.8	3.26
30/05/2023 02:07	0.2	0.0	20.0	0	0	1032	1031	-1	0.13	0.0	17.4	3.26
30/05/2023 03:07	0.2	0.0	20.0	0	0	1032	1031	-1	0.13	0.0	17.1	3.26
30/05/2023 04:07	0.2	0.0	20.0	0	0	1032	1031	-1	0.13	0.0	16.8	3.26
30/05/2023 05:07	0.2	0.0	19.9	0	0	1032	1031	-1	0.00	0.0	16.6	3.26
30/05/2023 06:07	0.2	0.0	19.9	0	0	1033	1031	-2	0.00	0.0	16.4	3.26
30/05/2023 07:07	0.2	0.0	19.9	0	0	1033	1032	-1	0.13	0.0	16.2	3.26
30/05/2023 08:07	0.2	0.0	19.9	0	0	1033	1032	-1	0.13	0.0	16.2	3.26
30/05/2023 09:07	0.2	0.0	19.9	0	0	1033	1032	-1	0.13	0.0	16.3	3.26
30/05/2023 10:07	0.2	0.0	19.9	0	0	1033	1032	-1	0.13	0.0	16.6	3.26
30/05/2023 11:07	0.2	0.0	19.9	0	0	1033	1032	-1	0.13	0.0	17.1	3.26
30/05/2023 12:07	0.2	0.0	20.0	0	0	1033	1032	-1	0.13	0.0	17.6	3.26
30/05/2023 13:07	0.2	0.0	20.0	0	0	1033	1032	-1	0.13	0.0	18.1	3.25
30/05/2023 14:07	0.2	0.0	20.0	0	0	1033	1032	-1	0.00	0.0	18.6	3.25
30/05/2023 15:07	0.2	0.0	20.1	0	0	1032	1031	-1	-0.13	0.0	19.2	3.26
30/05/2023 16:07	0.2	0.0	20.1	0	0	1032	1031	-1	-0.13	0.0	19.6	3.26
30/05/2023 17:07	0.2	0.0	20.1	0	0	1032	1031	-1	-0.13	0.0	20.0	3.26
30/05/2023 18:07	0.2	0.0	20.1	1	0	1032	1031	-1	-0.13	0.0	20.3	3.25
30/05/2023 19:07	0.2	0.0	20.1	0	0	1031	1030	-1	-0.25	0.0	20.4	3.26
30/05/2023 20:07	0.2	0.0	20.2	0	0	1031	1030	-1	-0.25	0.0	20.5	3.25
30/05/2023 21:07	0.2	0.0	20.1	0	0	1031	1030	-1	-0.25	0.0	20.4	3.26
30/05/2023 22:07	0.2	0.0	20.1	0	0	1031	1030	-1	-0.13	0.0	20.1	3.26
30/05/2023 23:07	0.2	0.0	20.1	0	0	1031	1030	-1	-0.13	0.0	19.8	3.26
31/05/2023 00:07	0.2	0.0	20.1	2	0	1031	1030	-1	-0.13	0.0	19.3	3.26
31/05/2023 01:07	0.2	0.0	20.1	0	0	1031	1030	-1	-0.13	0.0	18.9	3.26
31/05/2023 02:07	0.2	0.0	20.0	0	0	1031	1030	-1	0.00	0.0	18.6	3.26
31/05/2023 03:07	0.2	0.0	20.0	1	0	1032	1031	-1	0.13	0.0	18.2	3.25
31/05/2023 04:07	0.3	0.0	20.0	0	0	1032	1031	-1	0.13	0.0	17.9	3.26
31/05/2023 05:07	0.2	0.0	20.0	0	0	1032	1031	-1	0.13	0.0	17.6	3.26
31/05/2023 06:07	0.2	0.0	20.0	0	0	1032	1031	-1	0.13	0.0	17.3	3.26
31/05/2023 07:07	0.2	0.0	19.9	0	0	1032	1031	-1	0.13	0.0	17.1	3.25
31/05/2023 08:07	0.2	0.0	19.9	0	0	1032	1031	-1	0.13	0.0	17.0	3.26
31/05/2023 09:07	0.2	0.0	19.9	0	0	1032	1031	-1	0.13	0.0	17.0	3.25
31/05/2023 10:07	0.2	0.0	19.9	0	0	1031	1030	-1	-0.13	0.0	17.1	3.25

Time Series Data

Project Ref:	GG3244
Project Name:	Ardrossan Academy, Ardrossan
Borehole ref:	EC-BH17
Instrument Name and ID:	GC 123/03/10, FD0018
Start Date:	04/05/2023 16:36
End Date:	28/05/2023 00:36
Days of monitoring:	23
Monitoring Frequency (mins):	60
Total samples taken:	561



Summary Table

	CH ₄	CO ₂	O ₂	CO	H ₂ S	Borehole Pressure	Atmospheric Pressure	Differential Pressure	Average 8-hour atmospheric pressure change	Flow	Temperature	Water Level
Minimum	0.2	0.0	16.6	0	0	1004	1005	0	-0.50	0.0	9.1	3.14
Maximum	0.3	0.0	21.2	6	0	1031	1031	1	0.75	0.0	15.1	3.44
Range	0.1	0.0	4.6	6	0	27	26	N/A	1.25	0.0	6.0	0.30

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
04/05/2023 16:36	0.2	0.0	21.2	4	0	1012	1012	0	N/A	0.0	15.1	3.44
04/05/2023 17:36	0.2	0.0	17.6	3	0	1011	1012	1	N/A	0.0	12.8	3.18
04/05/2023 18:36	0.2	0.0	17.1	2	0	1011	1011	0	N/A	0.0	11.8	3.19
04/05/2023 19:36	0.2	0.0	17.0	5	0	1011	1012	1	N/A	0.0	11.3	3.20
04/05/2023 20:36	0.2	0.0	17.0	4	0	1011	1011	0	N/A	0.0	11.0	3.21
04/05/2023 21:36	0.2	0.0	17.0	5	0	1011	1011	0	N/A	0.0	10.7	3.21
04/05/2023 22:36	0.2	0.0	17.0	3	0	1010	1011	1	N/A	0.0	10.4	3.20
04/05/2023 23:36	0.2	0.0	16.9	5	0	1010	1010	0	N/A	0.0	10.1	3.20
05/05/2023 00:36	0.2	0.0	16.9	5	0	1009	1010	1	-0.25	0.0	9.9	3.20
05/05/2023 01:36	0.2	0.0	16.8	6	0	1009	1009	0	-0.25	0.0	9.6	3.17
05/05/2023 02:36	0.2	0.0	16.8	4	0	1008	1008	0	-0.50	0.0	9.5	3.16
05/05/2023 03:36	0.2	0.0	16.8	4	0	1007	1008	1	-0.38	0.0	9.4	3.16
05/05/2023 04:36	0.2	0.0	16.8	5	0	1007	1007	0	-0.50	0.0	9.3	3.15
05/05/2023 05:36	0.2	0.0	16.7	3	0	1006	1007	1	-0.50	0.0	9.1	3.16
05/05/2023 06:36	0.2	0.0	16.7	3	0	1006	1006	0	-0.50	0.0	9.1	3.16
05/05/2023 07:36	0.2	0.0	16.7	4	0	1006	1006	0	-0.50	0.0	9.1	3.17
05/05/2023 08:36	0.2	0.0	16.7	5	0	1006	1006	0	-0.38	0.0	9.1	3.18
05/05/2023 09:36	0.2	0.0	16.7	4	0	1006	1007	1	-0.13	0.0	9.1	3.19
05/05/2023 10:36	0.2	0.0	16.7	4	0	1007	1007	0	-0.13	0.0	9.1	3.20
05/05/2023 11:36	0.2	0.0	16.7	3	0	1007	1007	0	0.00	0.0	9.2	3.20
05/05/2023 12:36	0.2	0.0	16.6	4	0	1007	1007	0	0.00	0.0	9.4	3.18
05/05/2023 13:36	0.2	0.0	16.6	4	0	1007	1007	0	0.13	0.0	9.6	3.18
05/05/2023 14:36	0.2	0.0	16.6	4	0	1007	1007	0	0.13	0.0	9.9	3.17
05/05/2023 15:36	0.2	0.0	16.6	5	0	1007	1007	0	0.13	0.0	10.2	3.16
05/05/2023 16:36	0.2	0.0	16.6	5	0	1007	1007	0	0.00	0.0	10.5	3.16
05/05/2023 17:36	0.2	0.0	16.6	4	0	1007	1007	0	0.00	0.0	10.8	3.16
05/05/2023 18:36	0.2	0.0	16.7	4	0	1007	1007	0	0.00	0.0	11.1	3.17
05/05/2023 19:36	0.2	0.0	16.7	4	0	1007	1007	0	0.00	0.0	11.3	3.18
05/05/2023 20:36	0.2	0.0	17.9	6	0	1008	1008	0	0.13	0.0	11.3	3.19
05/05/2023 21:36	0.2	0.0	18.8	3	0	1008	1008	0	0.13	0.0	11.3	3.19
05/05/2023 22:36	0.3	0.0	18.7	4	0	1008	1009	1	0.25	0.0	11.2	3.20
05/05/2023 23:36	0.2	0.0	17.7	4	0	1008	1009	1	0.25	0.0	11.1	3.20
06/05/2023 00:36	0.3	0.0	17.2	4	0	1008	1009	1	0.25	0.0	10.9	3.19
06/05/2023 01:36	0.2	0.0	16.9	6	0	1008	1009	1	0.25	0.0	10.8	3.19
06/05/2023 02:36	0.2	0.0	16.9	5	0	1008	1009	1	0.25	0.0	10.6	3.17
06/05/2023 03:36	0.2	0.0	16.8	2	0	1008	1009	1	0.13	0.0	10.4	3.16
06/05/2023 04:36	0.2	0.0	16.8	4	0	1008	1009	1	0.13	0.0	10.3	3.16
06/05/2023 05:36	0.2	0.0	16.8	4	0	1008	1009	1	0.00	0.0	10.2	3.16
06/05/2023 06:36	0.2	0.0	16.8	4	0	1009	1009	0	0.00	0.0	10.1	3.17
06/05/2023 07:36	0.2	0.0	16.8	5	0	1009	1009	0	0.00	0.0	10.0	3.18
06/05/2023 08:36	0.2	0.0	16.8	4	0	1009	1010	1	0.13	0.0	10.0	3.18
06/05/2023 09:36	0.2	0.0	16.7	2	0	1009	1010	1	0.13	0.0	10.1	3.19
06/05/2023 10:36	0.2	0.0	16.7	4	0	1009	1010	1	0.13	0.0	10.1	3.19
06/05/2023 11:36	0.2	0.0	16.7	5	0	1009	1009	0	0.00	0.0	10.3	3.20
06/05/2023 12:36	0.2	0.0	16.8	5	0	1009	1009	0	0.00	0.0	10.5	3.20
06/05/2023 13:36	0.2	0.0	16.8	4	0	1009	1009	0	0.00	0.0	10.7	3.19
06/05/2023 14:36	0.2	0.0	17.4	5	0	1009	1010	1	0.13	0.0	11.0	3.17
06/05/2023 15:36	0.2	0.0	17.2	3	0	1009	1009	0	-0.13	0.0	11.3	3.16
06/05/2023 16:36	0.2	0.0	17.0	1	0	1009	1009	0	-0.13	0.0	11.5	3.16
06/05/2023 17:36	0.2	0.0	17.0	2	0	1009	1009	0	-0.13	0.0	11.8	3.16
06/05/2023 18:36	0.2	0.0	17.0	3	0	1009	1009	0	0.00	0.0	11.9	3.16
06/05/2023 19:36	0.2	0.0	17.2	4	0	1009	1009	0	0.00	0.0	11.9	3.17
06/05/2023 20:36	0.2	0.0	17.7	1	0	1009	1009	0	0.00	0.0	12.0	3.18
06/05/2023 21:36	0.2	0.0	17.5	2	0	1009	1009	0	-0.13	0.0	11.9	3.18
06/05/2023 22:36	0.2	0.0	17.2	2	0	1009	1010	1	0.13	0.0	11.8	3.19
06/05/2023 23:36	0.2	0.0	17.1	2	0	1010	1010	0	0.13	0.0	11.6	3.20
07/05/2023 00:36	0.2	0.0	17.0	2	0	1010	1010	0	0.13	0.0	11.4	3.20
07/05/2023 01:36	0.2	0.0	17.0	1	0	1011	1011	0	0.25	0.0	11.2	3.20
07/05/2023 02:36	0.2	0.0	16.9	2	0	1011	1011	0	0.25	0.0	11.0	3.19
07/05/2023 03:36	0.2	0.0	16.9	1	0	1011	1011	0	0.25	0.0	10.8	3.17
07/05/2023 04:36	0.3	0.0	16.9	2	0	1011	1011	0	0.25	0.0	10.7	3.16
07/05/2023 05:36	0.2	0.0	16.9	2	0	1011	1011	0	0.13	0.0	10.5	3.16
07/05/2023 06:36	0.2	0.0	16.9	2	0	1011	1012	1	0.25	0.0	10.4	3.17
07/05/2023 07:36	0.2	0.0	16.9	2	0	1011	1012	1	0.25	0.0	10.3	3.18
07/05/2023 08:36	0.2	0.0	16.8	2	0	1012	1012	0	0.13	0.0	10.3	3.18
07/05/2023 09:36	0.2	0.0	16.8	2	0	1012	1013	1	0.25	0.0	10.4	3.19
07/05/2023 10:36	0.2	0.0	16.8	2	0	1013	1013	0	0.25	0.0	10.4	3.19
07/05/2023 11:36	0.2	0.0	16.8	2	0	1012	1013	1	0.25	0.0	10.6	3.20
07/05/2023 12:36	0.2	0.0	16.8	2	0	1013	1013	0	0.25	0.0	10.9	3.20
07/05/2023 13:36	0.2	0.0	16.8	0	0	1012	1013	1	0.13	0.0	11.3	3.20
07/05/2023 14:36	0.2	0.0	16.8	2	0	1013	1013	0	0.13	0.0	11.6	3.19
07/05/2023 15:36	0.2	0.0	16.8	1	0	1013	1013	0	0.13	0.0	12.0	3.17
07/05/2023 16:36	0.2	0.0	16.8	2	0	1012	1013	1	0.00	0.0	12.3	3.16
07/05/2023 17:36	0.2	0.0	16.8	0	0	1012	1012	0	-0.13	0.0	12.6	3.16
07/05/2023 18:36	0.2	0.0	16.8	0	0	1012	1012	0	-0.13	0.0	12.9	3.16
07/05/2023 19:36	0.2	0.0	16.9	0	0	1012	1012	0	-0.13	0.0	13.0	3.17
07/05/2023 20:36	0.2	0.0	17.0	0	0	1012	1013	1	0.00	0.0	12.9	3.17
07/05/2023 21:36	0.2	0.0	17.1	0	0	1012	1012	0	-0.13	0.0	12.8	3.18
07/05/2023 22:36	0.2	0.0	17.1	1	0	1012	1012	0	-0.13	0.0	12.6	3.18
07/05/2023 23:36	0.2	0.0	17.1	1	0	1011	1012	1	-0.13	0.0	12.4	3.18
08/05/2023 00:36	0.2	0.0	17.0	1	0	1011	1011	0	-0.13	0.0	12.2	3.18
08/05/2023 01:36	0.2	0.0	17.0	0	0	1011	1011	0	-0.13	0.0	12.1	3.17
08/05/2023 02:36	0.2	0.0	17.0	0	0	1010	1010	0	-0.25	0.0	11.9	3.16
08/05/2023 03:36	0.2	0.0	17.0	0	0	1009	1009	0	-0.50	0.0	11.8	3.15
08/05/2023 04:36	0.2	0.0	17.0	0	0	1009	1009	0	-0.38	0.0	11.6	3.14
08/05/2023 05:36	0.2	0.0	17.0	1	0	1008	1009	1	-0.38	0.0	11.5	3.14
08/05/2023 06:36	0.2	0.0	17.0	0	0	1008	1008	0	-0.50	0.0	11.4	3.14
08/05/2023 07:36	0.2	0.0	17.0	0	0	1008	1008	0	-0.38	0.0	11.3	3.14
08/05/2023 08:36	0.2	0.0	17.0	0	0	1008	1008	0	-0.38	0.0	11.3	3.15
08/05/2023 09:36	0.2	0.0	17.0	0	0	1008	1008	0	-0.25	0.0	11.2	3.15
08/05/2023 10:36	0.2	0.0	16.9	1	0	1007	1008	1	-0.13	0.0	11.1	3.16
08/05/2023 11:36	0.2	0.0	17.0	0	0	1008	1008	0	-0.13	0.0	11.1	3.17
08/05/2023 12:36	0.2	0.0	17.0	0	0	1008	1008	0	-0.13	0.0	11.1	3.18
08/05/2023 13:36	0.2	0.0	17.0	0	0	1008	1008	0	0.00	0.0	11.1	3.

