

CERTIFICATION OF CALIBRATION



Date Of Calibration: 13-Jun-2023

Certificate Number: G504748_2/32981

Issued by: QED Environmental Systems Ltd.

Customer: Jackson Drilling Ltd

Jackson Drilling Northwood Farm Coxbridge Road Baltonsborough
GLASTONBURY Somerset BA6 8RA UNITED KINGDOM

Description: Gas Analyser

Model: GA5000

Serial Number: G504748

UKAS Accredited results:

Results after adjustment :

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.0	0.072
15.0	15.1	0.13
60.0	59.7	0.42

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.074
15.0	14.8	0.13
40.0	40.1	0.29

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
20.2	20.3	0.25

The inwards assessment was carried out 19-May-2023.

The maximum adjustment is larger than the specification limit.

Inwards assessment data is available if requested.

All concentrations are molar.

CH₄, CO₂ readings recorded at : 32.1 °C ± 2.5 °C

O₂ readings recorded at : 22.5 °C ± 2.5 °C

Barometric Pressure : 1005 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

The results relate only to the item calibrated

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:117 IGC Instance:117

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QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

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The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage

factor of $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	Instrument Reading
1005	1005

Internal Flow	
Applied (l/hr)	Instrument Reading (l/hr)
5.0	4.9
10.0	9.8

Date of Issue : 14-Jun-2023

Approved by Signatory

Fani Zolota

Laboratory Inspection

End of Certificate

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S1-BH118	1	29/06/2023 10:30	Barometric Pressure	990	mbar	5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Peak Carbon Dioxide	3.6	%	0.5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Steady Carbon Dioxide	3.5	%	0.5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Carbon Monoxide	6	ppm	2	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Gas Flow Rate	2.8	l/hr	0.3	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Differential Pressure	0.05	mbar	4	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Steady Oxygen	17.2	%	1	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:30	Peak Oxygen	17.2	%	1	GA5000 SN:G504748	
S1-BH118	1	29/06/2023 10:37	Water Level	7.76	m	0.01	Dip Meter	Base dipped at 14.92m
S1-BH118	1	27/07/2023 10:29	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Peak Oxygen	19.8	%	1	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Steady Oxygen	19.8	%	1	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Differential Pressure	0.1	mbar	4	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Carbon Monoxide	4	ppm	2	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Gas Flow Rate	5.7	l/hr	0.3	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Steady Carbon Dioxide	1.7	%	0.5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Barometric Pressure	977	mbar	5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:29	Peak Carbon Dioxide	1.7	%	0.5	GA5000 SN:G508511	
S1-BH118	1	27/07/2023 10:35	Water Level	6.93	m	0.01	Dip Meter	Base dipped at 14.97m
S1-BH118	1	29/08/2023 13:35	Water Level	7.13	m	0.01	Dip Meter	Base dipped at 15.30m
S1-BH118	1	29/08/2023 13:50	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Peak Oxygen	18.5	%	1	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Steady Oxygen	18.5	%	1	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Steady Carbon Dioxide	2.8	%	0.5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Peak Carbon Dioxide	2.8	%	0.5	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Carbon Monoxide	5	ppm	2	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Gas Flow Rate	7.1	l/hr	0.3	GA5000 SN:G508511	
S1-BH118	1	29/08/2023 13:50	Differential Pressure	-4.91	mbar	4	GA5000 SN:G508511	
S1-BH119	2	29/06/2023 10:33	Differential Pressure	0.02	mbar	4	GA5000	
S1-BH119	2	29/06/2023 10:33	Gas Flow Rate	0.1	l/hr	0.3	GA5000	
S1-BH119	2	29/06/2023 10:33	Carbon Monoxide	1	ppm	2	GA5000	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S1-BH119	2	29/06/2023 10:33	Steady Carbon Dioxide	30.1	%	0.5	GA5000	
S1-BH119	2	29/06/2023 10:33	Barometric Pressure	991	mbar	5	GA5000	
S1-BH119	2	29/06/2023 10:33	Peak Carbon Dioxide	30.1	%	0.5	GA5000	
S1-BH119	2	29/06/2023 10:33	Steady Oxygen	7.1	%	1	GA5000	
S1-BH119	2	29/06/2023 10:33	Peak Oxygen	7.1	%	1	GA5000	
S1-BH119	2	29/06/2023 10:33	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S1-BH119	2	29/06/2023 10:33	Peak Methane	5.7	%	0.5	GA5000	
S1-BH119	2	29/06/2023 10:33	Steady Methane	5.7	%	0.5	GA5000	
S1-BH119	2	29/06/2023 10:35	Water Level	2.16	m	0.01	Dip Meter	Base dipped at 3.60m
S1-BH119	1	29/06/2023 10:52	Steady Methane	0.4	%	0.5	GA5000	
S1-BH119	1	29/06/2023 10:52	Peak Methane	1.6	%	0.5	GA5000	
S1-BH119	1	29/06/2023 10:52	Steady Oxygen	19.5	%	1	GA5000	
S1-BH119	1	29/06/2023 10:52	Peak Oxygen	15.9	%	1	GA5000	
S1-BH119	1	29/06/2023 10:52	Peak Carbon Dioxide	4.9	%	0.5	GA5000	
S1-BH119	1	29/06/2023 10:52	Barometric Pressure	991	mbar	5	GA5000	
S1-BH119	1	29/06/2023 10:52	Carbon Monoxide	0	ppm	2	GA5000	
S1-BH119	1	29/06/2023 10:52	Steady Carbon Dioxide	1.7	%	0.5	GA5000	
S1-BH119	1	29/06/2023 10:52	Gas Flow Rate	0	l/hr	0.3	GA5000	
S1-BH119	1	29/06/2023 10:52	Differential Pressure	-0.07	mbar	4	GA5000	
S1-BH119	1	29/06/2023 10:52	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S1-BH119	1	29/06/2023 11:13	Water Level	7.61	m	0.01	Dip Meter	Base dipped at 15.00m
S1-BH119	1	27/07/2023 10:32	Peak Methane	2.2	%	0.5	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Steady Methane	2.2	%	0.5	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Steady Oxygen	15.2	%	1	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Peak Oxygen	15.2	%	1	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Differential Pressure	19.3	mbar	4	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Gas Flow Rate	1.7	l/hr	0.3	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Steady Carbon Dioxide	5.4	%	0.5	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Barometric Pressure	975	mbar	5	GA5000 SN:G504748	
S1-BH119	1	27/07/2023 10:32	Peak Carbon Dioxide	5.4	%	0.5	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Peak Carbon Dioxide	28.9	%	0.5	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Barometric Pressure	975	mbar	5	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Steady Carbon Dioxide	28.8	%	0.5	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Differential Pressure	-0.07	mbar	4	GA5000 SN:G504748	
S1-BH119	2	27/07/2023 10:38	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited		
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks	
S1-BH119	2	27/07/2023 10:38	Steady Oxygen	0.4	%	1	GA5000 SN:G504748		
S1-BH119	2	27/07/2023 10:38	Peak Oxygen	0.4	%	1	GA5000 SN:G504748		
S1-BH119	2	27/07/2023 10:38	Peak Methane	27.6	%	0.5	GA5000 SN:G504748		
S1-BH119	2	27/07/2023 10:38	Steady Methane	27.6	%	0.5	GA5000 SN:G504748		
S1-BH119	1	27/07/2023 10:42	Water Level	7.97	m	0.01	Dip Meter	Base dipped at 15.35m	
S1-BH119	2	27/07/2023 10:44	Water Level	2.67	m	0.01	Dip Meter	Base dipped at 4.00m	
S1-BH119	1	29/08/2023 12:45	Steady Methane	1.9	%	0.5	GA5000 SN:G508511		
S1-BH119	1	29/08/2023 12:45	Peak Methane	1.9	%	0.5	GA5000 SN:G508511		
S1-BH119	1	29/08/2023 12:45	Peak Oxygen	16.2	%	1	GA5000 SN:G508511		
S1-BH119	1	29/08/2023 12:45	Steady Oxygen	16.2	%	1	GA5000 SN:G508511		
S1-BH119	1	29/08/2023 12:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S1-BH119	1	29/08/2023 12:45	Differential Pressure	3.88	mbar	4	GA5000 SN:G508511		
S1-BH119	1	29/08/2023 12:45	Gas Flow Rate	4.5	l/hr	0.3	GA5000 SN:G508511		
S1-BH119	1	29/08/2023 12:45	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511		
S1-BH119	1	29/08/2023 12:45	Steady Carbon Dioxide	4.9	%	0.5	GA5000 SN:G508511		
S1-BH119	1	29/08/2023 12:45	Barometric Pressure	983	mbar	5	GA5000 SN:G508511		
S1-BH119	1	29/08/2023 12:45	Peak Carbon Dioxide	4.9	%	0.5	GA5000 SN:G508511		
S1-BH119	2	29/08/2023 12:52	Peak Carbon Dioxide	26.5	%	0.5	GA5000 SN:G508511		
S1-BH119	2	29/08/2023 12:52	Barometric Pressure	983	mbar	5	GA5000 SN:G508511		
S1-BH119	2	29/08/2023 12:52	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511		
S1-BH119	2	29/08/2023 12:52	Steady Carbon Dioxide	26.4	%	0.5	GA5000 SN:G508511		
S1-BH119	2	29/08/2023 12:52	Gas Flow Rate	-0.3	l/hr	0.3	GA5000 SN:G508511		
S1-BH119	2	29/08/2023 12:52	Differential Pressure	0.07	mbar	4	GA5000 SN:G508511		
S1-BH119	2	29/08/2023 12:52	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S1-BH119	2	29/08/2023 12:52	Steady Oxygen	0.9	%	1	GA5000 SN:G508511		
S1-BH119	2	29/08/2023 12:52	Peak Oxygen	0.9	%	1	GA5000 SN:G508511		
S1-BH119	2	29/08/2023 12:52	Peak Methane	28.2	%	0.5	GA5000 SN:G508511		
S1-BH119	2	29/08/2023 12:52	Steady Methane	28	%	0.5	GA5000 SN:G508511		
S1-BH119	1	29/08/2023 12:54	Water Level	8	m	0.01	Dip Meter	Base dipped at 15.20m	
S1-BH119	2	29/08/2023 12:56	Water Level	3.17	m	0.01	Dip Meter	Base dipped at 4.00m	
S1-BH120	1	29/06/2023 12:06	Steady Methane	0.3	%	0.5	GA5000		
S1-BH120	1	29/06/2023 12:06	Peak Methane	1.3	%	0.5	GA5000		
S1-BH120	1	29/06/2023 12:06	Steady Oxygen	21.4	%	1	GA5000		
S1-BH120	1	29/06/2023 12:06	Peak Oxygen	18.6	%	1	GA5000		
S1-BH120	1	29/06/2023 12:06	Hydrogen Sulphide	2	ppm	1.5	GA5000		
S1-BH120	1	29/06/2023 12:06	Gas Flow Rate	0	l/hr	0.3	GA5000		
S1-BH120	1	29/06/2023 12:06	Gas Flow Rate	0.02	l/hr	0.3	GA5000		
S1-BH120	1	29/06/2023 12:06	Carbon Monoxide	11	ppm	2	GA5000		
S1-BH120	1	29/06/2023 12:06	Steady Carbon Dioxide	0.4	%	0.5	GA5000		



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S1-BH120	1	29/06/2023 12:06	Peak Carbon Dioxide	1.3	%	0.5	GA5000	
S1-BH120	1	29/06/2023 12:06	Barometric Pressure	991	mbar	5	GA5000	
S1-BH120	1	29/06/2023 12:10	Water Level	9.27	m	0.01	Dip Meter	Base dipped at 19.41m
S1-BH120	1	27/07/2023 12:04	Steady Methane	1.2	%	0.5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Peak Methane	1.2	%	0.5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Steady Oxygen	14.8	%	1	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Peak Oxygen	14.8	%	1	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Barometric Pressure	975	mbar	5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Peak Carbon Dioxide	3.5	%	0.5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Steady Carbon Dioxide	3.5	%	0.5	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:04	Gas Flow Rate	2.6	l/hr	0.3	GA5000 SN:G504748	
S1-BH120	1	27/07/2023 12:07	Water Level	9.1	m	0.01	Dip Meter	Base dipped at 20.54m
S1-BH120	1	29/08/2023 14:16	Water Level	9.1	m	0.01	Dip Meter	Base dipped at 20.40m
S1-BH120	1	29/08/2023 14:20	Steady Methane	0.6	%	0.5	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Peak Methane	0.9	%	0.5	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Steady Oxygen	18.2	%	1	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Peak Oxygen	16.3	%	1	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Gas Flow Rate	4	l/hr	0.3	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Differential Pressure	1.47	mbar	4	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Peak Carbon Dioxide	2.7	%	0.5	GA5000 SN:G508511	
S1-BH120	1	29/08/2023 14:20	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH204	1	28/06/2023 14:03	Barometric Pressure	995	mbar	5	GA5000	
S2-BH204	1	28/06/2023 14:03	Peak Carbon Dioxide	6.8	%	0.5	GA5000	
S2-BH204	1	28/06/2023 14:03	Steady Carbon Dioxide	6.8	%	0.5	GA5000	
S2-BH204	1	28/06/2023 14:03	Differential Pressure	-0.1	mbar	4	GA5000	
S2-BH204	1	28/06/2023 14:03	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH204	1	28/06/2023 14:03	Carbon Monoxide	3	ppm	2	GA5000	
S2-BH204	1	28/06/2023 14:03	Gas Flow Rate	-0.07	l/hr	0.3	GA5000	
S2-BH204	1	28/06/2023 14:03	Peak Oxygen	11.3	%	1	GA5000	
S2-BH204	1	28/06/2023 14:03	Steady Oxygen	11.3	%	1	GA5000	
S2-BH204	1	28/06/2023 14:03	Peak Methane	0	%	0.5	GA5000	
S2-BH204	1	28/06/2023 14:03	Steady Methane	0	%	0.5	GA5000	
S2-BH204	1	28/06/2023 14:15	LNAPL	27.84	m	0.01	Interface Probe	Base dipped at 31.16m.
S2-BH204	1	28/07/2023 13:36	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH204	1	28/07/2023 13:36	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Steady Oxygen	11.5	%	1	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Peak Oxygen	11.5	%	1	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Gas Flow Rate	-0.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Differential Pressure	0.12	mbar	4	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Peak Carbon Dioxide	6.4	%	0.5	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Steady Carbon Dioxide	6.4	%	0.5	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:36	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH204	1	28/07/2023 13:46	Water Level	27.58	m	0.01	Dip Meter	Base dipped at 30.16m
S2-BH204	1	04/09/2023 09:29	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Steady Oxygen	11.8	%	1	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Peak Oxygen	11.8	%	1	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Barometric Pressure	986	mbar	5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Steady Carbon Dioxide	6.7	%	0.5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Peak Carbon Dioxide	6.7	%	0.5	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Differential Pressure	0.09	mbar	4	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:29	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH204	1	04/09/2023 09:34	Water Level	28.11	m	0.01	Dip Meter	Base dipped at 30.17m
S2-BH207	1	28/06/2023 14:08	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Peak Oxygen	20.5	%	1	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Steady Oxygen	20.6	%	1	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Differential Pressure	0.72	mbar	4	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Steady Carbon Dioxide	1.1	%	0.5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Peak Carbon Dioxide	1.1	%	0.5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:08	Barometric Pressure	992	mbar	5	GA5000 SN:G504748	
S2-BH207	1	28/06/2023 14:16	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 40.23m
S2-BH207	1	28/07/2023 14:35	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Steady Oxygen	20.2	%	1	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Peak Oxygen	19.9	%	1	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH207	1	28/07/2023 14:35	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Peak Carbon Dioxide	1.7	%	0.5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Steady Carbon Dioxide	1.7	%	0.5	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Differential Pressure	-0.14	mbar	4	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:35	Gas Flow Rate	0.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH207	1	28/07/2023 14:41	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 39.81m
S2-BH207	1	04/09/2023 09:37	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Peak Oxygen	20.4	%	1	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Steady Oxygen	20.6	%	1	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Differential Pressure	0.12	mbar	4	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Steady Carbon Dioxide	1.5	%	0.5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Barometric Pressure	986	mbar	5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:37	Peak Carbon Dioxide	1.5	%	0.5	GA5000 SN:G508511	
S2-BH207	1	04/09/2023 09:40	Water Level		m	0.01	Dip Meter	Base dipped at 39.92m Dry
S2-BH208	1	28/06/2023 14:30	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Steady Oxygen	20.4	%	1	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Peak Oxygen	20.4	%	1	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Peak Carbon Dioxide	1.8	%	0.5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Barometric Pressure	992	mbar	5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Steady Carbon Dioxide	1.7	%	0.5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Differential Pressure	3.28	mbar	4	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Carbon Monoxide	2	ppm	2	GA5000 SN:G504748	
S2-BH208	1	28/06/2023 14:30	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748klk	
S2-BH208	1	28/06/2023 14:39	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 40.28m
S2-BH208	1	28/07/2023 14:54	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Peak Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Steady Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Gas Flow Rate	0.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Differential Pressure	-0.16	mbar	4	GA5000 SN:G508511	
S2-BH208	1	28/07/2023 14:54	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited		
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks	
S2-BH208	1	28/07/2023 14:54	Steady Carbon Dioxide	2.3	%	0.5	GA5000 SN:G508511		
S2-BH208	1	28/07/2023 14:54	Barometric Pressure	983	mbar	5	GA5000 SN:G508511		
S2-BH208	1	28/07/2023 14:54	Peak Carbon Dioxide	2.3	%	0.5	GA5000 SN:G508511		
S2-BH208	1	28/07/2023 15:02	Water Level	32.56	m	0.01	Dip Meter	Base dipped at 39.98m	
S2-BH208	1	04/09/2023 09:41	Steady Methane	0	%	0.5	GA5000 SN:G508511		
S2-BH208	1	04/09/2023 09:41	Peak Methane	0	%	0.5	GA5000 SN:G508511		
S2-BH208	1	04/09/2023 09:41	Steady Oxygen	20.2	%	1	GA5000 SN:G508511		
S2-BH208	1	04/09/2023 09:41	Peak Oxygen	20.2	%	1	GA5000 SN:G508511		
S2-BH208	1	04/09/2023 09:41	Barometric Pressure	988	mbar	5	GA5000 SN:G508511		
S2-BH208	1	04/09/2023 09:41	Steady Carbon Dioxide	2.1	%	0.5	GA5000 SN:G508511		
S2-BH208	1	04/09/2023 09:41	Peak Carbon Dioxide	2.1	%	0.5	GA5000 SN:G508511		
S2-BH208	1	04/09/2023 09:41	Differential Pressure	0.2	mbar	4	GA5000 SN:G508511		
S2-BH208	1	04/09/2023 09:41	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S2-BH208	1	04/09/2023 09:41	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511		
S2-BH208	1	04/09/2023 09:41	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511		
S2-BH208	1	04/09/2023 09:43	Water Level	34.92	m	0.01	Dip Meter	Base dipped at 39.96m	
S2-BH210	1	28/06/2023 14:40	Peak Methane	0.4	%	0.5	GA5000		
S2-BH210	1	28/06/2023 14:40	Steady Methane	0.4	%	0.5	GA5000		
S2-BH210	1	28/06/2023 14:40	Peak Oxygen	20.6	%	1	GA5000		
S2-BH210	1	28/06/2023 14:40	Steady Oxygen	21.5	%	1	GA5000		
S2-BH210	1	28/06/2023 14:40	Carbon Monoxide	4	ppm	2	GA5000		
S2-BH210	1	28/06/2023 14:40	Gas Flow Rate	0.3	l/hr	0.3	GA5000		
S2-BH210	1	28/06/2023 14:40	Hydrogen Sulphide	1	ppm	1.5	GA5000		
S2-BH210	1	28/06/2023 14:40	Differential Pressure	-0.12	mbar	4	GA5000		
S2-BH210	1	28/06/2023 14:40	Steady Carbon Dioxide	0.4	%	0.5	GA5000		
S2-BH210	1	28/06/2023 14:40	Peak Carbon Dioxide	0.4	%	0.5	GA5000		
S2-BH210	1	28/06/2023 14:40	Barometric Pressure	993	mbar	5	GA5000		
S2-BH210	1	28/06/2023 14:45	Water Level	37.62	m	0.01	Dip Meter	Base dipped at 39.91m	
S2-BH210	1	28/07/2023 14:46	Peak Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH210	1	28/07/2023 14:46	Steady Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH210	1	28/07/2023 14:46	Peak Oxygen	20.1	%	1	GA5000 SN:G504748		
S2-BH210	1	28/07/2023 14:46	Steady Oxygen	20.1	%	1	GA5000 SN:G504748		
S2-BH210	1	28/07/2023 14:46	Barometric Pressure	981	mbar	5	GA5000 SN:G504748		
S2-BH210	1	28/07/2023 14:46	Peak Carbon Dioxide	1.6	%	0.5	GA5000 SN:G504748		
S2-BH210	1	28/07/2023 14:46	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G504748		
S2-BH210	1	28/07/2023 14:46	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748		
S2-BH210	1	28/07/2023 14:46	Differential Pressure	-0.02	mbar	4	GA5000 SN:G504748		
S2-BH210	1	28/07/2023 14:46	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH210	1	28/07/2023 14:46	Carbon Monoxide	8	ppm	2	GA5000 SN:G504748		



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH210	1	28/07/2023 14:48	Water Level	38.56	m	0.01	Dip Meter	Base dipped at 39.78m
S2-BH210	1	04/09/2023 09:46	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Steady Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Peak Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Carbon Monoxide	6	ppm	2	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Differential Pressure	-0.01	mbar	4	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Steady Carbon Dioxide	1.1	%	0.5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Peak Carbon Dioxide	1.1	%	0.5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:46	Barometric Pressure	986	mbar	5	GA5000 SN:G508511	
S2-BH210	1	04/09/2023 09:49	Water Level	37.68	m	0.01	Dip Meter	Base dipped at 39.89m
S2-BH214	1	30/06/2023 10:14	Steady Methane	0	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:14	Peak Methane	0	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:14	Steady Oxygen	21.3	%	1	GA5000	
S2-BH214	1	30/06/2023 10:14	Peak Oxygen	21.3	%	1	GA5000	
S2-BH214	1	30/06/2023 10:14	Barometric Pressure	988	mbar	5	GA5000	
S2-BH214	1	30/06/2023 10:14	Steady Carbon Dioxide	0.3	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:14	Peak Carbon Dioxide	0.4	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:14	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH214	1	30/06/2023 10:14	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH214	1	30/06/2023 10:14	Differential Pressure	0.19	mbar	4	GA5000	
S2-BH214	1	30/06/2023 10:14	Gas Flow Rate	0.3	l/hr	0.3	GA5000	
S2-BH214	1	30/06/2023 10:15	Gas Flow Rate	0.3	l/hr	0.3	GA5000	
S2-BH214	1	30/06/2023 10:15	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH214	1	30/06/2023 10:15	Differential Pressure	0.19	mbar	4	GA5000	
S2-BH214	1	30/06/2023 10:15	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH214	1	30/06/2023 10:15	Steady Carbon Dioxide	0.3	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:15	Barometric Pressure	988	mbar	5	GA5000	
S2-BH214	1	30/06/2023 10:15	Peak Carbon Dioxide	0.4	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:15	Steady Oxygen	21.3	%	1	GA5000	
S2-BH214	1	30/06/2023 10:15	Peak Oxygen	21.3	%	1	GA5000	
S2-BH214	1	30/06/2023 10:15	Peak Methane	0	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:15	Steady Methane	0	%	0.5	GA5000	
S2-BH214	1	30/06/2023 10:23	Water Level	29.36		0.01	Dip Meter	Base dipped at 30.05m
S2-BH214	1	30/06/2023 10:24	Water Level	29.36	m	0.01	Dip Meter	Base dipped at 30.05m
S2-BH214	1	31/07/2023 15:56	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH214	1	31/07/2023 15:56	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Peak Oxygen	19.4	%	1	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Steady Oxygen	19.4	%	1	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Peak Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Barometric Pressure	979	mbar	5	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Steady Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Differential Pressure	0.12	mbar	4	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 15:56	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH214	1	31/07/2023 16:06	Water Level	29.09	m	0.01	Dip Meter	Base dipped at 29.60m
S2-BH214	1	29/08/2023 09:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Steady Oxygen	20.2	%	1	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Peak Oxygen	20.2	%	1	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Steady Carbon Dioxide	0.4	%	0.5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Peak Carbon Dioxide	0.5	%	0.5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:45	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH214	1	29/08/2023 09:56	Water Level	29.24	m	0.01	Dip Meter	Base dipped at 29.91m
S2-BH217	1	06/07/2023 12:41	Water Level	15.62	m	0.01	Dip Meter	Base dipped at 29.55m
S2-BH217	1	28/07/2023 10:23	Steady Oxygen	17.1	%	1	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Peak Oxygen	17.1	%	1	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Barometric Pressure	980	mbar	5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Peak Carbon Dioxide	2.9	%	0.5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Steady Carbon Dioxide	2.9	%	0.5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Differential Pressure	-2.67	mbar	4	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Gas Flow Rate	14.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH217	1	28/07/2023 10:23	Carbon Monoxide	6	ppm	2	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Gas Flow Rate	0.3	l/hr	0.3	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Differential Pressure	-0.03	mbar	4	GA5000 SN:G504748	
S2-BH217	2	28/07/2023 10:29	Steady Carbon Dioxide	5.6	%	0.5	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited		
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks	
S2-BH217	2	28/07/2023 10:29	Barometric Pressure	980	mbar	5	GA5000 SN:G504748		
S2-BH217	2	28/07/2023 10:29	Peak Carbon Dioxide	5.6	%	0.5	GA5000 SN:G504748		
S2-BH217	2	28/07/2023 10:29	Peak Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH217	2	28/07/2023 10:29	Steady Methane	0	%	0.5	GA5000 SN:G504748		
S2-BH217	2	28/07/2023 10:29	Peak Oxygen	2.6	%	1	GA5000 SN:G504748		
S2-BH217	2	28/07/2023 10:29	Steady Oxygen	2.6	%	1	GA5000 SN:G504748		
S2-BH217	1	28/07/2023 10:34	Water Level	17.06	m	0.01	Dip Meter	Base dipped at 29.96m	
S2-BH217	2	28/07/2023 10:38	Water Level	5.62	m	0.01	Dip Meter	Base dipped at 6.10m	
S2-BH217	1	30/08/2023 10:48	Steady Methane	0.1	%	0.5	GA5000 SN:G508511		
S2-BH217	1	30/08/2023 10:48	Peak Methane	0.1	%	0.5	GA5000 SN:G508511		
S2-BH217	1	30/08/2023 10:48	Steady Oxygen	17.8	%	1	GA5000 SN:G508511		
S2-BH217	1	30/08/2023 10:48	Peak Oxygen	16.8	%	1	GA5000 SN:G508511		
S2-BH217	1	30/08/2023 10:48	Barometric Pressure	984	mbar	5	GA5000 SN:G508511		
S2-BH217	1	30/08/2023 10:48	Peak Carbon Dioxide	2.4	%	0.5	GA5000 SN:G508511		
S2-BH217	1	30/08/2023 10:48	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G508511		
S2-BH217	1	30/08/2023 10:48	Differential Pressure	14.6	mbar	4	GA5000 SN:G508511		
S2-BH217	1	30/08/2023 10:48	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S2-BH217	1	30/08/2023 10:48	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511		
S2-BH217	1	30/08/2023 10:48	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Gas Flow Rate	1.36	l/hr	0.3	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Gas Flow Rate	1	l/hr	0.3	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Differential Pressure	1.36	mbar	4	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Differential Pressure	1.36	mbar	4	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Steady Carbon Dioxide	6.1	%	0.5	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Steady Carbon Dioxide	6.1	%	0.5	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Barometric Pressure	984	mbar	5	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Barometric Pressure	984	mbar	5	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Peak Carbon Dioxide	6.1	%	0.5	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Peak Carbon Dioxide	6.1	%	0.5	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Steady Oxygen	0.1	%	1	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Peak Oxygen	0.1	%	1	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Steady Oxygen	0.1	%	1	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Peak Oxygen	0.1	%	1	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Peak Methane	0.1	%	0.5	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Peak Methane	0.1	%	0.5	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Steady Methane	0.1	%	0.5	GA5000 SN:G508511		



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited		
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks	
S2-BH217	2	30/08/2023 10:54	Steady Methane	0.1	%	0.5	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S2-BH217	2	30/08/2023 10:56	Water Level	5.88	m	0.01	Dip Meter	Base dipped at 6.00m	
S2-BH217	1	04/09/2023 14:13	Water Level	16.42	m	0.01	Dip Meter	Base dipped at 29.96m	
S2-BH219	2	30/06/2023 10:47	Peak Methane	0	%	0.5	GA5000 SN:G504748		
S2-BH219	2	30/06/2023 10:47	Steady Methane	0	%	0.5	GA5000 SN:G504748		
S2-BH219	2	30/06/2023 10:47	Steady Oxygen	10.8	%	1	GA5000 SN:G504748		
S2-BH219	2	30/06/2023 10:47	Peak Oxygen	10.8	%	1	GA5000 SN:G504748		
S2-BH219	2	30/06/2023 10:47	Peak Carbon Dioxide	3.4	%	0.5	GA5000 SN:G504748		
S2-BH219	2	30/06/2023 10:47	Barometric Pressure	985	mbar	5	GA5000 SN:G504748		
S2-BH219	2	30/06/2023 10:47	Steady Carbon Dioxide	3.4	%	0.5	GA5000 SN:G504748		
S2-BH219	2	30/06/2023 10:47	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH219	2	30/06/2023 10:47	Differential Pressure	0.17	mbar	4	GA5000 SN:G504748		
S2-BH219	2	30/06/2023 10:47	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748		
S2-BH219	2	30/06/2023 10:47	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748		
S2-BH219	2	30/06/2023 10:52	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 8.66m	
S2-BH219	1	30/06/2023 11:03	Steady Methane	0	%	0.5	GA5000 SN:G504748		
S2-BH219	1	30/06/2023 11:03	Peak Methane	0	%	0.5	GA5000 SN:G504748		
S2-BH219	1	30/06/2023 11:03	Peak Oxygen	16.8	%	1	GA5000 SN:G504748		
S2-BH219	1	30/06/2023 11:03	Steady Oxygen	16.8	%	1	GA5000 SN:G504748		
S2-BH219	1	30/06/2023 11:03	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748		
S2-BH219	1	30/06/2023 11:03	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748		
S2-BH219	1	30/06/2023 11:03	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH219	1	30/06/2023 11:03	Differential Pressure	0.19	mbar	4	GA5000 SN:G504748		
S2-BH219	1	30/06/2023 11:03	Steady Carbon Dioxide	3.8	%	0.5	GA5000 SN:G504748		
S2-BH219	1	30/06/2023 11:03	Barometric Pressure	984	mbar	5	GA5000 SN:G504748		
S2-BH219	1	30/06/2023 11:03	Peak Carbon Dioxide	3.8	%	0.5	GA5000 SN:G504748		
S2-BH219	1	30/06/2023 11:06	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.68m	
S2-BH219	1	28/07/2023 10:21	Steady Methane	0	%	0.5	GA5000 SN:G508511		
S2-BH219	1	28/07/2023 10:21	Peak Methane	0	%	0.5	GA5000 SN:G508511		
S2-BH219	1	28/07/2023 10:21	Steady Oxygen	4.7	%	1	GA5000 SN:G508511		
S2-BH219	1	28/07/2023 10:21	Peak Oxygen	4.7	%	1	GA5000 SN:G508511		
S2-BH219	1	28/07/2023 10:21	Peak Carbon Dioxide	4.7	%	0.5	GA5000 SN:G508511		
S2-BH219	1	28/07/2023 10:21	Barometric Pressure	980	mbar	5	GA5000 SN:G508511		
S2-BH219	1	28/07/2023 10:21	Steady Carbon Dioxide	4.7	%	0.5	GA5000 SN:G508511		
S2-BH219	1	28/07/2023 10:21	Differential Pressure	0.09	mbar	4	GA5000 SN:G508511		
S2-BH219	1	28/07/2023 10:21	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S2-BH219	1	28/07/2023 10:21	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G508511		
S2-BH219	1	28/07/2023 10:21	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511		



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH219	1	28/07/2023 10:25	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.70m
S2-BH219	2	28/07/2023 10:29	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Steady Oxygen	2	%	1	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Peak Oxygen	2	%	1	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Differential Pressure	-0.09	mbar	4	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Steady Carbon Dioxide	5.6	%	0.5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Peak Carbon Dioxide	5.6	%	0.5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:29	Barometric Pressure	981	mbar	5	GA5000 SN:G508511	
S2-BH219	2	28/07/2023 10:35	Water Level	8.35	m	0.01	Dip Meter	Base dipped at 8.69m
S2-BH219	2	30/08/2023 10:41	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Steady Oxygen	0.2	%	1	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Peak Oxygen	0.1	%	1	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Barometric Pressure	985	mbar	5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Peak Carbon Dioxide	5.8	%	0.5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Steady Carbon Dioxide	5.7	%	0.5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Differential Pressure	0.77	mbar	4	GA5000 SN:G508511	
S2-BH219	2	30/08/2023 10:41	Gas Flow Rate	0.4	l/hr	0.3	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:50	Water Level		m	0.01	Dip Meter	Base dipped at 3.68m Dry
S2-BH219	2	30/08/2023 10:54	Water Level	8.63	m	0.01	Dip Meter	Base dipped at 8.71m
S2-BH219	1	30/08/2023 10:55	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Peak Oxygen	2.8	%	1	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Steady Oxygen	3	%	1	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Differential Pressure	-0.05	mbar	4	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Steady Carbon Dioxide	5.5	%	0.5	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Peak Carbon Dioxide	5.8	%	0.5	GA5000 SN:G508511	
S2-BH219	1	30/08/2023 10:55	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S2-BH220	1	28/06/2023 14:58	Barometric Pressure	990	mbar	5	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Peak Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH220	1	28/06/2023 14:58	Steady Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Differential Pressure	0.14	mbar	4	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Carbon Monoxide	2	ppm	2	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Steady Oxygen	21.5	%	1	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Peak Oxygen	21.5	%	1	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 14:58	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Steady Oxygen	21.3	%	1	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Peak Oxygen	21.3	%	1	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Differential Pressure	0.26	mbar	4	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Steady Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Barometric Pressure	990	mbar	5	GA5000 SN:G504748	
S2-BH220	2	28/06/2023 15:05	Peak Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/06/2023 15:13	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 40.30m
S2-BH220	2	28/06/2023 15:17	Water Level	29.7	m	0.01	Dip Meter	Base dipped at 30.20m
S2-BH220	1	28/07/2023 14:22	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Peak Oxygen	20.3	%	1	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Steady Oxygen	20.3	%	1	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Barometric Pressure	979	mbar	5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Steady Carbon Dioxide	0.5	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Peak Carbon Dioxide	0.5	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Differential Pressure	0.07	mbar	4	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:22	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Differential Pressure	-0.07	mbar	4	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Steady Carbon Dioxide	0.9	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Barometric Pressure	979	mbar	5	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH220	2	28/07/2023 14:29	Peak Carbon Dioxide	0.9	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Steady Oxygen	20.5	%	1	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Peak Oxygen	20.5	%	1	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH220	2	28/07/2023 14:29	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH220	1	28/07/2023 14:31	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 40.10
S2-BH220	2	28/07/2023 14:32	Water Level	29.8	m	0.01	Dip Meter	Base dipped at 30.40
S2-BH220	1	04/09/2023 09:50	Steady Oxygen	21.2	%	1	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Peak Oxygen	21.2	%	1	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Peak Carbon Dioxide	0.5	%	0.5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Steady Carbon Dioxide	0.4	%	0.5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:50	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH220	1	04/09/2023 09:52	Water Level		m	0.01	Dip Meter	Base dipped at 40.12m Dry.
S2-BH220	2	04/09/2023 09:56	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Steady Oxygen	19.8	%	1	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Peak Oxygen	19.8	%	1	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Differential Pressure	0.1	mbar	4	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Steady Carbon Dioxide	0.7	%	0.5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Peak Carbon Dioxide	0.8	%	0.5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:56	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH220	2	04/09/2023 09:58	Water Level	29.9	m	0.01	Dip Meter	Base dipped at 30.26m
S2-BH221	1	30/06/2023 11:34	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Peak Oxygen	6	%	1	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Steady Oxygen	6	%	1	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Barometric Pressure	983	mbar	5	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Peak Carbon Dioxide	19.2	%	0.5	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Steady Carbon Dioxide	19.2	%	0.5	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH221	1	30/06/2023 11:34	Differential Pressure	0.03	mbar	4	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:34	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH221	1	30/06/2023 11:39	Water Level		m	0.01	Dip Meter	Damp at base. Base dipped at 9.74m
S2-BH221	1	02/08/2023 11:13	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Steady Oxygen	4.4	%	1	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Peak Oxygen	4.4	%	1	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Differential Pressure	-0.07	mbar	4	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Steady Carbon Dioxide	19.4	%	0.5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Barometric Pressure	956	mbar	5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:13	Peak Carbon Dioxide	19.5	%	0.5	GA5000 SN:G504748	
S2-BH221	1	02/08/2023 11:22	Water Level	9.32	m	0.01	Dip Meter	Base dipped at 9.82m
S2-BH221	1	29/08/2023 10:27	Steady Oxygen	5.2	%	1	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Peak Oxygen	5.2	%	1	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Peak Carbon Dioxide	18.9	%	0.5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Steady Carbon Dioxide	18.9	%	0.5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:27	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH221	1	29/08/2023 10:36	Water Level	9.21	m	0.01	Dip Meter	Base dipped at 9.79m
S2-BH222	1	04/07/2023 14:30	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Peak Oxygen	20.5	%	1	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Steady Oxygen	20.5	%	1	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Differential Pressure	0.24	mbar	4	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Steady Carbon Dioxide	0.5	%	0.5	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:30	Barometric Pressure	971	mbar	5	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH222	1	04/07/2023 14:30	Peak Carbon Dioxide	0.5	%	0.5	GA5000 SN:G508511	
S2-BH222	1	04/07/2023 14:35	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.86m
S2-BH222	2	04/07/2023 14:44	Steady Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Peak Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Steady Oxygen	13.5	%	1	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Peak Oxygen	13.5	%	1	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Barometric Pressure	980	mbar	5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Peak Carbon Dioxide	2.8	%	0.5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Steady Carbon Dioxide	2.8	%	0.5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Differential Pressure	0.1	mbar	4	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:44	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH222	2	04/07/2023 14:50	Water Level		m	0.01	Dip Meter	Borehol dry. Base dipped at 24.60m
S2-BH222	1	01/08/2023 13:07	Peak Methane	0.5	%	0.5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Peak Oxygen	12.2	%	1	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Steady Oxygen	12.3	%	1	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Differential Pressure	0.17	mbar	4	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Peak Carbon Dioxide	2	%	0.5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Steady Carbon Dioxide	1.9	%	0.5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 13:07	Barometric Pressure	972	mbar	5	GA5000 SN:G504748	
S2-BH222	1	01/08/2023 14:12	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.90m
S2-BH222	2	01/08/2023 14:17	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Steady Oxygen	7.1	%	1	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Peak Oxygen	7.1	%	1	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Barometric Pressure	972	mbar	5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Differential Pressure	0.05	mbar	4	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:17	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH222	2	01/08/2023 14:24	Water Level	21.45	m	0.01	Dip Meter	Base dipped at 24.71m
S2-BH222	1	31/08/2023 13:41	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH222	1	31/08/2023 13:41	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Peak Oxygen	3.6	%	1	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Steady Oxygen	3.6	%	1	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Gas Flow Rate	0.6	l/hr	0.3	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Differential Pressure	0	mbar	4	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Steady Carbon Dioxide	0.2	%	0.5	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Barometric Pressure	977	mbar	5	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:41	Peak Carbon Dioxide	2.2	%	0.5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Barometric Pressure	977	mbar	5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Steady Carbon Dioxide	4.1	%	0.5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Peak Carbon Dioxide	4.1	%	0.5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Gas Flow Rate	0.5	l/hr	0.3	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Steady Oxygen	0.4	%	1	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Peak Oxygen	0.4	%	1	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Steady Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH222	2	31/08/2023 13:46	Peak Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH222	1	31/08/2023 13:48	Water Level		m	0.01	Dip Meter	Base dipped at 3.86m Dry
S2-BH222	2	31/08/2023 13:50	Water Level	23.59	m	0.01	Dip Meter	Base dipped at 24.56m
S2-BH223	1	04/07/2023 16:05	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Peak Oxygen	3.5	%	1	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Steady Oxygen	3.5	%	1	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Peak Carbon Dioxide	25.4	%	0.5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Steady Carbon Dioxide	25.4	%	0.5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:05	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH223	1	04/07/2023 16:09	Water Level	6.83	m	0.01	Dip Meter	Base dipped at 7.93m
S2-BH223	1	03/08/2023 10:59	Steady Oxygen	3.7	%	1	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Peak Oxygen	3.7	%	1	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH223	1	03/08/2023 10:59	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited		
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks	
S2-BH223	1	03/08/2023 10:59	Steady Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH223	1	03/08/2023 10:59	Barometric Pressure	978	mbar	5	GA5000 SN:G504748		
S2-BH223	1	03/08/2023 10:59	Peak Carbon Dioxide	18.6	%	0.5	GA5000 SN:G504748		
S2-BH223	1	03/08/2023 10:59	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748		
S2-BH223	1	03/08/2023 10:59	Steady Carbon Dioxide	18.6	%	0.5	GA5000 SN:G504748		
S2-BH223	1	03/08/2023 10:59	Differential Pressure	-0.03	mbar	4	GA5000 SN:G504748		
S2-BH223	1	03/08/2023 10:59	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748		
S2-BH223	1	03/08/2023 11:04	Water Level	6.59	m	0.01	Dip Meter	Base dipped at 9.58m	
S2-BH223	1	31/08/2023 10:05	Peak Methane	0	%	0.5	GA5000 SN:G508511		
S2-BH223	1	31/08/2023 10:05	Steady Methane	0	%	0.5	GA5000 SN:G508511		
S2-BH223	1	31/08/2023 10:05	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S2-BH223	1	31/08/2023 10:05	Peak Oxygen	3.8	%	1	GA5000 SN:G508511		
S2-BH223	1	31/08/2023 10:05	Steady Oxygen	3.8	%	1	GA5000 SN:G508511		
S2-BH223	1	31/08/2023 10:05	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511		
S2-BH223	1	31/08/2023 10:05	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511		
S2-BH223	1	31/08/2023 10:05	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511		
S2-BH223	1	31/08/2023 10:05	Steady Carbon Dioxide	24.4	%	0.5	GA5000 SN:G508511		
S2-BH223	1	31/08/2023 10:05	Peak Carbon Dioxide	24.4	%	0.5	GA5000 SN:G508511		
S2-BH223	1	31/08/2023 10:05	Barometric Pressure	985	mbar	5	GA5000 SN:G508511		
S2-BH223	1	31/08/2023 10:08	Water Level	7.11	m	0.01	Dip Meter	Base dipped at 8.00m	
S2-BH224	1	29/06/2023 16:12	Steady Methane	0	%	0.5	GA5000 SN:G504748		
S2-BH224	1	29/06/2023 16:12	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH224	1	29/06/2023 16:12	Peak Methane	0	%	0.5	GA5000 SN:G504748		
S2-BH224	1	29/06/2023 16:12	Steady Oxygen	21	%	1	GA5000 SN:G504748		
S2-BH224	1	29/06/2023 16:12	Peak Oxygen	20.9	%	1	GA5000 SN:G504748		
S2-BH224	1	29/06/2023 16:12	Barometric Pressure	991	mbar	5	GA5000 SN:G504748		
S2-BH224	1	29/06/2023 16:12	Peak Carbon Dioxide	0.6	%	0.5	GA5000 SN:G504748		
S2-BH224	1	29/06/2023 16:12	Steady Carbon Dioxide	0.5	%	0.5	GA5000 SN:G504748		
S2-BH224	1	29/06/2023 16:12	Differential Pressure	5.5	mbar	4	GA5000 SN:G504748		
S2-BH224	1	29/06/2023 16:12	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748		
S2-BH224	1	29/06/2023 16:12	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748		
S2-BH224	1	29/06/2023 16:17	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 9.47m	
S2-BH224	1	28/07/2023 15:18	Steady Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH224	1	28/07/2023 15:18	Peak Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH224	1	28/07/2023 15:18	Peak Oxygen	20.9	%	1	GA5000 SN:G504748		
S2-BH224	1	28/07/2023 15:18	Steady Oxygen	20.9	%	1	GA5000 SN:G504748		
S2-BH224	1	28/07/2023 15:18	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748		
S2-BH224	1	28/07/2023 15:18	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748		
S2-BH224	1	28/07/2023 15:18	Differential Pressure	0	mbar	4	GA5000 SN:G504748		



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited		
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks	
S2-BH224	1	28/07/2023 15:18	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH224	1	28/07/2023 15:18	Peak Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748		
S2-BH224	1	28/07/2023 15:18	Steady Carbon Dioxide	0.7	%	0.5	GA5000 SN:G504748		
S2-BH224	1	28/07/2023 15:18	Barometric Pressure	978	mbar	5	GA5000 SN:G504748		
S2-BH224	1	28/07/2023 15:23	Water Level	9.1	m	0.01	Dip Meter	Base dipped at 9.90m	
S2-BH224	1	25/08/2023 14:54	Steady Oxygen	20.9	%	1	GA5000 SN:G504748		
S2-BH224	1	25/08/2023 14:54	Peak Oxygen	20.9	%	1	GA5000 SN:G504748		
S2-BH224	1	25/08/2023 14:54	Steady Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH224	1	25/08/2023 14:54	Peak Methane	0.2	%	0.5	GA5000 SN:G504748		
S2-BH224	1	25/08/2023 14:54	Peak Carbon Dioxide	0.1	%	0.5	GA5000 SN:G504748		
S2-BH224	1	25/08/2023 14:54	Barometric Pressure	982	mbar	5	GA5000 SN:G504748		
S2-BH224	1	25/08/2023 14:54	Steady Carbon Dioxide	0.1	%	0.5	GA5000 SN:G504748		
S2-BH224	1	25/08/2023 14:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH224	1	25/08/2023 14:54	Differential Pressure	3.66	mbar	4	GA5000 SN:G504748		
S2-BH224	1	25/08/2023 14:54	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748		
S2-BH224	1	25/08/2023 14:54	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748		
S2-BH224	1	25/08/2023 14:56	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 9.83m	
S2-BH225	1	04/07/2023 15:18	Steady Methane	0	%	0.5	GA5000 SN:G508511		
S2-BH225	1	04/07/2023 15:18	Peak Methane	0	%	0.5	GA5000 SN:G508511		
S2-BH225	1	04/07/2023 15:18	Peak Oxygen	19.6	%	1	GA5000 SN:G508511		
S2-BH225	1	04/07/2023 15:18	Steady Oxygen	21.6	%	1	GA5000 SN:G508511		
S2-BH225	1	04/07/2023 15:18	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511		
S2-BH225	1	04/07/2023 15:18	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511		
S2-BH225	1	04/07/2023 15:18	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S2-BH225	1	04/07/2023 15:18	Peak Carbon Dioxide	0.2	%	0.5	GA5000 SN:G508511		
S2-BH225	1	04/07/2023 15:18	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511		
S2-BH225	1	04/07/2023 15:18	Steady Carbon Dioxide	0.2	%	0.5	GA5000 SN:G508511		
S2-BH225	1	04/07/2023 15:18	Barometric Pressure	979	mbar	5	GA5000 SN:G508511		
S2-BH225	1	04/07/2023 15:23	Water Level	3.98	m	0.01	Dip Meter	Base dipped at 5.89m	
S2-BH225	1	02/08/2023 13:32	Steady Oxygen	0	%	1	GA5000 SN:G504748		
S2-BH225	1	02/08/2023 13:32	Peak Oxygen	0	%	1	GA5000 SN:G504748		
S2-BH225	1	02/08/2023 13:32	Peak Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH225	1	02/08/2023 13:32	Steady Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH225	1	02/08/2023 13:32	Barometric Pressure	954	mbar	5	GA5000 SN:G504748		
S2-BH225	1	02/08/2023 13:32	Peak Carbon Dioxide	6.6	%	0.5	GA5000 SN:G504748		
S2-BH225	1	02/08/2023 13:32	Steady Carbon Dioxide	6.6	%	0.5	GA5000 SN:G504748		
S2-BH225	1	02/08/2023 13:32	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH225	1	02/08/2023 13:32	Differential Pressure	8.04	mbar	4	GA5000 SN:G504748		
S2-BH225	1	02/08/2023 13:32	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748		



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH225	1	02/08/2023 13:32	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH225	1	02/08/2023 13:37	Water Level	3.83	m	0.01	Dip Meter	Base dipped at 5.93m
S2-BH226	1	05/07/2023 11:18	Steady Oxygen	5.2	%	1	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Peak Oxygen	5.2	%	1	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Peak Carbon Dioxide	21.1	%	0.5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Steady Carbon Dioxide	21.1	%	0.5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:18	Barometric Pressure	985	mbar	5	GA5000 SN:G508511	
S2-BH226	1	05/07/2023 11:25	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 9.79m
S2-BH226	1	01/08/2023 15:26	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Peak Oxygen	4.5	%	1	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Steady Oxygen	4.5	%	1	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Peak Carbon Dioxide	18.4	%	0.5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Barometric Pressure	974	mbar	5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Steady Carbon Dioxide	18.4	%	0.5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Differential Pressure	-1.07	mbar	4	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:26	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748	
S2-BH226	1	01/08/2023 15:32	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 9.63m
S2-BH226	1	31/08/2023 10:00	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Steady Oxygen	5.4	%	1	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Peak Oxygen	5.4	%	1	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Differential Pressure	0.07	mbar	4	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Steady Carbon Dioxide	19.3	%	0.5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:00	Peak Carbon Dioxide	19.3	%	0.5	GA5000 SN:G508511	
S2-BH226	1	31/08/2023 10:04	Water Level		m	0.01	Dip Meter	Base dipped at 9.69m Dry.
S2-BH227	2	29/06/2023 15:07	Water Level	11.09	m	0.01	Dip Meter	Base dipped at 14.35m



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH227	2	29/06/2023 15:10	Steady Methane	0	%	0.5	GA5000	
S2-BH227	2	29/06/2023 15:10	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH227	2	29/06/2023 15:10	Peak Methane	0	%	0.5	GA5000	
S2-BH227	2	29/06/2023 15:10	Barometric Pressure	989	mbar	5	GA5000	
S2-BH227	2	29/06/2023 15:10	Steady Carbon Dioxide	5.6	%	0.5	GA5000	
S2-BH227	2	29/06/2023 15:10	Differential Pressure	-0.26	mbar	4	GA5000	
S2-BH227	2	29/06/2023 15:10	Gas Flow Rate	0	l/hr	0.3	GA5000	
S2-BH227	2	29/06/2023 15:10	Carbon Monoxide	3	ppm	2	GA5000	
S2-BH227	2	29/06/2023 16:01	Peak Carbon Dioxide	5.6	%	0.5	GA5000	
S2-BH227	2	29/06/2023 16:01	Steady Oxygen	18.2	%	1	GA5000	
S2-BH227	2	29/06/2023 16:01	Peak Oxygen	18.2	%	1	GA5000	
S2-BH227	1	29/06/2023 16:17	Steady Oxygen	19.9	%	1	GA5000	
S2-BH227	1	29/06/2023 16:17	Peak Oxygen	19.1	%	1	GA5000	
S2-BH227	1	29/06/2023 16:17	Peak Methane	0	%	0.5	GA5000	
S2-BH227	1	29/06/2023 16:17	Steady Methane	0	%	0.5	GA5000	
S2-BH227	1	29/06/2023 16:17	Peak Carbon Dioxide	4.4	%	0.5	GA5000	
S2-BH227	1	29/06/2023 16:17	Barometric Pressure	989	mbar	5	GA5000	
S2-BH227	1	29/06/2023 16:17	Steady Carbon Dioxide	3.1	%	0.5	GA5000	
S2-BH227	1	29/06/2023 16:17	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH227	1	29/06/2023 16:17	Gas Flow Rate	0	l/hr	0.3	GA5000	
S2-BH227	1	29/06/2023 16:17	Differential Pressure	0.09	mbar	4	GA5000	
S2-BH227	1	29/06/2023 16:17	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH227	1	29/06/2023 16:18	Water Level	5.07	m	0.01	Dip Meter	Base dipped at 5.37m.
S2-BH227	1	26/07/2023 11:36	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Steady Oxygen	14.8	%	1	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Peak Oxygen	14.8	%	1	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Differential Pressure	0.14	mbar	4	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Steady Carbon Dioxide	3.6	%	0.5	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Barometric Pressure	981	mbar	5	GA5000 SN:G504748	
S2-BH227	1	26/07/2023 11:36	Peak Carbon Dioxide	3.6	%	0.5	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Peak Carbon Dioxide	5	%	0.5	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Barometric Pressure	981	mbar	5	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Steady Carbon Dioxide	5	%	0.5	GA5000 SN:G504748	
S2-BH227	2	26/07/2023 11:45	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited		
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks	
S2-BH227	2	26/07/2023 11:45	Differential Pressure	0.03	mbar	4	GA5000 SN:G504748		
S2-BH227	2	26/07/2023 11:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH227	2	26/07/2023 11:45	Peak Oxygen	6.3	%	1	GA5000 SN:G504748		
S2-BH227	2	26/07/2023 11:45	Steady Oxygen	6.3	%	1	GA5000 SN:G504748		
S2-BH227	2	26/07/2023 11:45	Peak Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH227	2	26/07/2023 11:45	Steady Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH227	1	26/07/2023 11:48	Water Level	3.34	m	0.01	Dip Meter	Base dipped at 5.53m	
S2-BH227	2	26/07/2023 11:51	Water Level	10.67	m	0.01	Dip Meter	Base dipped at 14.50m	
S2-BH227	2	23/08/2023 10:45	Water Level	13.69	m	0.01	Dip Meter	Base dipped at 14.47m	
S2-BH227	1	23/08/2023 11:30	Water Level	5.02	m	0.01	Dip Meter	Base dipped at 5.49m	
S2-BH227	2	23/08/2023 11:39	Steady Methane	0	%	0.5	GA5000 SN:G508511		
S2-BH227	2	23/08/2023 11:39	Peak Methane	0.1	%	0.5	GA5000 SN:G508511		
S2-BH227	2	23/08/2023 11:39	Steady Oxygen	1.8	%	1	GA5000 SN:G508511		
S2-BH227	2	23/08/2023 11:39	Peak Oxygen	0.1	%	1	GA5000 SN:G508511		
S2-BH227	2	23/08/2023 11:39	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S2-BH227	2	23/08/2023 11:39	Differential Pressure	0	mbar	4	GA5000 SN:G508511		
S2-BH227	2	23/08/2023 11:39	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G508511		
S2-BH227	2	23/08/2023 11:39	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511		
S2-BH227	2	23/08/2023 11:39	Steady Carbon Dioxide	5.1	%	0.5	GA5000 SN:G508511		
S2-BH227	2	23/08/2023 11:39	Barometric Pressure	989	mbar	5	GA5000 SN:G508511		
S2-BH227	2	23/08/2023 11:39	Peak Carbon Dioxide	5.2	%	0.5	GA5000 SN:G508511		
S2-BH227	1	23/08/2023 11:57	Barometric Pressure	989	mbar	5	GA5000 SN:G508511		
S2-BH227	1	23/08/2023 11:57	Steady Carbon Dioxide	7	%	0.5	GA5000 SN:G508511		
S2-BH227	1	23/08/2023 11:57	Peak Carbon Dioxide	7.1	%	0.5	GA5000 SN:G508511		
S2-BH227	1	23/08/2023 11:57	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511		
S2-BH227	1	23/08/2023 11:57	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511		
S2-BH227	1	23/08/2023 11:57	Differential Pressure	0.23	mbar	4	GA5000 SN:G508511		
S2-BH227	1	23/08/2023 11:57	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S2-BH227	1	23/08/2023 11:57	Peak Oxygen	9.5	%	1	GA5000 SN:G508511		
S2-BH227	1	23/08/2023 11:57	Steady Oxygen	9.5	%	1	GA5000 SN:G508511		
S2-BH227	1	23/08/2023 11:57	Peak Methane	0	%	0.5	GA5000 SN:G508511		
S2-BH227	1	23/08/2023 11:57	Steady Methane	0	%	0.5	GA5000 SN:G508511		
S2-BH228	1	29/06/2023 15:00	Steady Methane	0	%	0.5	GA5000 SN:G504748		
S2-BH228	1	29/06/2023 15:00	Peak Methane	0.2	%	0.5	GA5000 SN:G504748		
S2-BH228	1	29/06/2023 15:00	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH228	1	29/06/2023 15:00	Steady Oxygen	21.3	%	1	GA5000 SN:G504748		
S2-BH228	1	29/06/2023 15:00	Peak Oxygen	20.1	%	1	GA5000 SN:G504748		
S2-BH228	1	29/06/2023 15:00	Differential Pressure	0.02	mbar	4	GA5000 SN:G504748		
S2-BH228	1	29/06/2023 15:00	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748		



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH228	1	29/06/2023 15:00	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Peak Carbon Dioxide	0.1	%	0.5	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Steady Carbon Dioxide	0.1	%	0.5	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:00	Barometric Pressure	987	mbar	5	GA5000 SN:G504748	
S2-BH228	1	29/06/2023 15:11	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 36.81m
S2-BH228	1	26/07/2023 12:12	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Steady Oxygen	20.4	%	1	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Peak Oxygen	20.4	%	1	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Peak Carbon Dioxide	1.3	%	0.5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Steady Carbon Dioxide	1.3	%	0.5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:12	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511	
S2-BH228	1	26/07/2023 12:20	Water Level		m	0.01	Dip Meter	Borehole damp at base. Base dipped at 36.61m
S2-BH228	1	23/08/2023 13:51	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Peak Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Peak Oxygen	20.3	%	1	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Differential Pressure	0.06	mbar	4	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Steady Carbon Dioxide	1.1	%	0.5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Peak Carbon Dioxide	1.1	%	0.5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 13:51	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH228	1	23/08/2023 14:04	Water Level		m	0.01	Dip Meter	Base dipped at 36.59m Damp at base.
S2-BH229	2	04/07/2023 13:32	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Peak Oxygen	13.6	%	1	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Steady Oxygen	13.6	%	1	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Peak Carbon Dioxide	8.6	%	0.5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Steady Carbon Dioxide	8.6	%	0.5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:32	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH229	2	04/07/2023 13:32	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH229	2	04/07/2023 13:37	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.80m
S2-BH229	1	04/07/2023 13:44	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Peak Oxygen	19.3	%	1	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Steady Oxygen	21.1	%	1	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Steady Carbon Dioxide	0.5	%	0.5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Peak Carbon Dioxide	0.8	%	0.5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:44	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH229	1	04/07/2023 13:49	Water Level	13.58	m	0.01	Dip Meter	Base dipped at 13.81m. Insufficient water to sample
S2-BH229	1	02/08/2023 12:22	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Steady Oxygen	15.8	%	1	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Peak Oxygen	15.8	%	1	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Barometric Pressure	956	mbar	5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Steady Carbon Dioxide	3.8	%	0.5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:22	Differential Pressure	-0.03	mbar	4	GA5000 SN:G504748	
S2-BH229	1	02/08/2023 12:35	Water Level	12.08	m	0.01	Dip Meter	Base dipped at 13.82m
S2-BH229	2	02/08/2023 13:13	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Steady Oxygen	0.1	%	1	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Peak Oxygen	0.1	%	1	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Differential Pressure	10.11	mbar	4	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Gas Flow Rate	-0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Steady Carbon Dioxide	9.4	%	0.5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Barometric Pressure	956	mbar	5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:13	Peak Carbon Dioxide	9.4	%	0.5	GA5000 SN:G504748	
S2-BH229	2	02/08/2023 13:19	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.82m
S2-BH229	1	31/08/2023 12:46	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH229	1	31/08/2023 12:46	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Peak Oxygen	16.5	%	1	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Steady Oxygen	16.5	%	1	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Peak Carbon Dioxide	4.7	%	0.5	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Barometric Pressure	980	mbar	5	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Steady Carbon Dioxide	4.7	%	0.5	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH229	1	31/08/2023 12:46	Differential Pressure	0.4	mbar	4	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Differential Pressure	0.19	mbar	4	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Gas Flow Rate	0.5	l/hr	0.3	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Steady Carbon Dioxide	7.2	%	0.5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Barometric Pressure	979	mbar	5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Peak Carbon Dioxide	7.3	%	0.5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Steady Oxygen	0.1	%	1	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Peak Oxygen	0.1	%	1	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Peak Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:52	Steady Methane	0.2	%	0.5	GA5000 SN:G508511	
S2-BH229	2	31/08/2023 12:53	Water Level		m	0.01	Dip Meter	Base dipped at 2.81m Dry.
S2-BH229	1	31/08/2023 12:57	Water Level	12.4	m	0.01	Dip Meter	Base dipped at 14.20m
S2-BH230	1	29/06/2023 15:26	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Peak Oxygen	19.5	%	1	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Steady Oxygen	19.6	%	1	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Peak Carbon Dioxide	2.2	%	0.5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Barometric Pressure	987	mbar	5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Steady Carbon Dioxide	2.1	%	0.5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Differential Pressure	0.14	mbar	4	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:26	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH230	1	29/06/2023 15:34	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 25.87m
S2-BH230	1	26/07/2023 12:36	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Steady Oxygen	19.2	%	1	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Peak Oxygen	19.2	%	1	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH230	1	26/07/2023 12:36	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Differential Pressure	1.82	mbar	4	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Barometric Pressure	981	mbar	5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:36	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH230	1	26/07/2023 12:41	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 25.90m
S2-BH230	1	23/08/2023 13:28	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Steady Oxygen	19.01	%	1	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Peak Oxygen	19.1	%	1	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Barometric Pressure	989	mbar	5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Peak Carbon Dioxide	3.1	%	0.5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Steady Carbon Dioxide	3.1	%	0.5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Differential Pressure	1.14	mbar	4	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:28	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH230	1	23/08/2023 13:42	Water Level		m	0.01	Dip Meter	Base dipped at 25.92m Dry.
S2-BH231	1	04/07/2023 11:43	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Steady Oxygen	18.8	%	1	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Peak Oxygen	17.8	%	1	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Steady Carbon Dioxide	4.1	%	0.5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Barometric Pressure	982	mbar	5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:43	Peak Carbon Dioxide	4.1	%	0.5	GA5000 SN:G508511	
S2-BH231	1	04/07/2023 11:46	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 25.35m
S2-BH231	1	31/07/2023 14:51	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Steady Oxygen	20.6	%	1	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Peak Oxygen	16.3	%	1	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Barometric Pressure	975	mbar	5	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Steady Carbon Dioxide	0.6	%	0.5	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH231	1	31/07/2023 14:51	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Peak Carbon Dioxide	1.2	%	0.5	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:51	Differential Pressure	-0.19	mbar	4	GA5000 SN:G504748	
S2-BH231	1	31/07/2023 14:55	Water Level	21.32	m	0.01	Dip Meter	Base dipped at 25.03m
S2-BH231	1	30/08/2023 14:36	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Peak Oxygen	19.7	%	1	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Steady Oxygen	19.7	%	1	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Steady Carbon Dioxide	3.2	%	0.5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:36	Peak Carbon Dioxide	3.2	%	0.5	GA5000 SN:G508511	
S2-BH231	1	30/08/2023 14:43	Water Level	22.12	m	0.01	Dip Meter	Base dipped at 25.05m
S2-BH232	1	29/06/2023 11:27	Steady Methane	18.1	%	0.5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Peak Methane	20.4	%	0.5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Peak Oxygen	0.4	%	1	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Steady Oxygen	2.8	%	1	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Peak Carbon Dioxide	10.5	%	0.5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Barometric Pressure	990	mbar	5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Steady Carbon Dioxide	9.3	%	0.5	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:27	Differential Pressure	0.09	mbar	4	GA5000 SN:G504748	
S2-BH232	1	29/06/2023 11:33	Water Level	5.28	m	0.01	Dip Meter	Base dipped at 6.83m
S2-BH232	1	01/08/2023 12:49	Steady Methane	8.8	%	0.5	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Peak Methane	8.8	%	0.5	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Peak Oxygen	0.3	%	1	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Steady Oxygen	0.3	%	1	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Differential Pressure	0.12	mbar	4	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Steady Carbon Dioxide	12.2	%	0.5	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:49	Peak Carbon Dioxide	12.2	%	0.5	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH232	1	01/08/2023 12:49	Barometric Pressure	974	mbar	5	GA5000 SN:G504748	
S2-BH232	1	01/08/2023 12:54	Water Level	4.45	m	0.01	Dip Meter	Base dipped at 6.95m
S2-BH233	1	29/06/2023 16:35	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Steady Oxygen	20.6	%	1	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Peak Oxygen	20.6	%	1	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Barometric Pressure	990	mbar	5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Peak Carbon Dioxide	1.6	%	0.5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:35	Differential Pressure	0.09	mbar	4	GA5000 SN:G504748	
S2-BH233	1	29/06/2023 16:38	Water Level		m	0.01	Dip Meter	Damp at base. Base dipped at 24.78m
S2-BH233	1	26/07/2023 14:20	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Peak Oxygen	16.3	%	1	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Steady Oxygen	16.4	%	1	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Differential Pressure	0.21	mbar	4	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Steady Carbon Dioxide	6.9	%	0.5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Peak Carbon Dioxide	6.9	%	0.5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:20	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH233	1	26/07/2023 14:25	Water Level		m	0.01	Dip Meter	Borehole damp at base. Base dipped at 24.79m
S2-BH233	1	25/08/2023 14:34	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Peak Oxygen	13.8	%	1	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Steady Oxygen	13.8	%	1	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Barometric Pressure	981	mbar	5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Peak Carbon Dioxide	9.5	%	0.5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Steady Carbon Dioxide	9.5	%	0.5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:34	Differential Pressure	-0.05	mbar	4	GA5000 SN:G504748	
S2-BH233	1	25/08/2023 14:36	Water Level		m	0.01	Dip Meter	Damp at base. Base dipped at 25.0m
S2-BH235	1	04/07/2023 10:32	Steady Methane	0.4	%	0.5	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH235	1	04/07/2023 10:32	Peak Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Peak Oxygen	6.5	%	1	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Steady Oxygen	6.5	%	1	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Steady Carbon Dioxide	11.7	%	0.5	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Peak Carbon Dioxide	11.8	%	0.5	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:32	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S2-BH235	1	04/07/2023 10:35	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 14.72m
S2-BH235	1	31/07/2023 13:40	Steady Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Peak Methane	0.4	%	0.5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Steady Oxygen	4.4	%	1	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Peak Oxygen	4.4	%	1	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Peak Carbon Dioxide	12.1	%	0.5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Barometric Pressure	975	mbar	5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Steady Carbon Dioxide	12.1	%	0.5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Differential Pressure	2.05	mbar	4	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:40	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G508511	
S2-BH235	1	31/07/2023 13:45	Water Level		m	0.01	Dip Meter	Borehole damp at base. Base dipped at 14.78m
S2-BH235	1	23/08/2023 15:09	Steady Methane	0.6	%	0.5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Peak Methane	0.6	%	0.5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Steady Oxygen	5.9	%	1	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Peak Oxygen	5.9	%	1	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Differential Pressure	1.3	mbar	4	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Gas Flow Rate	0.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Steady Carbon Dioxide	11.9	%	0.5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:09	Peak Carbon Dioxide	11.9	%	0.5	GA5000 SN:G508511	
S2-BH235	1	23/08/2023 15:22	Water Level		m	0.01	Dip Meter	Base dipped at 14.70m Dry.
S2-BH236	1	04/07/2023 10:49	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Peak Oxygen	17.6	%	1	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Steady Oxygen	20.8	%	1	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH236	1	04/07/2023 10:49	Barometric Pressure	983	mbar	5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Peak Carbon Dioxide	1.9	%	0.5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Steady Carbon Dioxide	1	%	0.5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:49	Differential Pressure	0.03	mbar	4	GA5000 SN:G508511	
S2-BH236	1	04/07/2023 10:53	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 14.49m
S2-BH236	1	31/07/2023 13:56	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Steady Oxygen	6.3	%	1	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Peak Oxygen	6.3	%	1	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Differential Pressure	4.28	mbar	4	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Gas Flow Rate	4.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Steady Carbon Dioxide	7	%	0.5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Peak Carbon Dioxide	7.1	%	0.5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 13:56	Barometric Pressure	975	mbar	5	GA5000 SN:G504748	
S2-BH236	1	31/07/2023 14:01	Water Level	8.4	m	0.01	Dip Meter	Base dipped at 14.39m
S2-BH236	1	30/08/2023 13:47	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Peak Oxygen	9.6	%	1	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Steady Oxygen	10.2	%	1	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Barometric Pressure	985	mbar	5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Peak Carbon Dioxide	3.4	%	0.5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Steady Carbon Dioxide	3.2	%	0.5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Gas Flow Rate	2	l/hr	0.3	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 13:47	Differential Pressure	1.2	mbar	4	GA5000 SN:G508511	
S2-BH236	1	30/08/2023 14:07	Water Level	13.14	m	0.01	Dip Meter	Base dipped at 14.42m
S2-BH237	1	29/06/2023 09:08	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Steady Oxygen	7.1	%	1	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Peak Oxygen	7.1	%	1	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Differential Pressure	-0.12	mbar	4	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH237	1	29/06/2023 09:08	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Steady Carbon Dioxide	7.2	%	0.5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Peak Carbon Dioxide	7.2	%	0.5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:08	Barometric Pressure	988	mbar	5	GA5000 SN:G504748	
S2-BH237	1	29/06/2023 09:14	Water Level	12.67	m	0.01	Dip Meter	Base dipped at 25.37m
S2-BH237	1	26/07/2023 14:20	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Peak Oxygen	9.7	%	1	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Steady Oxygen	9.7	%	1	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Barometric Pressure	980	mbar	5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Peak Carbon Dioxide	5.2	%	0.5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Steady Carbon Dioxide	5.2	%	0.5	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:20	Differential Pressure	0.03	mbar	4	GA5000 SN:G504748	
S2-BH237	1	26/07/2023 14:28	Water Level	11.9	m	0.01	Dip Meter	Base dipped at 25.50m
S2-BH237	1	25/08/2023 13:37	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Steady Oxygen	4.9	%	1	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Peak Oxygen	4.9	%	1	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Differential Pressure	0.03	mbar	4	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Steady Carbon Dioxide	5.9	%	0.5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Peak Carbon Dioxide	5.9	%	0.5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:37	Barometric Pressure	980	mbar	5	GA5000 SN:G504748	
S2-BH237	1	25/08/2023 13:40	Water Level	12.47	m	0.01	Dip Meter	Base dipped at 25.27m
S2-BH239	1		Water Level	1.37	m	0.01	Dip Meter	Base dipped at 3.60m
S2-BH239	2	26/06/2023 15:10	Steady Oxygen	19.5	%	1	GA5000	
S2-BH239	2	26/06/2023 15:10	Peak Oxygen	17.7	%	1	GA5000	
S2-BH239	2	26/06/2023 15:10	Peak Methane	1.7	%	0.5	GA5000	
S2-BH239	2	26/06/2023 15:10	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH239	2	26/06/2023 15:10	Steady Methane	1.6	%	0.5	GA5000	
S2-BH239	2	26/06/2023 15:10	Peak Carbon Dioxide	1.8	%	0.5	GA5000	
S2-BH239	2	26/06/2023 15:10	Barometric Pressure	997	mbar	5	GA5000	
S2-BH239	2	26/06/2023 15:10	Carbon Monoxide	1	ppm	2	GA5000	
S2-BH239	2	26/06/2023 15:10	Steady Carbon Dioxide	1.5	%	0.5	GA5000	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH239	2	26/06/2023 15:10	Gas Flow Rate	4.4	l/hr	0.3	GA5000	
S2-BH239	2	26/06/2023 15:10	Differential Pressure	0.23	mbar	4	GA5000	
S2-BH239	2	26/06/2023 15:14	Water Level	2.2	m	0.01	Dip Meter	Base dipped at 7.6m
S2-BH239	1	27/06/2023 10:06	Steady Methane	1.7	%	0.5	GA5000	
S2-BH239	1	27/06/2023 10:06	Peak Methane	1.7	%	0.5	GA5000	
S2-BH239	1	27/06/2023 10:06	Steady Oxygen	20.1	%	1	GA5000	
S2-BH239	1	27/06/2023 10:06	Peak Oxygen	20.1	%	1	GA5000	
S2-BH239	1	27/06/2023 10:06	Differential Pressure	-0.03	mbar	4	GA5000	
S2-BH239	1	27/06/2023 10:06	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH239	1	27/06/2023 10:06	Gas Flow Rate	-0.1	l/hr	0.3	GA5000	
S2-BH239	1	27/06/2023 10:06	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH239	1	27/06/2023 10:06	Steady Carbon Dioxide	0.6	%	0.5	GA5000	
S2-BH239	1	27/06/2023 10:06	Barometric Pressure	996	mbar	5	GA5000	
S2-BH239	1	27/06/2023 10:06	Peak Carbon Dioxide	0.6	%	0.5	GA5000	
S2-BH239	1	27/06/2023 10:08	Water Level	1.89	m	0.01	Dip Meter	Base dipped at 3.60m
S2-BH239	1	25/07/2023 10:33	Steady Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Steady Oxygen	13.8	%	1	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Peak Oxygen	13.8	%	1	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Peak Carbon Dioxide	5.5	%	0.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Barometric Pressure	985	mbar	5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Steady Carbon Dioxide	5.5	%	0.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:33	Differential Pressure	0.05	mbar	4	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Differential Pressure	-0.64	mbar	4	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Gas Flow Rate	6.9	l/hr	0.3	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Carbon Monoxide	2	ppm	2	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Steady Carbon Dioxide	5.1	%	0.5	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Peak Carbon Dioxide	5.1	%	0.5	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Barometric Pressure	985	mbar	5	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Steady Oxygen	16	%	1	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Peak Oxygen	16	%	1	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	2	25/07/2023 10:39	Steady Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	1	25/07/2023 10:42	Water Level	1.46	m	0.01	Dip Meter	Base dipped at 3.70m
S2-BH239	2	25/07/2023 10:44	Water Level	1.74	m	0.01	Dip Meter	Base dipped at 7.80m