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
08/05/2023 14:36	0.2	0.0	17.0	0	0	1008	1008	0	0.00	0.0	11.2	3.17
08/05/2023 15:36	0.2	0.0	16.9	0	0	1008	1008	0	0.00	0.0	11.2	3.16
08/05/2023 16:36	0.2	0.0	16.9	0	0	1008	1008	0	0.00	0.0	11.3	3.14
08/05/2023 17:36	0.2	0.0	16.9	0	0	1007	1007	0	-0.13	0.0	11.3	3.14
08/05/2023 18:36	0.2	0.0	16.9	0	0	1007	1008	1	0.00	0.0	11.3	3.14
08/05/2023 19:36	0.2	0.0	17.0	0	0	1007	1008	1	0.00	0.0	11.4	3.14
08/05/2023 20:36	0.2	0.0	18.6	0	0	1007	1008	1	0.00	0.0	11.4	3.16
08/05/2023 21:36	0.2	0.0	19.7	0	0	1008	1009	1	0.13	0.0	11.4	3.15
08/05/2023 22:36	0.2	0.0	17.2	0	0	1007	1007	0	-0.13	0.0	11.4	3.16
08/05/2023 23:36	0.2	0.0	18.1	0	0	1007	1008	1	0.00	0.0	11.3	3.16
09/05/2023 00:36	0.2	0.0	17.4	0	0	1007	1007	0	0.00	0.0	11.3	3.17
09/05/2023 01:36	0.2	0.0	17.2	0	0	1007	1007	0	-0.13	0.0	11.2	3.17
09/05/2023 02:36	0.2	0.0	17.0	0	0	1007	1007	0	-0.13	0.0	11.1	3.17
09/05/2023 03:36	0.2	0.0	17.0	0	0	1007	1007	0	-0.13	0.0	11.1	3.16
09/05/2023 04:36	0.2	0.0	17.0	0	0	1007	1007	0	-0.25	0.0	11.1	3.15
09/05/2023 05:36	0.2	0.0	17.0	0	0	1007	1007	0	0.00	0.0	10.9	3.14
09/05/2023 06:36	0.2	0.0	17.0	0	0	1007	1007	0	-0.13	0.0	10.9	3.14
09/05/2023 07:36	0.2	0.0	17.0	0	0	1006	1007	1	0.00	0.0	10.8	3.14
09/05/2023 08:36	0.2	0.0	16.9	0	0	1006	1006	0	-0.13	0.0	10.8	3.14
09/05/2023 09:36	0.2	0.0	16.9	0	0	1006	1007	1	0.00	0.0	10.9	3.15
09/05/2023 10:36	0.2	0.0	16.9	0	0	1007	1007	0	0.00	0.0	11.1	3.16
09/05/2023 11:36	0.2	0.0	16.9	0	0	1006	1007	1	0.00	0.0	11.3	3.16
09/05/2023 12:36	0.2	0.0	16.9	0	0	1006	1006	0	-0.13	0.0	11.4	3.16
09/05/2023 13:36	0.2	0.0	16.9	0	0	1006	1006	0	-0.13	0.0	11.5	3.17
09/05/2023 14:36	0.2	0.0	16.9	0	0	1006	1006	0	-0.13	0.0	11.6	3.17
09/05/2023 15:36	0.2	0.0	16.9	0	0	1006	1006	0	0.00	0.0	11.9	3.16
09/05/2023 16:36	0.2	0.0	16.9	0	0	1005	1006	1	-0.13	0.0	12.1	3.16
09/05/2023 17:36	0.2	0.0	16.9	0	0	1006	1006	0	-0.13	0.0	12.4	3.15
09/05/2023 18:36	0.2	0.0	16.9	0	0	1005	1006	1	-0.13	0.0	12.6	3.14
09/05/2023 19:36	0.2	0.0	17.0	0	0	1005	1005	0	-0.13	0.0	12.7	3.14
09/05/2023 20:36	0.2	0.0	17.1	0	0	1006	1006	0	0.00	0.0	12.6	3.15
09/05/2023 21:36	0.2	0.0	17.3	0	0	1006	1006	0	0.00	0.0	12.5	3.15
09/05/2023 22:36	0.2	0.0	17.5	0	0	1006	1006	0	0.00	0.0	12.3	3.16
09/05/2023 23:36	0.2	0.0	17.2	0	0	1005	1006	1	0.00	0.0	12.2	3.16
10/05/2023 00:36	0.2	0.0	17.1	0	0	1005	1005	0	-0.13	0.0	12.1	3.16
10/05/2023 01:36	0.2	0.0	17.1	0	0	1005	1005	0	-0.13	0.0	11.9	3.17
10/05/2023 02:36	0.2	0.0	17.0	0	0	1005	1005	0	0.00	0.0	11.8	3.17
10/05/2023 03:36	0.2	0.0	17.0	0	0	1004	1005	1	-0.13	0.0	11.7	3.16
10/05/2023 04:36	0.2	0.0	17.0	0	0	1004	1005	1	-0.13	0.0	11.6	3.15
10/05/2023 05:36	0.2	0.0	17.0	0	0	1004	1005	1	-0.13	0.0	11.4	3.14
10/05/2023 06:36	0.2	0.0	17.0	0	0	1004	1005	1	-0.13	0.0	11.4	3.14
10/05/2023 07:36	0.2	0.0	17.0	0	0	1004	1005	1	0.00	0.0	11.3	3.14
10/05/2023 08:36	0.2	0.0	16.9	0	0	1004	1005	1	0.00	0.0	11.2	3.15
10/05/2023 09:36	0.2	0.0	17.0	0	0	1005	1005	0	0.00	0.0	11.2	3.15
10/05/2023 10:36	0.2	0.0	16.9	0	0	1005	1005	0	0.00	0.0	11.2	3.15
10/05/2023 11:36	0.2	0.0	16.9	0	0	1005	1005	0	0.00	0.0	11.2	3.16
10/05/2023 12:36	0.2	0.0	16.9	0	0	1005	1005	0	0.00	0.0	11.3	3.16
10/05/2023 13:36	0.2	0.0	16.9	0	0	1005	1005	0	0.00	0.0	11.4	3.17
10/05/2023 14:36	0.2	0.0	16.9	0	0	1005	1005	0	0.00	0.0	11.6	3.18
10/05/2023 15:36	0.2	0.0	16.9	0	0	1005	1005	0	0.00	0.0	11.8	3.18
10/05/2023 16:36	0.2	0.0	16.9	0	0	1005	1005	0	0.00	0.0	12.0	3.18
10/05/2023 17:36	0.2	0.0	16.9	0	0	1006	1006	0	0.13	0.0	12.1	3.17
10/05/2023 18:36	0.2	0.0	18.5	0	0	1006	1006	0	0.13	0.0	12.3	3.16
10/05/2023 19:36	0.2	0.0	18.9	0	0	1006	1006	0	0.13	0.0	12.4	3.16
10/05/2023 20:36	0.2	0.0	18.4	0	0	1007	1007	0	0.25	0.0	12.5	3.16
10/05/2023 21:36	0.2	0.0	17.7	0	0	1007	1007	0	0.25	0.0	12.4	3.16
10/05/2023 22:36	0.2	0.0	17.5	0	0	1007	1007	0	0.25	0.0	12.2	3.16
10/05/2023 23:36	0.2	0.0	17.5	0	0	1007	1007	0	0.25	0.0	12.0	3.17
11/05/2023 00:36	0.2	0.0	17.4	0	0	1007	1007	0	0.13	0.0	11.9	3.17
11/05/2023 01:36	0.2	0.0	17.4	0	0	1007	1008	1	0.25	0.0	11.7	3.18
11/05/2023 02:36	0.2	0.0	17.2	0	0	1007	1008	1	0.25	0.0	11.6	3.19
11/05/2023 03:36	0.2	0.0	17.0	0	0	1008	1008	0	0.13	0.0	11.4	3.19
11/05/2023 04:36	0.2	0.0	17.0	0	0	1008	1009	1	0.25	0.0	11.3	3.19
11/05/2023 05:36	0.2	0.0	17.0	0	0	1009	1009	0	0.25	0.0	11.3	3.16
11/05/2023 06:36	0.2	0.0	17.0	0	0	1009	1009	0	0.25	0.0	11.1	3.16
11/05/2023 07:36	0.2	0.0	19.3	0	0	1010	1010	0	0.38	0.0	11.1	3.16
11/05/2023 08:36	0.2	0.0	19.6	0	0	1011	1011	0	0.38	0.0	11.1	3.17
11/05/2023 09:36	0.2	0.0	19.7	0	0	1011	1012	1	0.50	0.0	11.1	3.17
11/05/2023 10:36	0.2	0.0	19.6	0	0	1012	1012	0	0.50	0.0	11.1	3.18
11/05/2023 11:36	0.2	0.0	20.5	0	0	1013	1013	0	0.50	0.0	11.3	3.19
11/05/2023 12:36	0.2	0.0	20.7	0	0	1013	1014	1	0.63	0.0	11.4	3.19
11/05/2023 13:36	0.2	0.0	20.7	0	0	1014	1014	0	0.63	0.0	11.6	3.20
11/05/2023 14:36	0.2	0.0	20.8	0	0	1014	1015	1	0.63	0.0	11.7	3.21
11/05/2023 15:36	0.2	0.0	20.8	0	0	1015	1015	0	0.50	0.0	11.9	3.21
11/05/2023 16:36	0.2	0.0	20.8	0	0	1015	1016	1	0.50	0.0	12.1	3.22
11/05/2023 17:36	0.2	0.0	20.9	0	0	1017	1017	0	0.63	0.0	12.2	3.21
11/05/2023 18:36	0.2	0.0	20.8	0	0	1017	1017	0	0.50	0.0	12.3	3.20
11/05/2023 19:36	0.2	0.0	20.9	0	0	1018	1018	0	0.50	0.0	12.4	3.19
11/05/2023 20:36	0.2	0.0	20.9	0	0	1019	1019	0	0.63	0.0	12.6	3.20
11/05/2023 21:36	0.2	0.0	21.0	0	0	1020	1020	0	0.63	0.0	12.6	3.20
11/05/2023 22:36	0.2	0.0	21.0	0	0	1020	1021	1	0.75	0.0	12.4	3.20
11/05/2023 23:36	0.2	0.0	21.0	0	0	1021	1022	1	0.75	0.0	12.3	3.21
12/05/2023 00:36	0.2	0.0	21.1	0	0	1023	1023	0	0.75	0.0	12.1	3.21
12/05/2023 01:36	0.2	0.0	21.0	0	0	1023	1023	0	0.75	0.0	11.9	3.22
12/05/2023 02:36	0.2	0.0	20.9	0	0	1024	1024	0	0.75	0.0	11.8	3.22
12/05/2023 03:36	0.2	0.0	20.6	0	0	1024	1024	0	0.63	0.0	11.6	3.22
12/05/2023 04:36	0.2	0.0	20.6	0	0	1024	1025	1	0.63	0.0	11.5	3.22
12/05/2023 05:36	0.2	0.0	20.6	0	0	1025	1025	0	0.50	0.0	11.4	3.21
12/05/2023 06:36	0.2	0.0	20.8	0	0	1025	1026	1	0.50	0.0	11.3	3.20
12/05/2023 07:36	0.2	0.0	20.5	0	0	1026	1026	0	0.38	0.0	11.2	3.19
12/05/2023 08:36	0.2	0.0	19.9	0	0	1026	1026	0	0.38	0.0	11.2	3.19
12/05/2023 09:36	0.2	0.0	19.5	0	0	1027	1027	0	0.38	0.0	11.2	3.19
12/05/2023 10:36	0.2	0.0	19.1	0	0	1027	1027	0	0.38	0.0	11.3	3.20
12/05/2023 11:36	0.2	0.0	18.4	0	0	1027	1027	0	0.25	0.0	11.4	3.20
12/05/2023 12:36	0.2	0.0	17.8	0	0	1027	1028	1	0.38	0.0	11.6	3.21
12/05/2023 13:36	0.2	0.0	17.4	1	0	1027	1027	0	0.13	0.0	11.8	3.21
12/05/2023 14:36	0.2	0.0	17.2	0	0	1027	1027	0	0.13	0.0	12.1	3.21
12/05/2023 15:36	0.2	0.0	17.1	0	0	1027	1027	0	0.13	0.0	12.3	3.22
12/05/2023 16:36	0.2	0.0	17.0	0	0	1027	1027	0	0.00	0.0	12.6	3.22
12/05/2023 17:36	0.2	0.0	16.9	0	0	1026	1027	1	0.00	0.0	12.8	3.22
12/05/2023 18:36	0.2	0.0	16.9	0	0	1026	1027	1</				