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH239	1	22/08/2023 15:08	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Peak Oxygen	15	%	1	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Steady Oxygen	15	%	1	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Barometric Pressure	995	mbar	5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Peak Carbon Dioxide	6.5	%	0.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Steady Carbon Dioxide	6.5	%	0.5	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH239	1	22/08/2023 15:08	Differential Pressure	-0.12	mbar	4	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Differential Pressure	-5.83	mbar	4	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Steady Carbon Dioxide	6.1	%	0.5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Peak Carbon Dioxide	6.1	%	0.5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Barometric Pressure	996	mbar	5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Steady Oxygen	15.2	%	1	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Peak Oxygen	15.2	%	1	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:10	Steady Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH239	2	22/08/2023 15:22	Water Level	1.92	m	0.01	Dip Meter	Base dipped at 7.59m
S2-BH240	1	27/06/2023 10:38	Steady Methane	1.7	%	0.5	GA5000	
S2-BH240	1	27/06/2023 10:38	Peak Methane	1.8	%	0.5	GA5000	
S2-BH240	1	27/06/2023 10:38	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH240	1	27/06/2023 10:38	Peak Oxygen	15.3	%	1	GA5000	
S2-BH240	1	27/06/2023 10:38	Steady Oxygen	15.4	%	1	GA5000	
S2-BH240	1	27/06/2023 10:38	Barometric Pressure	996	mbar	5	GA5000	
S2-BH240	1	27/06/2023 10:38	Peak Carbon Dioxide	5	%	0.5	GA5000	
S2-BH240	1	27/06/2023 10:38	Steady Carbon Dioxide	5	%	0.5	GA5000	
S2-BH240	1	27/06/2023 10:38	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH240	1	27/06/2023 10:38	Differential Pressure	0	mbar	4	GA5000	
S2-BH240	1	27/06/2023 10:39	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH240	1	27/06/2023 10:50	Water Level	2.01	m	0.01	Dip Meter	Base dipped at 5.16m
S2-BH240	1	24/07/2023 15:26	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Peak Oxygen	4	%	1	GA5000 SN:G504748	
S2-BH240	1	24/07/2023 15:26	Steady Oxygen	4	%	1	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited		
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks	
S2-BH240	1	24/07/2023 15:26	Gas Flow Rate	7	l/hr	0.3	GA5000 SN:G504748		
S2-BH240	1	24/07/2023 15:26	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748		
S2-BH240	1	24/07/2023 15:26	Differential Pressure	3.54	mbar	4	GA5000 SN:G504748		
S2-BH240	1	24/07/2023 15:26	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH240	1	24/07/2023 15:26	Steady Carbon Dioxide	11.2	%	0.5	GA5000 SN:G504748		
S2-BH240	1	24/07/2023 15:26	Peak Carbon Dioxide	11.2	%	0.5	GA5000 SN:G504748		
S2-BH240	1	24/07/2023 15:26	Barometric Pressure	983	mbar	5	GA5000 SN:G504748		
S2-BH240	1	24/07/2023 15:29	Water Level	1.55	m	0.01	Dip Meter	Base dipped at 5.38m	
S2-BH240	1	22/08/2023 14:26	Peak Methane	0.2	%	0.5	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:26	Steady Methane	0.1	%	0.5	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:26	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:26	Steady Oxygen	19.9	%	1	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:26	Peak Oxygen	19.9	%	1	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:26	Barometric Pressure	995	mbar	5	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:26	Steady Carbon Dioxide	1.4	%	0.5	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:26	Peak Carbon Dioxide	1.4	%	0.5	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:26	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:26	Differential Pressure	0.1	mbar	4	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:26	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:26	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748		
S2-BH240	1	22/08/2023 14:29	Water Level	1.57	m	0.01	Dip Meter	Base dipped at 5.28m	
S2-BH241	1	04/07/2023 11:02	Steady Methane	0.1	%	0.5	GA5000 SN:G508511		
S2-BH241	1	04/07/2023 11:02	Peak Methane	0.1	%	0.5	GA5000 SN:G508511		
S2-BH241	1	04/07/2023 11:02	Steady Oxygen	5.8	%	1	GA5000 SN:G508511		
S2-BH241	1	04/07/2023 11:02	Peak Oxygen	5.8	%	1	GA5000 SN:G508511		
S2-BH241	1	04/07/2023 11:02	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511		
S2-BH241	1	04/07/2023 11:02	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511		
S2-BH241	1	04/07/2023 11:02	Differential Pressure	0.19	mbar	4	GA5000 SN:G508511		
S2-BH241	1	04/07/2023 11:02	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511		
S2-BH241	1	04/07/2023 11:02	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511		
S2-BH241	1	04/07/2023 11:02	Carbon Monoxide	3	ppm	2	GA5000 SN:G508511		
S2-BH241	1	04/07/2023 11:02	Barometric Pressure	984	mbar	5	GA5000 SN:G508511		
S2-BH241	1	04/07/2023 11:06	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 14.74m	
S2-BH241	1	31/07/2023 14:28	Steady Methane	0.2	%	0.5	GA5000 SN:G504748		
S2-BH241	1	31/07/2023 14:28	Peak Methane	0.2	%	0.5	GA5000 SN:G504748		
S2-BH241	1	31/07/2023 14:28	Peak Oxygen	2.2	%	1	GA5000 SN:G504748		
S2-BH241	1	31/07/2023 14:28	Steady Oxygen	2.2	%	1	GA5000 SN:G504748		
S2-BH241	1	31/07/2023 14:28	Barometric Pressure	976	mbar	5	GA5000 SN:G504748		
S2-BH241	1	31/07/2023 14:28	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G504748		



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH241	1	31/07/2023 14:28	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Differential Pressure	-0.4	mbar	4	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:28	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748	
S2-BH241	1	31/07/2023 14:35	Water Level	14.28	m	0.01	Dip Meter	Base dipped at 14.80m
S2-BH241	1	23/08/2023 14:24	Steady Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Steady Oxygen	3.1	%	1	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Peak Oxygen	3.1	%	1	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Differential Pressure	0.1	mbar	4	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Steady Carbon Dioxide	4	%	0.5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:24	Peak Carbon Dioxide	4	%	0.5	GA5000 SN:G508511	
S2-BH241	1	23/08/2023 14:32	Water Level	14.16	m	0.01	Dip Meter	Base dipped at 14.77m
S2-BH242	1	26/06/2023 15:23	Steady Methane	1.6	%	0.5	GA5000	
S2-BH242	1	26/06/2023 15:23	Peak Methane	1.6	%	0.5	GA5000	
S2-BH242	1	26/06/2023 15:23	Peak Oxygen	17.1	%	1	GA5000	
S2-BH242	1	26/06/2023 15:23	Steady Oxygen	17.3	%	1	GA5000	
S2-BH242	1	26/06/2023 15:23	Barometric Pressure	997	mbar	5	GA5000	
S2-BH242	1	26/06/2023 15:23	Steady Carbon Dioxide	3.7	%	0.5	GA5000	
S2-BH242	1	26/06/2023 15:23	Peak Carbon Dioxide	3.8	%	0.5	GA5000	
S2-BH242	1	26/06/2023 15:23	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH242	1	26/06/2023 15:23	Differential Pressure	0.05	mbar	4	GA5000	
S2-BH242	1	26/06/2023 15:23	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH242	1	26/06/2023 15:25	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748 OR	
S2-BH242	1	26/06/2023 15:27	Water Level	2.07	m	0.01	Dip Meter	Base dipped at 3.74m
S2-BH242	1	25/07/2023 10:05	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Peak Oxygen	15.1	%	1	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Steady Oxygen	15.1	%	1	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Differential Pressure	0.16	mbar	4	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Steady Carbon Dioxide	4.3	%	0.5	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH242	1	25/07/2023 10:05	Peak Carbon Dioxide	4.3	%	0.5	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:05	Barometric Pressure	987	mbar	5	GA5000 SN:G508511	
S2-BH242	1	25/07/2023 10:08	Water Level	1.88	m	0.01	Dip Meter	Base dipped at 3.79m
S2-BH242	1	22/08/2023 10:45	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Steady Oxygen	16.9	%	1	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Peak Oxygen	13.2	%	1	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Barometric Pressure	994	mbar	5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Peak Carbon Dioxide	3	%	0.5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Gas Flow Rate	0.4	l/hr	0.3	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 10:45	Differential Pressure	-0.14	mbar	4	GA5000 SN:G508511	
S2-BH242	1	22/08/2023 11:01	Water Level	2.1	m	0.01	Dip Meter	Base dipped at 3.77m
S2-BH243	2		Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.93m
S2-BH243	1	26/06/2023 13:32	Steady Methane	1.6	%	0.5	GA5000	
S2-BH243	1	26/06/2023 13:32	Hydrogen Sulphide	3	ppm	1.5	GA5000	
S2-BH243	1	26/06/2023 13:32	Peak Methane	1.6	%	0.5	GA5000	
S2-BH243	1	26/06/2023 13:32	Steady Oxygen	19.5	%	1	GA5000	
S2-BH243	1	26/06/2023 13:32	Peak Oxygen	19.5	%	1	GA5000	
S2-BH243	1	26/06/2023 13:32	Differential Pressure	0	mbar	4	GA5000	
S2-BH243	1	26/06/2023 13:32	Carbon Monoxide	9	ppm	2	GA5000	
S2-BH243	1	26/06/2023 13:32	Steady Carbon Dioxide	1.1	%	0.5	GA5000	
S2-BH243	1	26/06/2023 13:32	Peak Carbon Dioxide	1.1	%	0.5	GA5000	
S2-BH243	1	26/06/2023 13:32	Barometric Pressure	997	mbar	5	GA5000	
S2-BH243	1	26/06/2023 13:40	Gas Flow Rate	4.9	l/hr	0.3	GA5000	
S2-BH243	1	26/06/2023 13:44	Water Level	3.66	m	0.01	Dip Meter	Base dipped at 5.88m
S2-BH243	2	26/06/2023 13:45	Steady Methane	1.6	%	0.5	GA5000	
S2-BH243	2	26/06/2023 13:45	Peak Methane	1.6	%	0.5	GA5000	
S2-BH243	2	26/06/2023 13:45	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH243	2	26/06/2023 13:45	Steady Oxygen	20.3	%	1	GA5000	
S2-BH243	2	26/06/2023 13:45	Peak Oxygen	20.3	%	1	GA5000	
S2-BH243	2	26/06/2023 13:45	Differential Pressure	0.07	mbar	4	GA5000	
S2-BH243	2	26/06/2023 13:45	Peak Carbon Dioxide	0.4	%	0.5	GA5000	
S2-BH243	2	26/06/2023 13:45	Barometric Pressure	997	mbar	5	GA5000	
S2-BH243	2	26/06/2023 13:45	Steady Carbon Dioxide	0.4	%	0.5	GA5000	
S2-BH243	2	26/06/2023 13:45	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH243	2	26/06/2023 13:48	Gas Flow Rate	0.1	l/hr	0.3	GA5000	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH243	2	26/06/2023 13:50	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.93m
S2-BH243	1	24/07/2023 15:08	Peak Oxygen	20.5	%	1	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Steady Oxygen	20.5	%	1	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Gas Flow Rate	4.4	l/hr	0.3	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Carbon Monoxide	7	ppm	2	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Differential Pressure	7.22	mbar	4	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Hydrogen Sulphide	1	ppm	1.5	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Steady Carbon Dioxide	1	%	0.5	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:08	Peak Carbon Dioxide	1.1	%	0.5	GA5000 SN:G508511	
S2-BH243	1	24/07/2023 15:16	Water Level	3.18	m	0.01	Dip Meter	Base dipped at 5.93m
S2-BH243	2	24/07/2023 15:17	Steady Oxygen	16.8	%	1	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Peak Oxygen	16.8	%	1	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Peak Carbon Dioxide	3.5	%	0.5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Steady Carbon Dioxide	3.5	%	0.5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Differential Pressure	0.09	mbar	4	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:17	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH243	2	24/07/2023 15:20	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.98m
S2-BH243	1	21/08/2023 14:31	Steady Oxygen	20.4	%	1	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Peak Oxygen	20.4	%	1	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Carbon Monoxide	8	ppm	2	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Differential Pressure	-0.05	mbar	4	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Steady Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Barometric Pressure	97	mbar	5	GA5000 SN:G504748	
S2-BH243	1	21/08/2023 14:31	Peak Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:35	Water Level		m	0.01	Dip Meter	Base dipped dry at 2.93m
S2-BH243	1	21/08/2023 14:43	Water Level	2.98	m	0.01	Dip Meter	Base dipped at 5.86m
S2-BH243	2	21/08/2023 14:45	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Peak Oxygen	17.5	%	1	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH243	2	21/08/2023 14:45	Steady Oxygen	17.7	%	1	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Peak Carbon Dioxide	2.4	%	0.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Barometric Pressure	997	mbar	5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Steady Carbon Dioxide	2.3	%	0.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Differential Pressure	0.14	mbar	4	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH243	2	21/08/2023 14:45	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH244	1	26/06/2023 12:58	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH244	1	26/06/2023 12:58	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH244	1	26/06/2023 12:58	Differential Pressure	0.05	mbar	4	GA5000	
S2-BH244	1	26/06/2023 12:58	Steady Carbon Dioxide	4.8	%	0.5	GA5000	
S2-BH244	1	26/06/2023 12:58	Barometric Pressure	996	mbar	5	GA5000	
S2-BH244	1	26/06/2023 12:58	Peak Carbon Dioxide	4.8	%	0.5	GA5000	
S2-BH244	1	26/06/2023 12:58	Peak Oxygen	16.9	%	1	GA5000	
S2-BH244	1	26/06/2023 12:58	Steady Oxygen	16.9	%	1	GA5000	
S2-BH244	1	26/06/2023 12:58	Steady Methane	1.7	%	0.5	GA5000	
S2-BH244	1	26/06/2023 12:58	Peak Methane	1.7	%	0.5	GA5000	
S2-BH244	1	26/06/2023 12:58	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH244	1	26/06/2023 12:59	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.49m
S2-BH244	2	26/06/2023 13:09	Steady Methane	1.7	%	0.5	GA5000	
S2-BH244	2	26/06/2023 13:09	Peak Methane	1.7	%	0.5	GA5000	
S2-BH244	2	26/06/2023 13:09	Peak Oxygen	15.8	%	1	GA5000	
S2-BH244	2	26/06/2023 13:09	Steady Oxygen	17.8	%	1	GA5000	
S2-BH244	2	26/06/2023 13:09	Peak Carbon Dioxide	3.6	%	0.5	GA5000	
S2-BH244	2	26/06/2023 13:09	Barometric Pressure	996	mbar	5	GA5000	
S2-BH244	2	26/06/2023 13:09	Carbon Monoxide	1	ppm	2	GA5000	
S2-BH244	2	26/06/2023 13:09	Steady Carbon Dioxide	3.3	%	0.5	GA5000	
S2-BH244	2	26/06/2023 13:09	Differential Pressure	0	mbar	4	GA5000	
S2-BH244	2	26/06/2023 13:09	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH244	2	26/06/2023 13:09	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH244	2	26/06/2023 13:17	Water Level	3.39	m	0.01	Dip Meter	Base dipped at 9.38m
S2-BH244	1	24/07/2023 11:12	Steady Methane	0	%	0.5	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Peak Methane	0.1	%	0.5	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Steady Oxygen	16.6	%	1	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Peak Oxygen	16.3	%	1	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Gas Flow Rate	0.1	l/hr	0.3	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Carbon Monoxide	0	ppm	2	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Hydrogen Sulphide	0	ppm	1.5	GA5000 G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH244	1	24/07/2023 11:12	Differential Pressure	0	mbar	4	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Steady Carbon Dioxide	4.2	%	0.5	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Peak Carbon Dioxide	4.2	%	0.5	GA5000 G508511	
S2-BH244	1	24/07/2023 11:12	Barometric Pressure	983	mbar	5	GA5000 G508511	
S2-BH244	1	24/07/2023 11:19	Water Level	3	m	0.01	Dip Meter	Base dipped at 3.57m
S2-BH244	2	24/07/2023 11:21	Hydrogen Sulphide	0	ppm	1.5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Peak Methane	0	%	0.5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Steady Methane	0	%	0.5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Steady Oxygen	19.6	%	1	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Peak Oxygen	18.8	%	1	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Barometric Pressure	983	mbar	5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Steady Carbon Dioxide	2	%	0.5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Carbon Monoxide	0	ppm	2	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Peak Carbon Dioxide	2.6	%	0.5	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Differential Pressure	0.07	mbar	4	GA5000 G508511	
S2-BH244	2	24/07/2023 11:21	Gas Flow Rate	-0.3	l/hr	0.3	GA5000 G508511	
S2-BH244	2	24/07/2023 11:23	Water Level	2.9	m	0.01	Dip Meter	Base dipped at 9.25m
S2-BH244	1	21/08/2023 14:29	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Steady Oxygen	14	%	1	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Peak Oxygen	14	%	1	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Gas Flow Rate	0.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH244	1	21/08/2023 14:29	Barometric Pressure	996	mbar	5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Barometric Pressure	996	mbar	5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Peak Carbon Dioxide	1.8	%	0.5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Steady Carbon Dioxide	1.8	%	0.5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Differential Pressure	0.17	mbar	4	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Gas Flow Rate	3.5	l/hr	0.3	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Steady Oxygen	17.8	%	1	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Peak Oxygen	17.8	%	1	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH244	2	21/08/2023 14:35	Steady Methane	0	%	0.5	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH244	1	21/08/2023 14:43	Water Level	2.65	m	0.01	Dip Meter	Base dipped at 3.42m
S2-BH244	2	21/08/2023 14:45	Water Level	2.77	m	0.01	Dip Meter	Base dipped at 9.44m
S2-BH245	1	27/06/2023 13:26	Barometric Pressure	995	mbar	5	GA5000	
S2-BH245	1	27/06/2023 13:27	Peak Carbon Dioxide	4.3	%	0.5	GA5000	
S2-BH245	1	27/06/2023 13:27	Steady Carbon Dioxide	4.3	%	0.5	GA5000	
S2-BH245	1	27/06/2023 13:27	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH245	1	27/06/2023 13:27	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH245	1	27/06/2023 13:27	Differential Pressure	-0.03	mbar	4	GA5000	
S2-BH245	1	27/06/2023 13:27	Steady Methane	1.7	%	0.5	GA5000	
S2-BH245	1	27/06/2023 13:27	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH245	1	27/06/2023 13:27	Peak Methane	1.7	%	0.5	GA5000	
S2-BH245	1	27/06/2023 13:27	Peak Oxygen	13.8	%	1	GA5000	
S2-BH245	1	27/06/2023 13:27	Steady Oxygen	13.8	%	1	GA5000	
S2-BH245	1	27/06/2023 13:34	Water Level	3.6	m	0.01	Dip Meter	Base dipped at 3.84m
S2-BH245	1	25/07/2023 11:00	Steady Methane	0	%	0.5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Steady Methane	0	%	0.5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Hydrogen Sulphide	0	ppm	1.5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Steady Oxygen	11.5	%	1	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Peak Oxygen	11.5	%	1	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Differential Pressure	-0.12	mbar	4	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Gas Flow Rate	0	l/hr	0.3	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Steady Carbon Dioxide	4.1	%	0.5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Carbon Monoxide	0	ppm	2	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Peak Carbon Dioxide	4.1	%	0.5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:00	Barometric Pressure	987	mbar	5	GA5000 G508511	
S2-BH245	1	25/07/2023 11:05	Water Level	2.83	m	0.01	Dip Meter	Base dipped at 3.75m. Silted at base.
S2-BH245	1	22/08/2023 10:35	Steady Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Peak Oxygen	11.3	%	1	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Steady Oxygen	11.3	%	1	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Barometric Pressure	994	mbar	5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Peak Carbon Dioxide	3.1	%	0.5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Steady Carbon Dioxide	3.1	%	0.5	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Gas Flow Rate	0.4	l/hr	0.3	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:35	Differential Pressure	0.14	mbar	4	GA5000 SN:G508511	
S2-BH245	1	22/08/2023 10:49	Water Level	3.16	m	0.01	Dip Meter	Base dipped at 3.82m
S2-BH246	1	26/06/2023 10:49	Steady Methane	1.7	%	0.5	GA5000	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH246	1	26/06/2023 10:49	Peak Methane	1.7	%	0.5	GA5000	
S2-BH246	1	26/06/2023 10:49	Steady Oxygen	16.1	%	1	GA5000	
S2-BH246	1	26/06/2023 10:49	Peak Oxygen	16	%	1	GA5000	
S2-BH246	1	26/06/2023 10:49	Differential Pressure	0.1	mbar	4	GA5000	
S2-BH246	1	26/06/2023 10:49	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH246	1	26/06/2023 10:49	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH246	1	26/06/2023 10:49	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH246	1	26/06/2023 10:49	Steady Carbon Dioxide	3	%	0.5	GA5000	
S2-BH246	1	26/06/2023 10:49	Peak Carbon Dioxide	3.2	%	0.5	GA5000	
S2-BH246	1	26/06/2023 10:49	Barometric Pressure	995	mbar	5	GA5000	
S2-BH246	1	26/06/2023 10:55	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.38m
S2-BH246	2	26/06/2023 10:56	Steady Methane	1.7	%	0.5	GA5000	
S2-BH246	2	26/06/2023 10:56	Peak Methane	1.7	%	0.5	GA5000	
S2-BH246	2	26/06/2023 10:56	Steady Oxygen	13.5	%	1	GA5000	
S2-BH246	2	26/06/2023 10:56	Peak Oxygen	13.5	%	1	GA5000	
S2-BH246	2	26/06/2023 10:56	Barometric Pressure	996	mbar	5	GA5000	
S2-BH246	2	26/06/2023 10:56	Peak Carbon Dioxide	5.2	%	0.5	GA5000	
S2-BH246	2	26/06/2023 10:56	Steady Carbon Dioxide	5.2	%	0.5	GA5000	
S2-BH246	2	26/06/2023 10:56	Carbon Monoxide	1	ppm	2	GA5000	
S2-BH246	2	26/06/2023 10:56	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH246	2	26/06/2023 10:56	Differential Pressure	0.07	mbar	4	GA5000	
S2-BH246	2	26/06/2023 10:59	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH246	2	26/06/2023 11:02	Water Level	3.45	m	0.01	Dip Meter	Base dipped at 7.87m.
S2-BH246	1	24/07/2023 13:51	Steady Oxygen	15.8	%	1	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Peak Oxygen	15.6	%	1	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Differential Pressure	-0.05	mbar	4	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Peak Carbon Dioxide	4.5	%	0.5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:51	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH246	1	24/07/2023 13:56	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 2.30m
S2-BH246	2	24/07/2023 13:58	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Peak Oxygen	15.8	%	1	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Steady Oxygen	15.8	%	1	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH246	2	24/07/2023 13:58	Barometric Pressure	984	mbar	5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Steady Carbon Dioxide	5.1	%	0.5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Peak Carbon Dioxide	5.2	%	0.5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Differential Pressure	-1.5	mbar	4	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 13:58	Gas Flow Rate	5.8	l/hr	0.3	GA5000 SN:G508511	
S2-BH246	2	24/07/2023 14:03	Water Level	3.08	m	0.01	Dip Meter	Base dipped at 7.86m
S2-BH246	1	21/08/2023 13:34	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Steady Oxygen	13.9	%	1	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Peak Oxygen	13.9	%	1	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Differential Pressure	0.07	mbar	4	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Steady Carbon Dioxide	4.3	%	0.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Peak Carbon Dioxide	4.3	%	0.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:34	Barometric Pressure	996	mbar	5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Barometric Pressure	996	mbar	5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Peak Carbon Dioxide	3.2	%	0.5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Steady Carbon Dioxide	3.2	%	0.5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Differential Pressure	11.1	mbar	4	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Carbon Monoxide	4	ppm	2	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Gas Flow Rate	5.7	l/hr	0.3	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Steady Oxygen	17	%	1	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Peak Oxygen	17	%	1	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	2	21/08/2023 13:41	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH246	1	21/08/2023 13:43	Water Level		m	0.01	Dip Meter	Base dipped at 2.50m DRY
S2-BH246	2	21/08/2023 13:44	Water Level	2.96	m	0.01	Dip Meter	Base dipped at 8.01m
S2-BH247	1		Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 8.82m
S2-BH247	2	26/06/2023 09:59	Peak Methane	1.7	%	0.5	GA5000	
S2-BH247	2	26/06/2023 09:59	Steady Oxygen	19.2	%	1	GA5000	
S2-BH247	2	26/06/2023 09:59	Peak Oxygen	19.2	%	1	GA5000	
S2-BH247	2	26/06/2023 09:59	Gas Flow Rate	0.02	l/hr	0.3	GA5000	
S2-BH247	2	26/06/2023 09:59	Differential Pressure	-0.009	mbar	4	GA5000	
S2-BH247	2	26/06/2023 09:59	Hydrogen Sulphide	1	ppm	1.5	GA5000	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH247	2	26/06/2023 09:59	Steady Carbon Dioxide	1.4	%	0.5	GA5000	
S2-BH247	2	26/06/2023 09:59	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH247	2	26/06/2023 09:59	Peak Carbon Dioxide	1.4	%	0.5	GA5000	
S2-BH247	2	26/06/2023 09:59	Barometric Pressure	995	mbar	5	GA5000	
S2-BH247	2	26/06/2023 10:03	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 1.99m
S2-BH247	1	26/06/2023 10:04	Peak Methane	1.7	%	0.5	GA5000	
S2-BH247	1	26/06/2023 10:04	Steady Methane	1.7	%	0.5	GA5000	
S2-BH247	1	26/06/2023 10:04	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH247	1	26/06/2023 10:04	Peak Oxygen	20.3	%	1	GA5000	
S2-BH247	1	26/06/2023 10:04	Steady Oxygen	20.8	%	1	GA5000	
S2-BH247	1	26/06/2023 10:04	Barometric Pressure	995	mbar	5	GA5000	
S2-BH247	1	26/06/2023 10:04	Peak Carbon Dioxide	1.7	%	0.5	GA5000	
S2-BH247	1	26/06/2023 10:04	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH247	1	26/06/2023 10:04	Steady Carbon Dioxide	1.7	%	0.5	GA5000	
S2-BH247	1	26/06/2023 10:04	Differential Pressure	0.03	mbar	4	GA5000	
S2-BH247	1	26/06/2023 10:04	Gas Flow Rate	0.1	l/hr	0.3	GA5000	
S2-BH247	1	25/07/2023 14:08	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Differential Pressure	1.19	mbar	4	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Hydrogen Sulphide	1	ppm	1.5	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Steady Carbon Dioxide	6.1	%	0.5	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Peak Carbon Dioxide	6.2	%	0.5	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Barometric Pressure	987	mbar	5	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Steady Oxygen	5.3	%	1	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Peak Oxygen	5.3	%	1	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH247	1	25/07/2023 14:08	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Peak Oxygen	14.7	%	1	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Steady Oxygen	18.3	%	1	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Peak Carbon Dioxide	0.9	%	0.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Steady Carbon Dioxide	0.8	%	0.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Differential Pressure	0	mbar	4	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:14	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH247	2	25/07/2023 14:21	Water Level	1.28	m	0.01	Dip Meter	Base dipped at 1.99m



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH247	1	25/07/2023 14:29	Water Level	8.36	m	0.01	Dip Meter	Base dipped at 8.84m
S2-BH247	2	22/08/2023 10:58	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Steady Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Steady Oxygen	18.5	%	1	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Peak Oxygen	18.5	%	1	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Differential Pressure	-0.07	mbar	4	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Steady Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Peak Carbon Dioxide	0.8	%	0.5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 10:58	Barometric Pressure	994	mbar	5	GA5000 SN:G504748	
S2-BH247	2	22/08/2023 11:04	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 1.96m
S2-BH247	1	22/08/2023 11:06	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Steady Oxygen	1	%	1	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Peak Oxygen	1	%	1	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Barometric Pressure	994	mbar	5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Peak Carbon Dioxide	6.2	%	0.5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Steady Carbon Dioxide	6.2	%	0.5	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Differential Pressure	-0.14	mbar	4	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH247	1	22/08/2023 11:06	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH248	2	26/06/2023 16:34	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH248	2	26/06/2023 16:34	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH248	2	26/06/2023 16:34	Differential Pressure	0	mbar	4	GA5000	
S2-BH248	2	26/06/2023 16:34	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH248	2	26/06/2023 16:34	Steady Carbon Dioxide	2.8	%	0.5	GA5000	
S2-BH248	2	26/06/2023 16:34	Peak Carbon Dioxide	3	%	0.5	GA5000	
S2-BH248	2	26/06/2023 16:34	Barometric Pressure	997	mbar	5	GA5000	
S2-BH248	2	26/06/2023 16:34	Steady Oxygen	19	%	1	GA5000	
S2-BH248	2	26/06/2023 16:34	Peak Oxygen	16.1	%	1	GA5000	
S2-BH248	2	26/06/2023 16:34	Peak Methane	1.6	%	0.5	GA5000	
S2-BH248	2	26/06/2023 16:34	Steady Methane	1.6	%	0.5	GA5000	
S2-BH248	2	26/06/2023 16:36	Water Level		m	0.01	Dip Meter	Base dipped at 3.90m Dry.
S2-BH248	1	26/06/2023 16:38	Steady Methane	1.9	%	0.5	GA5000	
S2-BH248	1	26/06/2023 16:38	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH248	1	26/06/2023 16:38	Peak Methane	1.9	%	0.5	GA5000	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH248	1	26/06/2023 16:38	Peak Oxygen	20.1	%	1	GA5000	
S2-BH248	1	26/06/2023 16:38	Steady Oxygen	19.9	%	1	GA5000	
S2-BH248	1	26/06/2023 16:38	Barometric Pressure	997	mbar	5	GA5000	
S2-BH248	1	26/06/2023 16:38	Peak Carbon Dioxide	1.4	%	0.5	GA5000	
S2-BH248	1	26/06/2023 16:38	Steady Carbon Dioxide	1.4	%	0.5	GA5000	
S2-BH248	1	26/06/2023 16:38	Differential Pressure	0.02	mbar	4	GA5000	
S2-BH248	1	26/06/2023 16:38	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH248	1	26/06/2023 16:41	Gas Flow Rate	-0.1	l/hr	0.3	GA5000 SN:G504748 OR	
S2-BH248	1	26/06/2023 16:43	Water Level	6.3	m	0.01	Dip Meter	Base dipped at 9.01m
S2-BH248	1	25/07/2023 14:38	Peak Methane	0.8	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Steady Methane	0.8	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Steady Oxygen	19.1	%	1	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Peak Oxygen	19.1	%	1	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Gas Flow Rate	3.9	l/hr	0.3	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Differential Pressure	-0.07	mbar	4	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Steady Carbon Dioxide	2	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Barometric Pressure	986	mbar	5	GA5000 SN:G504748	
S2-BH248	1	25/07/2023 14:38	Peak Carbon Dioxide	2	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Peak Carbon Dioxide	1.7	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Barometric Pressure	987	mbar	5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Steady Carbon Dioxide	1.7	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Differential Pressure	0.05	mbar	4	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Steady Oxygen	19	%	1	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Peak Oxygen	19	%	1	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Peak Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:45	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/07/2023 14:48	Water Level		m	0.01	Dip Meter	Base dipped at 3.90m Dry.
S2-BH248	1	25/07/2023 14:49	Water Level	6.1	m	0.01	Dip Meter	Base dipped at 9.26m
S2-BH248	2	25/08/2023 10:48	Steady Oxygen	18.9	%	1	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Peak Oxygen	18.9	%	1	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH248	2	25/08/2023 10:48	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Differential Pressure	-0.03	mbar	4	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Steady Carbon Dioxide	2.1	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Peak Carbon Dioxide	2.1	%	0.5	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 10:48	Barometric Pressure	984	mbar	5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Peak Carbon Dioxide	1.7	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Barometric Pressure	984	mbar	5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Steady Carbon Dioxide	1.1	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Differential Pressure	0.14	mbar	4	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Steady Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Peak Oxygen	19.7	%	1	GA5000 SN:G504748	
S2-BH248	1	25/08/2023 10:53	Steady Oxygen	19.9	%	1	GA5000 SN:G504748	
S2-BH248	2	25/08/2023 11:00	Water Level		m	0.01	Dip Meter	Base dipped dry at 3.90m
S2-BH248	1	25/08/2023 11:01	Water Level	6	m	0.01	Dip Meter	Base dipped at 8.95m
S2-BH249	1	26/06/2023 05:02	Steady Oxygen	8.9	%	1	GA5000	
S2-BH249	1	26/06/2023 05:02	Peak Oxygen	8.9	%	1	GA5000	
S2-BH249	1	26/06/2023 05:02	Steady Carbon Dioxide	10.2	%	0.5	GA5000	
S2-BH249	1	26/06/2023 14:02	Peak Carbon Dioxide	10.2	%	0.5	GA5000	
S2-BH249	1	26/06/2023 14:02	Barometric Pressure	996	mbar	5	GA5000	
S2-BH249	1	26/06/2023 14:02	Carbon Monoxide	3	ppm	2	GA5000	
S2-BH249	1	26/06/2023 14:02	Differential Pressure	-0.02	mbar	4	GA5000	
S2-BH249	1	26/06/2023 14:02	Steady Methane	1.6	%	0.5	GA5000	
S2-BH249	1	26/06/2023 14:02	Peak Methane	1.7	%	0.5	GA5000	
S2-BH249	1	26/06/2023 14:02	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH249	1	26/06/2023 14:05	Gas Flow Rate	0.2	l/hr	0.3	GA5000	
S2-BH249	2	26/06/2023 14:13	Carbon Monoxide	1	ppm	2	GA5000	
S2-BH249	2	26/06/2023 14:13	Differential Pressure	-0.17	mbar	4	GA5000	
S2-BH249	2	26/06/2023 14:13	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH249	2	26/06/2023 14:13	Barometric Pressure	996	mbar	5	GA5000	
S2-BH249	2	26/06/2023 14:13	Peak Carbon Dioxide	9.3	%	0.5	GA5000	
S2-BH249	2	26/06/2023 14:13	Steady Carbon Dioxide	8.9	%	0.5	GA5000	
S2-BH249	2	26/06/2023 14:13	Peak Methane	1.6	%	0.5	GA5000	
S2-BH249	2	26/06/2023 14:13	Steady Methane	1.6	%	0.5	GA5000	
S2-BH249	1	26/06/2023 14:13	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.14m
S2-BH249	2	26/06/2023 14:13	Steady Oxygen	9.3	%	1	GA5000	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH249	2	26/06/2023 14:13	Peak Oxygen	9.1	%	1	GA5000	
S2-BH249	2	26/06/2023 14:15	Gas Flow Rate	0.1	l/hr	0.3	GA5000	
S2-BH249	2	26/06/2023 14:16	Water Level	4.85	m	0.01	Dip Meter	Base dipped at 7.65m
S2-BH249	2	24/07/2023 13:54	Steady Methane	0.1	%	0.5	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Peak Methane	0.1	%	0.5	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Steady Oxygen	8.1	%	1	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Peak Oxygen	8.1	%	1	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Gas Flow Rate	0.2	l/hr	0.3	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Carbon Monoxide	0	ppm	2	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Differential Pressure	0.09	mbar	4	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Steady Carbon Dioxide	4.6	%	0.5	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Peak Carbon Dioxide	4.6	%	0.5	GA5000 G508511	
S2-BH249	2	24/07/2023 13:54	Barometric Pressure	983	mbar	5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Barometric Pressure	983	mbar	5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Peak Carbon Dioxide	4.2	%	0.5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Steady Carbon Dioxide	4.1	%	0.5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Differential Pressure	0.16	mbar	4	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Carbon Monoxide	0	ppm	2	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Gas Flow Rate	0	l/hr	0.3	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Peak Oxygen	7.2	%	1	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Steady Oxygen	7.5	%	1	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Peak Methane	0	%	0.5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Hydrogen Sulphide	0	ppm	1.5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:05	Steady Methane	0	%	0.5	GA5000 G508511	
S2-BH249	1	24/07/2023 14:20	Water Level		m	0.01	Dip Meter	Borehole dry. Base dipped at 3.14m
S2-BH249	2	24/07/2023 14:22	Water Level	3.76	m	0.01	Dip Meter	Base dipped at 7.70m
S2-BH249	1	21/08/2023 13:28	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Steady Oxygen	6.5	%	1	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Peak Oxygen	6.5	%	1	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Differential Pressure	-0.09	mbar	4	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Steady Carbon Dioxide	6.9	%	0.5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Peak Carbon Dioxide	6.9	%	0.5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:28	Barometric Pressure	996	mbar	5	GA5000 SN:G504748	
S2-BH249	1	21/08/2023 13:37	Water Level		m	0.01	Dip Meter	Base dipped dry at 3.15m



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH249	2	21/08/2023 13:38	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Peak Oxygen	6.9	%	1	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Steady Oxygen	6.9	%	1	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Barometric Pressure	996	mbar	5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Peak Carbon Dioxide	7.3	%	0.5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Steady Carbon Dioxide	7.3	%	0.5	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Differential Pressure	-0.03	mbar	4	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:38	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH249	2	21/08/2023 13:46	Water Level	3.69	m	0.01	Dip Meter	Base dipped at 7.49m
S2-BH250	1		Water Level	3.53	m	0.01	Dip Meter	Base dipped at 9.07m
S2-BH250	1	26/06/2023 16:13	Steady Methane	1.6	%	0.5	GA5000	
S2-BH250	1	26/06/2023 16:13	Peak Methane	1.6	%	0.5	GA5000	
S2-BH250	1	26/06/2023 16:13	Steady Oxygen	15.4	%	1	GA5000	
S2-BH250	1	26/06/2023 16:13	Peak Oxygen	15.4	%	1	GA5000	
S2-BH250	1	26/06/2023 16:13	Gas Flow Rate	1.2	l/hr	0.3	GA5000	
S2-BH250	1	26/06/2023 16:13	Differential Pressure	0	mbar	4	GA5000	
S2-BH250	1	26/06/2023 16:13	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH250	1	26/06/2023 16:13	Steady Carbon Dioxide	3.5	%	0.5	GA5000	
S2-BH250	1	26/06/2023 16:13	Carbon Monoxide	2	ppm	2	GA5000	
S2-BH250	1	26/06/2023 16:13	Peak Carbon Dioxide	3.5	%	0.5	GA5000	
S2-BH250	1	26/06/2023 16:13	Barometric Pressure	997	mbar	5	GA5000	
S2-BH250	2	26/06/2023 16:16	Barometric Pressure	997	mbar	5	GA5000	
S2-BH250	2	26/06/2023 16:16	Peak Carbon Dioxide	13.6	%	0.5	GA5000	
S2-BH250	2	26/06/2023 16:16	Steady Carbon Dioxide	13.6	%	0.5	GA5000	
S2-BH250	2	26/06/2023 16:16	Differential Pressure	0.09	mbar	4	GA5000	
S2-BH250	2	26/06/2023 16:16	Gas Flow Rate	0	l/hr	0.3	GA5000	
S2-BH250	2	26/06/2023 16:16	Carbon Monoxide	2	ppm	2	GA5000	
S2-BH250	2	26/06/2023 16:16	Steady Oxygen	8.4	%	1	GA5000	
S2-BH250	2	26/06/2023 16:16	Peak Oxygen	8.4	%	1	GA5000	
S2-BH250	2	26/06/2023 16:16	Peak Methane	1.6	%	0.5	GA5000	
S2-BH250	2	26/06/2023 16:16	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH250	2	26/06/2023 16:16	Steady Methane	1.6	%	0.5	GA5000	
S2-BH250	2	26/06/2023 16:28	Water Level		m	0.01	Dip Meter	Base dipped at 2.05m Dry.
S2-BH250	1	26/07/2023 10:04	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH250	1	26/07/2023 10:04	Steady Oxygen	17.1	%	1	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Peak Oxygen	17.1	%	1	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Gas Flow Rate	6.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Differential Pressure	0.79	mbar	4	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Carbon Monoxide	3	ppm	2	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Peak Carbon Dioxide	3.2	%	0.5	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Steady Carbon Dioxide	3.2	%	0.5	GA5000 SN:G504748	
S2-BH250	1	26/07/2023 10:04	Barometric Pressure	986	mbar	5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Barometric Pressure	986	mbar	5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Peak Carbon Dioxide	10.8	%	0.5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Steady Carbon Dioxide	10.7	%	0.5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Differential Pressure	-0.02	mbar	4	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Gas Flow Rate	0.1	l/hr	0.3	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Peak Oxygen	7.7	%	1	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Steady Oxygen	7.7	%	1	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Steady Methane	0	%	0.5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:12	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH250	2	26/07/2023 10:20	Water Level		m	0.01	Dip Meter	Base dipped at 2.03m Dry
S2-BH250	1	26/07/2023 10:21	Water Level	3.23	m	0.01	Dip Meter	Base dipped at 9.30m
S2-BH250	2	24/08/2023 15:33	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Peak Methane	0.2	%	0.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Steady Oxygen	2.7	%	1	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Peak Oxygen	2.7	%	1	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Differential Pressure	-0.1	mbar	4	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Steady Carbon Dioxide	13.8	%	0.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Peak Carbon Dioxide	13.8	%	0.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:33	Barometric Pressure	986	mbar	5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Barometric Pressure	986	mbar	5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Steady Carbon Dioxide	4.6	%	0.5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Peak Carbon Dioxide	4.6	%	0.5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Differential Pressure	-14.47	mbar	4	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Gas Flow Rate	-1.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Carbon Monoxide	2	ppm	2	GA5000 SN:G504748	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH250	1	24/08/2023 15:45	Steady Oxygen	17.5	%	1	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Peak Oxygen	17.5	%	1	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH250	1	24/08/2023 15:45	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH250	2	24/08/2023 15:50	Water Level		m	0.01	Dip Meter	Base dipped at 2.07m Dry.
S2-BH250	1	24/08/2023 15:51	Water Level	3.21	m	0.01	Dip Meter	Base dipped at 8.97m
S2-BH252	1	26/06/2023 15:39	Water Level		m	0.01	Dip Meter	Base dipped at 2.54m Dry
S2-BH252	1	26/06/2023 15:39	Steady Methane	1.6	%	0.5	GA5000	
S2-BH252	1	26/06/2023 15:39	Hydrogen Sulphide	1	ppm	1.5	GA5000	
S2-BH252	1	26/06/2023 15:39	Peak Methane	1.7	%	0.5	GA5000	
S2-BH252	1	26/06/2023 15:39	Steady Oxygen	16.4	%	1	GA5000	
S2-BH252	1	26/06/2023 15:39	Peak Oxygen	16.4	%	1	GA5000	
S2-BH252	1	26/06/2023 15:39	Gas Flow Rate	0.1	l/hr	0.3	GA5000	
S2-BH252	1	26/06/2023 15:39	Differential Pressure	0.05	mbar	4	GA5000	
S2-BH252	1	26/06/2023 15:39	Peak Carbon Dioxide	4.1	%	0.5	GA5000	
S2-BH252	1	26/06/2023 15:39	Steady Carbon Dioxide	4.1	%	0.5	GA5000	
S2-BH252	1	26/06/2023 15:39	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH252	1	26/06/2023 15:39	Barometric Pressure	997	mbar	5	GA5000	
S2-BH252	2	26/06/2023 15:48	Barometric Pressure	997	mbar	5	GA5000	
S2-BH252	2	26/06/2023 15:48	Peak Carbon Dioxide	2.1	%	0.5	GA5000	
S2-BH252	2	26/06/2023 15:48	Steady Carbon Dioxide	2	%	0.5	GA5000	
S2-BH252	2	26/06/2023 15:48	Differential Pressure	-0.68	mbar	4	GA5000	
S2-BH252	2	26/06/2023 15:48	Hydrogen Sulphide	2	ppm	1.5	GA5000	
S2-BH252	2	26/06/2023 15:48	Gas Flow Rate	5.3	l/hr	0.3	GA5000	
S2-BH252	2	26/06/2023 15:48	Carbon Monoxide	4	ppm	2	GA5000	
S2-BH252	2	26/06/2023 15:48	Peak Oxygen	18.9	%	1	GA5000	
S2-BH252	2	26/06/2023 15:48	Steady Oxygen	18.9	%	1	GA5000	
S2-BH252	2	26/06/2023 15:48	Peak Methane	1.6	%	0.5	GA5000	
S2-BH252	2	26/06/2023 15:48	Steady Methane	1.6	%	0.5	GA5000	
S2-BH252	2	26/06/2023 15:50	Water Level	5.41	m	0.01	Dip Meter	Base dipped at 8.63m
S2-BH252	1	25/07/2023 11:54	Peak Oxygen	18.8	%	1	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Steady Oxygen	19.6	%	1	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Differential Pressure	-0.05	mbar	4	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Steady Carbon Dioxide	1.9	%	0.5	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH252	1	25/07/2023 11:54	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 11:54	Peak Carbon Dioxide	2	%	0.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Barometric Pressure	987	mbar	5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Peak Carbon Dioxide	1.5	%	0.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Steady Carbon Dioxide	1.5	%	0.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Differential Pressure	89.05	mbar	4	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Carbon Monoxide	5	ppm	2	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Gas Flow Rate	-5.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Hydrogen Sulphide	1	ppm	1.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Steady Oxygen	19.7	%	1	GA5000 SN:G508511	
S2-BH252	2	25/07/2023 12:01	Peak Oxygen	19.7	%	1	GA5000 SN:G508511	
S2-BH252	1	25/07/2023 12:07	Water Level		m	0.01	Dip Meter	Damp at base. Base dipped at 2.58m
S2-BH252	2	25/07/2023 12:10	Water Level	4.07	m	0.01	Dip Meter	Base dipped at 8.87m
S2-BH252	1	22/08/2023 13:19	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Peak Methane	0.1	%	0.5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Peak Oxygen	15.2	%	1	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Steady Oxygen	15.2	%	1	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Carbon Monoxide	0	ppm	2	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Differential Pressure	0.02	mbar	4	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Steady Carbon Dioxide	5.1	%	0.5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Peak Carbon Dioxide	5.2	%	0.5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:19	Barometric Pressure	994	mbar	5	GA5000 SN:G508511	
S2-BH252	1	22/08/2023 13:45	Water Level		m	0.01	Dip Meter	Base dipped at 2.55m Dry
S2-BH252	2	22/08/2023 13:48	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Steady Oxygen	19.2	%	1	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Peak Oxygen	19.1	%	1	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Barometric Pressure	994	mbar	5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Peak Carbon Dioxide	1.6	%	0.5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Steady Carbon Dioxide	1.6	%	0.5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Differential Pressure	-11.13	mbar	4	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:48	Gas Flow Rate	7.3	l/hr	0.3	GA5000 SN:G508511	
S2-BH252	2	22/08/2023 13:51	Water Level	4.5	m	0.01	Dip Meter	Base dipped at 9.00m



GAS AND GROUNDWATER MONITORING DATA

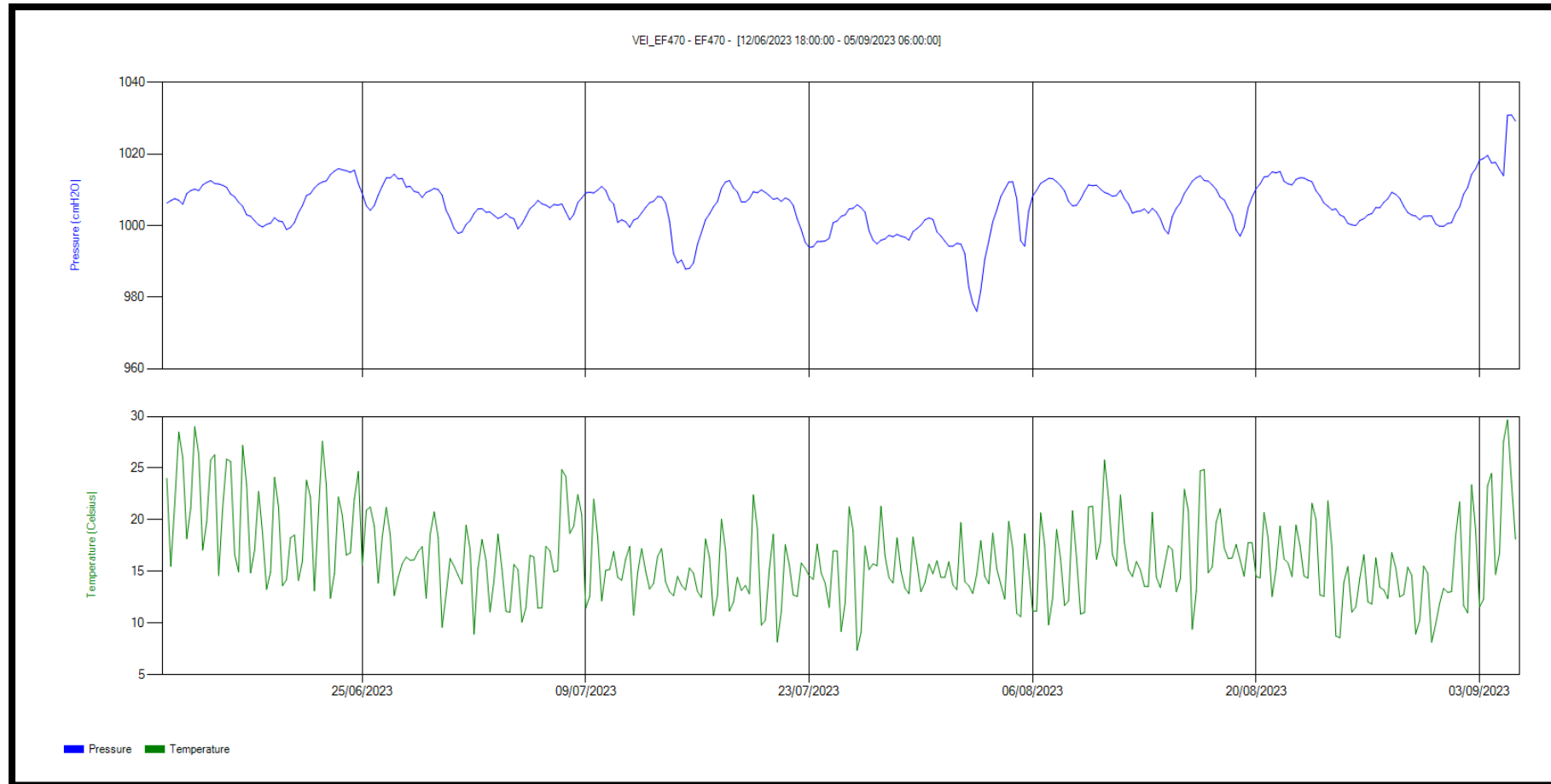
Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH261	1	27/06/2023 14:34	Steady Methane	1.7	%	0.5	GA5000	
S2-BH261	1	27/06/2023 14:34	Peak Methane	1.7	%	0.5	GA5000	
S2-BH261	1	27/06/2023 14:34	Steady Oxygen	18.8	%	1	GA5000	
S2-BH261	1	27/06/2023 14:34	Peak Oxygen	18.7	%	1	GA5000	
S2-BH261	1	27/06/2023 14:34	Gas Flow Rate	0.3	l/hr	0.3	GA5000	
S2-BH261	1	27/06/2023 14:34	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH261	1	27/06/2023 14:34	Differential Pressure	0.23	mbar	4	GA5000	
S2-BH261	1	27/06/2023 14:34	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH261	1	27/06/2023 14:34	Steady Carbon Dioxide	1.3	%	0.5	GA5000	
S2-BH261	1	27/06/2023 14:34	Peak Carbon Dioxide	1.9	%	0.5	GA5000	
S2-BH261	1	27/06/2023 14:34	Barometric Pressure	994	mbar	5	GA5000	
S2-BH261	1	27/06/2023 14:40	Water Level	11.58	m	0.01	Dip Meter	Base dipped at 14.32m
S2-BH261	2	27/06/2023 14:51	Water Level		m	0.01	Dip Meter	Base dipped at 7.62m Dry.
S2-BH261	2	27/06/2023 14:55	Steady Methane	1.7	%	0.5	GA5000	
S2-BH261	2	27/06/2023 14:55	Peak Methane	1.7	%	0.5	GA5000	
S2-BH261	2	27/06/2023 14:55	Steady Oxygen	14.2	%	1	GA5000	
S2-BH261	2	27/06/2023 14:55	Peak Oxygen	14.4	%	1	GA5000	
S2-BH261	2	27/06/2023 14:55	Peak Carbon Dioxide	4.3	%	0.5	GA5000	
S2-BH261	2	27/06/2023 14:55	Barometric Pressure	994	mbar	5	GA5000	
S2-BH261	2	27/06/2023 14:55	Steady Carbon Dioxide	3.9	%	0.5	GA5000	
S2-BH261	2	27/06/2023 14:55	Hydrogen Sulphide	0	ppm	1.5	GA5000	
S2-BH261	2	27/06/2023 14:55	Differential Pressure	-0.05	mbar	4	GA5000	
S2-BH261	2	27/06/2023 14:55	Carbon Monoxide	0	ppm	2	GA5000	
S2-BH261	2	27/06/2023 14:55	Gas Flow Rate	0	l/hr	0.3	GA5000	
S2-BH261	1	25/07/2023 15:10	Gas Flow Rate	1.9	l/hr	0.3	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Differential Pressure	28.33	mbar	4	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Hydrogen Sulphide	1	ppm	1.5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Steady Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Carbon Monoxide	2	ppm	2	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Peak Carbon Dioxide	3.9	%	0.5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Barometric Pressure	987	mbar	5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Steady Oxygen	9.9	%	1	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Peak Oxygen	9.9	%	1	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:10	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH261	1	25/07/2023 15:18	Water Level	9.72	m	0.01	Dip Meter	Base dipped at 14.08m
S2-BH261	2	25/07/2023 15:22	Steady Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Peak Methane	0	%	0.5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Steady Oxygen	12.9	%	1	GA5000 SN:G508511	



GAS AND GROUNDWATER MONITORING DATA

Project	GCRE Monitoring			Project No	G23012C	Client	Walters UK Limited	
Exploratory Hole	Pipe Ref.	Date and Time	Reading Type	Reading	Units	Detection Limit	Instrument	Remarks
S2-BH261	2	25/07/2023 15:22	Peak Oxygen	12.9	%	1	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Barometric Pressure	988	mbar	5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Peak Carbon Dioxide	4.1	%	0.5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Carbon Monoxide	1	ppm	2	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Steady Carbon Dioxide	4	%	0.5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Hydrogen Sulphide	1	ppm	1.5	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Differential Pressure	0.1	mbar	4	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:22	Gas Flow Rate	0	l/hr	0.3	GA5000 SN:G508511	
S2-BH261	2	25/07/2023 15:26	Water Level	4.46	m	0.01	Dip Meter	Base dipped at 7.70m
S2-BH261	2	22/08/2023 11:31	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Peak Oxygen	13.4	%	1	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Steady Oxygen	13.5	%	1	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Gas Flow Rate	0.2	l/hr	0.3	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Carbon Monoxide	0	ppm	2	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Differential Pressure	-0.02	mbar	4	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Steady Carbon Dioxide	4	%	0.5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Peak Carbon Dioxide	4	%	0.5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:31	Barometric Pressure	995	mbar	5	GA5000 SN:G504748	
S2-BH261	2	22/08/2023 11:41	Water Level		m	0.01	Dip Meter	Base dipped dry at 7.81m
S2-BH261	1	22/08/2023 11:48	Steady Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Peak Methane	0.1	%	0.5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Hydrogen Sulphide	0	ppm	1.5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Steady Oxygen	11.9	%	1	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Peak Oxygen	11.9	%	1	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Barometric Pressure	995	mbar	5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Peak Carbon Dioxide	2.8	%	0.5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Steady Carbon Dioxide	2.8	%	0.5	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Differential Pressure	3.96	mbar	4	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:48	Carbon Monoxide	1	ppm	2	GA5000 SN:G504748	
S2-BH261	1	22/08/2023 11:56	Water Level	9.56	m	0.01	Dip Meter	Base dipped at 14.06m

G23012C GCRE Stage 2 Monitoring Barometric Pressure and Temperature



Appendix III

Sampling

Purging and Sampling Records

In-Situ Parameters

Monitoring Visit One

Monitoring Visit Two

Monitoring Visit Three

Monitoring visit One – S2-BH118, S2-BH119.1, S2-BH120, S2-BH217.1, S2-BH225, S2-BH227.1, S2-BH232, S2-BH237, S2-BH239.1, S2-BH239.2, S2-BH240, S2-BH242, S2-BH243.1, S2-BH244.2, S2-BH246.1, S2-BH248.1, S2-BH249.2, S2-BH250.1, S2-BH252.2

Monitoring Visit Two – S2-BH118, S2-BH119.1, S2-BH119.2, S2-BH120, S2-BH217.1, S2-BH222.2, S2-BH225, S2-BH227.1, S2-BH227.2, S2-BH229.1, S2-BH232, S2-BH237, S2-BH239.1, S2-BH239.2, S2-BH240, S2-BH242, S2-BH243.1, S2-BH244.2, S2-BH246.1, S2-BH248.1, S2-BH249.2, S2-BH250.1, S2-BH252.2, S2-BH261.1, S2-BH261.2

Monitoring Visit Three – S2-BH118, S2-BH119.1, S2-BH120, S2-BH217.1, S2-BH229.1, S2-BH237, S2-BH239.1, S2-BH239.2, S2-BH240, S2-BH242, S2-BH243.1, S2-BH244.2, S2-BH246.1, S2-BH248.1, S2-BH249.2, S2-BH250.1, S2-BH252.2



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S1-BH118	1	50		15.00	29/06/2023 10:30	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	8.00		15.00	Cloudy	
Installation Inspection						
Surface Conditions	Dry		Damage to Headworks?	No		
Check Dip of Base (m bgl)	14.92		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack		
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)		
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				7.00		
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)		
0.33				0.33		
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	22.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	7.76	LNAPL/ DNAPL (m bgl)	NA	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	7.24		
Time to Purge (mins)	6	Number of Well Volumes Purged	0.3	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		
				14.2		
				Total Well Volume		
Total Volume Purged (litres)	12.0	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		
				36.2		
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	14.92	
				Sample Type	EW	
				Sample Reference Number	1	
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	29/06/2023 10:59	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running opaque	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)		Date and Time	
S1-BH119	1		50	15.00		29/06/2023 11:10	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)		Weather	
Box Cover	Pipe Plug		8.00	15.00		Sunny	
Installation Inspection							
Surface Conditions	Dry		Damage to Headworks?	No			
Check Dip of Base (m bgl)	15.00		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		7.00	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	22.0		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	7.61	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		14.5	
Time to Purge (mins)	18	Number of Well Volumes Purged	1.0	Total Well Volume			
Total Volume Purged (litres)	36.0	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	36.5		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Trol I400	Groundwater Odour	No	Sample Depth (m bgl)	15.00		
				Sample Type	EW		
				Sample Reference Number	2		
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	29/06/2023 11:28		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S1-BH119	2	50	4.00	29/06/2023 10:50	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00	4.00	Sunny	
Installation Inspection					
Surface Conditions	Dry	Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.60	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	1.84
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	5.8
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	2.16	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	1.84
Purge Method/ Device	Wasp pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	3.6
Time to Purge (mins)	6	Number of Well Volumes Purged	1.3	Total Well Volume	
Total Volume Purged (litres)	12.0	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	9.4
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	3.60
				Sample Type	EW
				Sample Reference Number	1
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	29/06/2023 11:00
				Additional Notes and Observations	
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running clear	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S1-BH120	1	50		20.00	29/06/2023 12:17		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	12.00		20.00	Sunny		
Installation Inspection							
Surface Conditions	Dry		Damage to Headworks?	No			
Check Dip of Base (m bgl)	19.41		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				8.00			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)			
0.33				0.33			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	25.2		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	9.27	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp pump	Average Flow Rate (litres/min)	2.0	10.73			
Time to Purge (mins)	6	Number of Well Volumes Purged	0.3	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$			
				21.1			
				Total Well Volume			
Total Volume Purged (litres)	12.0	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				46.2			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	19.41		
				Sample Type	EW		
				Sample Reference Number	1		
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	29/06/2023 12:30		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH204	1	50	32.00	28/06/2023 15:11	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	21.00	32.00	Rain	
Installation Inspection					
Surface Conditions	Good	Damage to Headworks?	No		
Check Dip of Base (m bgl)	31.16	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	4.16
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	12.8
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	27.84	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A	4.16	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	8.2
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	
				21.0	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to sample. Water contains too much silt.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH207	1	50		40.00	28/06/2023 14:18	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	36.00		40.00	Rain	
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	40.23		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH208	1	50	40.50	28/06/2023 14:39	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	32.50	40.50	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	40.28	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH210	1	50	40.00	28/06/2023 14:45	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	30.00	40.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	39.91	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
No					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	2.38
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-(\pi dp^2/4))$	7.3
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	37.62	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	2.38
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	4.7
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	12.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Water too deep to be purged using current pump.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH214	1	50	30.00	30/06/2023 10:15	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	20.00	30.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	30.05	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	0.63
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	2.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	29.37	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	0.63
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	1.2
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	3.2
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water to sample.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH217	1	19		30.00	06/07/2023 12:43		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	25.00		30.00	Rain		
Installation Inspection							
Surface Conditions	Wet		Damage to Headworks?	No			
Check Dip of Base (m bgl)	29.55		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				5.00			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)			
0.33				0.33			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	18.2		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	15.62	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	1.0	14.38			
Time to Purge (mins)	10	Number of Well Volumes Purged	0.4	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$			
				4.1			
				Total Well Volume			
Total Volume Purged (litres)	10.0	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				22.3			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	29.55		
				Sample Type	EW		
				Sample Reference Number	1		
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	06/07/2023 13:00		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light brown	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH217	2	50		6.00	30/06/2023 11:00		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	2.00		6.00	Rain		
Installation Inspection							
Surface Conditions	Wet		Damage to Headworks?	No			
Check Dip of Base (m bgl)	5.88		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume				0.33			
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$			
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	0.0			
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume			
Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)				0.0			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A		
				Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH219	1	50	4.00	30/06/2023 11:06	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00	4.00	Showers	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.68	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH219	2	50		9.00	30/06/2023 10:52		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	5.00		9.00	Showers		
Installation Inspection							
Surface Conditions	Wet		Damage to Headworks?	No			
Check Dip of Base (m bgl)	8.66		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume				0.33			
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) ($L\phi/((\pi df^2/4)-(\pi dp^2/4))$)	0.0		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) ($\pi dp^2/4 \times 10^{-3}$)			
Time to Purge (mins)	N/A	Number of Well Volumes Purged		0.0			
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				0.0			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
				Date and Time Obtained	N/A		
				Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH220	1	50	39.00	28/06/2023 15:14	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	31.00	39.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	40.3	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH220	2	19		31.00	28/06/2023 15:20		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	1.00		31.00	Rain		
Installation Inspection							
Surface Conditions	Wet		Damage to Headworks?	No			
Check Dip of Base (m bgl)	30.20		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				1.30			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)			
0.33				0.33			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	4.7		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	29.70	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	NA	Average Flow Rate (litres/min)		1.30			
Time to Purge (mins)	NA	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$			
Total Volume Purged (litres)	N/A	Operative	JP	0.4			
				Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				5.1			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	NA	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
				Date and Time Obtained	N/A		
In-situ Parameter Device SN	NA	Visual Turbidity	N/A	Additional Notes and Observations			
Confirm Field Calibration Completed	NA	Groundwater Colour	N/A	Insufficient water to sample			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH221	1	0	10.00	30/06/2023 10:59		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Cover	4.00	10.00	Showers		
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	9.74		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	0.00	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Damp	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	0	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		0.00		
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH222	1	50	4.00	04/07/2023 14:40	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cover	2.00	4.00	Light rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.86	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH222	2	50	25.00	04/07/2023 14:50	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cover	15.00	25.00	Showers	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	24.65	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
				Additional Notes and Observations	
				N/A	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH223	1	50	10.00	05/07/2023 13:10		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Cover	4.00	10.00	Showers		
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	7.93		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	1.10	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	8.2	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	6.83	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)		1.10		
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	2.2	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	10.4	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	1029035	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	N/A	Unable to get pump to base of borehole. Possibly kinked at approximately 5m. Unable to obtain sample using a Waterra PP1 and 13mm diameter tubing (06/07/2023) due to silt in borehole.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH224	1	50		10.00	29/06/2023 16:19		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	2.00		10.00	Sunny		
Installation Inspection							
Surface Conditions	Dry		Damage to Headworks?	No			
Check Dip of Base (m bgl)	9.47		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume				0.33			
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$			
Time to Purge (mins)	N/A	Number of Well Volumes Purged		0.0			
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				0.0			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
				Date and Time Obtained	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH225	1	50	6.90	05/07/2023 10:20	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	3.00	6.90	Showers	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	5.89	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	2.92
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	9.2
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	3.98	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	2.92
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	5.7
Time to Purge (mins)	7.50	Number of Well Volumes Purged	1.0	Total Well Volume	
Total Volume Purged (litres)	15.0	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	14.9
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	5.89
				Sample Type	EW
				Sample Reference Number	1
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	05/07/2023 10:35
				Additional Notes and Observations	
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light brown	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH226	1	50	10.00	05/07/2023 11:27	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cover	4.00	10.00	Sowers	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	No		
Check Dip of Base (m bgl)	9.79	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH227	1	19		5.50	29/06/2023 00:00		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	1.00		5.50	Cloudy		
Installation Inspection							
Surface Conditions	Dry		Damage to Headworks?	No			
Check Dip of Base (m bgl)	5.37		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				0.43			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)			
0.33				0.33			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	178		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	3.5		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	5.07	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A	0.43			
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.1		
Total Volume Purged (litres)	N/A	Operative	N/A	Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				3.6			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
				Date and Time Obtained	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water for sampling.			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH227	2	50	14.00	29/06/2023 14:50		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	8.00	14.00	Cloudy		
Installation Inspection						
Surface Conditions	Dry	Damage to Headworks?	No			
Check Dip of Base (m bgl)	14.35	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	2.91	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	9.2	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	11.09	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	2.91		
Time to Purge (mins)	64	Number of Well Volumes Purged	8.6	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	5.7	
Total Volume Purged (litres)	128.0	Operative	CE	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	14.9	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	11.09	
				Sample Type	EW	
				Sample Reference Number	1	
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	29/06/2023 16:13	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light brown running translucent	In-Situ parameters not settled after 1 hour., Test terminated after 64 minutes.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH228	1	50		40.00	29/06/2023 15:10		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	2.00		40.00	Sunny		
Installation Inspection							
Surface Conditions	Dry		Damage to Headworks?	No			
Check Dip of Base (m bgl)	36.81		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
NA							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume				0.33			
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	175		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$			
Time to Purge (mins)	N/A	Number of Well Volumes Purged		0.0			
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				0.0			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
				Date and Time Obtained	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH229	1	50	14.00	04/07/2023 13:50	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	8.00	14.00	Cloudy	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	13.81	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	0.42
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	1.3
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	13.58	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	0.42
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.8
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	2.1
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
				Additional Notes and Observations	
				Insufficient water to sample.	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH229	2	50	3.00	04/07/2023 13.37	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00	3.00	Cloudy	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	2.80	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH230	1	50		28.00	29/06/2023 15:34		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	2.00		28.00	Sunny		
Installation Inspection							
Surface Conditions	Dry		Damage to Headworks?	No			
Check Dip of Base (m bgl)	25.87		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume				0.33			
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	175		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$			
Time to Purge (mins)	N/A	Number of Well Volumes Purged		0.0			
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				0.0			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
				Date and Time Obtained	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH231	1	50	25.00	04/07/2023 11:46	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00	25.00	Showers	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	25.35	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH232	1	50		7.00	29/06/2023 11:45		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
0	Pipe Plug	1.00		7.00	Cloudy		
Installation Inspection							
Surface Conditions	Damp		Damage to Headworks?	No			
Check Dip of Base (m bgl)	6.83		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				1.72			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				0.33			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	168		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	11.5		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	5.28	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	1.72			
Time to Purge (mins)	6	Number of Well Volumes Purged	0.8	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$			
				3.4			
				Total Well Volume			
Total Volume Purged (litres)	12.0	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				14.8			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	6.83		
				Sample Type	EW		
				Sample Reference Number	1		
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	29/06/2023 11:56		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark brown running opaque	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH233	1	50	25.00	29/07/2023 16:40	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	25.00	Sunny	
Installation Inspection					
Surface Conditions	Dry	Damage to Headworks?	No		
Check Dip of Base (m bgl)	24.78	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	168
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)/((\pi df^2/4)-(\pi dp^2/4))$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Damp at base	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
				Additional Notes and Observations	
				N/A	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH235	1	50	15.00	04/07/2023 10:40	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	8.00	15.00	Showers	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	14.72	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH236	1	50	15.00	04/07/2023 10:55	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	10.00	15.00	Showers	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	14.49	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
				Additional Notes and Observations	
				N/A	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH237	1	50	24.80	29/06/2023 09:24		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	2.00	24.80	Cloudy		
Installation Inspection						
Surface Conditions	Dry		Damage to Headworks?	No		
Check Dip of Base (m bgl)	25.37		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	12.13	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	38.2	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	12.67	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	12.13		
Time to Purge (mins)	8	Number of Well Volumes Purged	0.3	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		
Total Volume Purged (litres)	16.0	Operative	JP	23.8		
				Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		
				62.0		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	25.37	
				Sample Type	EW	
				Sample Reference Number	1	
In-situ Parameter Device SN	102905	Visual Turbidity	Yes	Date and Time Obtained	29/06/2023 09:40	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Orangish red runing opaque	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH239	1	50	3.60	27/06/2023 10:08	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	3.60	Rain	
Installation Inspection					
Surface Conditions	Good	Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.60	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	1.71
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)/((\pi df^2/4)-(\pi dp^2/4))$	16.6
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	1.89	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	1.71
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	1.6	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	3.4
Time to Purge (mins)	10	Number of Well Volumes Purged	0.8	Total Well Volume	
Total Volume Purged (litres)	16.0	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	20.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	AquaTroll400	Groundwater Odour	No	Sample Depth (m bgl)	3.60
				Sample Type	EW
				Sample Reference Number	12
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	27/06/2023 10:20
				Additional Notes and Observations	
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlators Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)		Date and Time	
S2-BH239	2		50	10.00		27/06/2023 09:48	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)		Weather	
Box Cover	Pipe Plug		7.00	10.00		Rain	
Installation Inspection							
Surface Conditions	Good		Damage to Headworks?	No			
Check Dip of Base (m bgl)	7.60		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		3.00	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	14.6		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	2.20	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	1.8	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		15.3	
Time to Purge (mins)	10	Number of Well Volumes Purged	0.6	Total Well Volume			
Total Volume Purged (litres)	18.0	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	29.9		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	N/A	Sample Depth (m bgl)	7.60		
				Sample Type	EW		
				Sample Reference Number	11		
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	27/06/2023 10:00		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlators Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)		Date and Time	
S2-BH240	1		50	6.00		27/06/2023 10:30	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)		Weather	
Box Cover	Pipe Plug		1.00	6.00		Rain	
Installation Inspection							
Surface Conditions	Good		Damage to Headworks?	No			
Check Dip of Base (m bgl)	5.16		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		3.99	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	38.8		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	2.01	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	1.3	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		7.8	
Time to Purge (mins)	20	Number of Well Volumes Purged	0.5	Total Well Volume			
Total Volume Purged (litres)	25.0	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	46.6		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	5.16		
				Sample Type	EW		
				Sample Reference Number	11		
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	27/06/2023 10:50		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running clear	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH241	1	50	15.00	04/07/2023 11:10	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	10.00	15.00	Showers	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	14.74	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)/((\pi df^2/4)-(\pi dp^2/4))$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH242	1	50	3.70	27/06/2023 11:09	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	3.70	Rain	
Installation Inspection					
Surface Conditions	Good	Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.74	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	1.63
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	15.8
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	2.07	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	1.63
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	3.2
Time to Purge (mins)	4	Number of Well Volumes Purged	0.4	Total Well Volume	
Total Volume Purged (litres)	8.0	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	19.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	3.74
				Sample Type	EW
				Sample Reference Number	15
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	27/06/2023 11:13
				Additional Notes and Observations	
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown	Borehole Purged dry. Sample taken from bucket.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH243	1	50	6.00	27/06/2023 08:50	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	5.00	6.00	Rain	
Installation Inspection					
Surface Conditions	Good	Damage to Headworks?	No		
Check Dip of Base (m bgl)	5.88	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	1.00
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	5.2
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	3.66	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	2.34
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	4.6
Time to Purge (mins)	7.75	Number of Well Volumes Purged	1.6	Total Well Volume	
Total Volume Purged (litres)	15.5	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	9.8
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	5.88
				Sample Type	EW
				Sample Reference Number	13
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	27/06/2023 09:04
				Additional Notes and Observations	
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark brown running translucent	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlators Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH243	2	50		3.00	26/06/2023 13:49		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	1.00		3.00	Cloudy		
Installation Inspection							
Surface Conditions	Good		Damage to Headworks?	No			
Check Dip of Base (m bgl)	5.88		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume				0.33			
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$			
Time to Purge (mins)	N/A	Number of Well Volumes Purged		0.0			
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				0.0			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
				Date and Time Obtained	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH244	1		50		3.50	26/06/2023 13:20	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug		1.00		3.50	Cloudy	
Installation Inspection							
Surface Conditions		Good		Damage to Headworks?		No	
Check Dip of Base (m bgl)		3.49		Pipe Cover/Bung Present?		Yes	
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)		200	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$		0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)		50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume			
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		0.0	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)		N/A	
				Sample Type		N/A	
				Sample Reference Number		N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained		N/A	
				Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH244	2	50		10.00	26/06/2023 14:40		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	4.50		10.00	Cloudy		
Installation Inspection							
Surface Conditions	Dry		Damage to Headworks?	No			
Check Dip of Base (m bgl)	9.38		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				5.50			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)			
0.33				0.33			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	28.5		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	3.39	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	6.61			
Time to Purge (mins)	25.5	Number of Well Volumes Purged	1.2	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$			
				13.0			
				Total Well Volume			
Total Volume Purged (litres)	51.0	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				41.5			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	9.38		
				Sample Type	EW		
				Sample Reference Number	14		
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	26/06/2023 15:12		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark brown running clear	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH245	1	50		4.00	27/06/2023 13:50		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	1.50		4.00	Rain		
Installation Inspection							
Surface Conditions	Good		Damage to Headworks?	No			
Check Dip of Base (m bgl)	3.85		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				0.40			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume				Porosity of Filter Pack (ø)			
				0.33			
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)/((\pi df^2/4)-(\pi dp^2/4))$	3.9		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	3.60	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		0.40			
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.8		
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				4.7			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
				Date and Time Obtained	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water to sample			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH246	1	19	2.80	26/06/2023 10:50	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	2.80	Cloudy	
Installation Inspection					
Surface Conditions	Good	Damage to Headworks?	No		
Check Dip of Base (m bgl)	2.38	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4)-(\pi dp^2/4)$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH246	2	50	8.00	26/06/2023 13:13	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	3.50	8.00	Cloudy	
Installation Inspection					
Surface Conditions	Dry	Damage to Headworks?	No		
Check Dip of Base (m bgl)	7.87	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	4.04
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	20.9
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	3.96	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	4.04
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	7.9
Time to Purge (mins)	54	Number of Well Volumes Purged	3.7	Total Well Volume	
Total Volume Purged (litres)	108.0	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	28.9
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	7.87
				Sample Type	EW
				Sample Reference Number	11
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	26/06/2023 14:12
				Additional Notes and Observations	
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH247	1	50		9.00	26/06/2023 10:04		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	6.00		9.00	Cloudy		
Installation Inspection							
Surface Conditions	Dry		Damage to Headworks?	No			
Check Dip of Base (m bgl)	9.84		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume			
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0		
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A		
				Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH247	2	50	2.00	26/06/2023 10:00	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	2.00	Cloudy	
Installation Inspection					
Surface Conditions	Dry	Damage to Headworks?	No		
Check Dip of Base (m bgl)	1.99	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH248	1	50	9.50	28/06/2023 10:30	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	6.50	9.50	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	9.01	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	3.00
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	15.5
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	6.30	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	3.20	
Time to Purge (mins)	9	Number of Well Volumes Purged	0.8	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	6.3
Total Volume Purged (litres)	18.0	Operative	CE	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	21.8
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	9.01
				Sample Type	EW
				Sample Reference Number	1
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	28/06/2023 10:40
				Additional Notes and Observations	
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH248	2	50		4.00	26/06/2023 15:00	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00		4.00	Rain	
Installation Inspection						
Surface Conditions	Good		Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.9		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH249	1	19	2.80	26/06/2023 14:05	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cap	1.00	2.80	Cloudy	
Installation Inspection					
Surface Conditions	Good	Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.14	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	
				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlators Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH249	2	50		8.00	27/06/2023 00:00		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	3.50		8.00	Rain		
Installation Inspection							
Surface Conditions	Good		Damage to Headworks?	No			
Check Dip of Base (m bgl)	7.65		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				3.15			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)			
0.33				0.33			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	16.3		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	4.85	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp pump	Average Flow Rate (litres/min)	2.0	3.15			
Time to Purge (mins)	8.5	Number of Well Volumes Purged	0.8	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$			
				6.2			
				Total Well Volume			
Total Volume Purged (litres)	17.0	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				22.5			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	N/A	Sample Depth (m bgl)	7.65		
				Sample Type	EW		
				Sample Reference Number	14		
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	27/06/2023 09:33		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running opaque	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlaters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH250	1	50	9.50	28/06/2023 10:29	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	7.50	9.50	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	9.07	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	2.00
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	10.4
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	3.53	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	5.97
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	11.7
Time to Purge (mins)	11	Number of Well Volumes Purged	1.0	Total Well Volume	
Total Volume Purged (litres)	22.0	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	22.1
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	9.07
				Sample Type	EW
				Sample Reference Number	1
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	28/06/2023 10:51
				Additional Notes and Observations	
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running light brown	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH250	2	50	2.00	27/06/2023 14:15	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	2.00	Rain	
Installation Inspection					
Surface Conditions	Good	Damage to Headworks?	No		
Check Dip of Base (m bgl)	2.05	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack	
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)	
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/(\pi df^2/4) - (\pi dp^2/4)$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
				Date and Time Obtained	N/A
				Additional Notes and Observations	
				N/A	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH252	1	50		2.60	26/06/2023 15:44		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	1.00		2.60	Cloudy		
Installation Inspection							
Surface Conditions	Good		Damage to Headworks?	No			
Check Dip of Base (m bgl)	2.54		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Porosity of Filter Pack (ϕ)			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume				0.33			
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) ($L\phi/((\pi df^2/4)-(\pi dp^2/4))$)	0.0		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) ($\pi dp^2/4 \times 10^{-3}$)			
Time to Purge (mins)	N/A	Number of Well Volumes Purged		0.0			
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				0.0			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
				Date and Time Obtained	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH252	2		50		9.00	27/06/2023 14:30	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug		6.00		9.00	Showers	
Installation Inspection							
Surface Conditions		Wet		Damage to Headworks?		No	
Check Dip of Base (m bgl)		8.63		Pipe Cover/Bung Present?		Yes	
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		3.00	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	14.6		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	5.41	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		3.59	
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		7.0	
Time to Purge (mins)	7	Number of Well Volumes Purged	0.6	Total Well Volume			
Total Volume Purged (litres)	14.0	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		21.7	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)		8.63	
				Sample Type		EW	
				Sample Reference Number		18	
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained		27/06/2023 14:41	
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running opaque	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Wlaters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH261	1	50		15.00	27/06/2023 00:00		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	10.00		15.00	Rain		
Installation Inspection							
Surface Conditions	Wet		Damage to Headworks?	No			
Check Dip of Base (m bgl)	11.32		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017.				Volume of the Filter Pack			
Purge volumes to include the annulus of the filter pack.				Saturated length of Filter Pack (L) (m)			
Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				3.42			
Approx. Guidance Volumes for Field Calculation of Wet Well Volume				Porosity of Filter Pack (ø)			
Volume of 50mm diameter plain pipe				0.33			
2 litres / metre				Diameter of Filter Pack (mm) (df)			
Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack				150			
11 litres / metre				Volume of Filter Pack (litres) $(Lø)/((\pi df^2/4)-(\pi dp^2/4))$			
Porosity of 10mm pea gravel				17.7			
0.33				Volume of the Standpipe			
Groundwater Prior to Purging and Sampling				Diameter of Standpipe (mm) (dp)			
Groundwater Level (m bgl)				50			
11.58				Saturated depth (m) (sd) (installation base - groundwater level)			
LNAPL/ DNAPL (m bgl)				3.42			
N/A				Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$			
Purging Details				6.7			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A	Total Well Volume			
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
Total Volume Purged (litres)	N/A	Operative	CE	24.4			
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
				Date and Time Obtained	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to sample. Water contains too much silt.			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project		Project No		Client	
Exploratory Hole Number		Installation Reference		Anticipated Well Depth (m bgl)	
S2-BH261		2		8.00	
Cover Type		Pipe Cover		Date and Time	
Box Cover		Pipe Plug		27/06/2023 15:30	
Top of Response Zone (m bgl)		Base of Response Zone (m bgl)		Weather	
3.00		8.00		Rain	