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
13/05/2023 12:36	0.2	0.0	17.0	0	0	1025	1026	1	-0.13	0.0	11.4	3.19
13/05/2023 13:36	0.2	0.0	16.9	0	0	1025	1025	0	-0.25	0.0	11.6	3.20
13/05/2023 14:36	0.3	0.0	16.8	0	0	1024	1025	1	-0.25	0.0	11.8	3.20
13/05/2023 15:36	0.2	0.0	16.8	0	0	1024	1024	0	-0.38	0.0	12.1	3.21
13/05/2023 16:36	0.2	0.0	16.8	0	0	1023	1023	0	-0.38	0.0	12.3	3.20
13/05/2023 17:36	0.2	0.0	16.7	0	0	1022	1022	0	-0.50	0.0	12.4	3.20
13/05/2023 18:36	0.2	0.0	16.8	0	0	1022	1022	0	-0.50	0.0	12.4	3.21
13/05/2023 19:36	0.2	0.0	16.8	0	0	1021	1022	1	-0.50	0.0	12.4	3.21
13/05/2023 20:36	0.2	0.0	16.9	0	0	1021	1021	0	-0.50	0.0	12.3	3.20
13/05/2023 21:36	0.2	0.0	16.9	0	0	1021	1021	0	-0.50	0.0	12.2	3.20
13/05/2023 22:36	0.2	0.0	16.8	0	0	1021	1021	0	-0.38	0.0	12.1	3.19
13/05/2023 23:36	0.3	0.0	16.9	0	0	1020	1020	0	-0.38	0.0	11.9	3.19
14/05/2023 00:36	0.2	0.0	16.8	0	0	1019	1019	0	-0.38	0.0	11.8	3.19
14/05/2023 01:36	0.2	0.0	16.8	0	0	1019	1019	0	-0.38	0.0	11.6	3.19
14/05/2023 02:36	0.2	0.0	16.8	0	0	1018	1018	0	-0.50	0.0	11.6	3.20
14/05/2023 03:36	0.2	0.0	16.8	0	0	1017	1018	1	-0.38	0.0	11.4	3.20
14/05/2023 04:36	0.2	0.0	16.8	0	0	1017	1017	0	-0.50	0.0	11.3	3.21
14/05/2023 05:36	0.2	0.0	16.8	0	0	1017	1017	0	-0.50	0.0	11.2	3.21
14/05/2023 06:36	0.2	0.0	16.7	0	0	1016	1016	0	-0.50	0.0	11.1	3.21
14/05/2023 07:36	0.2	0.0	16.7	0	0	1016	1016	0	-0.38	0.0	11.1	3.21
14/05/2023 08:36	0.2	0.0	16.7	0	0	1016	1016	0	-0.38	0.0	11.1	3.20
14/05/2023 09:36	0.2	0.0	16.7	0	0	1015	1016	1	-0.25	0.0	11.1	3.20
14/05/2023 10:36	0.2	0.0	16.7	0	0	1015	1015	0	-0.38	0.0	11.1	3.19
14/05/2023 11:36	0.2	0.0	16.7	0	0	1015	1015	0	-0.25	0.0	11.1	3.19
14/05/2023 12:36	0.2	0.0	17.7	0	0	1015	1015	0	-0.25	0.0	11.1	3.19
14/05/2023 13:36	0.2	0.0	19.5	0	0	1015	1015	0	-0.13	0.0	11.1	3.20
14/05/2023 14:36	0.2	0.0	20.6	0	0	1015	1015	0	-0.13	0.0	11.1	3.20
14/05/2023 15:36	0.2	0.0	20.8	0	0	1015	1016	1	0.00	0.0	11.3	3.21
14/05/2023 16:36	0.2	0.0	20.8	0	0	1015	1015	0	-0.13	0.0	11.5	3.22
14/05/2023 17:36	0.2	0.0	20.8	0	0	1015	1016	1	0.13	0.0	11.6	3.23
14/05/2023 18:36	0.2	0.0	20.8	0	0	1016	1016	0	0.13	0.0	11.8	3.23
14/05/2023 19:36	0.2	0.0	20.9	0	0	1016	1016	0	0.13	0.0	11.9	3.24
14/05/2023 20:36	0.2	0.0	21.0	0	0	1017	1017	0	0.25	0.0	11.8	3.24
14/05/2023 21:36	0.2	0.0	21.0	0	0	1017	1017	0	0.25	0.0	11.7	3.23
14/05/2023 22:36	0.2	0.0	21.0	0	0	1017	1017	0	0.13	0.0	11.6	3.22
14/05/2023 23:36	0.2	0.0	20.9	0	0	1017	1018	1	0.38	0.0	11.4	3.21
15/05/2023 00:36	0.2	0.0	21.0	0	0	1017	1018	1	0.25	0.0	11.2	3.21
15/05/2023 01:36	0.2	0.0	20.9	0	0	1017	1018	1	0.25	0.0	11.0	3.22
15/05/2023 02:36	0.2	0.0	20.7	0	0	1018	1018	0	0.25	0.0	10.8	3.22
15/05/2023 03:36	0.2	0.0	20.5	0	0	1018	1018	0	0.13	0.0	10.6	3.23
15/05/2023 04:36	0.2	0.0	20.5	0	0	1018	1018	0	0.13	0.0	10.4	3.23
15/05/2023 05:36	0.2	0.0	20.4	0	0	1018	1018	0	0.13	0.0	10.3	3.24
15/05/2023 06:36	0.2	0.0	20.4	0	0	1018	1019	1	0.13	0.0	10.1	3.24
15/05/2023 07:36	0.2	0.0	20.3	0	0	1019	1019	0	0.13	0.0	10.1	3.24
15/05/2023 08:36	0.2	0.0	20.3	0	0	1019	1019	0	0.13	0.0	10.1	3.24
15/05/2023 09:36	0.2	0.0	20.1	0	0	1019	1020	1	0.25	0.0	10.1	3.24
15/05/2023 10:36	0.2	0.0	20.0	0	0	1020	1020	0	0.25	0.0	10.3	3.22
15/05/2023 11:36	0.2	0.0	19.7	0	0	1020	1020	0	0.25	0.0	10.5	3.22
15/05/2023 12:36	0.2	0.0	19.7	0	0	1020	1020	0	0.25	0.0	10.8	3.22
15/05/2023 13:36	0.2	0.0	20.0	0	0	1020	1020	0	0.13	0.0	11.0	3.22
15/05/2023 14:36	0.2	0.0	20.6	0	0	1020	1020	0	0.13	0.0	11.3	3.23
15/05/2023 15:36	0.2	0.0	20.7	0	0	1020	1021	1	0.25	0.0	11.5	3.23
15/05/2023 16:36	0.2	0.0	20.8	0	0	1020	1021	1	0.13	0.0	11.8	3.24
15/05/2023 17:36	0.2	0.0	20.7	0	0	1020	1021	1	0.13	0.0	11.9	3.24
15/05/2023 18:36	0.3	0.0	20.8	0	0	1021	1021	0	0.13	0.0	12.1	3.25
15/05/2023 19:36	0.2	0.0	20.8	0	0	1021	1021	0	0.13	0.0	12.2	3.25
15/05/2023 20:36	0.2	0.0	20.9	0	0	1021	1022	1	0.25	0.0	12.2	3.25
15/05/2023 21:36	0.2	0.0	20.9	0	0	1022	1022	0	0.25	0.0	12.1	3.25
15/05/2023 22:36	0.2	0.0	20.9	0	0	1022	1022	0	0.13	0.0	11.9	3.24
15/05/2023 23:36	0.2	0.0	21.0	0	0	1022	1022	0	0.13	0.0	11.7	3.23
16/05/2023 00:36	0.2	0.0	21.0	0	0	1022	1022	0	0.13	0.0	11.4	3.23
16/05/2023 01:36	0.2	0.0	21.0	0	0	1022	1022	0	0.13	0.0	11.3	3.22
16/05/2023 02:36	0.2	0.0	21.0	0	0	1021	1021	0	0.00	0.0	11.1	3.22
16/05/2023 03:36	0.2	0.0	20.9	0	0	1021	1021	0	-0.13	0.0	11.1	3.23
16/05/2023 04:36	0.2	0.0	20.9	0	0	1021	1021	0	-0.13	0.0	10.9	3.23
16/05/2023 05:36	0.2	0.0	21.0	0	0	1021	1021	0	-0.13	0.0	10.8	3.24
16/05/2023 06:36	0.2	0.0	21.0	0	0	1021	1021	0	-0.13	0.0	10.8	3.25
16/05/2023 07:36	0.2	0.0	20.9	0	0	1022	1022	0	0.00	0.0	10.7	3.25
16/05/2023 08:36	0.2	0.0	20.9	0	0	1022	1022	0	0.00	0.0	10.7	3.25
16/05/2023 09:36	0.2	0.0	20.9	0	0	1022	1022	0	0.13	0.0	10.7	3.25
16/05/2023 10:36	0.2	0.0	20.9	0	0	1022	1022	0	0.13	0.0	10.8	3.24
16/05/2023 11:36	0.2	0.0	20.9	0	0	1022	1022	0	0.13	0.0	10.8	3.22
16/05/2023 12:36	0.2	0.0	20.8	0	0	1022	1022	0	0.13	0.0	10.9	3.22
16/05/2023 13:36	0.2	0.0	20.8	0	0	1022	1022	0	0.13	0.0	11.1	3.22
16/05/2023 14:36	0.2	0.0	20.8	0	0	1023	1023	0	0.13	0.0	11.4	3.22
16/05/2023 15:36	0.2	0.0	20.8	0	0	1023	1023	0	0.13	0.0	11.6	3.23
16/05/2023 16:36	0.2	0.0	20.8	0	0	1023	1023	0	0.13	0.0	11.7	3.23
16/05/2023 17:36	0.2	0.0	20.9	0	0	1024	1024	0	0.25	0.0	11.8	3.24
16/05/2023 18:36	0.2	0.0	20.9	0	0	1023	1024	1	0.25	0.0	12.0	3.25
16/05/2023 19:36	0.2	0.0	20.9	0	0	1024	1024	0	0.25	0.0	12.1	3.25
16/05/2023 20:36	0.2	0.0	21.0	0	0	1024	1024	0	0.25	0.0	12.1	3.25
16/05/2023 21:36	0.2	0.0	21.0	0	0	1024	1025	1	0.25	0.0	11.9	3.26
16/05/2023 22:36	0.2	0.0	21.0	0	0	1025	1025	0	0.25	0.0	11.8	3.25
16/05/2023 23:36	0.2	0.0	21.0	0	0	1025	1025	0	0.25	0.0	11.6	3.25
17/05/2023 00:36	0.2	0.0	20.8	0	0	1025	1025	0	0.13	0.0	11.4	3.24
17/05/2023 01:36	0.2	0.0	20.7	0	0	1025	1025	0	0.13	0.0	11.3	3.23
17/05/2023 02:36	0.2	0.0	20.5	0	0	1025	1025	0	0.13	0.0	11.2	3.23
17/05/2023 03:36	0.2	0.0	20.1	0	0	1025	1025	0	0.13	0.0	11.1	3.23
17/05/2023 04:36	0.2	0.0	19.7	0	0	1025	1025	0	0.00	0.0	11.1	3.24
17/05/2023 05:36	0.2	0.0	19.5	0	0	1025	1025	0	0.00	0.0	11.0	3.25
17/05/2023 06:36	0.2	0.0	20.7	0	0	1025	1026	1	0.13	0.0	10.9	3.25
17/05/2023 07:36	0.2	0.0	20.8	0	0	1026	1026	0	0.13	0.0	10.9	3.25
17/05/2023 08:36	0.2	0.0	20.7	0	0	1026	1026	0	0.13	0.0	10.9	3.26
17/05/2023 09:36	0.2	0.0	20.5	0	0	1026	1026	0	0.13	0.0	11.0	3.26
17/05/2023 10:36	0.2	0.0	20.3	0	0	1026	1026	0	0.13	0.0	11.1	3.25
17/05/2023 11:36	0.2	0.0	19.7	0	0	1026	1026	0	0.13	0.0	11.4	3.24
17/05/2023 12:36	0.2	0.0	17.7	0	0	1026	1026	0	0.13	0.0	11.7	3.23
17/05/2023 13:36	0.2	0.0	17.0	1	0	1025	1025	0	-0.13	0.0	11.9	3.22
17/05/2023 14:36	0.2	0.0	16.9	0	0	1025	1025	0	-0.13	0.0	12.1	3.22
17/05/2023 15:36	0.2	0.0	16.9	0	0	1025	1025	0	-0.13	0.0	12.3	3.22
17/05/2023 16:36	0.2	0.0	17.0	0	0	1025	1025	0</				