Installation Inspection			
Surface Conditions		Wet	
Check Dip of Base (m bgl)		7.62	
Damage to Headworks?		No	
Pipe Cover/Bung Present?		Yes	

Remedial actions undertaken to well:

N/A

Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	CE	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S1-BH118	1	50	15.00	27/07/2023 10:40		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	8.00	15.00	Rain		
Installation Inspection						
Surface Conditions	Wet	Damage to Headworks?	No			
Check Dip of Base (m bgl)	14.97	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	7.00	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	22.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	6.93	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	8.07		
Time to Purge (mins)	12.5	Number of Well Volumes Purged	0.7	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		
Total Volume Purged (litres)	25.0	Operative	JP	15.8		
				Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		
				37.9		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	14.93	
				Sample Type	EW	
				Sample Reference Number	2	
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	27/07/2023 11:06	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running opaque	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S1-BH119	1	50	15.00	27/07/2023 10:48		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	8.00	15.00	Rain		
Installation Inspection						
Surface Conditions	Wet	Damage to Headworks?	No			
Check Dip of Base (m bgl)	15.35	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	7.00	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	22.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	7.97	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	7.03		
Time to Purge (mins)	9	Number of Well Volumes Purged	0.5	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		
Total Volume Purged (litres)	18.0	Operative	KW	13.8		
				Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		
				35.8		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	15.35	
				Sample Type	EW	
				Sample Reference Number	3	
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	27/07/2023 11:07	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S1-BH119	2	50		4.00	27/07/2023 11:18	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00		4.00	Rain	
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	4.00		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	1.33	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	4.2	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	2.67	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	1.33		
Time to Purge (mins)	9.0	Number of Well Volumes Purged	2.6	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		
Total Volume Purged (litres)	18.0	Operative	KW	2.6		
				Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		
				6.8		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	4.00	
				Sample Type	EW	
				Sample Reference Number	4	
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	27/07/2023 11:38	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S1-BH120	1	50	20.00	27/07/2023 14:15		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	12.00	20.00	Cloudy		
Installation Inspection						
Surface Conditions	Wet	Damage to Headworks?	No			
Check Dip of Base (m bgl)	20.54	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	8.00	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	25.2	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	9.10	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	10.90		
Time to Purge (mins)	60	Number of Well Volumes Purged	2.6	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	21.4	
Total Volume Purged (litres)	120.0	Operative	KW	Total Well Volume		
				Total Well Volume (litres)	46.6	
				Volume of Filter Pack + Volume of Standpipe)		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	20.54	
				Sample Type	EW	
				Sample Reference Number	2	
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	27/07/2023-15:20:00	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey	Test run with no ORP settlement reached, test terminated after an hour.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH204	1	50		32.00	28/07/2023 13:47		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	21.00		32.00	Rain		
Installation Inspection							
Surface Conditions	Wet		Damage to Headworks?	No			
Check Dip of Base (m bgl)	30.16		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)	4.42		
				Porosity of Filter Pack (ø)	0.33		
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	13.6		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	27.58	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)		4.42			
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$			
Total Volume Purged (litres)	N/A	Operative	JP	8.7			
				Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)			
				22.3			
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A		
				Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to purge/sample. Insufficient head of water?			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH207	1	50	40.00	28/07/2023 14:45	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	36.00	40.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	39.81	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
Additional Notes and Observations					
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH208	1	50	40.50	28/07/2023 15:03		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	32.50	40.50	Heavy showers		
Installation Inspection						
Surface Conditions	Wet	Damage to Headworks?	No			
Check Dip of Base (m bgl)	39.98	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	7.94	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	24.5	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	32.56	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		7.94		
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	15.6	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	40.1	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Water level below full extent of pump.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH210	1	50	40.00	28/07/2023 14:48		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	30.00	40.00	Wet		
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	39.78		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	1.44	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	4.4	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	38.56	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A	1.44		
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	2.8	
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	7.3	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Water beyond maximum extent of pump		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH214	1	50		30.00	31/07/2023 16:08		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	20.00		30.00	Showers		
Installation Inspection							
Surface Conditions	Wet		Damage to Headworks?	No			
Check Dip of Base (m bgl)	29.60		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)	0.91		
				Porosity of Filter Pack (ø)	0.33		
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	2.9		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	29.09	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		0.91			
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$			
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe			
				4.6			
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A		
				Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water to purge/sample			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH217	1	19		30.00	28/07/2023 10:42	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	25.00		30.00	Rain	
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	29.96		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	5.00	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	18.2	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	17.06	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	1.0	12.94		
Time to Purge (mins)	8.00	Number of Well Volumes Purged	0.4	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		
Total Volume Purged (litres)	8.0	Operative	KW	3.7		
				Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		
				21.9		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	29.96	
				Sample Type	EW	
				Sample Reference Number	2	
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	28/07/2023 11:09	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH217	2	50	6.00	28/07/2023 10:40	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00	6.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	6.10	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	0.38
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	1.2
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	5.62	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		0.38	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.7
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	1.9
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water to purge/sample	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH219	1	50	4.00	28/07/2023 10:27		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	2.00	4.00	Showers		
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.70		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ϕ)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH219	2		50	9.00	28/07/2023 10:39		
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug		5.00	9.00	Showers		
Installation Inspection							
Surface Conditions	Wet		Damage to Headworks?	No			
Check Dip of Base (m bgl)	8.69		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)	0.65		
				Porosity of Filter Pack (ø)	0.33		
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	2.0		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	8.35	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		0.65			
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$			
Total Volume Purged (litres)	N/A	Operative	JP	1.3			
				Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe			
				3.3			
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A		
				Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water to sample/purge			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH220	1	50		39.00	28/07/2023 14:31	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	31.00		39.00	Wet	
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	40.10		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH220	2	19	31.00	28/07/2023 14:32	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	31.00	Wet	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	30.40	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	1.20
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	4.4
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	29.80	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A	1.20	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.3
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	4.7
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water to purge/sample	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH221	1	0	10.00	02/08/2023 11:24	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cover	4.00	10.00	Rain	
Installation Inspection					
Surface Conditions	Saturated	Damage to Headworks?	No		
Check Dip of Base (m bgl)	9.82	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	0.68
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	5.5
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	9.32	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	0
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		0.68	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	5.5
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
Additional Notes and Observations					
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water to purge/sample	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH222	1	50	4.00	01/08/2023 14:14		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Cover	2.00	4.00	Light showers		
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.90		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ϕ)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH222	2	50		25.00	01/08/2023 14:28	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cover	15.00		25.00	Light showers	
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	24.71		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	3.55	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	17.3	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	21.45	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	3.55		
Time to Purge (mins)	12	Number of Well Volumes Purged	1.0	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		
Total Volume Purged (litres)	24.0	Operative	JP	7.0		
				Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		
				24.3		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	24.71	
				Sample Type	EW	
				Sample Reference Number	1	
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	01/08/2023 14:50	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Opaque light brown running clear	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH223	1	50	10.00	03/08/2023 11:08	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cover	4.00	10.00	Showers	
Installation Inspection					
Surface Conditions	Saturated	Damage to Headworks?	No		
Check Dip of Base (m bgl)	9.58	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	3.41
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	25.5
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	6.59	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)		3.41	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	6.7
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	32.2
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to purge/sample using high flow inertia pump with Waterra PP1	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH224	1	50	10.00	28/07/2023 13:23		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	2.00	10.00	Wet		
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	9.90		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	0.90	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	6.7	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	9.10	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A	0.90		
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	1.8	
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	8.5	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH225	1	50	6.90	02/08/2023 13:48		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	3.00	6.90	Rsin		
Installation Inspection						
Surface Conditions	Saturated	Damage to Headworks?	No			
Check Dip of Base (m bgl)	5.93	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	3.07	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	9.7	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	3.83	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	3.07		
Time to Purge (mins)	13.5	Number of Well Volumes Purged	1.7	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		
Total Volume Purged (litres)	27.0	Operative	JP	6.0		
				Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		
				15.7		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	5.83	
				Sample Type	EW	
				Sample Reference Number	2	
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	02/08/2023 14:12	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light brown running opaque	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH226	1	50	10.00	01/08/2023 15:32		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Cover	4.00	6.00	Showers		
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	9.63		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH227	1	19	5.50	28/07/2023 12:13		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	1.00	5.50	rain		
Installation Inspection						
Surface Conditions	Wet	Damage to Headworks?	No			
Check Dip of Base (m bgl)	5.00	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	2.40	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	178	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	19.5	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	3.10	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	0.2	2.40		
Time to Purge (mins)	5	Number of Well Volumes Purged	0.0	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.7	
Total Volume Purged (litres)	0.75	Operative	KW	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	20.2	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	Hydrocarbons	Sample Depth (m bgl)	5.00	
				Sample Type	EW	
				Sample Reference Number	3	
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	28/07/2023 12:50	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Yellowish grey	Well purged dry. Sampled from bucket with partial sample, consisting of 2x40ml vials and 1x11 glass Wichester (approximately half full), retrieved.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)		Date and Time	
S2-BH227	2		50	14.00		26/07/2023 11:56	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)		Weather	
Box Cover	Pipe Plug		8.00	14.00		Raining	
Installation Inspection							
Surface Conditions		Damp		Damage to Headworks?		No	
Check Dip of Base (m bgl)		14.50		Pipe Cover/Bung Present?		Yes	
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		3.33	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	10.5		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	10.67	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		6.5	
Time to Purge (mins)	10	Number of Well Volumes Purged	1.1	Total Well Volume			
Total Volume Purged (litres)	19.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	17.0		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)		14.50	
				Sample Type		EW	
				Sample Reference Number		2	
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained		26/07/2023 12:18	
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH228	1	50	40.00	26/07/2023 12:20		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	2.00	40.00	Cloudy		
Installation Inspection						
Surface Conditions	Dry	Damage to Headworks?	No			
Check Dip of Base (m bgl)	36.61	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ϕ)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	175	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4) - (\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Damp	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH229	1	50	14.00	02/08/2023 12:36	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	8.00	14.00	Rain	
Installation Inspection					
Surface Conditions	Saturated	Damage to Headworks?	No		
Check Dip of Base (m bgl)	13.82	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	1.92
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	5.9
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	12.08	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	1.92	
Time to Purge (mins)	3.75	Number of Well Volumes Purged	0.8	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	
Total Volume Purged (litres)	7.4	Operative	JP	3.8	
				Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	
				9.7	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	13.82
				Sample Type	EW
				Sample Reference Number	1
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	02/08/2023 12:54
				Additional Notes and Observations	
Confirm Field Calibration Completed	Yes	Groundwater Colour	Opaque light brown	Well purged dry and sample taken	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH229	2	50	3.00	02/08/2023 13:19	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00	3.00	Rain	
Installation Inspection					
Surface Conditions	Saturated	Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.82	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH230	1	50		28.00	26/07/2023 12:42	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00		28.00	Cloudy	
Installation Inspection						
Surface Conditions	Dry		Damage to Headworks?	No		
Check Dip of Base (m bgl)	25.90		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	175	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH231	1	50	25.00	31/07/2023 15:13		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	2.00	25.00	Shower		
Installation Inspection						
Surface Conditions	Wet	Damage to Headworks?	No			
Check Dip of Base (m bgl)	25.03	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	3.68	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	27.5	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	21.32	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)		3.68		
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	7.2	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	34.7	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
Additional Notes and Observations						
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to purge/sample. Insufficient head of water?		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH232	1	50	7.00	01/08/2023 12:58	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
0	Pipe Plug	1.00	7.00	Cloudy	
Installation Inspection					
Surface Conditions	Saturated bog	Damage to Headworks?	No		
Check Dip of Base (m bgl)	6.95	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	2.55
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	168
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	17.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	4.45	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	2.55	
Time to Purge (mins)	9	Number of Well Volumes Purged	0.8	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	5.0
Total Volume Purged (litres)	18.0	Operative	JP	Total Well Volume	
				Total Well Volume (litres)	22.0
				Volume of Filter Pack + Volume of Standpipe)	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	6.95
				Sample Type	EW
				Sample Reference Number	2
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	01/08/2023 13:18
				Additional Notes and Observations	
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light brown running opaque	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH233	1	50	25.00	26/07/2023 14:31		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	1.00	25.00	Rain		
Installation Inspection						
Surface Conditions	Wet	Damage to Headworks?	No			
Check Dip of Base (m bgl)	24.79	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	168	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Damp	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
Additional Notes and Observations						
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH235	1	50	15.00	31/07/2023 13:50		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	8.00	15.00	Showers		
Installation Inspection						
Surface Conditions	Wet	Damage to Headworks?	No			
Check Dip of Base (m bgl)	14.78	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Damp	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
Additional Notes and Observations						
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH236	1	50	15.00	31/07/2023 14:09		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	10.00	15.00	Showers		
Installation Inspection						
Surface Conditions	Wet	Damage to Headworks?	No			
Check Dip of Base (m bgl)	14.39	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	5.00	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	15.7	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	8.40	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)		6.60		
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	13.0	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	28.7	
1				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	1029035	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	N/A	Unable to purge/sample. Evidence that water was heavily silted.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time		
S2-BH237	1	50		24.80	26/07/2023 14:32		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	2.00		24.80	Heavy rain		
Installation Inspection							
Surface Conditions	Wet		Damage to Headworks?	No			
Check Dip of Base (m bgl)	25.50		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)	12.90		
				Porosity of Filter Pack (ø)	0.33		
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	40.6		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	11.90	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	12.90			
Time to Purge (mins)	16	Number of Well Volumes Purged	0.5	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$			
				25.3			
				Total Well Volume			
Total Volume Purged (litres)	31.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	65.9		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	25.50		
				Sample Type	EW		
				Sample Reference Number	2		
In-situ Parameter Device SN	877732	Visual Turbidity	No	Date and Time Obtained	26/07/2023 15:02		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running light brown grey	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)		Date and Time	
S2-BH239	1		50	3.60		25/07/2023 12:15	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)		Weather	
Box Cover	Pipe Plug		1.00	3.60		Windy	
Installation Inspection							
Surface Conditions		Damp		Damage to Headworks?		No	
Check Dip of Base (m bgl)		3.70		Pipe Cover/Bung Present?		Yes	
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		2.14	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	20.8		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	1.46	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.1	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		4.2	
Time to Purge (mins)	9	Number of Well Volumes Purged	0.8	Total Well Volume			
Total Volume Purged (litres)	19.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	25.0		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	3.70		
				Sample Type	EW		
				Sample Reference Number	4		
In-situ Parameter Device SN	877732	Visual Turbidity	No	Date and Time Obtained	25/07/2023 12:38		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running clear	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)		Date and Time	
S2-BH239	2		50	10.00		25/07/2023 11:30	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)		Weather	
Box Cover	Pipe Plug		7.00	10.00		Windy	
Installation Inspection							
Surface Conditions		Damp		Damage to Headworks?		No	
Check Dip of Base (m bgl)		7.80		Pipe Cover/Bung Present?		Yes	
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		3.00	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	14.6		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	1.74	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		16.2	
Time to Purge (mins)	9	Number of Well Volumes Purged	0.6	Total Well Volume			
Total Volume Purged (litres)	18.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	30.8		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	7.80		
				Sample Type	EW		
				Sample Reference Number	3		
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	25/07/2023 12:08		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH240	1		50		6.00	25/07/2023 09:30	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug		1.00		6.00	Cloudy/windy	
Installation Inspection							
Surface Conditions	Damp		Damage to Headworks?		no		
Check Dip of Base (m bgl)	5.38		Pipe Cover/Bung Present?		yes		
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		4.45	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	43.2		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	1.55	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		8.7	
Time to Purge (mins)	14	Number of Well Volumes Purged	0.5	Total Well Volume			
Total Volume Purged (litres)	28.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	52.0		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	5.38		
				Sample Type	EW		
				Sample Reference Number	2		
In-situ Parameter Device SN	877732	Visual Turbidity	No	Date and Time Obtained	25/07/2023 10:04		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Light grey running clear	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH241	1	50	15.00	31/07/2023 14.36	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	10.00	15.00	Showers	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	14.80	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	0.80
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	2.5
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	14.20	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	N/A	0.80	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	1.6
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	4.1
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water to purge/sample	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH242	1	50	3.70	25/07/2023 10:12		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	1.00	3.70	Cloudy		
Installation Inspection						
Surface Conditions	Dry	Damage to Headworks?	No			
Check Dip of Base (m bgl)	3.79	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	1.82	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	17.7	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	1.88	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	1.82		
Time to Purge (mins)	20.5	Number of Well Volumes Purged	1.9	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	3.6	
Total Volume Purged (litres)	41.0	Operative	JP	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	21.3	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	3.79	
				Sample Type	EW	
				Sample Reference Number	2	
In-situ Parameter Device SN	1029305	Visual Turbidity	Yes	Date and Time Obtained	25/07/2023 10:44	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark brown	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)		Date and Time	
S2-BH243	1		50	6.00		25/07/2023 09:27	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)		Weather	
Box Cover	Pipe Plug		5.00	6.00		Cloudy	
Installation Inspection							
Surface Conditions		Dry		Damage to Headworks?		No	
Check Dip of Base (m bgl)		5.93		Pipe Cover/Bung Present?		Yes	
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		1.00	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	5.2		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	3.18	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		5.5	
Time to Purge (mins)	5	Number of Well Volumes Purged	0.9	Total Well Volume			
Total Volume Purged (litres)	10.0	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	10.7		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	5.93		
				Sample Type	EW		
				Sample Reference Number	2		
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	25/07/2023 09:41		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown running opaque	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH243	2	50	3.00	24/07/2023 15:48		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	1.00	3.00	Overcast		
Installation Inspection						
Surface Conditions	Dry	Damage to Headworks?	No			
Check Dip of Base (m bgl)	2.98	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH244	1	50	3.50	24/07/2023 11:24		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	1.00	3.50	Overcast		
Installation Inspection						
Surface Conditions	Dry	Damage to Headworks?	No			
Check Dip of Base (m bgl)	3.57	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	0.50	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	4.9	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	3.00	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	N/A	0.50		
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	1.0	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	5.8	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water to purge/sample.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)		Date and Time	
S2-BH244	2		50	10.00		24/07/2023 11/34	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)		Weather	
Box Cover	Pipe Plug		4.50	10.00		Overcast	
Installation Inspection							
Surface Conditions	Dry		Damage to Headworks?	No			
Check Dip of Base (m bgl)	9.25		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		5.50	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	28.5		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	2.90	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		13.9	
Time to Purge (mins)	10	Number of Well Volumes Purged	0.5	Total Well Volume			
Total Volume Purged (litres)	20.0	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	42.4		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	9.25		
				Sample Type	EW		
				Sample Reference Number	2		
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	24/07/2023 11:56		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running opaque then clear	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH245	1	50		4.00	25/07/2023 11:08	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.50		4.00	Cloudy	
Installation Inspection						
Surface Conditions	Dry		Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.75		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	1.17	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	11.4	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	2.83	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	N/A	1.17		
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	2.3	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		
				13.7		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to sample/purge. Material too silty.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH246	1	19	2.80	24/07/2023 14:18		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	1.00	2.80	Overcast		
Installation Inspection						
Surface Conditions	Wet	Damage to Headworks?	No			
Check Dip of Base (m bgl)	2.3	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	NA	Diameter of Standpipe (mm) (dp)	19	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	NA	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	NA	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	NA	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH246	2	50		8.00	24/07/2023 14:21	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	3.50		8.00	Overcast	
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	7.86		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	4.50	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	23.3	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	3.08	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	4.92		
Time to Purge (mins)	10	Number of Well Volumes Purged	0.6	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$		
Total Volume Purged (litres)	20.0	Operative	JP	9.7		
				Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		
				33.0		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	7.86	
				Sample Type	EW	
				Sample Reference Number	2	
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	24/07/2023 14:43	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark brown running opaque then clear	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)		Date and Time	
S2-BH247	1		50	9.00		25/07/2023 14:34	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)		Weather	
Box Cover	Pipe Plug		6.00	9.00		Cloudy	
Installation Inspection							
Surface Conditions		Dry		Damage to Headworks?		No	
Check Dip of Base (m bgl)		8.84		Pipe Cover/Bung Present?		Yes	
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		0.64	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	3.1		
Groundwater Prior to Purging and Sampling				146			
Groundwater Level (m bgl)	8.36	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		1.3	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Total Well Volume			
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	4.4		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A		
				Sample Type	N/A		
				Sample Reference Number	N/A		
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A		
				Additional Notes and Observations			
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water to purge/sample			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH247	2	50	2.00	25/07/2023 14:25	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	2.00	Sunny	
Installation Inspection					
Surface Conditions	Dry	Damage to Headworks?	No		
Check Dip of Base (m bgl)	1.99	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	0.72
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	7.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	1.28	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	N/A	0.72	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	N/A	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	1.4
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	8.4
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water to purge/sample	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH248	1		50	9.50	25/07/2023 15:00		
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug		6.50	9.50	Windy		
Installation Inspection							
Surface Conditions	Dry		Damage to Headworks?	No			
Check Dip of Base (m bgl)	9.26		Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)	3.00		
				Porosity of Filter Pack (ø)	0.33		
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	15.5		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	6.10	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	3.40			
Time to Purge (mins)	9	Number of Well Volumes Purged	0.8	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$			
Total Volume Purged (litres)	18.0	Operative	KW	6.7			
				Total Well Volume			
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe			
				22.2			
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	9.26		
				Sample Type	EW		
				Sample Reference Number	2		
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	25/07/2023 15:11		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH248	2	50		4.00	25/072023 16:36	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00		4.00	Windy	
Installation Inspection						
Surface Conditions	Dry		Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.90		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ϕ)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH249	1	19	2.80	24/07/2023 14:20	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cap	1.00	2.80	Cloudy	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.14	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)		Date and Time	
S2-BH249	2		50	8.00		24/07/2023 14:30	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)		Weather	
Box Cover	Pipe Plug		3.50	8.00		Cloudy	
Installation Inspection							
Surface Conditions		Damp		Damage to Headworks?		No	
Check Dip of Base (m bgl)		7.70		Pipe Cover/Bung Present?		Yes	
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		4.24	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	22.0		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	3.76	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)			
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.1	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		8.3	
Time to Purge (mins)	11	Number of Well Volumes Purged	0.8	Total Well Volume			
Total Volume Purged (litres)	23.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	30.3		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	7.70		
				Sample Type	EW		
				Sample Reference Number	15		
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	24/07/2023 15:01		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown	N/A			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH250	1	50	9.50	26/07/2023 10:00		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	7.50	9.50	Cloudy		
Installation Inspection						
Surface Conditions	Damp	Damage to Headworks?	no			
Check Dip of Base (m bgl)	9.30	Pipe Cover/Bung Present?	yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	2.00	
				Porosity of Filter Pack (ϕ)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-(\pi dp^2/4))$	10.4	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	3.23	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	6.27		
Time to Purge (mins)	9	Number of Well Volumes Purged	0.8	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		
Total Volume Purged (litres)	18.0	Operative	KW	12.3		
				Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)		
				22.7		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	9.30	
				Sample Type	EW	
				Sample Reference Number	2	
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	26/07/2023 10:48	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Wlators Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH250	2	50	2.00	26/07/2023 10:20	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	2.00	Cloudy	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	No		
Check Dip of Base (m bgl)	2.03	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume	
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH252	1	50		2.60	25/07/2023 12:08	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00		2.60	Cloudy	
Installation Inspection						
Surface Conditions	Dry		Damage to Headworks?	No		
Check Dip of Base (m bgl)	2.58		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)		
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	0.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	Damp	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)		Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0	
Time to Purge (mins)	N/A	Number of Well Volumes Purged		Total Well Volume		
Total Volume Purged (litres)	N/A	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	0.0	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time		
S2-BH252	2	50	9.00	25/07/2023 12:19		
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather		
Box Cover	Pipe Plug	6.00	9.00	Cloudy		
Installation Inspection						
Surface Conditions	Dry	Damage to Headworks?	No			
Check Dip of Base (m bgl)	8.87	Pipe Cover/Bung Present?	Yes			
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	3.00	
				Porosity of Filter Pack (ø)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-(\pi dp^2/4))$	14.6	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	4.07	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	4.93		
Time to Purge (mins)	17.5	Number of Well Volumes Purged	1.4	Volume of the Standpipe (litres) $(\pi dp^2/4) \times 10^{-3}$	9.7	
Total Volume Purged (litres)	35.0	Operative	JP	Total Well Volume		
				Total Well Volume (litres)	24.3	
				Volume of Filter Pack + Volume of Standpipe)		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	8.87	
				Sample Type	EW	
				Sample Reference Number	2	
In-situ Parameter Device SN	1029305	Visual Turbidity	Yes	Date and Time Obtained	25/07/2023 12:40	
				Additional Notes and Observations		
Confirm Field Calibration Completed	Yes	Groundwater Colour	Dark greyish brown running opaque	N/A		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters Uk Limited	
Exploratory Hole Number	Installation Reference		Installation Diameter (mm)	Anticipated Well Depth (m bgl)		Date and Time	
S2-BH261	1		50	15.00		26/07/2023 10:21	
Cover Type	Pipe Cover		Top of Response Zone (m bgl)	Base of Response Zone (m bgl)		Weather	
Box Cover	Pipe Plug		10.00	15.00		Cloudy	
Installation Inspection							
Surface Conditions	Dry		Damage to Headworks?		No		
Check Dip of Base (m bgl)	14.08		Pipe Cover/Bung Present?		Yes		
Remedial actions undertaken to well:							
N/A							
Purging and Sampling							
Guidance Notes				Well Volume Calculation			
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack			
				Saturated length of Filter Pack (L) (m)		5.00	
				Porosity of Filter Pack (ø)		0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume							
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150		
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4) - (\pi dp^2/4))$	25.9		
Groundwater Prior to Purging and Sampling				Volume of the Standpipe			
Groundwater Level (m bgl)	9.72	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50		
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		5.28	
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4) * 10^{-3}$		10.4	
Time to Purge (mins)	60	Number of Well Volumes Purged	3.3	Total Well Volume			
Total Volume Purged (litres)	120.0	Operative	JP	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	36.3		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information			
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	14.08		
				Sample Type	EW		
				Sample Reference Number	2		
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	26/07/2023 11:27		
				Additional Notes and Observations			
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running light brownish grey	ORP not settled after 60 minutes. Monitoring terminated and sample taken.			



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project		Project No		Client	
				Walters UK Limited	
Exploratory Hole Number		Installation Reference		Installation Diameter (mm)	
S2-BH261		2		50	
Anticipated Well Depth (m bgl)		Date and Time			
8.00		25/07/2023 15:39			
Cover Type		Pipe Cover		Top of Response Zone (m bgl)	
Box Cover		Pipe Plug		3.00	
Base of Response Zone (m bgl)		Weather			
8.00		Sunny			
Installation Inspection					
Surface Conditions		Dry		Damage to Headworks?	
				No	
Check Dip of Base (m bgl)		7.70		Pipe Cover/Bung Present?	
				Yes	
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	
				3.54	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume				Porosity of Filter Pack (ø)	
				0.33	
Volume of 50mm diameter plain pipe		2 litres / metre		Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	
				11 litres / metre	
Diameter of Filter Pack (mm) (df)				150	
Porosity of 10mm pea gravel		0.33		Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	
				6 litres / metre	
Volume of Filter Pack (litres) (Lø)((πdf²/4)-(πdp²/4))				18.3	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)		4.46		LNAPL/ DNAPL (m bgl)	
				N/A	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device		Wasp Pump		Average Flow Rate (litres/min)	
				2.0	
Time to Purge (mins)		60		Number of Well Volumes Purged	
				4.7	
Total Volume Purged (litres)				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe	
120.0				Operative JP	
25.3					
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model		Aqua Troll 400		Groundwater Odour	
				No	
In-situ Parameter Device SN		1029035		Visual Turbidity	
				Yes	
Confirm Field Calibration Completed		Yes		Groundwater Colour	
				Dark brown running opaque then clear	
ORP not settled after an hour. Monitoring terminated and sample taken.					