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Pressure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
18/05/2023 10:36	0.2	0.0	17.1	0	0	1024	1024	0	0.00	0.0	11.4	3.26
18/05/2023 11:36	0.2	0.0	16.9	0	0	1023	1024	1	0.13	0.0	11.5	3.25
18/05/2023 12:36	0.2	0.0	16.8	0	0	1024	1024	0	0.13	0.0	11.6	3.24
18/05/2023 13:36	0.2	0.0	16.8	0	0	1024	1024	0	0.00	0.0	11.8	3.23
18/05/2023 14:36	0.2	0.0	16.8	0	0	1023	1024	1	0.00	0.0	11.9	3.22
18/05/2023 15:36	0.2	0.0	16.8	0	0	1023	1024	1	0.00	0.0	12.0	3.22
18/05/2023 16:36	0.2	0.0	16.9	0	0	1023	1023	0	-0.13	0.0	12.0	3.22
18/05/2023 17:36	0.2	0.0	16.9	0	0	1023	1024	1	0.00	0.0	12.0	3.22
18/05/2023 18:36	0.2	0.0	16.9	0	0	1023	1023	0	-0.13	0.0	11.9	3.23
18/05/2023 19:36	0.2	0.0	16.9	0	0	1023	1023	0	-0.13	0.0	11.9	3.24
18/05/2023 20:36	0.2	0.0	17.0	0	0	1024	1024	0	0.00	0.0	11.9	3.25
18/05/2023 21:36	0.2	0.0	17.8	0	0	1024	1024	0	0.00	0.0	11.8	3.25
18/05/2023 22:36	0.2	0.0	19.8	0	0	1024	1025	1	0.13	0.0	11.8	3.26
18/05/2023 23:36	0.2	0.0	20.2	0	0	1024	1025	1	0.25	0.0	11.6	3.26
19/05/2023 00:36	0.2	0.0	20.4	0	0	1025	1025	0	0.13	0.0	11.6	3.25
19/05/2023 01:36	0.2	0.0	20.5	0	0	1025	1025	0	0.25	0.0	11.4	3.24
19/05/2023 02:36	0.2	0.0	20.3	0	0	1025	1025	0	0.25	0.0	11.3	3.23
19/05/2023 03:36	0.3	0.0	20.4	0	0	1025	1025	0	0.13	0.0	11.2	3.23
19/05/2023 04:36	0.2	0.0	20.0	0	0	1025	1025	0	0.13	0.0	11.1	3.23
19/05/2023 05:36	0.2	0.0	20.2	0	0	1025	1025	0	0.00	0.0	11.1	3.24
19/05/2023 06:36	0.2	0.0	20.3	0	0	1025	1026	1	0.13	0.0	11.0	3.25
19/05/2023 07:36	0.2	0.0	20.2	0	0	1026	1026	0	0.13	0.0	11.0	3.26
19/05/2023 08:36	0.2	0.0	20.6	0	0	1026	1026	0	0.13	0.0	11.1	3.26
19/05/2023 09:36	0.2	0.0	20.3	0	0	1026	1026	0	0.13	0.0	11.1	3.26
19/05/2023 10:36	0.2	0.0	20.2	0	0	1026	1027	1	0.25	0.0	11.3	3.26
19/05/2023 11:36	0.2	0.0	19.9	0	0	1026	1027	1	0.25	0.0	11.5	3.26
19/05/2023 12:36	0.2	0.0	19.5	0	0	1027	1027	0	0.25	0.0	11.8	3.26
19/05/2023 13:36	0.3	0.0	19.1	0	0	1027	1027	0	0.13	0.0	12.1	3.25
19/05/2023 14:36	0.2	0.0	19.4	0	0	1027	1027	0	0.13	0.0	12.4	3.24
19/05/2023 15:36	0.2	0.0	19.0	0	0	1027	1027	0	0.13	0.0	12.8	3.23
19/05/2023 16:36	0.2	0.0	18.6	0	0	1027	1027	0	0.13	0.0	13.1	3.23
19/05/2023 17:36	0.2	0.0	18.6	0	0	1027	1027	0	0.00	0.0	13.4	3.23
19/05/2023 18:36	0.2	0.0	18.5	0	0	1027	1027	0	0.00	0.0	13.6	3.24
19/05/2023 19:36	0.2	0.0	18.5	0	0	1027	1027	0	0.00	0.0	13.6	3.25
19/05/2023 20:36	0.2	0.0	18.8	0	0	1027	1027	0	0.00	0.0	13.6	3.25
19/05/2023 21:36	0.2	0.0	19.1	0	0	1027	1027	0	0.00	0.0	13.5	3.26
19/05/2023 22:36	0.2	0.0	18.9	0	0	1027	1027	0	0.00	0.0	13.3	3.26
19/05/2023 23:36	0.2	0.0	18.8	0	0	1027	1027	0	0.00	0.0	13.1	3.27
20/05/2023 00:36	0.2	0.0	19.0	0	0	1027	1028	1	0.13	0.0	12.9	3.26
20/05/2023 01:36	0.2	0.0	18.6	0	0	1027	1028	1	0.13	0.0	12.8	3.25
20/05/2023 02:36	0.2	0.0	18.3	0	0	1027	1027	0	0.00	0.0	12.6	3.24
20/05/2023 03:36	0.2	0.0	18.0	0	0	1027	1027	0	0.00	0.0	12.5	3.23
20/05/2023 04:36	0.2	0.0	17.8	2	0	1027	1027	0	0.00	0.0	12.4	3.23
20/05/2023 05:36	0.2	0.0	17.6	1	0	1026	1026	0	-0.13	0.0	12.3	3.23
20/05/2023 06:36	0.2	0.0	17.8	0	0	1026	1026	0	-0.13	0.0	12.2	3.24
20/05/2023 07:36	0.2	0.0	18.4	0	0	1026	1027	1	-0.13	0.0	12.1	3.25
20/05/2023 08:36	0.2	0.0	18.0	0	0	1026	1026	0	-0.25	0.0	12.1	3.25
20/05/2023 09:36	0.2	0.0	17.8	0	0	1026	1027	1	0.00	0.0	12.1	3.26
20/05/2023 10:36	0.2	0.0	17.6	0	0	1026	1026	0	-0.13	0.0	12.1	3.26
20/05/2023 11:36	0.2	0.0	17.4	0	0	1026	1026	0	-0.13	0.0	12.2	3.26
20/05/2023 12:36	0.2	0.0	17.3	0	0	1026	1026	0	0.00	0.0	12.3	3.26
20/05/2023 13:36	0.2	0.0	17.2	0	0	1025	1025	0	-0.13	0.0	12.3	3.26
20/05/2023 14:36	0.2	0.0	17.0	0	0	1025	1025	0	-0.25	0.0	12.4	3.24
20/05/2023 15:36	0.2	0.0	16.9	0	0	1024	1025	1	-0.13	0.0	12.5	3.23
20/05/2023 16:36	0.2	0.0	16.9	0	0	1024	1024	0	-0.38	0.0	12.6	3.23
20/05/2023 17:36	0.2	0.0	16.9	0	0	1024	1024	0	-0.25	0.0	12.6	3.23
20/05/2023 18:36	0.2	0.0	16.9	0	0	1023	1023	0	-0.38	0.0	12.6	3.23
20/05/2023 19:36	0.2	0.0	16.9	0	0	1023	1023	0	-0.38	0.0	12.7	3.24
20/05/2023 20:36	0.2	0.0	16.9	0	0	1023	1023	0	-0.25	0.0	12.6	3.24
20/05/2023 21:36	0.2	0.0	16.9	0	0	1023	1023	0	-0.25	0.0	12.6	3.25
20/05/2023 22:36	0.2	0.0	17.2	0	0	1023	1023	0	-0.25	0.0	12.5	3.25
20/05/2023 23:36	0.2	0.0	17.1	0	0	1023	1023	0	-0.13	0.0	12.4	3.26
21/05/2023 00:36	0.2	0.0	17.1	0	0	1022	1022	0	-0.25	0.0	12.3	3.26
21/05/2023 01:36	0.2	0.0	17.0	0	0	1022	1022	0	-0.13	0.0	12.3	3.26
21/05/2023 02:36	0.2	0.0	17.0	0	0	1022	1022	0	-0.13	0.0	12.2	3.25
21/05/2023 03:36	0.2	0.0	16.9	0	0	1022	1022	0	-0.13	0.0	12.1	3.24
21/05/2023 04:36	0.2	0.0	16.9	0	0	1022	1022	0	-0.13	0.0	12.0	3.23
21/05/2023 05:36	0.2	0.0	16.9	0	0	1021	1021	0	-0.25	0.0	11.9	3.23
21/05/2023 06:36	0.2	0.0	17.1	0	0	1021	1021	0	-0.25	0.0	11.9	3.24
21/05/2023 07:36	0.2	0.0	19.1	0	0	1022	1022	0	0.00	0.0	11.9	3.25
21/05/2023 08:36	0.2	0.0	19.6	0	0	1022	1022	0	0.00	0.0	11.9	3.25
21/05/2023 09:36	0.2	0.0	19.9	0	0	1022	1022	0	0.00	0.0	11.9	3.26
21/05/2023 10:36	0.2	0.0	20.2	0	0	1022	1022	0	0.00	0.0	11.9	3.26
21/05/2023 11:36	0.2	0.0	19.9	0	0	1022	1022	0	0.00	0.0	12.0	3.27
21/05/2023 12:36	0.2	0.0	19.7	0	0	1022	1022	0	0.13	0.0	12.1	3.27
21/05/2023 13:36	0.2	0.0	19.6	0	0	1022	1022	0	0.13	0.0	12.1	3.27
21/05/2023 14:36	0.2	0.0	19.5	0	0	1022	1022	0	0.00	0.0	12.3	3.26
21/05/2023 15:36	0.2	0.0	19.1	0	0	1022	1022	0	0.00	0.0	12.4	3.25
21/05/2023 16:36	0.2	0.0	18.7	0	0	1022	1022	0	0.00	0.0	12.6	3.24
21/05/2023 17:36	0.2	0.0	18.4	0	0	1022	1022	0	0.00	0.0	12.9	3.24
21/05/2023 18:36	0.2	0.0	18.1	0	0	1021	1021	0	-0.13	0.0	13.2	3.24
21/05/2023 19:36	0.2	0.0	18.0	0	0	1021	1021	0	-0.13	0.0	13.4	3.25
21/05/2023 20:36	0.2	0.0	18.2	0	0	1021	1022	1	0.00	0.0	13.4	3.25
21/05/2023 21:36	0.2	0.0	18.7	0	0	1022	1022	0	0.00	0.0	13.4	3.26
21/05/2023 22:36	0.2	0.0	20.0	0	0	1022	1022	0	0.00	0.0	13.3	3.26
21/05/2023 23:36	0.2	0.0	19.7	0	0	1022	1022	0	0.00	0.0	13.2	3.27
22/05/2023 00:36	0.2	0.0	19.4	0	0	1022	1022	0	0.00	0.0	13.0	3.27
22/05/2023 01:36	0.2	0.0	19.0	0	0	1022	1022	0	0.13	0.0	12.8	3.27
22/05/2023 02:36	0.2	0.0	18.6	0	0	1022	1022	0	0.13	0.0	12.6	3.26
22/05/2023 03:36	0.2	0.0	18.2	0	0	1022	1022	0	0.00	0.0	12.5	3.25
22/05/2023 04:36	0.2	0.0	17.9	1	0	1022	1022	0	0.00	0.0	12.3	3.24
22/05/2023 05:36	0.2	0.0	17.8	1	0	1022	1022	0	0.00	0.0	12.2	3.24
22/05/2023 06:36	0.2	0.0	19.4	0	0	1022	1023	1	0.13	0.0	12.0	3.24
22/05/2023 07:36	0.2	0.0	19.5	0	0	1022	1023	1	0.13	0.0	11.9	3.25
22/05/2023 08:36	0.2	0.0	19.8	0	0	1023	1023	0	0.13	0.0	11.8	3.26
22/05/2023 09:36	0.2	0.0	20.0	0	0	1023	1023	0	0.13	0.0	11.8	3.26
22/05/2023 10:36	0.2	0.0	19.5	1	0	1023	1023	0	0.13	0.0	11.8	3.26
22/05/2023 11:36	0.2	0.0	19.0	0	0	1023	1023	0	0.13	0.0	11.9	3.27
22/05/2023 12:36	0.2	0.0	19.2	0	0	1023	1023	0	0.13	0.0	12.1	3.27
22/05/2023 13:36	0.2	0.0	20.6	0	0	1024	1024	0	0.13	0.0	12.4	3.28
22/05/2023 14:36	0.2	0.0	20.8	0	0	1024	1024	0</				

Date and Time	CH ₄ % v/v	CO ₂ % v/v	O ₂ % v/v	CO ppm/v	H ₂ S ppm/v	Borehole Pressure mbar	Atmospheric Pressure mbar	Differential Presssure mbar	Average 8-hour atmospheric pressure change mbar	Flow Ltr/hr	Temperature °C	Water Level mbgl
23/05/2023 08:36	0.2	0.0	19.7	0	0	1026	1026	0	0.00	0.0	11.6	3.25
23/05/2023 09:36	0.3	0.0	20.4	0	0	1026	1026	0	0.00	0.0	11.6	3.26
23/05/2023 10:36	0.2	0.0	19.9	0	0	1026	1026	0	0.00	0.0	11.7	3.26
23/05/2023 11:36	0.2	0.0	19.6	0	0	1025	1026	1	0.13	0.0	11.8	3.27
23/05/2023 12:36	0.2	0.0	19.1	0	0	1025	1025	0	-0.13	0.0	12.0	3.27
23/05/2023 13:36	0.2	0.0	19.1	0	0	1025	1025	0	-0.13	0.0	12.2	3.27
23/05/2023 14:36	0.2	0.0	20.5	0	0	1025	1025	0	-0.13	0.0	12.4	3.28
23/05/2023 15:36	0.2	0.0	20.6	0	0	1025	1025	0	-0.13	0.0	12.4	3.27
23/05/2023 16:36	0.2	0.0	20.3	0	0	1024	1025	1	-0.13	0.0	12.4	3.26
23/05/2023 17:36	0.2	0.0	20.1	0	0	1024	1024	0	-0.25	0.0	12.4	3.26
23/05/2023 18:36	0.2	0.0	20.4	0	0	1024	1024	0	-0.25	0.0	12.4	3.26
23/05/2023 19:36	0.2	0.0	20.8	0	0	1024	1025	1	0.00	0.0	12.4	3.26
23/05/2023 20:36	0.2	0.0	20.9	0	0	1024	1024	0	-0.13	0.0	12.4	3.27
23/05/2023 21:36	0.2	0.0	21.0	0	0	1024	1025	1	0.00	0.0	12.3	3.27
23/05/2023 22:36	0.2	0.0	21.0	0	0	1024	1025	1	0.00	0.0	12.2	3.28
23/05/2023 23:36	0.2	0.0	21.0	1	0	1024	1025	1	0.00	0.0	12.1	3.28
24/05/2023 00:36	0.2	0.0	21.0	0	0	1024	1024	0	0.00	0.0	11.9	3.27
24/05/2023 01:36	0.2	0.0	21.0	0	0	1024	1024	0	0.00	0.0	11.8	3.27
24/05/2023 02:36	0.2	0.0	21.0	0	0	1023	1023	0	-0.25	0.0	11.7	3.27
24/05/2023 03:36	0.2	0.0	21.0	0	0	1023	1023	0	-0.13	0.0	11.6	3.27
24/05/2023 04:36	0.2	0.0	21.0	0	0	1023	1023	0	-0.25	0.0	11.4	3.26
24/05/2023 05:36	0.2	0.0	21.0	0	0	1023	1024	1	-0.13	0.0	11.4	3.25
24/05/2023 06:36	0.2	0.0	21.0	1	0	1024	1024	0	-0.13	0.0	11.3	3.25
24/05/2023 07:36	0.2	0.0	21.0	0	0	1024	1025	1	0.13	0.0	11.3	3.25
24/05/2023 08:36	0.2	0.0	21.0	0	0	1024	1025	1	0.13	0.0	11.3	3.26
24/05/2023 09:36	0.2	0.0	20.9	0	0	1025	1025	0	0.25	0.0	11.3	3.26
24/05/2023 10:36	0.2	0.0	20.9	0	0	1025	1025	0	0.25	0.0	11.3	3.27
24/05/2023 11:36	0.2	0.0	20.9	1	0	1025	1026	1	0.38	0.0	11.4	3.27
24/05/2023 12:36	0.2	0.0	20.8	0	0	1025	1026	1	0.25	0.0	11.6	3.27
24/05/2023 13:36	0.2	0.0	20.8	0	0	1025	1025	0	0.13	0.0	11.8	3.28
24/05/2023 14:36	0.2	0.0	20.8	0	0	1025	1025	0	0.00	0.0	11.9	3.28
24/05/2023 15:36	0.2	0.0	20.8	0	0	1025	1026	1	0.13	0.0	12.1	3.28
24/05/2023 16:36	0.2	0.0	20.9	0	0	1026	1026	0	0.13	0.0	12.3	3.28
24/05/2023 17:36	0.2	0.0	20.9	0	0	1026	1026	0	0.13	0.0	12.4	3.28
24/05/2023 18:36	0.2	0.0	20.9	1	0	1026	1026	0	0.00	0.0	12.6	3.28
24/05/2023 19:36	0.2	0.0	20.9	0	0	1026	1026	0	0.00	0.0	12.7	3.27
24/05/2023 20:36	0.2	0.0	21.0	0	0	1026	1026	0	0.13	0.0	12.8	3.27
24/05/2023 21:36	0.2	0.0	21.0	0	0	1026	1027	1	0.25	0.0	12.7	3.28
24/05/2023 22:36	0.2	0.0	21.0	0	0	1027	1027	0	0.13	0.0	12.6	3.28
24/05/2023 23:36	0.2	0.0	20.8	0	0	1027	1027	0	0.13	0.0	12.3	3.28
25/05/2023 00:36	0.2	0.0	20.6	0	0	1027	1027	0	0.13	0.0	12.1	3.29
25/05/2023 01:36	0.2	0.0	20.2	0	0	1027	1027	0	0.13	0.0	11.9	3.29
25/05/2023 02:36	0.2	0.0	20.0	1	0	1027	1028	1	0.25	0.0	11.8	3.29
25/05/2023 03:36	0.2	0.0	19.6	0	0	1027	1028	1	0.25	0.0	11.6	3.29
25/05/2023 04:36	0.2	0.0	19.5	1	0	1028	1028	0	0.13	0.0	11.4	3.29
25/05/2023 05:36	0.2	0.0	19.3	1	0	1028	1028	0	0.13	0.0	11.1	3.28
25/05/2023 06:36	0.2	0.0	19.5	0	0	1028	1029	1	0.25	0.0	10.9	3.27
25/05/2023 07:36	0.2	0.0	19.7	0	0	1029	1029	0	0.25	0.0	10.9	3.27
25/05/2023 08:36	0.2	0.0	19.4	2	0	1029	1029	0	0.25	0.0	10.9	3.27
25/05/2023 09:36	0.2	0.0	20.0	1	0	1029	1029	0	0.13	0.0	11.1	3.27
25/05/2023 10:36	0.2	0.0	20.4	0	0	1030	1030	0	0.25	0.0	11.3	3.28
25/05/2023 11:36	0.2	0.0	20.6	1	0	1029	1030	1	0.25	0.0	11.5	3.28
25/05/2023 12:36	0.2	0.0	20.3	0	0	1029	1029	0	0.13	0.0	11.8	3.28
25/05/2023 13:36	0.2	0.0	20.6	0	0	1029	1029	0	0.00	0.0	12.1	3.28
25/05/2023 14:36	0.2	0.0	20.7	0	0	1029	1029	0	0.00	0.0	12.4	3.28
25/05/2023 15:36	0.2	0.0	20.8	0	0	1029	1029	0	0.00	0.0	12.7	3.29
25/05/2023 16:36	0.2	0.0	20.7	0	0	1029	1029	0	0.00	0.0	12.9	3.29
25/05/2023 17:36	0.2	0.0	20.8	0	0	1029	1029	0	-0.13	0.0	13.2	3.29
25/05/2023 18:36	0.2	0.0	20.9	0	0	1029	1029	0	-0.13	0.0	13.4	3.28
25/05/2023 19:36	0.2	0.0	20.8	0	0	1029	1029	0	0.00	0.0	13.5	3.28
25/05/2023 20:36	0.2	0.0	20.6	1	0	1029	1029	0	0.00	0.0	13.6	3.29
25/05/2023 21:36	0.2	0.0	20.8	0	0	1030	1030	0	0.13	0.0	13.5	3.29
25/05/2023 22:36	0.2	0.0	20.7	0	0	1029	1030	1	0.13	0.0	13.3	3.29
25/05/2023 23:36	0.3	0.0	20.4	0	0	1030	1030	0	0.13	0.0	13.1	3.29
26/05/2023 00:36	0.2	0.0	20.8	0	0	1030	1030	0	0.13	0.0	12.9	3.29
26/05/2023 01:36	0.2	0.0	20.9	1	0	1030	1030	0	0.13	0.0	12.7	3.29
26/05/2023 02:36	0.2	0.0	20.5	1	0	1030	1030	0	0.13	0.0	12.4	3.29
26/05/2023 03:36	0.2	0.0	20.1	0	0	1030	1030	0	0.13	0.0	12.3	3.29
26/05/2023 04:36	0.2	0.0	19.7	0	0	1030	1030	0	0.00	0.0	12.1	3.29
26/05/2023 05:36	0.2	0.0	19.2	1	0	1030	1030	0	0.00	0.0	11.9	3.29
26/05/2023 06:36	0.2	0.0	19.3	1	0	1030	1031	1	0.13	0.0	11.7	3.29
26/05/2023 07:36	0.2	0.0	19.5	2	0	1031	1031	0	0.13	0.0	11.6	3.28
26/05/2023 08:36	0.2	0.0	19.1	0	0	1031	1031	0	0.13	0.0	11.6	3.28
26/05/2023 09:36	0.2	0.0	18.8	1	0	1031	1031	0	0.13	0.0	11.8	3.28
26/05/2023 10:36	0.2	0.0	18.9	2	0	1031	1031	0	0.13	0.0	11.9	3.28
26/05/2023 11:36	0.2	0.0	19.1	1	0	1031	1031	0	0.13	0.0	12.2	3.28
26/05/2023 12:36	0.2	0.0	19.0	1	0	1031	1031	0	0.13	0.0	12.4	3.29
26/05/2023 13:36	0.2	0.0	18.8	1	0	1030	1031	1	0.00	0.0	12.8	3.29
26/05/2023 14:36	0.2	0.0	18.6	1	0	1030	1031	1	0.00	0.0	13.1	3.29
26/05/2023 15:36	0.2	0.0	18.4	1	0	1030	1030	0	-0.13	0.0	13.5	3.29
26/05/2023 16:36	0.2	0.0	18.0	0	0	1030	1030	0	-0.13	0.0	13.8	3.29
26/05/2023 17:36	0.2	0.0	17.8	0	0	1029	1029	0	-0.25	0.0	14.2	3.29
26/05/2023 18:36	0.2	0.0	17.7	3	0	1029	1029	0	-0.25	0.0	14.4	3.28
26/05/2023 19:36	0.2	0.0	17.6	0	0	1028	1028	0	-0.38	0.0	14.6	3.29
26/05/2023 20:36	0.2	0.0	17.9	0	0	1028	1028	0	-0.38	0.0	14.6	3.28
26/05/2023 21:36	0.2	0.0	17.9	0	0	1028	1028	0	-0.38	0.0	14.5	3.28
26/05/2023 22:36	0.2	0.0	18.1	0	0	1028	1028	0	-0.25	0.0	14.3	3.29
26/05/2023 23:36	0.2	0.0	18.3	1	0	1028	1028	0	-0.25	0.0	14.1	3.29
27/05/2023 00:36	0.2	0.0	18.1	0	0	1028	1028	0	-0.13	0.0	13.8	3.29
27/05/2023 01:36	0.2	0.0	17.9	2	0	1027	1028	1	-0.13	0.0	13.5	3.28
27/05/2023 02:36	0.2	0.0	17.7	0	0	1027	1027	0	-0.13	0.0	13.2	3.28
27/05/2023 03:36	0.2	0.0	17.6	0	0	1026	1026	0	-0.25	0.0	12.9	3.28
27/05/2023 04:36	0.2	0.0	17.5	1	0	1025	1026	1	-0.25	0.0	12.6	3.29
27/05/2023 05:36	0.2	0.0	17.5	0	0	1025	1025	0	-0.38	0.0	12.3	3.29
27/05/2023 06:36	0.2	0.0	17.4	2	0	1025	1025	0	-0.38	0.0	11.9	3.28
27/05/2023 07:36	0.2	0.0	17.3	1	0	1025	1025	0	-0.38	0.0	11.9	3.27
27/05/2023 08:36	0.2	0.0	17.2	1	0	1024	1024	0	-0.50	0.0	11.9	3.27
27/05/2023 09:36	0.2	0.0	17.2	1	0	1024	1024	0	-0.38	0.0	12.1	3.27
27/05/2023 10:36	0.2	0.0	17.2	1	0	1024	1024	0	-0.25	0.0	12.1	3.27
27/05/2023 11:36	0.2	0.0	17.2	1	0	1024	1024	0	-0.25	0.0	12.3	3.27
27/05/2023 12:36	0.2	0.0	17.1	1	0	1023	1023	0				