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S1-BH118	1	50		15.00	29/08/2023 13:40								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	8.00		15.00	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	15		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	7.00								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	22.0								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	7.13	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	7.87								
Purge Method/ Device	Wasp	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	15.4								
Time to Purge (mins)	6	Number of Well Volumes Purged	0.3		Total Well Volume								
Total Volume Purged (litres)	12.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	37.5								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No	Sample Depth (m bgl)	7.13								
				Sample Type	EW								
				Sample Reference Number	3								
In-situ Parameter Device SN	877732	Visual Turbidity	No	Date and Time Obtained	29/08/2023 13:57								
				Additional Notes and Observations									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear	N/A									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S1-BH119	1	50		15.00	29/08/2023 13:03								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	8.00		15.00	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	15		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	7.00								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	22.0								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	8.00	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	7.00								
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	13.7								
Time to Purge (mins)	5	Number of Well Volumes Purged	0.3										
				Total Well Volume									
Total Volume Purged (litres)	9.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	35.8								
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No	Sample Depth (m bgl)	8.00								
				Sample Type	EW								
				Sample Reference Number	5								
In-situ Parameter Device SN	877732	Visual Turbidity	No	Date and Time Obtained	29/08/2023 13:19								
				Additional Notes and Observations									
N/A													
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear										



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S1-BH119	2	50	4.00	29/08/2023 12:56	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00	4.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	4	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	0.83
				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-(\pi dp^2/4))$	2.6
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	3.17	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	0.83	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	1.6
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	4.2
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient Water for sampling.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S1-BH120	1	50		20.00	29/08/2023 14:20								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	12.00		20.00	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	20.54		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	8.00								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	25.2								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	9.10	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	10.90								
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	21.4								
Time to Purge (mins)	5	Number of Well Volumes Purged	0.2										
				Total Well Volume									
Total Volume Purged (litres)	9.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	46.6								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No	Sample Depth (m bgl)	9.10								
				Sample Type	EW								
				Sample Reference Number	3								
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	29/08/2023 14:36								
				Additional Notes and Observations									
				N/A									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey Running clear										



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH204	1	50		32.00	04/09/2023 14:00								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	21.00		32.00	Dry								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	30.17		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	3.89								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	12.0								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	28.11	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	3.89								
Purge Method/ Device	Watterra	Average Flow Rate (litres/min)	#DIV/0!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	7.6								
Time to Purge (mins)	0	Number of Well Volumes Purged	0.0	Total Well Volume									
Total Volume Purged (litres)	0.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	19.6								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
				Additional Notes and Observations									
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to extract sample using watterra pump and wasp pump.									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH207	1	50	40.00	04/09/2023 13:30	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	36.00	40.00	Dry	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	No		
Check Dip of Base (m bgl)	39.92	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4)))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres)	#VALUE!
				Volume of Filter Pack + Volume of Standpipe)	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH208	1	50		40.50	04/09/2023 13:00								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	32.50		40.50	Dry								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	39.96		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	5.58								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-(\pi dp^2/4))$	17.2								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	34.92	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	5.58								
Purge Method/ Device	Watterra	Average Flow Rate (litres/min)	#DIV/0!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	11.0								
Time to Purge (mins)	0	Number of Well Volumes Purged	0.0	Total Well Volume									
Total Volume Purged (litres)	0.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	28.2								
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
				Additional Notes and Observations									
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to obtain sample using watterra pump.									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH210	1	50		40.00	04/09/2023 12:00	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	30.00		40.00	Dry	
Installation Inspection						
Surface Conditions	Damp		Damage to Headworks?		No	
Check Dip of Base (m bgl)	39.89		Pipe Cover/Bung Present?		Yes	
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	2.32	
				Porosity of Filter Pack (ϕ)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4))$	7.2	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	37.68	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	Waterra	Average Flow Rate (litres/min)	#DIV/0!	2.32		
Time to Purge (mins)	0	Number of Well Volumes Purged	0.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		
				4.6		
				Total Well Volume		
Total Volume Purged (litres)	0.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	11.7	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to obtain sample using Waterra pump.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH214	1	50		30.00	29/08/2023 10:00	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	20.00		30.00	Rain	
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	29.91		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	0.76	
				Porosity of Filter Pack (ϕ)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	2.4	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	29.24	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	0.76		
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		
Total Volume Purged (litres)	N/A	Operative	KW	1.5		
				Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe		
				3.9		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to obtain a sample due to insufficient water.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH217	1	19		30.00	04/09/2023 14:12								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	25.00		30.00	Dry								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	29.96		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	5.00								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	18.2								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	16.42	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	13.58								
Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	1.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	3.8								
Time to Purge (mins)	4	Number of Well Volumes Purged	0.2		Total Well Volume								
Total Volume Purged (litres)	4.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	22.0								
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No	Sample Depth (m bgl)	16.42								
				Sample Type	EW								
				Sample Reference Number	3								
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	04/09/2023 14:20								
				Additional Notes and Observations									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown running clear	N/A									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH217	2	50	6.00	30/08/2023 11:00	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00	6.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	6.08	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres)	#VALUE!
				Volume of Filter Pack + Volume of Standpipe)	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH219	1	50		4.00	30/08/2023 10:34								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	2.00		4.00	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	3.72		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	#VALUE!								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!								
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	#VALUE!								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!		Total Well Volume								
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	#VALUE!								
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
				Additional Notes and Observations									
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH219	2	50	9.00	30/08/2023 10:41	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	5.00	9.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	8.68	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4)))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe	
				#VALUE!	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH220	1	50	39.00	04/09/2023 09:30	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	31.00	39.00	Dry	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	No		
Check Dip of Base (m bgl)	40.12	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe	
				#VALUE!	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH220	2	19		31.00	04/09/2023 09:45								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	1.00		31.00	Dry								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	30.26		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	1.09								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	4.0								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	29.91	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	1.09								
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.3								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!		Total Well Volume								
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	4.3								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Number of Well Volumes Purged	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
				Additional Notes and Observations									
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH221	1	0	10.00	29/08/2023 09:30	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cover	4.00	10.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	9.79	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	0.79
				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-(\pi dp^2/4))$	6.4
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	9.21	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	0
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	0.79	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.0
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	6.4
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to sample due to insufficient water.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH222	1	50		4.00	31/08/2023 13:48								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Cover	2.00		4.00	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	3.86		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	#VALUE!								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details													
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	#VALUE!								
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume									
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Additional Notes and Observations									
Well dry, unable to purge.													



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH222	2	50	25.00	31/08/2023 13:46	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cover	15.00	25.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	24.56	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	1.41
				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	6.9
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	23.59	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	1.41	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	2.8
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	9.6
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to sample due to insufficient water.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH223	1	50		10.00	31/08/2023 14:00	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cover	4.00		10.00	Heavy Rain	
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	8		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	2.90	
				Porosity of Filter Pack (ϕ)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-(\pi dp^2/4))$	21.7	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	7.10	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Sampling Information		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Saturated depth (m) (sd) (installation base - groundwater level)	2.90	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	5.7	
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	27.3	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Additional Notes and Observations		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to sample with Waterra PP1 and wasp pump.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH224	1	50	10.00	25/08/2023 15:56	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00	10.00	Rain	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	No		
Check Dip of Base (m bgl)	9.83	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT	Total Well Volume	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Borehole dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH225	1	50		6.90	31/08/2023 14:00								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	3.00		6.90	Heavy Rain								
Installation Inspection													
Surface Conditions	Wet Boggy		Damage to Headworks?	N/A									
Check Dip of Base (m bgl)	N/A		Pipe Cover/Bung Present?	N/A									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	#VALUE!								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	N/A	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details													
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!								
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume									
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Additional Notes and Observations									
No access to position due to poor ground conditions.													



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH226	1	50		10.00	31/08/2023 13:20								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Cover	4.00		6.00	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	9.69		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	#VALUE!								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details													
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!								
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume									
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
				Additional Notes and Observations									
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH227	1	19		5.50	23/08/2023 11:30								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	1.00		5.50	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	5.49		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	0.48								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	178								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	3.9								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	5.02	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19								
Purging Details													
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Saturated depth (m) (sd) (installation base - groundwater level)	0.48								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	0.1								
Total Volume Purged (litres)	N/A	Operative	N/A	Total Well Volume									
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
				Additional Notes and Observations									
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water for sampling.									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time	
S2-BH227	2	50		14.00	23/08/2023 10:45	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	8.00		14.00	Rain	
Installation Inspection						
Surface Conditions	Wet		Damage to Headworks?	No		
Check Dip of Base (m bgl)	14.47		Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:						
N/A						
Purging and Sampling						
Guidance Notes				Well Volume Calculation		
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack		
				Saturated length of Filter Pack (L) (m)	0.31	
				Porosity of Filter Pack (ϕ)	0.33	
Approx. Guidance Volumes for Field Calculation of Wet Well Volume						
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121	
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4))$	1.0	
Groundwater Prior to Purging and Sampling				Volume of the Standpipe		
Groundwater Level (m bgl)	13.69	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50	
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)		
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	0.31		
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$		
Total Volume Purged (litres)	N/A	Operative	KW	0.6		
				Total Well Volume		
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe		
				1.6		
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information		
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A	
				Sample Type	N/A	
				Sample Reference Number	N/A	
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A	
				Additional Notes and Observations		
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Insufficient water for sampling.		



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH228	1	50		40.00	23/08/2023 14:04								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	2.00		40.00	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	36.59		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	#VALUE!								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	175								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details													
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	#VALUE!								
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume									
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Additional Notes and Observations									
Well dry, unable to purge.													



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH229	1	50		14.00	31/08/2023 13:04								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	8.00		14.00	Heavy Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	14.2		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	1.60								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	4.9								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	12.40	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	1.60								
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	3.1								
Time to Purge (mins)	4	Number of Well Volumes Purged	0.9	Total Well Volume									
Total Volume Purged (litres)	7.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	8.1								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No	Sample Depth (m bgl)	12.40								
				Sample Type	EW								
				Sample Reference Number	2								
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	31/08/2023 13:15								
				Additional Notes and Observations									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear.	N/A									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH229	2	50	3.00	31/08/2023 12:53	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	2.00	3.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	2.81	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	120
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres)	#VALUE!
				Volume of Filter Pack + Volume of Standpipe)	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH230	1	50		28.00	23/08/2023 13:42								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	2.00		28.00	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	25.92		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	#VALUE!								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	175								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4)))$	#VALUE!								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!								
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	#VALUE!								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!		Total Well Volume								
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	#VALUE!								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
				Additional Notes and Observations									
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH231	1	50		25.00	30/08/2023 14:36								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	2.00		25.00	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	25.05		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	2.88								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	177								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	21.5								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	22.12	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details													
Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	#VALUE!	Saturated depth (m) (sd) (installation base - groundwater level)	2.88								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	5.7								
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume									
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
				Additional Notes and Observations									
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to obtain sample with Waterra PP1 and Wasp Pump.									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH232	1	50		7.00	31/08/2023 00:00								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
0	Pipe Plug	1.00		7.00	Heavy Rain								
Installation Inspection													
Surface Conditions	Wet Boggy		Damage to Headworks?	N/A									
Check Dip of Base (m bgl)	N/A		Pipe Cover/Bung Present?	N/A									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	#VALUE!								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	168								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4)))$	#VALUE!								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	N/A	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details													
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	#VALUE!								
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume									
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
				Additional Notes and Observations									
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to access position due to poor ground conditions.									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH233	1	50	25.00	25/08/2023 14:36	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	25.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	25	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	168
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres)	#VALUE!
				Volume of Filter Pack + Volume of Standpipe)	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH235	1	50	15.00	23/08/2023 15:22	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	8.00	15.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	14.7	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres)	#VALUE!
				Volume of Filter Pack + Volume of Standpipe)	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH236	1	50		15.00	30/08/2023 00:00								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	10.00		15.00	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	14.42		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	1.86								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	5.8								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	13.14	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	1.86								
Purge Method/ Device	Waterra PP1	Average Flow Rate (litres/min)	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	3.7								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!										
				Total Well Volume									
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	9.5								
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
				Additional Notes and Observations									
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to obtain sample using Waterra PP1 or Wasp Pump.									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH237	1	50		24.80	25/08/2023 13:52								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	2.00		24.80	Rain								
Installation Inspection													
Surface Conditions	Wet		Damage to Headworks?	No									
Check Dip of Base (m bgl)	25.27		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	12.33								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-(\pi dp^2/4))$	38.8								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	12.47	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	12.33								
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.5	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	24.2								
Time to Purge (mins)	8	Number of Well Volumes Purged	0.3										
				Total Well Volume									
Total Volume Purged (litres)	20.0	Operative	FT	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	63.0								
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	AquaTroll 400	Groundwater Odour	No	Sample Depth (m bgl)	12.47								
				Sample Type	EW								
				Sample Reference Number	3								
In-situ Parameter Device SN	1029035	Visual Turbidity	No	Date and Time Obtained	25/08/2023 14:14								
				Additional Notes and Observations									
				N/A									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear										



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH239	1	50		3.60	22/08/2023 15:27								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	1.00		3.60	Overcast, light rain								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	3.6		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
n/a													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	2.23								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	21.7								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	1.37	LNAPL/ DNAPL (m bgl)	None present	Diameter of Standpipe (mm) (dp)	50								
Purging Details													
Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	4.4	Saturated depth (m) (sd) (installation base - groundwater level)	2.23								
Time to Purge (mins)	5	Number of Well Volumes Purged	0.8	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	4.4								
Total Volume Purged (litres)	22.0	Operative	FT	Total Well Volume									
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	No	Sample Depth (m bgl)	1.37								
				Sample Type	EW								
				Sample Reference Number	5								
In-situ Parameter Device SN	1029035	Visual Turbidity	No	Date and Time Obtained	22/08/2023 15:36								
				Additional Notes and Observations									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown to clear	n/a									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH239	2	50		10.00	22/08/2023 15:42								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	7.00		10.00	Overcast, light rain								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	7.59		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	3.00								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-(\pi dp^2/4))$	14.6								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	1.92	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	8.08								
Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	5.6	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	15.9								
Time to Purge (mins)	5	Number of Well Volumes Purged	0.9										
				Total Well Volume									
Total Volume Purged (litres)	28.0	Operative	FT	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	30.5								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	No	Sample Depth (m bgl)	1.92								
				Sample Type	EW								
				Sample Reference Number	6								
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	22/08/2023 15:50								
				Additional Notes and Observations									
				N/A									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Yellowish brown to greyish brown										



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH240	1	50		6.00	22/08/2023 14:52								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	1.00		6.00	Overcast, light rain								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	5.28		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	4.49								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	43.6								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	1.51	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	4.49								
Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	4.3	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	8.8								
Time to Purge (mins)	10	Number of Well Volumes Purged	0.8										
				Total Well Volume									
Total Volume Purged (litres)	43.0	Operative	FT	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	52.4								
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	Slight hydrocarbon odour	Sample Depth (m bgl)	1.51								
In-situ Parameter Device SN	1029035	Visual Turbidity	No	Sample Type	EW								
				Sample Reference Number	3								
				Date and Time Obtained	22/08/2023 14:52								
				Additional Notes and Observations									
				N/A									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown to clear										



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH241	1	50	15.00	23/08/2023 14:32	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	10.00	15.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	14.77	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	0.84
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	121
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	2.6
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	14.16	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	0.84	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	1.6
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	4.3
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to purge due to insufficient water.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH242	1	50	3.70	22/08/2023 11:24	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	3.70	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.74	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	1.60
				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)((\pi df^2/4)-((\pi dp^2/4)))$	15.5
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	2.10	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Sampling Information	
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Saturated depth (m) (sd) (installation base - groundwater level)	1.60
Time to Purge (mins)	10	Number of Well Volumes Purged	1.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	3.1
Total Volume Purged (litres)	19.0	Operative	KW	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	18.7
Observations During Purging (see Vu-situ output for insitu parameter readings)				Additional Notes and Observations	
In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No	Sample Depth (m bgl)	3.74
				Sample Type	EW
				Sample Reference Number	3
In-situ Parameter Device SN	877732	Visual Turbidity	No	Date and Time Obtained	22/08/2023 11:30
Confirm Field Calibration Completed	Yes	Groundwater Colour	light brown running clear	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH243	1	50		6.00	22/08/2023 15:16								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	5.00		6.00	Overcast - light rain								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	None									
Check Dip of Base (m bgl)	5.86		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	1.00								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	5.2								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	3.18	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	2.82								
Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	3.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	5.5								
Time to Purge (mins)	10	Number of Well Volumes Purged	2.8		Total Well Volume								
Total Volume Purged (litres)	30.0	Operative	FT	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	10.7								
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	No	Sample Depth (m bgl)	5.86								
				Sample Type	EW								
				Sample Reference Number	3								
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	21/08/2023 15:11								
				Additional Notes and Observations									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown to clear	N/A									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH243	2	50	3.00	21/08/2023 14:35	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	3.00	Overcast - light rain	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	None		
Check Dip of Base (m bgl)	2.93	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT	Total Well Volume	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe	
				#VALUE!	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Borehole dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH244	1	50	3.50	21/08/2023 14:29	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	3.50	Rain	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.42	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	0.85
				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-(\pi dp^2/4))$	8.3
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	2.65	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	0.85	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	1.7
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	9.9
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to sample, insufficient water.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH244	2	50		10.00	21/08/2023 14:52								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	4.50		10.00	Wet								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	9.44		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	5.50								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	28.5								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	2.77	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	7.23								
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	14.2								
Time to Purge (mins)	7	Number of Well Volumes Purged	0.3										
				Total Well Volume									
Total Volume Purged (litres)	13.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	42.7								
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No	Sample Depth (m bgl)	9.44								
				Sample Type	EW								
				Sample Reference Number	2								
In-situ Parameter Device SN	877732	Visual Turbidity	No	Date and Time Obtained	21/08/2023 15:09								
				Additional Notes and Observations									
				N/A									
Confirm Field Calibration Completed	Yes	Groundwater Colour	light Brown										



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH245	1	50	4.00	22/08/2023 10:49	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.50	4.00	Rain	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	No		
Check Dip of Base (m bgl)	3.82	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	0.84
				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	8.2
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	3.16	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	0.84	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	1.6
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	9.8
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Unable to sample due to insufficient water.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH246	1	19	2.80	21/08/2023 13:43	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	2.80	Rain	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	No		
Check Dip of Base (m bgl)	2.5	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4)))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
				Total Well Volume (litres)	#VALUE!
				Volume of Filter Pack + Volume of Standpipe)	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH246	2	50		8.00	21/08/2023 13:51								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	3.50		8.00	Wet								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	8.01		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	4.50								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	23.3								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	2.96	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	5.04								
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	9.9								
Time to Purge (mins)	7	Number of Well Volumes Purged	0.4		Total Well Volume								
Total Volume Purged (litres)	14.0	Operative	KW	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	33.2								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No	Sample Depth (m bgl)	8.01								
				Sample Type	EW								
				Sample Reference Number	3								
In-situ Parameter Device SN	877732	Visual Turbidity	No	Date and Time Obtained	21/08/2023 14:11								
				Additional Notes and Observations									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown running clear	N/A									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH247	1	50		9.00	22/08/2023 10:30								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	6.00		9.00	Overcast, dry								
Installation Inspection													
Surface Conditions	Dry		Damage to Headworks?	None									
Check Dip of Base (m bgl)	8.84		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	#VALUE!								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!								
Groundwater Prior to Purging and Sampling				146									
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!								
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	#VALUE!								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!		Total Well Volume								
Total Volume Purged (litres)	N/A	Operative	FT	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	#VALUE!								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
				Additional Notes and Observations									
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Borehole dry, unable to purge.									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH247	2	50		2.00	22/08/2023 10:45								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	1.00		2.00	Overcast, dry								
Installation Inspection													
Surface Conditions	Dry		Damage to Headworks?	None									
Check Dip of Base (m bgl)	1.96		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	#VALUE!								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4)))$	#VALUE!								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details													
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	#VALUE!								
Total Volume Purged (litres)	N/A	Operative	FT	Total Well Volume									
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Additional Notes and Observations									
Borehole dry, unable to purge.													



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH248	1	50		9.50	25/08/2023 11:09								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	6.50		9.50	Rain								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	8.95		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	3.00								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	15.5								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	6.00	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	3.50								
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.9	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	6.9								
Time to Purge (mins)	8	Number of Well Volumes Purged	1.0		Total Well Volume								
Total Volume Purged (litres)	23.0	Operative	FT	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	22.4								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No	Sample Depth (m bgl)	6.00								
				Sample Type	EW								
				Sample Reference Number	3								
In-situ Parameter Device SN	1029035	Visual Turbidity	No	Date and Time Obtained	25/08/2023 11:17								
Confirm Field Calibration Completed	Yes	Groundwater Colour	Brown Running clear	Additional Notes and Observations									
N/A													



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH248	2	50		4.00	25/08/2023 11:00								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	1.00		4.00	Rain								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	3.9		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	#VALUE!								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details													
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	#VALUE!								
Total Volume Purged (litres)	N/A	Operative	FT	Total Well Volume									
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Additional Notes and Observations									
Well dry, unable to purge.													



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH249	1	19	2.80	21/08/2023 13:50	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Cap	1.00	2.80	Overcast - light rain	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	None		
Check Dip of Base (m bgl)	3.14	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	19
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT	Total Well Volume	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe	
				#VALUE!	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH249	2	50		8.00	21/08/2023 13:55								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	3.50		8.00	Overcast -light rain								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	None									
Check Dip of Base (m bgl)	7.49		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	4.31								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	22.3								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	3.69	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	4.31								
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.5	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	8.5								
Time to Purge (mins)	10	Number of Well Volumes Purged	0.8										
				Total Well Volume									
Total Volume Purged (litres)	25.0	Operative	FT	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	30.8								
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	Aqua Troll 400	Groundwater Odour	N/A	Sample Depth (m bgl)	7.49								
				Sample Type	EW								
				Sample Reference Number	3								
In-situ Parameter Device SN	1029035	Visual Turbidity	Yes	Date and Time Obtained	21/08/2023 14:10								
				Additional Notes and Observations									
N/A													
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown										



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH250	1	50		9.50	24/08/2023 16:00								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	7.50		9.50	Rain								
Installation Inspection													
Surface Conditions	Damp		Damage to Headworks?	No									
Check Dip of Base (m bgl)	8.97		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	2.00								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-((\pi dp^2/4)))$	10.4								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	3.21	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	6.29								
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	4.4	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	12.3								
Time to Purge (mins)	5	Number of Well Volumes Purged	1.0										
				Total Well Volume									
Total Volume Purged (litres)	22.0	Operative	FT	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	22.7								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	No	Sample Depth (m bgl)	3.21								
				Sample Type	EW								
				Sample Reference Number	3								
In-situ Parameter Device SN	1029035	Visual Turbidity	No	Date and Time Obtained	24/08/2023 16:10								
				Additional Notes and Observations									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown	N/A									



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH250	2	50	2.00	24/08/2023 15:33	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	2.00	Rain	
Installation Inspection					
Surface Conditions	Damp	Damage to Headworks?	No		
Check Dip of Base (m bgl)	2.07	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4)))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	FT	Total Well Volume	
				Total Well Volume (litres)	#VALUE!
				Volume of Filter Pack + Volume of Standpipe)	
Observations During Puring (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRC Monitoring	Project No	G23012C	Client	Walters UK Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH252	1	50	2.60	22/08/2023 13:45	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	1.00	2.60	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	2.55	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	#VALUE!
				Porosity of Filter Pack (ø)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	200
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	#VALUE!	
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	#VALUE!
Total Volume Purged (litres)	N/A	Operative	KW	Total Well Volume	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe	
				#VALUE!	
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A
				Sample Type	N/A
				Sample Reference Number	N/A
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A
				Additional Notes and Observations	
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Well dry, unable to purge.	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring	Project No	G23012C	Client	Walters Uk Limited
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)	Anticipated Well Depth (m bgl)	Date and Time	
S2-BH252	2	50	9.00	22/08/2023 13:54	
Cover Type	Pipe Cover	Top of Response Zone (m bgl)	Base of Response Zone (m bgl)	Weather	
Box Cover	Pipe Plug	6.00	9.00	Rain	
Installation Inspection					
Surface Conditions	Wet	Damage to Headworks?	No		
Check Dip of Base (m bgl)	9	Pipe Cover/Bung Present?	Yes		
Remedial actions undertaken to well:					
N/A					
Purging and Sampling					
Guidance Notes				Well Volume Calculation	
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack	
				Saturated length of Filter Pack (L) (m)	3.00
				Porosity of Filter Pack (ϕ)	0.33
Approx. Guidance Volumes for Field Calculation of Wet Well Volume					
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	146
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)((\pi df^2/4)-(\pi dp^2/4))$	14.6
Groundwater Prior to Purging and Sampling				Volume of the Standpipe	
Groundwater Level (m bgl)	4.50	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	
Purge Method/ Device	Wasp Pump	Average Flow Rate (litres/min)	2.0	4.50	
Time to Purge (mins)	8	Number of Well Volumes Purged	0.7	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	8.8
Total Volume Purged (litres)	16.0	Operative	KW	Total Well Volume	
				Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	23.5
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information	
In-situ Parameter Device Model	Aquatroll 400	Groundwater Odour	Earthy odour	Sample Depth (m bgl)	9.00
				Sample Type	EW
				Sample Reference Number	3
In-situ Parameter Device SN	877732	Visual Turbidity	Yes	Date and Time Obtained	22/08/2023 14:00
				Additional Notes and Observations	
Confirm Field Calibration Completed	Yes	Groundwater Colour	Grey running clear	N/A	



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH261	1	50		15.00	22/08/2023 11:56								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	10.00		15.00	Overcast Dry								
Installation Inspection													
Surface Conditions	Dry		Damage to Headworks?	No									
Check Dip of Base (m bgl)	14.06		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	5.00								
				Porosity of Filter Pack (ϕ)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(L\phi)/((\pi df^2/4)-(\pi dp^2/4))$	25.9								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	9.56	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details				Saturated depth (m) (sd) (installation base - groundwater level)	5.44								
Purge Method/ Device	WASP Pump	Average Flow Rate (litres/min)	3.2	Volume of the Standpipe (litres) $(\pi dp^2/4)*10-3$	10.7								
Time to Purge (mins)	10	Number of Well Volumes Purged	0.9										
				Total Well Volume									
Total Volume Purged (litres)	32.0	Operative	FT	Total Well Volume (litres) Volume of Filter Pack + Volume of Standpipe)	36.6								
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	AQUA TROLL 400	Groundwater Odour	No	Sample Depth (m bgl)	9.56								
In-situ Parameter Device SN	SN1029035	Visual Turbidity	Yes	Sample Type	EW								
				Sample Reference Number	3								
				Date and Time Obtained	22/08/2023 11:56								
				Additional Notes and Observations									
				N/A									
Confirm Field Calibration Completed	Yes	Groundwater Colour	Greyish brown										



INSTALLATION INSPECTION, PURGING AND SAMPLING RECORD

Project	GCRE Monitoring		Project No	G23012C	Client	Walters UK Limited							
Exploratory Hole Number	Installation Reference	Installation Diameter (mm)		Anticipated Well Depth (m bgl)	Date and Time								
S2-BH261	2	50		8.00	22/08/2023 11:41								
Cover Type	Pipe Cover	Top of Response Zone (m bgl)		Base of Response Zone (m bgl)	Weather								
Box Cover	Pipe Plug	3.00		8.00	Overcast dry								
Installation Inspection													
Surface Conditions	Dry		Damage to Headworks?	None									
Check Dip of Base (m bgl)	7.81		Pipe Cover/Bung Present?	Yes									
Remedial actions undertaken to well:													
N/A													
Purging and Sampling													
Guidance Notes				Well Volume Calculation									
Well development undertaken in accordance with BS10175:2011+A2:2017. Purge volumes to include the annulus of the filter pack. Purging must continue until insitu parameters have stabilised unless agreed with clients representative.				Volume of the Filter Pack									
				Saturated length of Filter Pack (L) (m)	#VALUE!								
				Porosity of Filter Pack (ø)	0.33								
Approx. Guidance Volumes for Field Calculation of Wet Well Volume													
Volume of 50mm diameter plain pipe	2 litres / metre	Volume of 50mm diameter slotted pipe with 200mm diameter gravel filter pack	11 litres / metre	Diameter of Filter Pack (mm) (df)	150								
Porosity of 10mm pea gravel	0.33	Volume of 50mm diameter slotted pipe with 150mm diameter gravel filter pack	6 litres / metre	Volume of Filter Pack (litres) $(Lø)((\pi df^2/4)-((\pi dp^2/4))$	#VALUE!								
Groundwater Prior to Purging and Sampling				Volume of the Standpipe									
Groundwater Level (m bgl)	Dry	LNAPL/ DNAPL (m bgl)	N/A	Diameter of Standpipe (mm) (dp)	50								
Purging Details													
Purge Method/ Device	N/A	Average Flow Rate (litres/min)	#VALUE!	Saturated depth (m) (sd) (installation base - groundwater level)	#VALUE!								
Time to Purge (mins)	N/A	Number of Well Volumes Purged	#VALUE!	Volume of the Standpipe (litres) $(\pi dp^2/4)*10^{-3}$	#VALUE!								
Total Volume Purged (litres)	N/A	Operative	FT	Total Well Volume									
Observations During Purging (see Vu-situ output for insitu parameter readings)				Sampling Information									
In-situ Parameter Device Model	N/A	Groundwater Odour	N/A	Sample Depth (m bgl)	N/A								
				Sample Type	N/A								
				Sample Reference Number	N/A								
In-situ Parameter Device SN	N/A	Visual Turbidity	N/A	Date and Time Obtained	N/A								
Confirm Field Calibration Completed	N/A	Groundwater Colour	N/A	Additional Notes and Observations									
Well dry, unable to purge.													

Low-Flow Test Report:

Test Date / Time: 29/06/2023 10:53:04
Project: GCRE 2
Operator Name: JP

Location Name: S1-BH118 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 7 m Top of Screen: 8 m Total Depth: 14.92 m Initial Depth to Water: 7.76 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 12000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
29/06/2023 10:53	00:00	6.99 pH	15.43 °C	542.87 µS/cm	2.60 mg/L		-30.9 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:53	00:30	6.99 pH	14.21 °C	554.89 µS/cm	0.89 mg/L		-31.6 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:54	01:00	6.98 pH	13.34 °C	558.08 µS/cm	0.40 mg/L		-31.7 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:54	01:30	6.96 pH	12.94 °C	553.99 µS/cm	0.30 mg/L		-31.4 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:55	02:00	6.94 pH	12.69 °C	543.34 µS/cm	0.27 mg/L		-30.7 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:55	02:30	6.91 pH	12.58 °C	530.82 µS/cm	0.26 mg/L		-29.9 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:56	03:00	6.90 pH	12.58 °C	523.55 µS/cm	0.26 mg/L		-29.4 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:56	03:30	6.88 pH	12.60 °C	517.52 µS/cm	0.26 mg/L		-29.0 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:57	04:00	6.86 pH	12.66 °C	510.38 µS/cm	0.26 mg/L		-28.0 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:57	04:30	6.87 pH	12.76 °C	508.12 µS/cm	0.27 mg/L		-28.4 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:58	05:00	6.86 pH	12.71 °C	503.21 µS/cm	0.27 mg/L		-28.0 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:58	05:30	6.86 pH	12.71 °C	499.64 µS/cm	0.28 mg/L		-27.6 mV	776.00 cm	2,000.0 ml/min
29/06/2023 10:59	06:00	6.86 pH	12.70 °C	498.49 µS/cm	0.29 mg/L		-44.8 mV	776.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 6/29/2023 11:14:17 AM
Project: GCRE2
Operator Name: CE

Location Name: S1-BH119.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 7 m Top of Screen: 8 m Total Depth: 15 m Initial Depth to Water: 7.61 m	Pump Type: Wasp pump Estimated Total Volume Pumped: 36000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/29/2023 11:14 AM	00:00	7.38 pH	19.11 °C	462.61 µS/cm	5.70 mg/L		404.4 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:14 AM	00:30	7.30 pH	15.17 °C	415.21 µS/cm	1.27 mg/L		744.3 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:15 AM	01:00	7.41 pH	13.91 °C	412.16 µS/cm	0.28 mg/L		915.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:15 AM	01:30	7.45 pH	13.27 °C	417.30 µS/cm	0.17 mg/L		962.3 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:16 AM	02:00	7.48 pH	12.88 °C	421.07 µS/cm	0.28 mg/L		976.0 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:16 AM	02:30	7.49 pH	12.67 °C	420.46 µS/cm	0.55 mg/L		980.2 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:17 AM	03:00	7.49 pH	12.61 °C	419.07 µS/cm	1.09 mg/L		980.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:17 AM	03:30	7.50 pH	12.58 °C	414.13 µS/cm	1.25 mg/L		981.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:18 AM	04:00	7.50 pH	12.58 °C	407.72 µS/cm	0.78 mg/L		978.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:18 AM	04:30	7.50 pH	12.58 °C	399.67 µS/cm	1.28 mg/L		979.1 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:19 AM	05:00	7.49 pH	12.63 °C	395.64 µS/cm	1.43 mg/L		978.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:19 AM	05:30	7.49 pH	12.69 °C	371.96 µS/cm	1.62 mg/L		975.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:20 AM	06:00	7.49 pH	12.26 °C	387.74 µS/cm	0.39 mg/L		975.4 mV	761.00 cm	2,000.0 ml/min

6/29/2023 11:20 AM	06:30	7.48 pH	12.21 °C	390.25 µS/cm	0.13 mg/L		972.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:21 AM	07:00	7.48 pH	12.22 °C	392.34 µS/cm	0.07 mg/L		967.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:21 AM	07:30	7.48 pH	12.19 °C	392.65 µS/cm	0.05 mg/L		964.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:22 AM	08:00	7.47 pH	12.14 °C	393.26 µS/cm	0.04 mg/L		961.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:22 AM	08:30	7.47 pH	12.14 °C	393.06 µS/cm	0.03 mg/L		958.4 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:23 AM	09:00	7.47 pH	12.17 °C	392.83 µS/cm	0.03 mg/L		955.1 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:23 AM	09:30	7.47 pH	12.21 °C	392.80 µS/cm	0.27 mg/L		962.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:24 AM	10:00	7.47 pH	12.22 °C	393.47 µS/cm	0.15 mg/L		956.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:24 AM	10:30	7.46 pH	12.23 °C	394.74 µS/cm	0.07 mg/L		951.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:25 AM	11:00	7.46 pH	12.26 °C	395.76 µS/cm	0.04 mg/L		947.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:25 AM	11:30	7.46 pH	12.35 °C	397.08 µS/cm	0.32 mg/L		948.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:26 AM	12:00	7.46 pH	12.43 °C	411.83 µS/cm	0.90 mg/L		950.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:26 AM	12:30	7.46 pH	12.49 °C	398.03 µS/cm	1.07 mg/L		950.0 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:27 AM	13:00	7.46 pH	12.58 °C	399.77 µS/cm	0.96 mg/L		947.2 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:27 AM	13:30	7.46 pH	12.72 °C	401.86 µS/cm	1.30 mg/L		944.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:28 AM	14:00	7.47 pH	12.70 °C	396.95 µS/cm	1.07 mg/L		944.6 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:28 AM	14:30	7.47 pH	12.12 °C	394.73 µS/cm	0.17 mg/L		943.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:29 AM	15:00	7.47 pH	12.05 °C	397.03 µS/cm	0.05 mg/L		940.3 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:29 AM	15:30	7.47 pH	11.94 °C	399.76 µS/cm	0.02 mg/L		937.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:30 AM	16:00	7.47 pH	12.12 °C	0.00 µS/cm	0.62 mg/L		993.9 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:30 AM	16:30	7.50 pH	12.16 °C	397.27 µS/cm	1.97 mg/L		939.5 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:31 AM	17:00	7.50 pH	11.80 °C	396.36 µS/cm	0.30 mg/L		937.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:31 AM	17:30	7.79 pH	11.89 °C	3.13 µS/cm	0.16 mg/L		1,039.7 mV	761.00 cm	2,000.0 ml/min
6/29/2023 11:32 AM	18:00	7.79 pH	11.98 °C	2.02 µS/cm	0.35 mg/L		1,035.5 mV	761.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 6/29/2023 12:16:15 PM
Project: GCRE2
Operator Name: CE

Location Name: S1-BH120 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 8 m Top of Screen: 12 m Total Depth: 19.41 m Initial Depth to Water: 9.27 m	Pump Type: Wasp pump Estimated Total Volume Pumped: 12000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/29/2023 12:16 PM	00:00	7.75 pH	17.90 °C	279.05 µS/cm	5.59 mg/L		371.4 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:16 PM	00:30	7.67 pH	16.11 °C	291.32 µS/cm	1.95 mg/L		745.9 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:17 PM	01:00	7.64 pH	14.50 °C	298.55 µS/cm	0.68 mg/L		899.9 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:17 PM	01:30	7.62 pH	13.63 °C	300.43 µS/cm	0.30 mg/L		938.3 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:18 PM	02:00	7.60 pH	13.13 °C	303.02 µS/cm	0.19 mg/L		943.6 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:18 PM	02:30	7.58 pH	12.80 °C	304.54 µS/cm	0.16 mg/L		947.4 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:19 PM	03:00	7.55 pH	12.62 °C	305.74 µS/cm	0.14 mg/L		945.9 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:19 PM	03:30	7.54 pH	12.52 °C	304.40 µS/cm	0.12 mg/L		942.8 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:20 PM	04:00	7.52 pH	12.49 °C	303.78 µS/cm	0.12 mg/L		941.4 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:20 PM	04:30	7.50 pH	12.60 °C	305.01 µS/cm	0.12 mg/L		939.2 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:21 PM	05:00	7.48 pH	12.76 °C	305.55 µS/cm	0.12 mg/L		936.8 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:21 PM	05:30	7.46 pH	12.92 °C	305.81 µS/cm	0.13 mg/L		934.2 mV	927.00 cm	2,000.0 ml/min
6/29/2023 12:22 PM	06:00	7.45 pH	13.07 °C	306.11 µS/cm	0.13 mg/L		934.2 mV	927.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 06/07/2023 12:49:32
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH217.1 Well Diameter: 1.9 cm Casing Type: Plastic Screen Length: 5 m Top of Screen: 25 m Total Depth: 29.55 m Initial Depth to Water: 15.62 m	Pump Type: Waterra PP1 Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 750 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Shower