Appendix E

Flux box test records

For Envirocentre Ltd.

Ref No. GGS3244GGRA_V1

Date: 23/05/2023





gg's Scotland

GG Scotland

Suite 12 Epoch House,

Falkirk Road,

Grangemouth

FK3 8WW

Rev.

Date

Dwn.

Description

App'd

1

08/06/23

DH

FINAL

MA

TITLE: Flux box location plan

PROJECT: Ardrossan Academy, Ardrossan

DRAWING REF: 3244/03

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Note:
- All locations are approximate.
- Map & satellite imagery ©OpenStreetMap;
©Bing Virtual Earth 2023



PROJECT: GGS3244

SITE: Ardrossan Academy, Ardrossan

DATE: 06/06/2023

SPECIALIST: MA/DH

Doc Ref: QMS-FBM
Issue Date: 23/02/2017
Version: v1.1

EQUIPMENT		
Model	Serial Number	P
GFM226	13554	
Inficon IRwin	92004377	

		WEATHER CONDITIONS				GROUND CONDITIONS / GENERAL COMMENTS Frost, Wet etc.?			
General Comments:		Overcast, warm				Uneven with slight to dense vegetation			
		Ambient Air Temp	12.9	Wind Direction	SE				
Start Pressure (mb):	1029.8	End Pressure (mb):		End Wind Speed (m/sec)	10.8	Gas Management System Operational? Y/N		Atmospheric Pressure Trend	

GPS Coordinates	Lame.Dust.Bridge			Start Time	13:35	End Time	13:50
				Flux box ID	FB01		

Flux box Volume (ltrs)	165	Ground Seal?	Bentonite Clay	Pressure equalised & valve closed? Y/N	Y
------------------------	-----	--------------	----------------	--	---

	CH4 (ppmv)	CO2 (ppmv)	Maximum Sampling Period 30 Secs? Y/N	Comments?
Fresh Air	0	456	N/A	
30 Sec	0	451		
1 Min	0	455		
2 Min	0	446		
3 Min	0	452		
4 Min	0	449		
5 Min	0	486		
10 Min	0	454		
15 Min	0	480		
20 Min				
25 Min				
30 Min				
40 Min				
50 Min				
60 Min				
Fresh Air			N/A	

Flux box duration (mins)	15	Flux box Differential Pressure (Pa) at end of monitoring	
--------------------------	----	--	--

KEY: ND = No Detection, NM = Not Measured, NR = Not Recorded, N/A = Not Applicable, * = see comments, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, Ltr/hr = litres per hour, mbgl = metres below ground level, SWL = standing water level, m/sec = metres per second, Sec = Second. Mins = minutes, Pa = Pascals, Ltrs = Litres



PROJECT: GGS3244

SITE: Ardrossan Academy, Ardrossan

DATE: 06/06/2023

SPECIALIST: MA/DH

Doc Ref: QMS-FBM
Issue Date: 23/02/2017
Version: v1.1

EQUIPMENT		
Model	Serial Number	P
GFM226	13554	
Inficon IRwin	92004377	

WEATHER CONDITIONS						GROUND CONDITIONS / GENERAL COMMENTS Frost, Wet etc.?			
General Comments:		Overcast, warm				Slightly uneven, some vegetation, sand and crushed shells			
		Ambient Air Temp	12.9	Wind Direction	SE	Start Wind Speed (m/sec)	10.9		
Start Pressure (mb):	1029.8	End Pressure (mb):	1029.8	End Wind Speed (m/sec)	10.8	Gas Management System Operational? Y/N		Atmospheric Pressure Trend	

GPS Coordinates	Allow.Visits.Uses			Start Time	14:00	End Time	14:15
				Flux box ID	FB02		

Flux box Volume (ltrs)	165	Ground Seal?	Bentonite Clay	Pressure equalised & valve closed? Y/N	Y
------------------------	-----	--------------	----------------	--	---

	CH4 (ppmv)	CO2 (ppmv)	Maximum Sampling Period 30 Secs? Y/N	Comments?
Fresh Air	0	445	N/A	
30 Sec	0	446		
1 Min	0	445		
2 Min	0	444		
3 Min	0	449		
4 Min	0	447		
5 Min	0	457		
10 Min	0	514		
15 Min	0	482		
20 Min				
25 Min				
30 Min				
40 Min				
50 Min				
60 Min				
Fresh Air			N/A	

Flux box duration (mins)	15	Flux box Differential Pressure (Pa) at end of monitoring	
--------------------------	----	--	--

KEY: ND = No Detection, NM = Not Measured, NR = Not Recorded, N/A = Not Applicable, * = see comments, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, Ltr/hr = litres per hour, mbgl = metres below ground level, SWL = standing water level, m/sec = metres per second, Sec = Second. Mins = minutes, Pa = Pascals, Ltrs = Litres



PROJECT: GGS3244

SITE: Ardrossan Academy, Ardrossan

DATE: 06/06/2023

SPECIALIST: MA/DH

Doc Ref: QMS-FBM
Issue Date: 23/02/2017
Version: v1.1

EQUIPMENT		
Model	Serial Number	P
GFM226	13554	
Inficon IRwin	92004377	

WEATHER CONDITIONS						GROUND CONDITIONS / GENERAL COMMENTS Frost, Wet etc.?			
General Comments:		Overcast, warm, slight breeze				Uneven with slight to dense vegetation, some hard standing			
		Ambient Air Temp	12.9	Wind Direction	SE	Start Wind Speed (m/sec)	10.9		
Start Pressure (mb):	1029.8	End Pressure (mb):		End Wind Speed (m/sec)	10.8	Gas Management System Operational? Y/N		Atmospheric Pressure Trend	

GPS Coordinates	Ideas.faced.margin				Start Time	14:25	End Time	14:40
					Flux box ID	FB03		

Flux box Volume (ltrs)	165	Ground Seal?	Bentonite Clay	Pressure equalised & valve closed? Y/N	Y
------------------------	-----	--------------	----------------	--	---

	CH4 (ppmv)	CO2 (ppmv)	Maximum Sampling Period 30 Secs? Y/N	Comments?
Fresh Air	0	443	N/A	
30 Sec	0	450		
1 Min	0	441		
2 Min	0	444		
3 Min	0	451		
4 Min	0	449		
5 Min	0	448		
10 Min	0	448		
15 Min	0	515		
20 Min				
25 Min				
30 Min				
40 Min				
50 Min				
60 Min				
Fresh Air			N/A	

Flux box duration (mins)	15	Flux box Differential Pressure (Pa) at end of monitoring	
--------------------------	----	--	--

KEY: ND = No Detection, NM = Not Measured, NR = Not Recorded, N/A = Not Applicable, * = see comments, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, Ltr/hr = litres per hour, mbgl = metres below ground level, SWL = standing water level, m/sec = metres per second, Sec = Second. Mins = minutes, Pa = Pascals, Ltrs = Litres



PROJECT: GGS3244

SITE: Ardrossan Academy, Ardrossan

DATE: 06/06/2023

SPECIALIST: MA/DH

Doc Ref: QMS-FBM
Issue Date: 23/02/2017
Version: v1.1

EQUIPMENT		
Model	Serial Number	P
GFM226	13554	
Inficon IRwin	92004377	

WEATHER CONDITIONS						GROUND CONDITIONS / GENERAL COMMENTS Frost, Wet etc.?			
General Comments:		Overcast, warm, slight breeze				Uneven, grassy ground, some sand			
		Ambient Air Temp	12.9	Wind Direction	SE	Start Wind Speed (m/sec)	10.9		
Start Pressure (mb):	1029.8	End Pressure (mb):		End Wind Speed (m/sec)	10.8	Gas Management System Operational? Y/N		Atmospheric Pressure Trend	

GPS Coordinates	Shared.Liked.Drag			Start Time	14:50	End Time	15:05
				Flux box ID	FB04		

Flux box Volume (ltrs)	165	Ground Seal?	Bentonite Clay	Pressure equalised & valve closed? Y/N	Y
------------------------	-----	--------------	----------------	--	---

	CH4 (ppmv)	CO2 (ppmv)	Maximum Sampling Period 30 Secs? Y/N	Comments?
Fresh Air	0	434	N/A	
30 Sec	0	455		
1 Min	0	438		
2 Min	0	440		
3 Min	0	441		
4 Min	0	440		
5 Min	0	439		
10 Min	0	445		
15 Min	0	477		
20 Min				
25 Min				
30 Min				
40 Min				
50 Min				
60 Min				
Fresh Air			N/A	

Flux box duration (mins)	15	Flux box Differential Pressure (Pa) at end of monitoring	
--------------------------	----	--	--

KEY: ND = No Detection, NM = Not Measured, NR = Not Recorded, N/A = Not Applicable, * = see comments, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, Ltr/hr = litres per hour, mbgl = metres below ground level, SWL = standing water level, m/sec = metres per second, Sec = Second. Mins = minutes, Pa = Pascals, Ltrs = Litres



PROJECT: GGS3244

SITE: Ardrossan Academy, Ardrossan

DATE: 06/06/2023

SPECIALIST: MA/DH

Doc Ref: QMS-FBM
Issue Date: 23/02/2017
Version: v1.1

EQUIPMENT		
Model	Serial Number	P
GFM226	13554	
Inficon IRwin	92004377	

		WEATHER CONDITIONS				GROUND CONDITIONS / GENERAL COMMENTS Frost, Wet etc.?			
General Comments:		Overcast, warm, slight breeze				Uneven with slight to dense vegetation			
		Ambient Air Temp	12.9	Wind Direction	SE				
Start Pressure (mb):	1029.8	End Pressure (mb):	1029.8	End Wind Speed (m/sec)	10.8	Gas Management System Operational? Y/N		Atmospheric Pressure Trend	