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
06/07/2023 12:49	00:00	7.31 pH	14.58 °C	517.20 µS/cm	0.19 mg/L		-1.5 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:50	00:30	7.35 pH	15.21 °C	496.86 µS/cm	0.24 mg/L		0.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:50	01:00	7.36 pH	13.16 °C	483.86 µS/cm	0.21 mg/L		1.4 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:51	01:30	7.35 pH	12.39 °C	490.40 µS/cm	0.16 mg/L		2.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:51	02:00	7.32 pH	12.01 °C	478.78 µS/cm	0.15 mg/L		-0.7 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:52	02:30	7.31 pH	11.80 °C	488.79 µS/cm	0.14 mg/L		-0.9 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:52	03:00	7.32 pH	11.71 °C	502.57 µS/cm	0.11 mg/L		0.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:53	03:30	7.33 pH	11.75 °C	509.59 µS/cm	0.08 mg/L		0.9 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:53	04:00	7.34 pH	11.84 °C	512.83 µS/cm	0.07 mg/L		1.5 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:54	04:30	7.35 pH	11.95 °C	515.40 µS/cm	0.06 mg/L		1.9 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:54	05:00	7.36 pH	11.98 °C	517.46 µS/cm	0.06 mg/L		2.6 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:55	05:30	7.37 pH	12.00 °C	519.80 µS/cm	0.06 mg/L		3.0 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:55	06:00	7.37 pH	12.10 °C	522.58 µS/cm	0.06 mg/L		3.6 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:56	06:30	7.36 pH	12.16 °C	523.95 µS/cm	0.06 mg/L		4.2 mV	1,562.0 cm	1,000.00 ml/min

06/07/2023 12:56	07:00	7.35 pH	12.24 °C	527.01 µS/cm	0.07 mg/L		4.6 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:57	07:30	7.36 pH	12.37 °C	528.53 µS/cm	0.07 mg/L		4.4 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:57	08:00	7.37 pH	12.53 °C	532.07 µS/cm	0.07 mg/L		4.4 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:58	08:30	7.36 pH	12.72 °C	532.15 µS/cm	0.07 mg/L		4.5 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:58	09:00	7.33 pH	12.90 °C	530.61 µS/cm	0.08 mg/L		5.1 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:59	09:30	7.41 pH	13.13 °C	530.51 µS/cm	0.08 mg/L		3.2 mV	1,562.0 cm	1,000.00 ml/min
06/07/2023 12:59	10:00	8.49 pH	12.16 °C	725.11 µS/cm	0.06 mg/L		-8.2 mV	1,562.0 cm	1,000.00 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 05/07/2023 10:27:03
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH225 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 3 m Top of Screen: 3 m Total Depth: 5.89 m Initial Depth to Water: 3.98 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 15000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Showers

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
05/07/2023 10:27	00:00	7.59 pH	14.03 °C	462.42 µS/cm	5.85 mg/L		15.3 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:27	00:30	7.39 pH	13.82 °C	461.02 µS/cm	2.62 mg/L		13.8 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:28	01:00	7.29 pH	13.12 °C	462.17 µS/cm	1.54 mg/L		13.1 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:28	01:30	7.25 pH	12.58 °C	435.30 µS/cm	1.17 mg/L		11.4 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:29	02:00	7.20 pH	12.35 °C	426.14 µS/cm	0.87 mg/L		7.1 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:29	02:30	7.15 pH	12.12 °C	422.51 µS/cm	0.64 mg/L		2.5 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:30	03:00	7.11 pH	11.86 °C	412.28 µS/cm	0.46 mg/L		-0.5 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:30	03:30	7.08 pH	11.83 °C	371.53 µS/cm	0.39 mg/L		-1.2 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:31	04:00	7.03 pH	11.48 °C	313.53 µS/cm	0.41 mg/L		0.3 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:31	04:30	6.96 pH	11.06 °C	244.28 µS/cm	0.40 mg/L		3.0 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:32	05:00	6.89 pH	10.87 °C	219.92 µS/cm	0.35 mg/L		4.6 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:32	05:30	6.85 pH	10.75 °C	213.53 µS/cm	0.30 mg/L		5.1 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:33	06:00	6.82 pH	10.68 °C	209.66 µS/cm	0.27 mg/L		5.0 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:33	06:30	6.80 pH	10.64 °C	210.80 µS/cm	0.25 mg/L		5.2 mV	398.00 cm	2,000.0 ml/min

05/07/2023 10:34	07:00	6.79 pH	10.60 °C	210.96 µS/cm	0.25 mg/L		5.0 mV	398.00 cm	2,000.0 ml/min
05/07/2023 10:34	07:30	6.79 pH	10.57 °C	209.75 µS/cm	0.25 mg/L		4.5 mV	398.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 6/29/2023 3:52:41 PM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH227.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 6 m Top of Screen: 8 m Total Depth: 14.35 m Initial Depth to Water: 11.09 m	Pump Type: Wasp pump Estimated Total Volume Pumped: 58000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/29/2023 3:52 PM	00:00	7.54 pH	11.78 °C	288.38 µS/cm	0.12 mg/L		375.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:53 PM	00:30	7.53 pH	11.76 °C	288.96 µS/cm	0.09 mg/L		707.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:53 PM	01:00	7.53 pH	11.75 °C	288.83 µS/cm	0.07 mg/L		852.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:54 PM	01:30	7.50 pH	11.71 °C	288.95 µS/cm	0.07 mg/L		923.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:54 PM	02:00	7.51 pH	11.76 °C	289.60 µS/cm	0.08 mg/L		927.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:55 PM	02:30	7.50 pH	11.84 °C	290.02 µS/cm	0.06 mg/L		953.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:55 PM	03:00	7.49 pH	11.93 °C	290.41 µS/cm	0.06 mg/L		939.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:56 PM	03:30	7.49 pH	11.96 °C	290.45 µS/cm	0.06 mg/L		938.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:56 PM	04:00	7.48 pH	11.99 °C	290.59 µS/cm	0.06 mg/L		956.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:57 PM	04:30	7.48 pH	12.03 °C	290.71 µS/cm	0.06 mg/L		937.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:57 PM	05:00	7.47 pH	12.04 °C	290.73 µS/cm	0.06 mg/L		954.3 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:58 PM	05:30	7.47 pH	12.03 °C	291.20 µS/cm	0.06 mg/L		932.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:58 PM	06:00	7.47 pH	12.03 °C	291.60 µS/cm	0.05 mg/L		928.3 mV	1,109.0 cm	2,000.0 ml/min

6/29/2023 3:59 PM	06:30	7.47 pH	11.98 °C	291.45 µS/cm	0.05 mg/L		953.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 3:59 PM	07:00	7.47 pH	11.94 °C	291.69 µS/cm	0.05 mg/L		938.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:00 PM	07:30	7.46 pH	11.91 °C	291.66 µS/cm	0.06 mg/L		930.9 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:00 PM	08:00	7.46 pH	11.88 °C	291.83 µS/cm	0.06 mg/L		923.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:01 PM	08:30	7.46 pH	11.87 °C	292.12 µS/cm	0.06 mg/L		921.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:01 PM	09:00	7.46 pH	11.86 °C	292.41 µS/cm	0.06 mg/L		939.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:02 PM	09:30	7.46 pH	11.89 °C	292.86 µS/cm	0.06 mg/L		933.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:02 PM	10:00	7.46 pH	11.94 °C	292.77 µS/cm	0.06 mg/L		926.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:03 PM	10:30	7.46 pH	11.94 °C	292.83 µS/cm	0.06 mg/L		914.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:03 PM	11:00	7.46 pH	11.94 °C	293.04 µS/cm	0.06 mg/L		909.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:04 PM	11:30	7.46 pH	11.94 °C	292.92 µS/cm	0.06 mg/L		934.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:04 PM	12:00	7.47 pH	11.98 °C	293.38 µS/cm	0.06 mg/L		909.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:05 PM	12:30	7.47 pH	12.04 °C	293.73 µS/cm	0.06 mg/L		927.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:05 PM	13:00	7.47 pH	12.09 °C	293.90 µS/cm	0.05 mg/L		905.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:06 PM	13:30	7.47 pH	12.13 °C	294.06 µS/cm	0.05 mg/L		903.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:06 PM	14:00	7.47 pH	12.14 °C	293.90 µS/cm	0.05 mg/L		923.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:07 PM	14:30	7.47 pH	12.17 °C	294.19 µS/cm	0.05 mg/L		903.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:07 PM	15:00	7.47 pH	12.21 °C	294.50 µS/cm	0.05 mg/L		902.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:08 PM	15:30	7.47 pH	12.26 °C	294.60 µS/cm	0.05 mg/L		917.6 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:08 PM	16:00	7.47 pH	12.31 °C	294.86 µS/cm	0.05 mg/L		907.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:09 PM	16:30	7.47 pH	12.36 °C	294.94 µS/cm	0.05 mg/L		901.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:09 PM	17:00	7.47 pH	12.40 °C	295.11 µS/cm	0.05 mg/L		894.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:10 PM	17:30	7.46 pH	12.44 °C	295.02 µS/cm	0.05 mg/L		895.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:10 PM	18:00	7.47 pH	12.40 °C	294.72 µS/cm	0.05 mg/L		915.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:11 PM	18:30	7.47 pH	12.35 °C	294.49 µS/cm	0.05 mg/L		894.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:11 PM	19:00	7.47 pH	12.26 °C	294.03 µS/cm	0.04 mg/L		916.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:12 PM	19:30	7.47 pH	12.26 °C	294.22 µS/cm	0.04 mg/L		889.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:12 PM	20:00	7.47 pH	12.26 °C	294.51 µS/cm	0.04 mg/L		909.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:13 PM	20:30	7.47 pH	12.30 °C	294.72 µS/cm	0.04 mg/L		896.4 mV	1,109.0 cm	2,000.0 ml/min

6/29/2023 4:13 PM	21:00	7.47 pH	12.33 °C	295.64 µS/cm	0.04 mg/L		880.9 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:14 PM	21:30	7.47 pH	12.36 °C	295.78 µS/cm	0.04 mg/L		908.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:14 PM	22:00	7.47 pH	12.44 °C	296.19 µS/cm	0.04 mg/L		883.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:15 PM	22:30	7.47 pH	12.58 °C	296.73 µS/cm	0.05 mg/L		881.3 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:15 PM	23:00	7.46 pH	12.67 °C	298.06 µS/cm	0.06 mg/L		904.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:16 PM	23:30	7.46 pH	12.86 °C	298.01 µS/cm	0.06 mg/L		878.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:16 PM	24:00	7.46 pH	12.99 °C	297.77 µS/cm	0.07 mg/L		898.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:17 PM	24:30	7.46 pH	13.09 °C	297.41 µS/cm	0.07 mg/L		876.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:17 PM	25:00	7.46 pH	13.22 °C	297.13 µS/cm	0.08 mg/L		873.1 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:18 PM	25:30	7.46 pH	13.28 °C	297.45 µS/cm	0.08 mg/L		902.7 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:18 PM	26:00	7.46 pH	13.43 °C	297.79 µS/cm	0.09 mg/L		882.0 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:19 PM	26:30	7.45 pH	13.58 °C	297.74 µS/cm	0.10 mg/L		877.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:19 PM	27:00	7.45 pH	13.72 °C	298.02 µS/cm	0.10 mg/L		878.5 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:20 PM	27:30	7.45 pH	13.81 °C	298.59 µS/cm	0.11 mg/L		861.2 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:20 PM	28:00	7.45 pH	13.94 °C	298.45 µS/cm	0.11 mg/L		891.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:21 PM	28:30	7.45 pH	14.09 °C	298.09 µS/cm	0.12 mg/L		867.8 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:21 PM	29:00	7.45 pH	14.13 °C	298.30 µS/cm	0.12 mg/L		822.4 mV	1,109.0 cm	2,000.0 ml/min
6/29/2023 4:22 PM	29:30		13.40 °C	292.31 µS/cm	0.09 mg/L		906.4 mV		
6/29/2023 4:26 PM	33:29	7.48 pH	11.65 °C	294.12 µS/cm	0.01 mg/L		379.5 mV		
6/29/2023 4:26 PM	33:59	7.48 pH	11.63 °C	294.24 µS/cm	0.01 mg/L		738.0 mV		
6/29/2023 4:27 PM	34:26	7.48 pH	11.61 °C	294.03 µS/cm	0.01 mg/L		878.1 mV		
6/29/2023 4:27 PM	34:56	7.49 pH	11.57 °C	294.47 µS/cm	0.01 mg/L		878.9 mV		
6/29/2023 4:28 PM	35:26	7.49 pH	11.57 °C	294.66 µS/cm	0.01 mg/L		878.3 mV		
6/29/2023 4:28 PM	35:56	7.49 pH	11.56 °C	294.93 µS/cm	0.01 mg/L		886.4 mV		
6/29/2023 4:29 PM	36:26	7.49 pH	11.56 °C	295.08 µS/cm	0.01 mg/L		910.4 mV		
6/29/2023 4:29 PM	36:56	7.49 pH	11.52 °C	295.13 µS/cm	0.01 mg/L		911.7 mV		
6/29/2023 4:30 PM	37:26	7.49 pH	11.48 °C	295.24 µS/cm	0.01 mg/L		864.6 mV		
6/29/2023 4:30 PM	37:56	7.49 pH	11.45 °C	295.48 µS/cm	0.01 mg/L		881.6 mV		
6/29/2023 4:31 PM	38:26	7.49 pH	11.42 °C	295.69 µS/cm	0.01 mg/L		870.7 mV		

6/29/2023 4:31 PM	38:56	7.49 pH	11.40 °C	295.93 µS/cm	0.01 mg/L		851.3 mV		
6/29/2023 4:32 PM	39:26	7.49 pH	11.39 °C	295.97 µS/cm	0.01 mg/L		888.5 mV		
6/29/2023 4:32 PM	39:56	7.49 pH	11.39 °C	296.13 µS/cm	0.01 mg/L		850.4 mV		
6/29/2023 4:33 PM	40:26	7.49 pH	11.39 °C	296.18 µS/cm	0.00 mg/L		879.0 mV		
6/29/2023 4:33 PM	40:56	7.49 pH	11.43 °C	296.31 µS/cm	0.00 mg/L		855.9 mV		
6/29/2023 4:34 PM	41:26	7.49 pH	11.48 °C	296.51 µS/cm	0.00 mg/L		853.8 mV		
6/29/2023 4:34 PM	41:56	7.49 pH	11.56 °C	296.33 µS/cm	0.00 mg/L		873.7 mV		
6/29/2023 4:35 PM	42:26	7.49 pH	11.57 °C	296.24 µS/cm	0.00 mg/L		869.5 mV		
6/29/2023 4:35 PM	42:56	7.49 pH	11.55 °C	296.00 µS/cm	0.00 mg/L		857.9 mV		
6/29/2023 4:36 PM	43:26	7.49 pH	11.52 °C	295.96 µS/cm	0.00 mg/L		851.9 mV		
6/29/2023 4:36 PM	43:56	7.49 pH	11.52 °C	296.22 µS/cm	0.00 mg/L		853.6 mV		
6/29/2023 4:37 PM	44:26	7.49 pH	11.52 °C	296.10 µS/cm	0.00 mg/L		872.8 mV		
6/29/2023 4:37 PM	44:56	7.49 pH	11.52 °C	296.11 µS/cm	0.00 mg/L		864.3 mV		
6/29/2023 4:38 PM	45:26	7.49 pH	11.49 °C	296.12 µS/cm	0.00 mg/L		874.3 mV		
6/29/2023 4:38 PM	45:56	7.49 pH	11.47 °C	295.94 µS/cm	0.00 mg/L		849.6 mV		
6/29/2023 4:39 PM	46:26	7.49 pH	11.47 °C	295.96 µS/cm	0.00 mg/L		848.3 mV		
6/29/2023 4:39 PM	46:56	7.49 pH	11.48 °C	296.09 µS/cm	0.00 mg/L		878.6 mV		
6/29/2023 4:40 PM	47:26	7.49 pH	11.48 °C	296.17 µS/cm	0.00 mg/L		843.9 mV		
6/29/2023 4:40 PM	47:56	7.49 pH	11.48 °C	296.17 µS/cm	0.00 mg/L		873.4 mV		
6/29/2023 4:41 PM	48:26	7.49 pH	11.47 °C	295.69 µS/cm	0.00 mg/L		847.2 mV		
6/29/2023 4:41 PM	48:56	7.49 pH	11.43 °C	295.53 µS/cm	0.00 mg/L		845.1 mV		
6/29/2023 4:42 PM	49:26	7.50 pH	11.40 °C	295.61 µS/cm	0.00 mg/L		867.1 mV		
6/29/2023 4:42 PM	49:56	7.49 pH	11.46 °C	296.01 µS/cm	0.00 mg/L		844.6 mV		
6/29/2023 4:43 PM	50:26	7.49 pH	11.53 °C	296.53 µS/cm	0.01 mg/L		865.4 mV		
6/29/2023 4:43 PM	50:56	7.49 pH	11.62 °C	296.64 µS/cm	0.01 mg/L		841.0 mV		
6/29/2023 4:44 PM	51:26	7.49 pH	11.69 °C	296.75 µS/cm	0.01 mg/L		781.4 mV		
6/29/2023 4:44 PM	51:56	7.49 pH	11.78 °C	296.91 µS/cm	0.02 mg/L		863.3 mV		
6/29/2023 4:45 PM	52:26	7.48 pH	11.89 °C	297.16 µS/cm	0.02 mg/L		837.6 mV		
6/29/2023 4:45 PM	52:56	7.48 pH	11.99 °C	297.33 µS/cm	0.03 mg/L		840.8 mV		

6/29/2023 4:46 PM	53:26	7.48 pH	12.08 °C	297.32 µS/cm	0.03 mg/L		861.8 mV		
6/29/2023 4:46 PM	53:56	7.48 pH	12.19 °C	297.33 µS/cm	0.03 mg/L		841.9 mV		
6/29/2023 4:47 PM	54:26	7.48 pH	12.30 °C	297.29 µS/cm	0.03 mg/L		861.3 mV		
6/29/2023 4:47 PM	54:56	7.48 pH	12.40 °C	297.14 µS/cm	0.03 mg/L		840.0 mV		
6/29/2023 4:48 PM	55:26	7.48 pH	12.49 °C	297.06 µS/cm	0.03 mg/L		840.5 mV		
6/29/2023 4:48 PM	55:56	7.48 pH	12.51 °C	296.73 µS/cm	0.03 mg/L		857.5 mV		
6/29/2023 4:49 PM	56:26	7.48 pH	12.53 °C	296.19 µS/cm	0.03 mg/L		838.9 mV		
6/29/2023 4:49 PM	56:56	7.48 pH	12.55 °C	296.04 µS/cm	0.03 mg/L		858.5 mV		
6/29/2023 4:50 PM	57:26	7.48 pH	12.58 °C	295.91 µS/cm	0.03 mg/L		849.8 mV		
6/29/2023 4:50 PM	57:56	7.48 pH	12.62 °C	296.11 µS/cm	0.03 mg/L		827.1 mV		
6/29/2023 4:51 PM	58:26	7.48 pH	12.58 °C	296.16 µS/cm	0.03 mg/L		859.6 mV		
6/29/2023 4:51 PM	58:56	7.48 pH	12.58 °C	296.37 µS/cm	0.03 mg/L		837.1 mV		
6/29/2023 4:52 PM	59:26	7.48 pH	12.63 °C	296.57 µS/cm	0.03 mg/L		856.2 mV		
6/29/2023 4:52 PM	59:56	7.48 pH	12.59 °C	296.65 µS/cm	0.03 mg/L		834.9 mV		
6/29/2023 4:53 PM	01:00:26	7.48 pH	12.58 °C	296.20 µS/cm	0.04 mg/L		833.4 mV		
6/29/2023 4:53 PM	01:00:56	7.48 pH	12.55 °C	296.44 µS/cm	0.04 mg/L		872.7 mV		
6/29/2023 4:54 PM	01:01:26	7.48 pH	12.54 °C	296.87 µS/cm	0.05 mg/L		835.0 mV		
6/29/2023 4:56 PM	01:03:54	7.99 pH	12.10 °C	3.61 µS/cm	1.49 mg/L		615.6 mV		

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 29/06/2023 11:49:53
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH232 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 7 m Top of Screen: 1 m Total Depth: 6.83 m Initial Depth to Water: 5.28 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 12000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
29/06/2023 11:49	00:00	6.94 pH	19.12 °C	470.97 µS/cm	3.29 mg/L		-38.4 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:50	00:30	6.88 pH	16.06 °C	476.69 µS/cm	0.98 mg/L		-45.0 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:50	01:00	6.88 pH	14.73 °C	483.63 µS/cm	0.37 mg/L		-46.0 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:51	01:30	6.88 pH	13.85 °C	490.14 µS/cm	0.22 mg/L		-45.9 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:51	02:00	6.86 pH	13.45 °C	494.04 µS/cm	0.17 mg/L		-44.3 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:52	02:30	6.86 pH	13.29 °C	497.47 µS/cm	0.15 mg/L		-44.1 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:52	03:00	6.86 pH	13.08 °C	497.90 µS/cm	0.14 mg/L		-44.1 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:53	03:30	6.86 pH	12.96 °C	498.47 µS/cm	0.13 mg/L		-43.4 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:53	04:00	6.86 pH	12.95 °C	498.72 µS/cm	0.13 mg/L		-43.5 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:54	04:30	6.85 pH	12.99 °C	498.46 µS/cm	0.12 mg/L		-43.2 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:54	05:00	6.85 pH	13.03 °C	497.16 µS/cm	0.12 mg/L		-42.9 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:55	05:30	6.85 pH	13.03 °C	497.52 µS/cm	0.11 mg/L		-42.7 mV	528.00 cm	2,000.0 ml/min
29/06/2023 11:55	06:00	6.85 pH	13.01 °C	499.30 µS/cm	0.11 mg/L		-43.1 mV	528.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 29/06/2023 09:31:57
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH237 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 22.8 m Top of Screen: 2 m Total Depth: 25.37 m Initial Depth to Water: 12.67 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
29/06/2023 09:31	00:00	6.65 pH	15.57 °C	525.37 µS/cm	2.28 mg/L		4.0 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:32	00:30	6.61 pH	14.75 °C	534.94 µS/cm	0.91 mg/L		1.1 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:32	01:00	6.59 pH	13.49 °C	551.94 µS/cm	0.34 mg/L		1.0 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:33	01:30	6.57 pH	12.85 °C	557.81 µS/cm	0.23 mg/L		0.8 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:33	02:00	6.56 pH	12.40 °C	564.14 µS/cm	0.18 mg/L		0.5 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:34	02:30	6.55 pH	12.22 °C	565.61 µS/cm	0.16 mg/L		0.5 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:34	03:00	6.55 pH	12.08 °C	566.44 µS/cm	0.15 mg/L		0.4 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:35	03:30	6.55 pH	12.00 °C	566.72 µS/cm	0.14 mg/L		0.2 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:35	04:00	6.54 pH	11.96 °C	566.45 µS/cm	0.14 mg/L		0.1 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:36	04:30	6.54 pH	11.93 °C	566.34 µS/cm	0.14 mg/L		-0.7 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:36	05:00	6.54 pH	11.93 °C	566.44 µS/cm	0.14 mg/L		-0.2 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:37	05:30	6.54 pH	11.91 °C	566.59 µS/cm	0.15 mg/L		-0.2 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:37	06:00	6.55 pH	11.84 °C	566.74 µS/cm	0.16 mg/L		-0.8 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:38	06:30	6.55 pH	11.77 °C	566.53 µS/cm	0.17 mg/L		-0.3 mV	1,267.0 cm	2,000.0 ml/min

29/06/2023 09:38	07:00	6.55 pH	11.70 °C	567.28 µS/cm	0.19 mg/L		0.1 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:39	07:30	6.55 pH	11.65 °C	566.64 µS/cm	0.20 mg/L		0.3 mV	1,267.0 cm	2,000.0 ml/min
29/06/2023 09:39	08:00	6.55 pH	11.61 °C	563.74 µS/cm	0.22 mg/L		0.4 mV	1,267.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 6/27/2023 10:10:46 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH239.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 2.6 m Top of Screen: 1 m Total Depth: 3.6 m Initial Depth to Water: 1.89 m	Pump Type: Wasp pump Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 10:10 AM	00:00	7.94 pH	15.24 °C	732.74 µS/cm	8.41 mg/L		388.8 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:11 AM	00:30	7.86 pH	15.25 °C	727.22 µS/cm	1.49 mg/L		628.8 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:11 AM	01:00	7.81 pH	15.35 °C	724.58 µS/cm	0.49 mg/L		709.6 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:12 AM	01:30	7.78 pH	15.44 °C	726.33 µS/cm	0.29 mg/L		742.4 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:12 AM	02:00	7.75 pH	15.53 °C	723.06 µS/cm	0.24 mg/L		755.4 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:13 AM	02:30	7.73 pH	15.62 °C	727.38 µS/cm	0.23 mg/L		760.0 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:13 AM	03:00	7.71 pH	15.69 °C	732.11 µS/cm	0.21 mg/L		761.5 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:14 AM	03:30	7.70 pH	15.75 °C	731.90 µS/cm	0.18 mg/L		763.6 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:14 AM	04:00	7.70 pH	15.81 °C	731.74 µS/cm	0.17 mg/L		768.9 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:15 AM	04:30	7.69 pH	15.85 °C	731.64 µS/cm	0.16 mg/L		769.5 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:15 AM	05:00	7.69 pH	15.89 °C	731.34 µS/cm	0.15 mg/L		769.4 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:16 AM	05:30	7.68 pH	15.93 °C	731.12 µS/cm	0.14 mg/L		769.5 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:16 AM	06:00	7.68 pH	15.95 °C	730.75 µS/cm	0.13 mg/L		773.9 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:17 AM	06:30	7.68 pH	15.98 °C	730.83 µS/cm	0.13 mg/L		762.4 mV	189.00 cm	2,000.0 ml/min

6/27/2023 10:17 AM	07:00	7.68 pH	16.00 °C	730.71 µS/cm	0.12 mg/L		758.3 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:18 AM	07:30	7.68 pH	16.02 °C	730.48 µS/cm	0.12 mg/L		757.8 mV	189.00 cm	2,000.0 ml/min
6/27/2023 10:18 AM	08:00	7.68 pH	16.02 °C	730.39 µS/cm	0.11 mg/L		757.4 mV	189.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW12	

Low-Flow Test Report:

Test Date / Time: 6/27/2023 9:47:28 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH239.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 3 m Top of Screen: 7 m Total Depth: 7.6 m Initial Depth to Water: 2.2 m	Pump Type: Wasp pump Estimated Total Volume Pumped: 18000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 9:47 AM	00:00	7.26 pH	13.08 °C	734.36 µS/cm	7.34 mg/L		402.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:47 AM	00:30	7.33 pH	13.33 °C	745.02 µS/cm	0.99 mg/L		675.1 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:48 AM	01:00	7.39 pH	13.69 °C	744.10 µS/cm	0.20 mg/L		787.6 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:48 AM	01:30	7.44 pH	14.04 °C	741.74 µS/cm	0.10 mg/L		841.5 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:49 AM	02:00	7.47 pH	14.30 °C	740.59 µS/cm	0.07 mg/L		847.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:49 AM	02:30	7.50 pH	14.49 °C	740.14 µS/cm	0.05 mg/L		856.6 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:50 AM	03:00	7.52 pH	14.66 °C	739.54 µS/cm	0.05 mg/L		862.4 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:50 AM	03:30	7.54 pH	14.78 °C	739.66 µS/cm	0.04 mg/L		868.2 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:51 AM	04:00	7.55 pH	14.89 °C	739.36 µS/cm	0.03 mg/L		860.9 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:51 AM	04:30	7.57 pH	14.98 °C	739.55 µS/cm	0.03 mg/L		854.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:52 AM	05:00	7.58 pH	15.04 °C	740.14 µS/cm	0.03 mg/L		856.7 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:52 AM	05:30	7.58 pH	15.11 °C	739.51 µS/cm	0.02 mg/L		847.0 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:53 AM	06:00	7.59 pH	15.15 °C	739.74 µS/cm	0.02 mg/L		842.3 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:53 AM	06:30	7.60 pH	15.21 °C	739.47 µS/cm	0.02 mg/L		835.7 mV	220.00 cm	2,000.0 ml/min

6/27/2023 9:54 AM	07:00	7.60 pH	15.23 °C	739.68 µS/cm	0.02 mg/L		831.4 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:54 AM	07:30	7.61 pH	15.26 °C	739.77 µS/cm	0.02 mg/L		826.1 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:55 AM	08:00	7.61 pH	15.30 °C	739.52 µS/cm	0.02 mg/L		821.8 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:55 AM	08:30	7.62 pH	15.31 °C	739.83 µS/cm	0.01 mg/L		819.9 mV	220.00 cm	2,000.0 ml/min
6/27/2023 9:56 AM	09:00	7.61 pH	15.34 °C	739.53 µS/cm	0.01 mg/L		813.7 mV	220.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW11	

Low-Flow Test Report:

Test Date / Time: 6/27/2023 10:41:25 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH240 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 5 m Top of Screen: 1 m Total Depth: 5.16 m Initial Depth to Water: 2.01 m	Pump Type: Wasp pump Estimated Total Volume Pumped: 25000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 10:41 AM	00:00	8.13 pH	15.58 °C	658.47 µS/cm	3.39 mg/L		381.4 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:41 AM	00:30	8.18 pH	15.32 °C	650.86 µS/cm	0.64 mg/L		606.5 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:42 AM	01:00	8.21 pH	14.85 °C	648.15 µS/cm	0.17 mg/L		673.0 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:42 AM	01:30	8.23 pH	14.41 °C	648.09 µS/cm	0.10 mg/L		701.9 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:43 AM	02:00	8.25 pH	14.04 °C	647.94 µS/cm	0.07 mg/L		708.7 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:43 AM	02:30	8.26 pH	13.77 °C	648.18 µS/cm	0.06 mg/L		706.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:44 AM	03:00	8.28 pH	13.53 °C	648.41 µS/cm	0.04 mg/L		707.2 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:44 AM	03:30	8.29 pH	13.31 °C	648.04 µS/cm	0.04 mg/L		702.3 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:45 AM	04:00	8.30 pH	13.14 °C	647.65 µS/cm	0.03 mg/L		697.8 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:45 AM	04:30	8.32 pH	12.99 °C	642.06 µS/cm	0.03 mg/L		687.4 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:46 AM	05:00	8.33 pH	12.88 °C	640.96 µS/cm	0.02 mg/L		679.2 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:46 AM	05:30	8.34 pH	12.77 °C	640.37 µS/cm	0.02 mg/L		672.9 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:47 AM	06:00	8.35 pH	12.68 °C	640.48 µS/cm	0.02 mg/L		667.6 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:47 AM	06:30	8.36 pH	12.61 °C	639.75 µS/cm	0.01 mg/L		660.1 mV	201.00 cm	2,000.0 ml/min

6/27/2023 10:48 AM	07:00	8.36 pH	12.55 °C	639.61 µS/cm	0.01 mg/L		656.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:48 AM	07:30	8.37 pH	12.50 °C	638.76 µS/cm	0.01 mg/L		650.6 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:49 AM	08:00	8.38 pH	12.48 °C	638.55 µS/cm	0.01 mg/L		644.9 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:49 AM	08:30	8.38 pH	12.44 °C	637.86 µS/cm	0.01 mg/L		640.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:50 AM	09:00	8.39 pH	12.42 °C	637.42 µS/cm	0.01 mg/L		631.0 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:50 AM	09:30	8.40 pH	12.40 °C	636.92 µS/cm	0.00 mg/L		625.7 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:51 AM	10:00	8.40 pH	12.39 °C	636.17 µS/cm	0.00 mg/L		620.6 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:51 AM	10:30	8.41 pH	12.35 °C	636.17 µS/cm	0.00 mg/L		615.1 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:52 AM	11:00	8.41 pH	12.34 °C	635.90 µS/cm	0.00 mg/L		610.5 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:52 AM	11:30	8.42 pH	12.33 °C	635.72 µS/cm	0.00 mg/L		607.2 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:53 AM	12:00	8.42 pH	12.33 °C	635.14 µS/cm	0.00 mg/L		604.7 mV	201.00 cm	2,000.0 ml/min
6/27/2023 10:53 AM	12:30	8.43 pH	12.32 °C	634.63 µS/cm	0.00 mg/L		599.4 mV	201.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW11	

Low-Flow Test Report:

Test Date / Time: 6/27/2023 11:05:41 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH242 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 2.7 m Top of Screen: 1 m Total Depth: 3.74 m Initial Depth to Water: 2.07 m	Pump Type: Wasp pump Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:
Borehole purged dry. Sample taken from bucket

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 11:05 AM	00:00	8.27 pH	13.36 °C	690.53 µS/cm	7.69 mg/L		300.6 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:06 AM	00:30	8.20 pH	13.35 °C	664.11 µS/cm	1.27 mg/L		488.2 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:06 AM	01:00	8.15 pH	13.27 °C	669.47 µS/cm	0.24 mg/L		539.7 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:07 AM	01:30	8.12 pH	13.31 °C	678.96 µS/cm	0.11 mg/L		561.2 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:07 AM	02:00	8.10 pH	13.45 °C	687.30 µS/cm	0.10 mg/L		569.1 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:08 AM	02:30	8.08 pH	13.59 °C	686.65 µS/cm	0.10 mg/L		575.2 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:08 AM	03:00	9.61 pH	13.77 °C	851.22 µS/cm	0.30 mg/L		606.4 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:09 AM	03:30	9.72 pH	13.95 °C	70.30 µS/cm	3.36 mg/L		605.7 mV	207.00 cm	2,000.0 ml/min
6/27/2023 11:09 AM	04:00	8.06 pH	14.08 °C	682.36 µS/cm	6.39 mg/L		576.0 mV	207.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
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EW15	
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Low-Flow Test Report:

Test Date / Time: 6/27/2023 8:51:19 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH243.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 1 m Top of Screen: 5 m Total Depth: 5.88 m Initial Depth to Water: 3.66 m	Pump Type: Wasp pump Estimated Total Volume Pumped: 15533.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 8:51 AM	00:00	8.14 pH	17.22 °C	500.60 µS/cm	6.94 mg/L		505.8 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:51 AM	00:30	8.13 pH	15.93 °C	581.47 µS/cm	2.32 mg/L		610.6 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:52 AM	01:00	8.12 pH	14.90 °C	611.52 µS/cm	0.90 mg/L		618.9 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:52 AM	01:30	8.10 pH	13.99 °C	596.46 µS/cm	0.59 mg/L		627.0 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:53 AM	02:00	8.08 pH	13.39 °C	592.75 µS/cm	0.49 mg/L		626.9 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:53 AM	02:30	8.05 pH	12.93 °C	601.13 µS/cm	0.46 mg/L		623.7 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:54 AM	03:00	8.02 pH	12.61 °C	612.82 µS/cm	0.41 mg/L		620.2 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:54 AM	03:30	7.98 pH	12.27 °C	630.77 µS/cm	0.35 mg/L		614.2 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:55 AM	04:00	7.95 pH	12.05 °C	634.33 µS/cm	0.22 mg/L		610.4 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:55 AM	04:30	7.93 pH	11.78 °C	613.86 µS/cm	0.11 mg/L		606.4 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:56 AM	05:00	7.89 pH	11.52 °C	614.16 µS/cm	0.07 mg/L		600.3 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:56 AM	05:30	7.86 pH	11.35 °C	606.58 µS/cm	0.05 mg/L		594.5 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:57 AM	06:00	7.83 pH	11.22 °C	598.04 µS/cm	0.03 mg/L		589.5 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:57 AM	06:30	7.80 pH	11.13 °C	590.04 µS/cm	0.03 mg/L		586.8 mV	366.00 cm	2,000.0 ml/min

6/27/2023 8:58 AM	07:00	7.76 pH	11.06 °C	581.74 µS/cm	0.02 mg/L		583.7 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:58 AM	07:30	7.73 pH	11.04 °C	574.44 µS/cm	0.02 mg/L		578.9 mV	366.00 cm	2,000.0 ml/min
6/27/2023 8:59 AM	07:46	7.71 pH	11.04 °C	574.11 µS/cm	0.02 mg/L		557.2 mV	366.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew13	