GPS Coordinates	frame.throw.spirit		Start Time	15:15	End Time	15:30
			Flux box ID	FB05		

Flux box Volume (ltrs)	165	Ground Seal?	Bentonite Clay	Pressure equalised & valve closed? Y/N	Y
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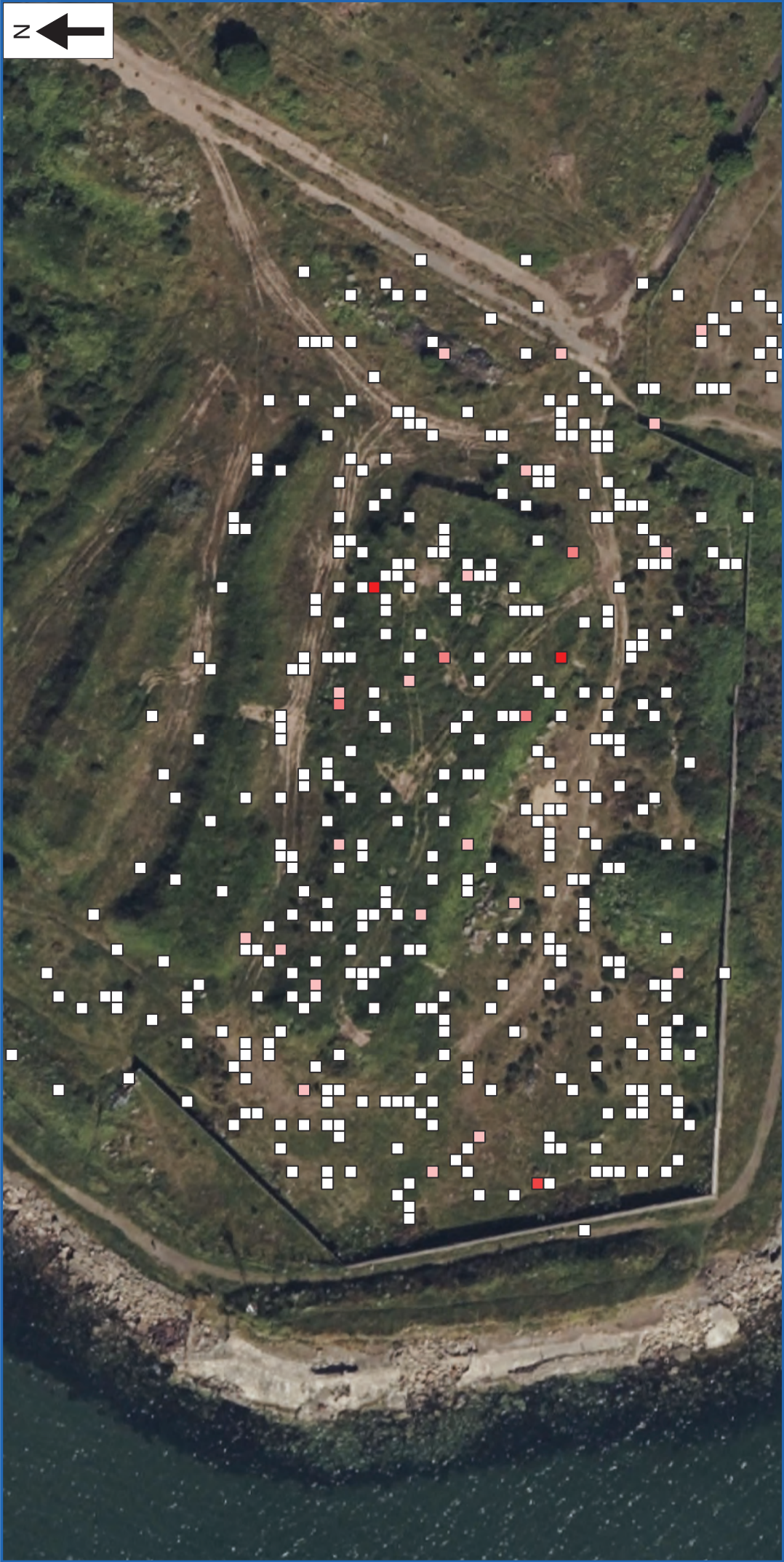
	CH4 (ppmv)	CO2 (ppmv)	Maximum Sampling Period 30 Secs? Y/N	Comments?
Fresh Air	0	432	N/A	
30 Sec	0	439		
1 Min	0	432		
2 Min	0	431		
3 Min	0	430		
4 Min	0	431		
5 Min	0	431		
10 Min	0	457		
15 Min	0	434		
20 Min				
25 Min				
30 Min				
40 Min				
50 Min				
60 Min				
Fresh Air			N/A	

Flux box duration (mins)	15	Flux box Differential Pressure (Pa) at end of monitoring	
--------------------------	----	--	--

KEY: ND = No Detection, NM = Not Measured, NR = Not Recorded, N/A = Not Applicable, * = see comments, %v/v = Percentage volume by volume, ppmv = parts per million by volume, mb = milibar, Ltr/hr = litres per hour, mbgl = metres below ground level, SWL = standing water level, m/sec = metres per second, Sec = Second. Mins = minutes, Pa = Pascals, Ltrs = Litres

Appendix F

Surface methane emissions surveys - GIS grid survey plots and raw survey data



TITLE: Site emission survey			GGs Scotland Suite 12 Epoch House, Falkirk Road, Grangemouth FK3 8WW
PROJECT:3244 Ardrossan Academy, Ardrossan			
DRAWING REF: 3244/03			
This Document should only be relied upon and used in circumstances it was originally prepared by GGS Scotland for the client. Any other use or modification is not the responsibility of GGS Scotland. © Copyright Ground-Gas Solutions 2023.		KEY: CH4 concentration (ppmv) 0 - 1 1 - 2 2 - 3 3 - 4 4 - 5	
Note: - All locations are approximate. - Map & satellite imagery ©OpenStreetMap; ©Bing Virtual Earth 2023			

Appendix G

Qualitative risk classification matrix

For Envirocentre Ltd.

Ref No. GGS3244GGRA_V1

Date: 23/05/2023



Qualitative Risk Classification Matrix

Probability (likelihood)	Consequence			
	Minor	Mild	Medium	Severe
High likelihood	Low risk	Moderate risk	High risk	Very high risk
Likely	Low risk	Low to moderate risk	Moderate risk	High risk
Low likelihood	Very low risk	Low risk	Low to moderate risk	Moderate risk
Unlikely	Very low risk	Very low risk	Low risk	Low to moderate risk
No Pollutant Linkage	No potential risk			
Consequence	Minor	Mild	Medium	Severe
Ratings	-No measureable effect on humans -Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems -Repairable effects of damage to buildings, structures and services	-Exposure to human healthy unlikely to lead to "significant harm" -Equivalent to EA Category 3 pollution incident including minimal or short-lived effect on water quality; marginal effect on amenity value, agriculture or commerce -Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long term maintenance of the population -Minor damage to crops, buildings or property	-Elevated concentrations which could result in "significant harm" to humans health as defined by EPA 1990, Part 2A if exposure occurs -Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce -Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long term maintenance of the population -Significant damage to crops, buildings or property	-Highly elevated concentrations likely to result in "significant harm" to humans healthy as defined by EPA 1990, Part 2A if exposure occurs -Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce -Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long term maintenance of the population -Catastrophic damage to crops, buildings or property
Probability	Unlikely	Low likelihood	Likely	High likelihood
Classification	Improbable that exposure/event would occur even in the long term	Possible that exposure/event could occur. However, not certain that even over a long period that exposure/event would occur and is less likely in the shorter term	Probable that exposure/event would occur. However, exposure/event is not inevitable, but is possible in the short term and likely over the long term	Exposure/event very likely in the short term and almost inevitable over the long term, or evidence at the receptor of harm or pollution

Appendix H

Instrument technical specifications and Gas Clam[®] overview



IRwin® Methane Leak Detector

Innovation makes the difference

 **INFICON**

The IRwin intelligence

In order to avoid misleading measurements or false alarms, IRwin features an infrared sensor in combination with a special gas filter (patent pending). It even prevents interference from water vapor, ethanol or exhaust gases.

REFERENCE INLET

GAS CHROMATOGRAPH CURVE

DISPLAY FEATURES

- GPS and Bluetooth Interface
- Measurement Range
- Password Levels
- Operating Modes
- Color and Audio Alarm Indicators

GAS INLET

GAS OUTLET

CHARGING



OPERATING MODES	
Universal Mode (from 1ppm to 100Vol%)	
 Ex	
 GC Analysis	
 Ex Tox	

DETECTOR MODELS				
IRwin S	IRwin SX	IRwin SXT	IRwin SXG	IRwin SXGT
■	■	■	■	■
	■		■	
			■	■
		■		■

Innovative methane detector system for easy survey of gas pipelines

IRwin is a portable methane leak detector for fast and easy survey of gas pipelines. This multi-function instrument efficiently operates on different surfaces and situations during survey, is highly sensitive, responds quickly and has a short recovery time. It is certified intrinsically safe, with TÜV® certified capability for LEL, oxygen and toxic gas measurements. The IRwin SX-models are rated explosion-proof for Zone 0 applications, holding several national and international certificates.

FAST GAS ANALYSIS EVEN AT LOW ETHANE CONCENTRATIONS

The specially developed gas chromatograph (GC) and sensor combination allows near real-time distinction between swamp gas and natural gas. This helps operators to rapidly determine if the detected gas comes from a leaking pipe, from other natural gas sources or from swamp gas. The GC inside IRwin delivers fast test results, even at low ethane (from 0.5%) concentrations.



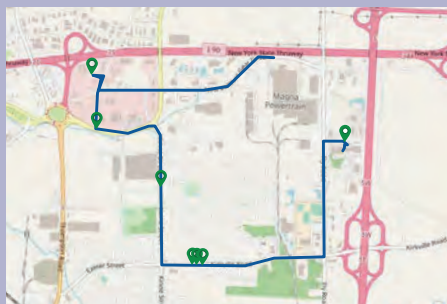
Designed for optimized ergonomics and good weight distribution.

LIGHTWEIGHT SYSTEM FOR COMFORTABLE USE ON LONG DAYS

IRwin is light (1.6 kg, 3.5 lb) and portable for optimum comfort. The instrument and its accessories have been developed for mobile use in demanding conditions. In particular, its modular probe system reduces the number of items the operator needs to carry during pipeline survey. Thanks to quick install fittings, the user can easily apply the correct probe for the specific working situation.



Efficient gas determination in the field.



Route walked by the operator can be visualized on GIS.

SURVEY TRACKING WITH INTEGRATED GPS

Documenting survey work minimizes risks for operator mistakes. Thanks to the integrated GPS, the route walked by the operator will be visualized on geographic information systems (GIS) for easy survey tracking. GPS data and survey measurements are transferred from the instrument to a computer wireless via Bluetooth® technology.

ADVANTAGES AT A GLANCE

- No false alarms
- Improved efficiency with high sensitivity, fast reaction and short recovery time
- Accurate gas analysis enabled through improved IR-technology
- Fast ethane and propane analysis
- Easy distinction between natural gas and swamp gas
- Automatic documentation of survey results



DURABLE DESIGN FOR USE IN TOUGH ENVIRONMENTS

- Clear and easy-to-read display in bright light
- Lightweight device (1.6 kg, 3.5 lb) for maximum ergonomics
- Robust and weatherproof (IP54) housing
- Explosion-proof models for use in hazardous environments 
- GPS and Bluetooth log and transfer results



MODULAR SYSTEM MAKES IT EASY TO ADAPT TO DIFFERENT SURFACES AND SITUATIONS

- Light and easy to move around for comfortable use on long days
- Versatile accessories to suit all needs
- Robust install fittings with click mechanism for quick change to the appropriate probe
- All needed items are easily carried – no need for extra trips to your vehicle
- Filter change done in the field with a minimum of tools



MODULAR SYSTEM FOR QUICK PROBE CHANGE



BELL

Draw gas samples through asphalt and pinpoint the leak position.



SWAN NECK

Search uneven surfaces for gas leaks.



FLEXI BELL

For simple survey, adapts to pipe geometry.



FLEXIBLE EXTENSION

Search in hard-to-reach areas with hand probe flexible extension.



BAR HOLE PROBE

Perform bar hole tests, when needed, with the lightweight bar hole probe and the automatic bar hole function.



MONO-WHEELER CARPET PROBE

Walk on a curb following exactly the crack between stone and asphalt.

SPECIFICATIONS

Ex classification	Ex II 1G, Ex ia IIC T3 Ga (Zone 0)
Intrinsically Safe	Class I, Division 1, Groups A, B, C and D
Detectable gases	See "Ordering information" below
Measurement range	1 ppm to 100% CH ₄
Charging time	100% in 4 h (3h in fast charge mode)
Operating time	> 8 h
Power supply	Li-ion battery
IP protection	IP54
Operating temperature	SXT and SXGT models: -15 to +40°C (5 to 104°F) Other models: -20 to +50°C (-4 to 122°F)
Storage temperature	-25 to +70°C (-13 to 158°F)
Air humidity	max. 95% RH, non-condensing
Dimensions (W x H x D):	197 x 256 x 62 mm (7.7 x 10 x 2.4 in.)
Weight	1.6 kg (3.5 lb.)

COMPLETE ACCESSORIES

PRODUCT	Cat. no.
Mono-wheeler Carpet Probe	580-210
Bell Probe	580-300

ACCESSORY PARTS

Carpet (without locking mechanism)	580-211
Bell	580-301
Flexi Bell	580-305
Hand Probe	580-100
Hand Probe Flexible Extension	580-110
Rod, 850 mm (33.4 in.)	580-150
Short Rod, 600 mm (23.6 in.)	580-140
Extension Rod, 150 mm (5.9 in.)	580-160
Bar Hole Probe, for 13–18 mm (0.5–0.7 in.) holes diameters	580-115
Swan Neck Probe	580-120
Extension Connector	580-220
Harness	580-405
Transport Case	580-450

For more accessory and spare parts visit www.inficon.com

ORDERING INFORMATION

PRODUCT	Cat. no.
IRwin S (methane, carbon dioxide and ethane)	580-000*
IRwin SX (methane, carbon dioxide, ethane, propane and butane)	580-010*
IRwin SXT (methane, carbon dioxide, ethane, propane, butane, oxygen, hydrogen sulfide and carbon monoxide)	580-015*
IRwin SXG (methane, carbon dioxide, ethane, propane and butane)	580-020*
IRwin SXGT (methane, carbon dioxide, ethane, propane, butane, oxygen, hydrogen sulfide and carbon monoxide)	580-030*
IRwin Accessories Kit	580-712**

* IRwin Methane Leak Detector with hand probe, 1.5m (4.9 ft) hose, harness and charger.

** Kit including rod, rod extension, extension connector, carpet, bell, bar hole probe, filter kit and transport case.



www.inficon.com reachus@inficon.com

Due to our continuing program of product improvements, specifications are subject to change without notice.
hiba66zh1-07 (2003) ©2020 INFICON

Gas Data GFM436

A new and simple 'state of the art' portable gas analyser and flow monitor for site investigations, landfill gas control and environmental regulation compliance monitoring.

The GFM436 is an ATEX and MCERTS accredited hand-held gas analyser with a number of additional features and functions to cover all of the gas monitoring parameters needed to complete a thorough site investigation.



1. Gas Analysis

A combination of infra-red and electrochemical sensors are used to determine the relative proportions of the components in the sample gas. The results appear in real time on the display – CH₄, CO₂ and O₂ are expressed in % while H₂S and CO are in ppm. The sample time is indicated on the display and low levels of CH₄ are displayed as LEL% when below the explosive range.

2. Vapour Measurement

Where sites have become contaminated with liquid fuels or oils, the vapour that results mixes with the CH₄ and distorts the analysis value causing it to be sent over range and therefore a value cannot be recorded. To avoid this problem and allow the user to collect meaningful site data the infrared sensor is also factory calibrated on hexane vapour. Hexane is chosen as its infrared characteristics are a similar match to those of common fuels and oils. The advantage is that the user can use this channel to record vapour levels consistently and with this data, determine if levels are falling, rising and locate areas of maximum/minimum contamination etc.

3. PID Factor

The use of a photo ionisation detector (PID) to look for low levels of volatile organic compounds (VOC) is common practice during site investigations. However, such measurements cannot be made without applying a correction factor (PID factor) based on the CH₄ content of sample gas. The GFM436 automatically calculates and displays this factor in real time.

4. Flow pressure temperature

To complete the site measurements, dedicated connection ports on the top of the instrument allow the physical parameters of the gas to be measured. These are the gas flow rate, its pressure and its temperature.

5. Data Logging

All measured values and manually entered water levels can be stored for later viewing and/or downloaded to a PC. When stored, the values are time stamped and labelled. The label has a three tier format and can be up to 24 alphanumeric characters long. The data is held in a non-volatile battery-independent FLASH memory with a capacity of over 3000 complete data sets.

Using Gas Data's SiteMan5 program data and labels can be easily transferred to and from a PC via the supplied USB connection cable. Data storage can be triggered manually or the internal real time clock can be programmed to take and store readings automatically while the instrument is left unattended.



GFM436 Series Features

- Provides measurement of 6 gases
- Measurement of atmospheric, dynamic differential and static pressure
- Bi-directional measurement of instantaneous and peak borehole flow
- Second infrared scale referenced Hexane vapour to attempt to explain unusual methane results caused by fuel spills
- Intrinsically safe - ATEX certified
- MCERTS accredited for both gas and flow measurements
- SiteMan 5.xx PC software
- Manual entry of water levels from a Dip Meter taken at each borehole – 2 readings can be stored for each borehole location
- Manual data storage and programmable unattended data logging functions
- 3 tier hierarchical 24 character alphanumeric labels for the naming of stored reading sets
- Small portable design which is easy to carry and hold in the hand with an 8hr battery life and 4hr charge time maximum
- Supplied in a 'ready to go to site' kit
- 12 month recalibration interval

Technical Specification Table		
General		
Ex rating to	EEx ib IIB T1	
Ambient Temperature Range	-10 deg C to 40 deg C	
Aspiration Rate	300 ml/min minimum	
Protection Rating	IP65	
Dimensions	200mm x 100mm x 60mm (Approx)	
Standard Channels		
	Range (resolution)	Typical Accuracy
Gas Measurements		
Methane	0 to 100% (0.1)	0.3% @ 5% 3.0% @ 60% 3.0% @ 100%
Carbon Dioxide	0 to 100% (0.1)	0.3% @ 5% 3.0% @ 40% 3.0% @ 100%
Hexane	0 to 2,000ppm (10)	0.2%
Oxygen	0 to 25% (0.1)	0.2%
Hydrogen Sulphide	5,000ppm (10)	20ppm
Carbon Monoxide	2,000ppm (1)	20ppm
LEL	0 to 100% LEL (0.1)	4% LEL
Pressure Measurements		
Atmospheric	800 to 1200mbar (1)	2mbar
Static	-200mbar to 200mbar (1)	0.5mbar
Differential	+1250Pa to -1250Pa	3Pa to 250Pa (see calibration certificate)
Flow Measurements		
Instantaneous Flow	+100 to -60l/hr	0.5l/hr to 3l/hr (see calibration certificate)
Peak Flow Display	Yes	



Gas Data Limited, Pegasus House, Seven Stars Estate
Wheler Road, Whitley, Coventry CV3 4LB U.K.

Telephone: +44 (0) 2476 303311
Fax: +44 (0) 2476 307711

E-mail: enquiries@gasdata.co.uk
Website: www.gasdata.co.uk



Appendix I

Instrumentation calibration certificates

For Envirocentre Ltd.

Ref No. GGS3244GGRA_V1

Date: 23/05/2023



TEST DATE AND CONDITIONS			
Date		02/11/2022	
Atmospheric Pressure		988	mB
Ambient Temperature		22.1	°C
EnviroNics Serial No.		5089	

**GFM436 Final Inspection & Calibration
Check Certificate**

GAS DATA LTD

Unit 4, Fairfield Court

Seven Stars Estate

Wheler Rd

Coventry

CV3 4LJ

Tel 02476303311



GAS DATA
LISTEN • ANALYSE • INFORM

Fax 02476307711

Customer	Ground Gas Solutions Ltd
Certificate Number	123618
Order Number	332537

Serial Number	13585
Software Version	G436-00.0029/0010

Recalibration DUE Date
02/11/23

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	450	Accept > 200 cc/min	Pump Flow @ -200mB	300	Accept > 200 cc/min
Clock Set / Running	✓		Labels Fitted	✓	

Gas Checks						
Sensor	CH ₄		CO ₂		O ₂	
	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %
	Readings %		Readings %		Readings %	
	60.7	60	40.5	40	20.9	20.9
	Accept ±3.0		Accept ±3.0		Accept ±0.5	
	5.0	5	5.0	5	6.0	6
	Accept ±0.3		Accept ±0.3		Accept ±0.3	
Zero Reading 100% N ₂	0.0	0	0.0	0	0.0	0
	Accept ±0.0		Accept ±0.0		Accept ±0.1	

Optional Gas Checks						
Applied Gas & Range		Concentration Tested @ (ppm)	Instrument Readings (ppm)			
Gas Type	Range (ppm)		Zero Reading		Instrument Gas Reading	
H ₂ S	5000	1500	0	Accept ±0.0	1500	Accept ±5.0
CO	2000	1000	0	Accept ±0.0	997	Accept ±5.0
Hexane	2.0%	2.0%	0	Accept ±0.0	1.99	Accept ±10.0

Cross Gas Effects									
Applied Gas (ppm)		Instrument Readings (ppm)							
Gas Type	Concentration	Toxic 1:	H2S	Toxic 2:	CO	Toxic 3:	HEX		
H2S	1500	1500		0		0			
CO	1000	50		997		0			
Hexane	2.0%	0		0		1.99			

Pressure Checks			
Atmospheric Pressure [AP] (mB)			
Current Atmospheric Pressure (mB)		Instrument Atmospheric Pressure Reading (mB)	
AP Open Ports		987	Accept ± 2.0
AP Port (Internal)	+800 mB	800	Accept ± 5.0
	+1200mb	1200	Accept ± 5.0

Flow Checks					
Borehole Flow			Differential Pressure		
Applied Reading (l/h)	Instrument Reading (l/h)		Applied Pressure (Pa)	Instrument Reading (Pa)	
-30	-29.8	Accept ± 3.0	-281	-280	Accept ± 50
-3	-3.0	Accept ± 1.0	-15	-15	Accept ± 6.0
0	0.0	Accept ± 0.0	0	0	Accept ± 0.5
3	3.0	Accept ± 0.5	17	16	Accept ± 3.0
30	29.9	Accept ± 3.0	362	358	Accept ± 50
60	60.0	Accept ± 6.0	1121	1113	Accept ± 130
90	90.9	Accept ± 9.0	2228	>>>>	Accept ± 250

Temperature Checks		
Calibration Temperature	Instrument Temperature Reading $^{\circ}\text{C}$	
Applied Temperature $^{\circ}\text{C}$		
-10	-10.0	Accept ± 2.0
0	0.0	Accept ± 1.0
30	30.0	Accept ± 1.0
60	60.0	Accept ± 1.0
100	100.0	Accept ± 1.0

Technician:
<i>Jack Rutland</i>

Date Tested:
<i>02/11/2022</i>

The instrument identified by the serial number stated above has been tested by Gas Data personnel for calibration accuracy on the date and under the ambient conditions stated. Gas Data Ltd internal BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018 compliant workshop procedures were followed to apply known calibration test gases, gas flow rates, pressures and temperatures of the values stated.

The results displayed on the instrument at each stage are recorded above.

Gas Data Ltd is certified to BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018.

TEST DATE AND CONDITIONS			
Date	2.11.22		
Atmospheric Pressure	988	mB	
Ambient Temperature	22.1	°C	
EnviroNics Serial No.	5089		

GAS DATA LTD Unit 4 Fairfield Court Seven Stars Estate Coventry CV3 4LJ UK +44 (0)24 7630 3311	 GAS DATA LISTEN - ANALYSE - INFORM
--	--

GFM436-1 OUTWARD INSPECTION & QUALITY CHECK SHEET

INSTRUMENT DETAILS			
SO Number	Instrument Type	Instrument Serial Number + SW Version	Job Number(s)
332537	GFM436	13585 G436-29/10	123612

Calibration Technician *[Signature]*

Date 2.11.22

Inspection Technician *[Signature]*

Date 1.12.22

INSTRUMENT CHECKS		Pass (P), Fail (F) or not applicable (NA)		INSTRUMENT PACKING LIST		Tick if included
Function Tests	Dust Caps Fitted	P		Instrument		✓
	Keyboard Test (All Keys)	P		Leather Case		✓
	Backlight	P		Instrument Strap		✓
	Clock Set / Running	P		AC Battery Charger (UK)		✓
	Comms Test	P		AC Battery Charger (EURO)		X
	Pump Flow Test (In & Out)	P		AC Battery Charger (US)		X
	Overall Leak Test (30mB)	n/a		AC Battery Charger (AUS)		X
	Battery Charge Test	P		Gas Sample Pipe - (new issue)		X
	Service Date set to?	2.11.23		Flow Sample Pipe - (new issue)		X
Channel Tests	Data Logging Enabled?	P		Hard Carry Case		✓
	Verify CH4/LEL/Hexane/PID	P		Spares Pot		✓
	Verify CO2	P		Allen Key		✓
	Verify O2	P		Temperature Probe		X
	Verify H2S	P		Vane Anemometer		X
	Verify CO	P		USB Cable		✓
	Verify LEL	P		USB Memory stick		✓
	Verify 1 st Option Gas	N/A		SM V5 Software	Ver 6.05	✓
	Verify Atmospheric pressure	P		Internal Filter Pack	Qty	X
	Verify differential pressure	P		External Filter Pack	Qty	X
	Verify flow	P		Field Guide		X
	Verify temperature probe input	P		Extra Items: Sample Tube		
	Verify vane anemometer input	P				
DataBase Checks	Jobcard(s) completed and signed	P		Comments:		
	Jobcard(s) booked off database	P				
	Calibration certificate completed	P				
	Complete & print QI record	n/a				
Label Checks	No. of Calibration label fitted	GDC	11656			
	MCERTS label displayed	N/A				
	Warranty label fitted	P				
H2S Range	H2S Range from Sales Order	5000	ppm			
	H2S Range from Cal Cert	5000	ppm			
	Over-range value correct?	P				

CALIBRATION CERTIFICATE:

Certificate ref.	CGDTCAL_
Issued By:	CGD Technology Limited
Date:	24/04/2023
Staff:	Varghese Abraham
Instrument:	GasClam
Serial Number:	123-03-10



Calibration Results			
Sensor	Lot No.	Reference Value	Indicated Value
Hydrogen sulphide	C24438	118	125
Carbon monoxide	C22238	41	42
Methane	C322626	59.31	57.8
Carbon dioxide	C322626	40.69	41.3
Oxygen	C322626	0	-0.5
Isobutylene	-	-	-
Atmospheric pressure	VAISALA-PTU301	1000.2	1000
Borehole pressure	VAISALA-PTU301	1000.2	1000
Temperature	VAISALA-PTU301	20.7	22.8

Comments:

Prior to calibration the GasClam was allowed to stabilise in ambient air for 1 hour taking measurements at 3 minute intervals.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

Pressure was calibrated using a known artificially generated higher pressure.

The reference values are those generated by the certified source and indicated values are those measured by the GasClam.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

Ambient conditions	
Temperature	20.7
Atmospheric Pressure	1000.2
Relative Humidity	38.8

CGDT Technology Ltd, Pythia House (unit 10)
Bamford Business Park, Hibbert street
Stockport, SK4 1PL

CALIBRATION CERTIFICATE:

Certificate ref.	CGDTCAL_
Issued By:	CGD Technology Limited
Date:	24/04/2023
Staff:	Varghese Abraham
Instrument:	GasClam
Serial Number:	124-03-23



Calibration Results			
Sensor	Lot No.	Reference Value	Indicated Value
Hydrogen sulphide	C24438	118	118
Carbon monoxide	C22238	41	41
Methane	C322626	59.31	59.3
Carbon dioxide	C322626	40.69	38.9
Oxygen	C322626	0	-0.1
Isobutylene	-	-	-
Atmospheric pressure	VAISALA-PTU301	1001	998
Borehole pressure	VAISALA-PTU301	1001	998
Temperature	VAISALA-PTU301	19.3	19

Comments:

Prior to calibration the GasClam was allowed to stabilise in ambient air for 1 hour taking measurements at 3 minute intervals.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

Pressure was calibrated using a known artificially generated higher pressure.

The reference values are those generated by the certified source and indicated values are those measured by the GasClam.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

Ambient conditions	
Temperature	19.3
Atmospheric Pressure	1001
Relative Humidity	43.1

CGDT Technology Ltd, Pythia House (unit 10)
Bamford Business Park, Hibbert street
Stockport, SK4 1PL

CALIBRATION CERTIFICATE:

Certificate ref.	CGDTCAL_
Issued By:	CGD Technology Limited
Date:	24/04/2023
Staff:	Varghese Abraham
Instrument:	GasClam
Serial Number:	126-03-10



Calibration Results			
Sensor	Lot No.	Reference Value	Indicated Value
Hydrogen sulphide	C24438	118	125
Carbon monoxide	C22238	41	42
Methane	C322626	59.31	60.1
Carbon dioxide	C322626	40.69	41.6
Oxygen	C322626	0	0.1
Isobutylene	-	-	-
Atmospheric pressure	VAISALA-PTU301	1001.6	998
Borehole pressure	VAISALA-PTU301	1001.6	998
Temperature	VAISALA-PTU301	20.9	22.3

Comments:

Prior to calibration the GasClam was allowed to stabilise in ambient air for 1 hour taking measurements at 3 minute intervals.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

Pressure was calibrated using a known artificially generated higher pressure.

The reference values are those generated by the certified source and indicated values are those measured by the GasClam.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

Ambient conditions	
Temperature	20.9
Atmospheric Pressure	1001.6
Relative Humidity	39.6

CGDT Technology Ltd, Pythia House (unit 10)
Bamford Business Park, Hibbert street
Stockport, SK4 1PL

CALIBRATION CERTIFICATE:

Certificate ref.	CGDTCAL_
Issued By:	CGD Technology Limited
Date:	24/04/2023
Staff:	Varghese Abraham
Instrument:	GasClam
Serial Number:	221-03-12



Calibration Results			
Sensor	Lot No.	Reference Value	Indicated Value
Hydrogen sulphide	C24438	118	116
Carbon monoxide	C22238	41	41
Methane	C322626	59.31	58.6
Carbon dioxide	C322626	40.69	42.1
Oxygen	C322626	0	-0.1
Isobutylene	-	-	-
Atmospheric pressure	VAISALA-PTU301	1001.7	997
Borehole pressure	VAISALA-PTU301	1001.7	997
Temperature	VAISALA-PTU301	20.5	22.6

Comments:

Prior to calibration the GasClam was allowed to stabilise in ambient air for 1 hour taking measurements at 3 minute intervals.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

Pressure was calibrated using a known artificially generated higher pressure.

The reference values are those generated by the certified source and indicated values are those measured by the GasClam.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

Ambient conditions	
Temperature	20.5
Atmospheric Pressure	1001.7
Relative Humidity	43.6

CGDT Technology Ltd, Pythia House (unit 10)
Bamford Business Park, Hibbert street
Stockport, SK4 1PL

CALIBRATION CERTIFICATE:

Certificate ref.	CGDTCAL_
Issued By:	CGD Technology Limited
Date:	24/04/2023
Staff:	Varghese Abraham
Instrument:	GasClam
Serial Number:	47-06-18



Calibration Results			
Sensor	Lot No.	Reference Value	Indicated Value
Hydrogen sulphide	C24438	118	122.6
Carbon monoxide	C22238	41	42.5
Methane	C322626	59.31	56.9
Carbon dioxide	C322626	40.69	37.8
Oxygen	C322626	0	0.3
Isobutylene	-	-	-
Atmospheric pressure	VAISALA-PTU301	1001.5	1001
Borehole pressure	VAISALA-PTU301	1001.5	1002
Temperature	VAISALA-PTU301	21.2	21.1

Comments:

Prior to calibration the GasClam was allowed to stabilise in ambient air for 1 hour taking measurements at 3 minute intervals.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

Pressure was calibrated using a known artificially generated higher pressure.

The reference values are those generated by the certified source and indicated values are those measured by the GasClam.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

Ambient conditions	
Temperature	21.2
Atmospheric Pressure	1001.5
Relative Humidity	41.1

CGDT Technology Ltd, Pythia House (unit 10)
Bamford Business Park, Hibbert street
Stockport, SK4 1PL

CALIBRATION CERTIFICATE:

Certificate ref.	CGDTCAL_
Issued By:	CGD Technology Limited
Date:	24/04/2023
Staff:	Varghese Abraham
Instrument:	GasClam
Serial Number:	50-06-18



Calibration Results			
Sensor	Lot No.	Reference Value	Indicated Value
Hydrogen sulphide	C24438	118	122.2
Carbon monoxide	C22238	41	41.5
Methane	C322626	59.31	57.8
Carbon dioxide	C322626	40.69	37.9
Oxygen	C322626	0	0
Isobutylene	-	-	-
Atmospheric pressure	VAISALA-PTU301	1002.6	1003
Borehole pressure	VAISALA-PTU301	1002.6	1003
Temperature	VAISALA-PTU301	21	18

Comments:

Prior to calibration the GasClam was allowed to stabilise in ambient air for 1 hour taking measurements at 3 minute intervals.

The Instrument was calibrated by exposing the sensors to known values of gas concentrations.

Pressure was calibrated using a known artificially generated higher pressure.

The reference values are those generated by the certified source and indicated values are those measured by the GasClam.

Uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2

This provides a level of confidence of uncertainty of approximately 95%

Ambient conditions	
Temperature	21
Atmospheric Pressure	1002.6
Relative Humidity	40.1

CGDT Technology Ltd, Pythia House (unit 10)
Bamford Business Park, Hibbert street
Stockport, SK4 1PL

Certificate of Compliance – IRwin® SXnn

Leak Detector Delivery / Repair Test

Ser.No	Model	SW version	Functions tested	Battery capacity	LED, buzzer buttons	IP54 Checked	Visual inspection
92004377	SXG	4.02.01	X	NEW	X	X	X

SW upgraded: No/ Yes If yes, new SW version:

Irwin Gas Chromatograph		Irwin Hand Probe	
Function test	Compliant	Function test	Compliant
X	X	X	X
Not applicable:		Not submitted:	

IRwin Certified Charging Adapter		Charger Supply	
Function test	Compliant	Function test	Compliant
X	X	X	X
Not submitted:		Not submitted:	

Comments:

This equipment complies with the following explosion protection certificates:

ATEX: Baseefa16ATEX0034X, IECEx: IECEx SP 16.0001X, NEPSI (PRC): GYJ16.1435X, US/CAN: CSA7009539
with rating: Ex ia IIC T3 Ga Ta: -20 to +50°C and is authorized for use in:
 II 1G (EPL Ga / Zone 0)

The above equipment is hereby declared to be in compliance with the quoted certificates and all INFICON production procedures and is hereby released for shipment:

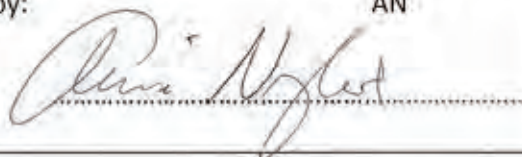
Quality control approvals:

ATEX – SP (SS-EN ISO/IEC 80079-34)
IECEx –SP (ISO/IEC 80079-34)
US/Canada – CSA DQD320
NEPSI – SP (ISO/IEC 80079-34)

Date of certification: 2021-10-13

Performed by: AN

Signature:



RISE
Certifying



CSA
Group



Calibration Certificate - IRwin®

Model: S SX SXT SXG SXGT **Serial no.**

			X		92004377
--	--	--	---	--	----------

Please observe the recommended calibration intervals stated in the manual.

Mode		Range:	Gases used*:	Applicable for:	Checked
Ex		1 % LEL – 100 % LEL	Air, C	SX / SXG SXT / SXGT	X
ExTox		1 % LEL – 100 % LEL CO ₂ : 0.1 Vol% - 5 Vol% O ₂ : 0.1 Vol% - 25 Vol% CO: 1 ppm – 500 ppm H ₂ S: 1 ppm – 400 ppm	Air, F	SXT / SXGT	
Above Ground		1 ppm – 4.4 Vol%	Air, A, B, C	ALL	X
Bar Hole		0.1 Vol% - 100 Vol%	Air, C, D, E	ALL	X
Gas Purity		0.1 Vol% - 100 Vol%	Air, C, D	SX / SXG SXT / SXGT	X
House		1 ppm – 4.4 Vol%	Air, A, B, C	SX / SXG SXT / SXGT	X
Confined Space		1 ppm – 100 Vol%	Air, A, B, C, D	SX / SXG SXT / SXGT	X
GC Analysis		Capability test only	G	SXG / SXGT	X

* See next page for details

This equipment complies with the following certificates:			Applicable for:	Complies
	TÜV Rheinland: 968/FSP 1342.00/16	SW integrity	SX / SXG SXT / SXGT	X
	TÜV Rheinland: S 498 2016 C2	Toxic gases, oxygen LEL	SXT / SXGT	
		Flammable gases (%LEL)	SX / SXG	X
	TÜV Rheinland: TÜV 16 ATEX 7822 x	Additional ATEX requirements	SXT / SXGT	

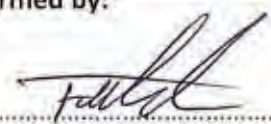
The above equipment is hereby declared to be in compliance with the quoted certificates and all INFICON production procedures:

Date of Calibration: 2021-10-13

Calibration performed by:

TF

Signature:



Gases used to perform Delivery Calibration.

Gas		Composition	Target values	Analyzed /	Uncertainty	Supplier	Cert No	Bottle No
				actual values				
A	10 ppm CH ₄	CH ₄ Synt. air rest	10 ppm	9.85 ppm	± 0.20 Mol-ppm	Air Liquide	27605029	N0A30GF
B	100 ppm CH ₄	CH ₄ Synt. air rest	100 ppm	100 ppm	± 2.0 Mol-ppm	Air Liquide	27534455	N17PX04
C	2.2 Vol% CH ₄	CH ₄ Synt. air rest	2.2 Vol%	2.2 Vol%	± 0.044 Mol-%	Air Liquide	27596083	N1TAYMD
D	100 Vol% CH ₄	CH ₄ N ₂ 5	100 Vol%	>99.5 Vol%	By pressure or mass partition	Air Liquide	n/a	Std gas
E	20 Vol% CO ₂	CO ₂ N ₄ 8 Synt. air rest N ₅ 0	20 Vol%	20.0 Vol%	± 0.4 Mol-%	Air Liquide	27555379	N15T064
F	Tox mix	H ₂ S	40 ppm	41.63 ppm	± 1.2 Mol-ppm	Air Liquide	27596087	N1UWG50
		CO	40 ppm	39.23 ppm	± 0.79 Mol-ppm			
		CO ₂	2.0 Vol%	1.988 Mol-%	± 0.040 Mol-%			
		CH ₄	2.2 Vol%	2.135 Mol-%	± 0.043 Mol-%			
		N ₂ rest						
G	GC mix	CH ₄	1 Vol%	1.0 Mol-%	± 0.020 Mol-%	Air Liquide	27541677	N1G11DA
		C ₂ H ₆	50 ppm	50.0 ppm	± 1.0 ppm			
		C ₃ H ₈	1000 ppm	0.100 Mol-%	± 0.0020 Mol-%			
		Synthetic Air	Rest					

CALIBRATION CERTIFICATE



Certificate ref. GFCAL00006

Issued By: VA

Date: 017/04/2023

Retest: 12 months from issue

Instrument: GasFlow Mk2

Instrument Serial Number: 03020006

Applied Flow Rate ± Ltr/hr (air)	Instrument Reading		Meet Specification
	+ Ltr/hr	- Ltr/hr	
0	0.0	0.0	PASS
1.2	1.1	-1.1	PASS
6	6.6	-6.5	PASS
18	16.6	-16.4	PASS
36	33.3	-33.1	PASS
60	57.4	-57.8	PASS

Ambient Conditions	
Temperature (°C)	20.2 ± 2 °C
Relative Humidity (%RH)	46.5 ± 10%
Barometric Pressure (mB)	1019.6 ± 10%

Notes:

Prior to calibration the instrument was inspected and fully charged.

The Instrument was calibrated using pumped air at ambient room conditions and measured using a rotometer at the outlet.

GasFlow Mk2 Instrument specification error is ±10% of reading or ±1Ltr/hr, whichever is the greater

CALIBRATION CERTIFICATE



Certificate ref. GFCAL00008

Issued By: VA

Date: 18/04/2023 **Retest:** 12 months from issue

Instrument: GasFlow Mk2

Instrument Serial Number: 03020008

Applied Flow Rate ± Ltr/hr (air)	Instrument Reading		Meet Specification
	+ Ltr/hr	- Ltr/hr	
0	0.0	0.0	PASS
1.2	1.3	-1.2	PASS
6	6.2	-6.2	PASS
18	17.4	-17.3	PASS
36	35.4	-33.8	PASS
60	59.4	-59.1	PASS

Ambient Conditions	
Temperature (°C)	21.2 ± 2 °C
Relative Humidity (%RH)	42.8 ± 10%
Barometric Pressure (mB)	1022± 10%

Notes:

Prior to calibration the instrument was inspected and fully charged.

The Instrument was calibrated using pumped air at ambient room conditions and measured using a rotometer at the outlet.

GasFlow Mk2 Instrument specification error is ±10% of reading or ±1Ltr/hr, whichever is the greater

CALIBRATION CERTIFICATE



Certificate ref. GFCAL00009

Issued By: VA

Date: 18/04/2023 **Retest:** 12 months from issue

Instrument: GasFlow Mk2

Instrument Serial Number: 03020009

Applied Flow Rate ± Ltr/hr (air)	Instrument Reading		Meet Specification
	+ Ltr/hr	- Ltr/hr	
0	0.0	0.0	PASS
1.2	1.2	-1.2	PASS
6	5.6	-5.6	PASS
18	16.5	-16.8	PASS
36	35.4	-35.9	PASS
60	60.6	-60.3	PASS

Ambient Conditions	
Temperature (°C)	21.3 ± 2 °C
Relative Humidity (%RH)	43.2 ± 10%
Barometric Pressure (mB)	1020 ± 10%

Notes:

Prior to calibration the instrument was inspected and fully charged.

The Instrument was calibrated using pumped air at ambient room conditions and measured using a rotometer at the outlet.

GasFlow Mk2 Instrument specification error is ±10% of reading or ±1Ltr/hr, whichever is the greater

CALIBRATION CERTIFICATE



Certificate ref. GFCAL00016
Issued By: VA
Date: 25/04/2023 **Retest:** 12 months from issue
Instrument: GasFlow Mk2
Instrument Serial Number: 03020016

Applied Flow Rate ± Ltr/hr (air)	Instrument Reading		Meet Specification
	+ Ltr/hr	- Ltr/hr	
0	0.0	0.0	PASS
1.2	1.2	-1.0	PASS
6	6.0	-6.0	PASS
18	18.0	-17.7	PASS
36	37.6	-36.6	PASS
60	64.3	-64.2	PASS

Ambient Conditions	
Temperature (°C)	20.8
Relative Humidity (%RH)	37.3

Notes:

Prior to calibration the instrument was inspected and fully charged.

The Instrument was calibrated using pumped air at ambient room conditions and measured using a rotometer at the outlet.

GasFlow Mk2 Instrument specification error is $\pm 10\%$ of reading or $\pm 1\text{Ltr/hr}$, whichever is the greater

CALIBRATION CERTIFICATE



Certificate ref. GFCAL00018

Issued By: VA

Date: 21/04/2023 **Retest:** 12 months from issue

Instrument: GasFlow Mk2

Instrument Serial Number: 03020018

Applied Flow Rate ± Ltr/hr (air)	Instrument Reading		Meet Specification
	+ Ltr/hr	- Ltr/hr	
0	0.0	0.0	PASS
1.2	1.1	-1.0	PASS
6	5.6	-5.6	PASS
18	19.4	-19.2	PASS
36	34.5	-35.0	PASS
60	60.2	-59.3	PASS

Ambient Conditions	
Temperature (°C)	20.6 ± 2 °C
Relative Humidity (%RH)	43.0 ± 10%
Barometric Pressure (mB)	1004± 10%

Notes:

Prior to calibration the instrument was inspected and fully charged.

The Instrument was calibrated using pumped air at ambient room conditions and measured using a rotometer at the outlet.

GasFlow Mk2 Instrument specification error is ±10% of reading or ±1Ltr/hr, whichever is the greater

CALIBRATION CERTIFICATE



Certificate ref. GFCAL00020

Issued By: VA

Date: 17/04/2023

Retest: 12 months from issue

Instrument: GasFlow Mk2

Instrument Serial Number: 03020020

Applied Flow Rate ± Ltr/hr (air)	Instrument Reading		Meet Specification
	+ Ltr/hr	- Ltr/hr	
0	0.0	0.0	PASS
1.2	1.1	-1.2	PASS
6	5.6	-5.8	PASS
18	16.4	-16.9	PASS
36	34.6	-35.9	PASS
60	59.9	-60.6	PASS

Ambient Conditions		
Temperature (°C)	20.1	± 2 °C
Relative Humidity (%RH)	52.3	± 10%
Barrometric Pressure (mB)	1008	± 10%

Notes:

Prior to calibration the instrument was inspected and fully charged.

The Instrument was calibrated using pumped air at ambient room conditions and measured using a rotometer at the outlet.

GasFlow Mk2 Instrument specification error is ±10% of reading or ±1Ltr/hr, whichever is the greater