Low-Flow Test Report:

Test Date / Time: 6/26/2023 2:40:52 PM
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH244.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 5.5 m Top of Screen: 4.5 m Total Depth: 9.3 m Initial Depth to Water: 3.39 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 51000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/26/2023 2:40 PM	00:00	7.19 pH	18.17 °C	626.84 µS/cm	3.20 mg/L		710.7 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:41 PM	00:30	6.95 pH	16.83 °C	646.00 µS/cm	1.08 mg/L		576.9 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:41 PM	01:00	6.74 pH	15.51 °C	663.11 µS/cm	0.61 mg/L		511.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:42 PM	01:30	6.59 pH	14.45 °C	676.17 µS/cm	0.50 mg/L		470.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:42 PM	02:00	6.46 pH	13.84 °C	681.78 µS/cm	0.45 mg/L		435.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:43 PM	02:30	6.36 pH	13.45 °C	687.34 µS/cm	0.42 mg/L		414.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:43 PM	03:00	6.28 pH	13.18 °C	691.93 µS/cm	0.38 mg/L		385.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:44 PM	03:30	6.23 pH	13.00 °C	694.63 µS/cm	0.35 mg/L		368.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:44 PM	04:00	6.18 pH	12.83 °C	693.21 µS/cm	0.33 mg/L		344.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:45 PM	04:30	6.15 pH	12.67 °C	691.16 µS/cm	0.32 mg/L		331.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:45 PM	05:00	6.13 pH	12.49 °C	689.65 µS/cm	0.30 mg/L		322.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:46 PM	05:30	6.12 pH	12.35 °C	690.64 µS/cm	0.27 mg/L		304.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:46 PM	06:00	6.12 pH	12.21 °C	691.25 µS/cm	0.26 mg/L		293.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:47 PM	06:30	6.11 pH	12.12 °C	692.60 µS/cm	0.25 mg/L		286.1 mV	339.00 cm	2,000.0 ml/min

6/26/2023 2:47 PM	07:00	6.11 pH	12.04 °C	694.33 µS/cm	0.26 mg/L		275.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:48 PM	07:30	6.10 pH	12.01 °C	695.96 µS/cm	0.28 mg/L		270.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:48 PM	08:00	6.10 pH	12.03 °C	698.40 µS/cm	0.30 mg/L		276.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:49 PM	08:30	6.09 pH	12.02 °C	700.13 µS/cm	0.32 mg/L		264.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:49 PM	09:00	6.08 pH	12.01 °C	699.81 µS/cm	0.31 mg/L		269.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:50 PM	09:30	6.08 pH	11.97 °C	699.97 µS/cm	0.29 mg/L		307.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:50 PM	10:00	6.09 pH	11.94 °C	699.87 µS/cm	0.28 mg/L		286.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:51 PM	10:30	6.07 pH	11.91 °C	701.35 µS/cm	0.28 mg/L		318.7 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:51 PM	11:00	6.06 pH	11.90 °C	702.38 µS/cm	0.28 mg/L		289.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:52 PM	11:30	6.05 pH	11.96 °C	705.58 µS/cm	0.30 mg/L		272.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:52 PM	12:00	6.04 pH	12.03 °C	707.34 µS/cm	0.32 mg/L		264.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:53 PM	12:30	6.04 pH	12.11 °C	708.13 µS/cm	0.33 mg/L		256.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:53 PM	13:00	6.04 pH	12.15 °C	708.81 µS/cm	0.35 mg/L		249.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:54 PM	13:30	6.03 pH	12.21 °C	710.17 µS/cm	0.35 mg/L		248.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:54 PM	14:00	6.03 pH	12.21 °C	709.44 µS/cm	0.35 mg/L		234.9 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:55 PM	14:30	6.03 pH	12.21 °C	709.30 µS/cm	0.35 mg/L		225.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:55 PM	15:00	6.02 pH	12.17 °C	709.08 µS/cm	0.35 mg/L		223.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:56 PM	15:30	6.02 pH	12.15 °C	708.87 µS/cm	0.35 mg/L		219.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:56 PM	16:00	6.02 pH	12.12 °C	708.75 µS/cm	0.37 mg/L		221.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:57 PM	16:30	6.02 pH	12.07 °C	708.32 µS/cm	0.37 mg/L		259.3 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:57 PM	17:00	6.01 pH	12.03 °C	709.15 µS/cm	0.37 mg/L		208.7 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:58 PM	17:30	6.00 pH	12.01 °C	711.47 µS/cm	0.38 mg/L		202.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:58 PM	18:00	6.00 pH	11.99 °C	710.90 µS/cm	0.37 mg/L		197.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:59 PM	18:30	5.99 pH	11.98 °C	710.81 µS/cm	0.37 mg/L		196.2 mV	339.00 cm	2,000.0 ml/min
6/26/2023 2:59 PM	19:00	5.98 pH	11.96 °C	710.97 µS/cm	0.37 mg/L		202.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:00 PM	19:30	5.99 pH	11.94 °C	712.25 µS/cm	0.37 mg/L		191.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:00 PM	20:00	5.98 pH	11.96 °C	713.62 µS/cm	0.36 mg/L		188.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:01 PM	20:30	5.97 pH	11.96 °C	712.89 µS/cm	0.36 mg/L		204.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:01 PM	21:00	5.97 pH	11.96 °C	711.11 µS/cm	0.35 mg/L		377.8 mV	339.00 cm	2,000.0 ml/min

6/26/2023 3:02 PM	21:30	5.96 pH	11.95 °C	712.47 µS/cm	0.35 mg/L		218.1 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:02 PM	22:00	5.95 pH	11.94 °C	712.77 µS/cm	0.34 mg/L		201.4 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:03 PM	22:30	5.94 pH	11.91 °C	713.26 µS/cm	0.35 mg/L		193.5 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:03 PM	23:00	5.94 pH	11.91 °C	713.37 µS/cm	0.35 mg/L		190.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:04 PM	23:30	5.93 pH	11.89 °C	714.02 µS/cm	0.34 mg/L		184.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:04 PM	24:00	5.93 pH	11.89 °C	714.36 µS/cm	0.34 mg/L		180.0 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:05 PM	24:30	5.92 pH	11.86 °C	714.64 µS/cm	0.35 mg/L		175.8 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:05 PM	25:00	5.92 pH	11.85 °C	714.16 µS/cm	0.36 mg/L		173.6 mV	339.00 cm	2,000.0 ml/min
6/26/2023 3:06 PM	25:30	5.92 pH	11.85 °C	713.97 µS/cm	0.36 mg/L		171.2 mV	339.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew14	

Low-Flow Test Report:

Test Date / Time: 6/26/2023 1:12:52 PM
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH246.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 4.5 m Top of Screen: 3.5 m Total Depth: 7.87 m Initial Depth to Water: 3.45 m	Pump Type: Wasp Estimated Total Volume Pumped: 108000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/26/2023 1:12 PM	00:00	8.51 pH	20.61 °C	572.58 µS/cm	4.97 mg/L		1,049.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:13 PM	00:30	8.84 pH	17.73 °C	600.16 µS/cm	2.13 mg/L		1,049.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:13 PM	01:00	8.84 pH	15.84 °C	592.46 µS/cm	1.40 mg/L		1,042.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:14 PM	01:30	8.91 pH	14.67 °C	603.14 µS/cm	1.18 mg/L		1,028.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:14 PM	02:00	8.98 pH	13.86 °C	610.55 µS/cm	1.15 mg/L		1,009.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:15 PM	02:30	7.48 pH	13.27 °C	615.60 µS/cm	1.14 mg/L		1,076.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:15 PM	03:00	7.42 pH	12.90 °C	617.96 µS/cm	1.13 mg/L		1,068.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:16 PM	03:30	7.37 pH	12.68 °C	619.65 µS/cm	1.12 mg/L		1,071.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:16 PM	04:00	7.32 pH	12.55 °C	620.02 µS/cm	1.15 mg/L		1,065.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:17 PM	04:30	7.15 pH	12.46 °C	619.79 µS/cm	1.15 mg/L		1,058.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:17 PM	05:00	7.18 pH	12.42 °C	619.21 µS/cm	1.15 mg/L		1,037.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:18 PM	05:30	7.14 pH	12.36 °C	619.18 µS/cm	1.14 mg/L		1,011.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:18 PM	06:00	6.99 pH	12.35 °C	618.45 µS/cm	1.14 mg/L		999.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:19 PM	06:30	7.02 pH	12.31 °C	618.74 µS/cm	1.14 mg/L		981.0 mV	345.00 cm	2,000.0 ml/min

6/26/2023 1:19 PM	07:00	6.99 pH	12.29 °C	618.53 µS/cm	1.14 mg/L		977.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:20 PM	07:30	6.98 pH	12.27 °C	619.17 µS/cm	1.13 mg/L		975.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:20 PM	08:00	6.95 pH	12.26 °C	620.62 µS/cm	1.13 mg/L		962.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:21 PM	08:30	6.93 pH	12.25 °C	621.02 µS/cm	1.12 mg/L		965.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:21 PM	09:00	6.92 pH	12.21 °C	621.10 µS/cm	1.12 mg/L		973.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:22 PM	09:30	6.93 pH	12.19 °C	621.24 µS/cm	1.13 mg/L		981.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:22 PM	10:00	6.97 pH	12.17 °C	621.95 µS/cm	1.13 mg/L		978.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:23 PM	10:30	6.98 pH	12.13 °C	623.00 µS/cm	1.13 mg/L		960.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:23 PM	11:00	6.98 pH	12.12 °C	622.64 µS/cm	1.13 mg/L		966.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:24 PM	11:30	6.98 pH	12.08 °C	623.90 µS/cm	1.12 mg/L		938.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:24 PM	12:00	6.97 pH	12.07 °C	624.14 µS/cm	1.12 mg/L		938.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:25 PM	12:30	6.95 pH	12.07 °C	624.38 µS/cm	1.12 mg/L		862.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:25 PM	13:00	6.93 pH	12.05 °C	625.13 µS/cm	1.12 mg/L		819.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:26 PM	13:30	6.91 pH	12.05 °C	625.98 µS/cm	1.12 mg/L		839.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:26 PM	14:00	6.89 pH	12.04 °C	626.38 µS/cm	1.12 mg/L		796.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:27 PM	14:30	6.88 pH	12.07 °C	625.83 µS/cm	1.12 mg/L		809.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:27 PM	15:00	6.86 pH	12.08 °C	625.96 µS/cm	1.13 mg/L		803.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:28 PM	15:30	6.84 pH	12.10 °C	627.42 µS/cm	1.13 mg/L		770.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:28 PM	16:00	6.82 pH	12.12 °C	625.09 µS/cm	1.13 mg/L		782.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:29 PM	16:30	6.80 pH	12.15 °C	628.02 µS/cm	1.13 mg/L		771.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:29 PM	17:00	6.78 pH	12.17 °C	628.07 µS/cm	1.14 mg/L		781.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:30 PM	17:30	6.74 pH	12.21 °C	627.89 µS/cm	1.14 mg/L		695.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:30 PM	18:00	6.72 pH	12.21 °C	627.88 µS/cm	1.14 mg/L		681.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:31 PM	18:30	6.72 pH	12.21 °C	627.74 µS/cm	1.14 mg/L		674.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:31 PM	19:00	6.71 pH	12.21 °C	627.17 µS/cm	1.14 mg/L		671.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:32 PM	19:30	6.70 pH	12.14 °C	626.42 µS/cm	1.14 mg/L		670.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:32 PM	20:00	6.69 pH	12.04 °C	626.35 µS/cm	1.14 mg/L		684.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:33 PM	20:30	6.69 pH	11.98 °C	626.23 µS/cm	1.14 mg/L		716.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:33 PM	21:00	6.68 pH	11.93 °C	626.01 µS/cm	1.14 mg/L		710.4 mV	345.00 cm	2,000.0 ml/min

6/26/2023 1:34 PM	21:30	6.66 pH	11.87 °C	626.27 µS/cm	1.15 mg/L		685.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:34 PM	22:00	6.64 pH	11.84 °C	626.10 µS/cm	1.15 mg/L		713.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:35 PM	22:30	6.64 pH	11.80 °C	625.74 µS/cm	1.15 mg/L		697.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:35 PM	23:00	6.63 pH	11.76 °C	626.09 µS/cm	1.16 mg/L		678.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:36 PM	23:30	6.62 pH	11.75 °C	626.86 µS/cm	1.16 mg/L		679.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:36 PM	24:00	6.61 pH	11.77 °C	627.29 µS/cm	1.16 mg/L		708.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:37 PM	24:30	6.61 pH	11.80 °C	627.50 µS/cm	1.17 mg/L		768.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:37 PM	25:00	6.59 pH	11.85 °C	627.70 µS/cm	1.17 mg/L		708.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:38 PM	25:30	6.59 pH	11.85 °C	626.49 µS/cm	1.17 mg/L		703.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:38 PM	26:00	6.58 pH	11.84 °C	625.46 µS/cm	1.17 mg/L		714.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:39 PM	26:30	6.58 pH	11.80 °C	625.04 µS/cm	1.17 mg/L		735.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:39 PM	27:00	6.59 pH	11.75 °C	624.31 µS/cm	1.17 mg/L		773.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:40 PM	27:30	6.58 pH	11.72 °C	624.15 µS/cm	1.17 mg/L		801.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:40 PM	28:00	6.57 pH	11.71 °C	623.26 µS/cm	1.17 mg/L		805.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:41 PM	28:30	6.57 pH	11.71 °C	622.92 µS/cm	1.18 mg/L		770.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:41 PM	29:00	6.57 pH	11.71 °C	622.40 µS/cm	1.18 mg/L		804.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:42 PM	29:30	6.57 pH	11.67 °C	622.06 µS/cm	1.18 mg/L		846.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:42 PM	30:00	6.58 pH	11.65 °C	621.60 µS/cm	1.18 mg/L		872.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:43 PM	30:30	6.57 pH	11.63 °C	621.27 µS/cm	1.18 mg/L		817.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:43 PM	31:00	6.55 pH	11.62 °C	621.39 µS/cm	1.18 mg/L		812.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:44 PM	31:30	6.57 pH	11.63 °C	621.00 µS/cm	1.19 mg/L		878.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:44 PM	32:00	6.57 pH	11.64 °C	620.45 µS/cm	1.19 mg/L		912.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:45 PM	32:30	6.58 pH	11.65 °C	619.86 µS/cm	1.19 mg/L		879.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:45 PM	33:00	6.59 pH	11.62 °C	618.99 µS/cm	1.19 mg/L		906.9 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:46 PM	33:30	6.58 pH	11.61 °C	618.87 µS/cm	1.19 mg/L		908.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:46 PM	34:00	6.59 pH	11.60 °C	618.20 µS/cm	1.19 mg/L		908.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:47 PM	34:30	6.57 pH	11.61 °C	618.15 µS/cm	1.20 mg/L		884.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:47 PM	35:00	6.56 pH	11.62 °C	618.30 µS/cm	1.19 mg/L		871.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:48 PM	35:30	6.54 pH	11.62 °C	617.22 µS/cm	1.19 mg/L		846.6 mV	345.00 cm	2,000.0 ml/min

6/26/2023 1:48 PM	36:00	6.53 pH	11.62 °C	617.10 µS/cm	1.19 mg/L		831.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:49 PM	36:30	6.54 pH	11.62 °C	616.77 µS/cm	1.19 mg/L		912.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:49 PM	37:00	6.52 pH	11.64 °C	616.33 µS/cm	1.19 mg/L		861.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:50 PM	37:30	6.50 pH	11.66 °C	616.17 µS/cm	1.19 mg/L		802.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:50 PM	38:00	6.42 pH	11.67 °C	615.01 µS/cm	1.19 mg/L		891.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:51 PM	38:30	6.42 pH	11.67 °C	614.85 µS/cm	1.18 mg/L		823.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:51 PM	39:00	6.42 pH	11.69 °C	614.96 µS/cm	1.19 mg/L		755.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:52 PM	39:30	6.41 pH	11.70 °C	614.90 µS/cm	1.18 mg/L		709.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:52 PM	40:00	6.40 pH	11.75 °C	614.94 µS/cm	1.18 mg/L		671.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:53 PM	40:30	6.36 pH	11.78 °C	614.56 µS/cm	1.18 mg/L		562.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:53 PM	41:00	6.33 pH	11.82 °C	614.32 µS/cm	1.18 mg/L		613.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:54 PM	41:30	6.33 pH	11.80 °C	613.20 µS/cm	1.18 mg/L		597.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:54 PM	42:00	6.33 pH	11.78 °C	612.55 µS/cm	1.18 mg/L		570.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:55 PM	42:30	6.32 pH	11.75 °C	611.88 µS/cm	1.17 mg/L		549.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:55 PM	43:00	6.31 pH	11.75 °C	611.91 µS/cm	1.17 mg/L		523.3 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:56 PM	43:30	6.30 pH	11.75 °C	611.73 µS/cm	1.17 mg/L		503.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:56 PM	44:00	6.29 pH	11.74 °C	610.49 µS/cm	1.17 mg/L		486.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:57 PM	44:30	6.28 pH	11.71 °C	610.93 µS/cm	1.17 mg/L		471.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:57 PM	45:00	6.27 pH	11.68 °C	610.00 µS/cm	1.17 mg/L		449.8 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:58 PM	45:30	6.27 pH	11.66 °C	609.51 µS/cm	1.16 mg/L		439.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:58 PM	46:00	6.26 pH	11.64 °C	609.05 µS/cm	1.16 mg/L		418.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:59 PM	46:30	6.25 pH	11.61 °C	608.35 µS/cm	1.16 mg/L		405.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 1:59 PM	47:00	6.24 pH	11.58 °C	608.08 µS/cm	1.16 mg/L		394.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:00 PM	47:30	6.23 pH	11.57 °C	607.69 µS/cm	1.16 mg/L		383.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:00 PM	48:00	6.22 pH	11.59 °C	607.18 µS/cm	1.16 mg/L		373.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:01 PM	48:30	6.21 pH	11.60 °C	606.77 µS/cm	1.16 mg/L		365.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:01 PM	49:00	6.20 pH	11.62 °C	605.42 µS/cm	1.15 mg/L		364.0 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:02 PM	49:30	6.19 pH	11.59 °C	604.87 µS/cm	1.15 mg/L		340.1 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:02 PM	50:00	6.18 pH	11.57 °C	605.87 µS/cm	1.15 mg/L		328.9 mV	345.00 cm	2,000.0 ml/min

6/26/2023 2:03 PM	50:30	6.17 pH	11.57 °C	606.24 µS/cm	1.15 mg/L		319.2 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:03 PM	51:00	6.16 pH	11.57 °C	605.13 µS/cm	1.14 mg/L		311.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:04 PM	51:30	6.16 pH	11.57 °C	604.75 µS/cm	1.15 mg/L		307.4 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:04 PM	52:00	6.14 pH	11.59 °C	604.75 µS/cm	1.15 mg/L		340.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:05 PM	52:30	6.15 pH	11.66 °C	604.87 µS/cm	1.14 mg/L		349.7 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:05 PM	53:00	6.15 pH	11.71 °C	605.53 µS/cm	1.14 mg/L		341.6 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:06 PM	53:30	6.14 pH	11.80 °C	606.22 µS/cm	1.14 mg/L		342.5 mV	345.00 cm	2,000.0 ml/min
6/26/2023 2:06 PM	54:00	6.15 pH	11.90 °C	606.52 µS/cm	1.14 mg/L		337.0 mV	345.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew11	

Low-Flow Test Report:

Test Date / Time: 6/28/2023 10:23:49 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH248.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 3 m Top of Screen: 6.5 m Total Depth: 9.01 m Initial Depth to Water: 6.3 m	Pump Type: Wasp pump Estimated Total Volume Pumped: 18000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/28/2023 10:23 AM	00:00	8.89 pH	17.77 °C	8.78 µS/cm	9.20 mg/L		699.1 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:24 AM	00:30	8.28 pH	17.72 °C	870.21 µS/cm	8.82 mg/L		799.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:24 AM	01:00	8.10 pH	15.72 °C	896.27 µS/cm	2.99 mg/L		862.1 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:25 AM	01:30	7.99 pH	14.63 °C	900.27 µS/cm	0.78 mg/L		878.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:25 AM	02:00	7.93 pH	13.85 °C	902.18 µS/cm	0.27 mg/L		886.2 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:26 AM	02:30	7.89 pH	13.27 °C	916.86 µS/cm	0.20 mg/L		886.9 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:26 AM	03:00	7.85 pH	12.90 °C	915.85 µS/cm	0.17 mg/L		885.2 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:27 AM	03:30	7.83 pH	12.60 °C	923.87 µS/cm	0.17 mg/L		887.1 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:27 AM	04:00	7.81 pH	12.44 °C	947.35 µS/cm	0.18 mg/L		886.7 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:28 AM	04:30	7.79 pH	12.26 °C	967.43 µS/cm	0.19 mg/L		885.5 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:28 AM	05:00	7.78 pH	12.12 °C	981.52 µS/cm	0.21 mg/L		886.3 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:29 AM	05:30	7.77 pH	12.05 °C	984.66 µS/cm	0.21 mg/L		887.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:29 AM	06:00	7.76 pH	11.99 °C	985.81 µS/cm	0.21 mg/L		885.3 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:30 AM	06:30	7.75 pH	11.96 °C	991.52 µS/cm	0.21 mg/L		894.1 mV	630.00 cm	2,000.0 ml/min

6/28/2023 10:30 AM	07:00	7.74 pH	11.94 °C	991.99 µS/cm	0.23 mg/L		885.6 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:31 AM	07:30	7.73 pH	11.91 °C	993.72 µS/cm	0.25 mg/L		884.5 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:31 AM	08:00	7.73 pH	11.89 °C	994.82 µS/cm	0.28 mg/L		886.4 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:32 AM	08:30	7.73 pH	11.88 °C	995.76 µS/cm	0.32 mg/L		885.0 mV	630.00 cm	2,000.0 ml/min
6/28/2023 10:32 AM	09:00	7.72 pH	11.86 °C	995.45 µS/cm	0.32 mg/L		884.0 mV	630.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 6/27/2023 9:18:05 AM
Project: GCRE2
Operator Name: CE

Location Name: S2-BH249.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 4.5 m Top of Screen: 3.5 m Total Depth: 7.65 m Initial Depth to Water: 4.85 m	Pump Type: Wasp pump Estimated Total Volume Pumped: 17000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
6/27/2023 9:18 AM	00:00	7.97 pH	13.36 °C	929.98 µS/cm	6.53 mg/L		455.0 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:18 AM	00:30	7.80 pH	13.03 °C	739.67 µS/cm	2.35 mg/L		559.1 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:19 AM	01:00	7.68 pH	12.86 °C	742.61 µS/cm	1.11 mg/L		561.6 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:19 AM	01:30	7.59 pH	12.72 °C	743.11 µS/cm	0.47 mg/L		575.3 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:20 AM	02:00	7.52 pH	12.63 °C	743.93 µS/cm	0.30 mg/L		573.8 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:20 AM	02:30	7.47 pH	12.58 °C	745.81 µS/cm	0.26 mg/L		560.6 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:21 AM	03:00	7.42 pH	12.53 °C	745.71 µS/cm	0.23 mg/L		557.6 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:21 AM	03:30	7.39 pH	12.49 °C	746.44 µS/cm	0.17 mg/L		548.5 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:22 AM	04:00	7.36 pH	12.46 °C	746.82 µS/cm	0.15 mg/L		541.0 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:22 AM	04:30	7.34 pH	12.44 °C	747.02 µS/cm	0.13 mg/L		534.8 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:23 AM	05:00	7.32 pH	12.40 °C	746.98 µS/cm	0.11 mg/L		529.0 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:23 AM	05:30	7.31 pH	12.26 °C	749.67 µS/cm	0.09 mg/L		524.4 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:24 AM	06:00	7.30 pH	12.25 °C	748.48 µS/cm	0.08 mg/L		521.5 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:24 AM	06:30	7.29 pH	12.12 °C	768.21 µS/cm	0.06 mg/L		518.4 mV	485.00 cm	2,000.0 ml/min

6/27/2023 9:25 AM	07:00	7.28 pH	11.99 °C	779.70 µS/cm	0.05 mg/L		516.9 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:25 AM	07:30	7.28 pH	11.99 °C	777.67 µS/cm	0.05 mg/L		511.7 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:26 AM	08:00	7.28 pH	11.96 °C	778.69 µS/cm	0.03 mg/L		507.3 mV	485.00 cm	2,000.0 ml/min
6/27/2023 9:26 AM	08:30	7.28 pH	11.94 °C	777.57 µS/cm	0.04 mg/L		503.6 mV	485.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew14	

Low-Flow Test Report:

Test Date / Time: 28/06/2023 10:40:45
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH250.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 9.5 m Top of Screen: 7.5 m Total Depth: 9.07 m Initial Depth to Water: 3.53 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
28/06/2023 10:40	00:00	7.60 pH	16.21 °C	489.48 µS/cm	4.96 mg/L		32.0 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:41	00:30	7.59 pH	14.67 °C	503.53 µS/cm	3.91 mg/L		21.4 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:41	01:00	7.58 pH	13.99 °C	510.49 µS/cm	3.56 mg/L		17.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:42	01:30	7.56 pH	13.58 °C	511.83 µS/cm	3.37 mg/L		15.5 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:42	02:00	7.55 pH	13.35 °C	513.02 µS/cm	3.25 mg/L		13.8 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:43	02:30	7.55 pH	13.26 °C	515.60 µS/cm	3.22 mg/L		13.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:43	03:00	7.55 pH	13.26 °C	518.07 µS/cm	3.22 mg/L		13.1 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:44	03:30	7.55 pH	13.30 °C	519.99 µS/cm	3.23 mg/L		12.8 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:44	04:00	7.55 pH	13.31 °C	522.29 µS/cm	3.27 mg/L		12.9 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:45	04:30	7.56 pH	13.31 °C	524.13 µS/cm	3.35 mg/L		13.0 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:45	05:00	7.56 pH	13.32 °C	524.25 µS/cm	3.39 mg/L		13.1 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:46	05:30	7.56 pH	13.35 °C	525.48 µS/cm	3.40 mg/L		13.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:46	06:00	7.56 pH	13.37 °C	516.65 µS/cm	3.37 mg/L		20.4 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:47	06:30	7.55 pH	13.40 °C	516.66 µS/cm	3.32 mg/L		15.7 mV	353.00 cm	2,000.0 ml/min

28/06/2023 10:47	07:00	7.55 pH	13.42 °C	523.65 µS/cm	3.24 mg/L		14.4 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:48	07:30	7.54 pH	13.42 °C	522.66 µS/cm	3.14 mg/L		13.6 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:48	08:00	7.54 pH	13.40 °C	513.37 µS/cm	3.06 mg/L		20.6 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:49	08:30	7.54 pH	13.37 °C	513.19 µS/cm	2.98 mg/L		15.3 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:49	09:00	7.53 pH	13.34 °C	520.02 µS/cm	2.90 mg/L		13.9 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:50	09:30	7.53 pH	13.35 °C	519.65 µS/cm	2.84 mg/L		13.2 mV	353.00 cm	2,000.0 ml/min
28/06/2023 10:50	10:00	7.52 pH	13.33 °C	511.13 µS/cm	2.79 mg/L		12.9 mV	353.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 27/06/2023 14:33:00
Project: GCRE 2 (2)
Operator Name: JP

Location Name: S2-BH252.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 3 m Top of Screen: 6 m Total Depth: 8.63 m Initial Depth to Water: 5.41 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 14000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
27/06/2023 14:33	00:00	7.64 pH	14.03 °C	515.00 µS/cm	8.97 mg/L		32.8 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:33	00:30	7.32 pH	13.21 °C	496.57 µS/cm	6.86 mg/L		30.6 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:34	01:00	7.23 pH	12.56 °C	493.06 µS/cm	2.83 mg/L		22.2 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:34	01:30	7.18 pH	12.34 °C	494.10 µS/cm	1.42 mg/L		18.2 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:35	02:00	7.18 pH	12.02 °C	491.63 µS/cm	0.91 mg/L		15.6 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:35	02:30	7.17 pH	11.75 °C	487.07 µS/cm	0.72 mg/L		14.0 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:36	03:00	7.13 pH	11.61 °C	474.80 µS/cm	0.62 mg/L		13.8 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:36	03:30	7.10 pH	11.56 °C	465.13 µS/cm	0.57 mg/L		13.3 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:37	04:00	7.09 pH	11.55 °C	462.30 µS/cm	0.56 mg/L		13.1 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:37	04:30	7.10 pH	11.47 °C	468.56 µS/cm	0.56 mg/L		12.4 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:38	05:00	7.11 pH	11.43 °C	475.10 µS/cm	0.52 mg/L		11.9 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:38	05:30	7.12 pH	11.39 °C	475.41 µS/cm	0.47 mg/L		11.5 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:39	06:00	7.11 pH	11.33 °C	472.88 µS/cm	0.44 mg/L		11.3 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:39	06:30	7.11 pH	11.26 °C	470.75 µS/cm	0.42 mg/L		10.9 mV	541.00 cm	2,000.0 ml/min
27/06/2023 14:40	07:00	7.10 pH	11.21 °C	467.33 µS/cm	0.41 mg/L		11.0 mV	541.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
Ew18	

Low-Flow Test Report:

Test Date / Time: 27/07/2023 10:52:57
Project: GCRE 2
Operator Name: JP

Location Name: S1-BH118 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 7 m Top of Screen: 8 m Total Depth: 14.97 m Initial Depth to Water: 6.93 m	Pump Type: Wasp Estimated Total Volume Pumped: 25000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
27/07/2023 10:52	00:00	7.21 pH	15.96 °C	390.29 µS/cm	5.63 mg/L		-39.4 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:53	00:30	7.13 pH	14.74 °C	452.31 µS/cm	2.34 mg/L		-40.9 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:53	01:00	7.09 pH	13.68 °C	434.84 µS/cm	0.97 mg/L		-39.0 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:54	01:30	7.07 pH	13.11 °C	437.08 µS/cm	0.49 mg/L		-38.3 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:54	02:00	7.06 pH	12.71 °C	436.15 µS/cm	0.35 mg/L		-37.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:55	02:30	7.05 pH	12.43 °C	432.07 µS/cm	0.33 mg/L		-36.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:55	03:00	7.03 pH	12.24 °C	423.57 µS/cm	0.31 mg/L		-35.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:56	03:30	7.03 pH	12.12 °C	425.23 µS/cm	0.30 mg/L		-49.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:56	04:00	7.02 pH	12.07 °C	425.80 µS/cm	0.31 mg/L		-37.3 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:57	04:30	7.02 pH	12.02 °C	426.66 µS/cm	0.32 mg/L		-50.4 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:57	05:00	7.02 pH	12.02 °C	424.50 µS/cm	0.34 mg/L		-52.1 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:58	05:30	7.02 pH	12.03 °C	418.98 µS/cm	0.40 mg/L		-38.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:58	06:00	7.01 pH	11.90 °C	409.31 µS/cm	0.54 mg/L		-34.3 mV	693.00 cm	2,000.0 ml/min
27/07/2023 10:59	06:30	7.01 pH	11.82 °C	408.87 µS/cm	0.62 mg/L		-32.3 mV	693.00 cm	2,000.0 ml/min

27/07/2023 10:59	07:00	7.01 pH	11.75 °C	411.16 µS/cm	0.59 mg/L		-45.1 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:00	07:30	7.00 pH	11.68 °C	411.53 µS/cm	0.47 mg/L		-33.5 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:00	08:00	6.99 pH	11.64 °C	404.49 µS/cm	0.37 mg/L		-31.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:01	08:30	6.98 pH	11.58 °C	395.24 µS/cm	0.30 mg/L		-30.2 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:01	09:00	6.96 pH	11.56 °C	384.85 µS/cm	0.26 mg/L		-28.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:02	09:30	6.94 pH	11.52 °C	375.67 µS/cm	0.23 mg/L		-27.5 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:02	10:00	6.93 pH	11.52 °C	367.62 µS/cm	0.22 mg/L		-37.8 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:03	10:30	6.91 pH	11.51 °C	359.87 µS/cm	0.21 mg/L		-27.2 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:03	11:00	6.90 pH	11.52 °C	355.23 µS/cm	0.22 mg/L		-25.2 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:04	11:30	6.89 pH	11.56 °C	351.63 µS/cm	0.23 mg/L		-26.6 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:04	12:00	6.89 pH	11.57 °C	348.39 µS/cm	0.23 mg/L		-25.7 mV	693.00 cm	2,000.0 ml/min
27/07/2023 11:05	12:30	6.88 pH	11.61 °C	345.37 µS/cm	0.22 mg/L		-24.9 mV	693.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/27/2023 10:52:15 AM
Project: GCRE 2
Operator Name: KW

Location Name: S1-BH119.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 7 m Top of Screen: 8 m Total Depth: 15 m Initial Depth to Water: 7.97 m	Pump Type: Wasp Estimated Total Volume Pumped: 18000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/27/2023 10:52 AM	00:00	8.12 pH	14.58 °C	397.71 µS/cm	1.04 mg/L		375.3 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:52 AM	00:30	8.04 pH	13.86 °C	402.79 µS/cm	0.30 mg/L		577.3 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:53 AM	01:00	7.98 pH	13.32 °C	408.37 µS/cm	0.18 mg/L		681.8 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:53 AM	01:30	7.93 pH	12.91 °C	410.43 µS/cm	0.14 mg/L		771.7 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:54 AM	02:00	7.89 pH	12.71 °C	409.68 µS/cm	0.12 mg/L		829.5 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:54 AM	02:30	7.86 pH	12.51 °C	407.79 µS/cm	0.11 mg/L		858.6 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:55 AM	03:00	7.83 pH	12.40 °C	404.10 µS/cm	0.10 mg/L		877.8 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:55 AM	03:30	7.81 pH	12.31 °C	398.98 µS/cm	0.09 mg/L		894.2 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:56 AM	04:00	7.78 pH	12.28 °C	394.41 µS/cm	0.08 mg/L		893.9 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:56 AM	04:30	7.77 pH	12.24 °C	390.72 µS/cm	0.08 mg/L		898.4 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:57 AM	05:00	7.75 pH	12.21 °C	388.45 µS/cm	0.07 mg/L		902.9 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:57 AM	05:30	7.74 pH	12.21 °C	387.02 µS/cm	0.07 mg/L		903.6 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:58 AM	06:00	7.73 pH	12.19 °C	386.05 µS/cm	0.06 mg/L		904.5 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:58 AM	06:30	7.72 pH	12.17 °C	385.37 µS/cm	0.06 mg/L		905.7 mV	797.00 cm	2,000.0 ml/min

7/27/2023 10:59 AM	07:00	7.71 pH	12.14 °C	384.93 µS/cm	0.05 mg/L		906.2 mV	797.00 cm	2,000.0 ml/min
7/27/2023 10:59 AM	07:30	7.70 pH	12.14 °C	384.78 µS/cm	0.05 mg/L		905.8 mV	797.00 cm	2,000.0 ml/min
7/27/2023 11:00 AM	08:00	7.69 pH	12.17 °C	385.33 µS/cm	0.05 mg/L		907.6 mV	797.00 cm	2,000.0 ml/min
7/27/2023 11:00 AM	08:30	7.69 pH	12.20 °C	386.02 µS/cm	0.05 mg/L		908.1 mV	797.00 cm	2,000.0 ml/min
7/27/2023 11:01 AM	09:00	7.68 pH	12.21 °C	386.09 µS/cm	0.04 mg/L		908.4 mV	797.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Low-Flow Test Report:

Test Date / Time: 7/27/2023 11:20:03 AM
Project: GCRE 2
Operator Name: KW

Location Name: S1-BH119.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 2 m Top of Screen: 2 m Total Depth: 4 m Initial Depth to Water: 2.67 m	Pump Type: Wasp Estimated Total Volume Pumped: 18000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/27/2023 11:20 AM	00:00	7.56 pH	16.47 °C	705.99 µS/cm	1.65 mg/L		292.6 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:20 AM	00:30	7.35 pH	15.75 °C	708.15 µS/cm	0.36 mg/L		583.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:21 AM	01:00	7.22 pH	15.22 °C	700.72 µS/cm	0.15 mg/L		748.8 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:21 AM	01:30	7.16 pH	14.82 °C	683.30 µS/cm	0.10 mg/L		856.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:22 AM	02:00	7.14 pH	14.54 °C	672.45 µS/cm	0.06 mg/L		897.7 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:22 AM	02:30	7.12 pH	14.33 °C	665.16 µS/cm	0.05 mg/L		912.4 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:23 AM	03:00	7.12 pH	14.20 °C	659.41 µS/cm	0.04 mg/L		922.1 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:23 AM	03:30	7.11 pH	14.11 °C	663.00 µS/cm	0.03 mg/L		926.1 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:24 AM	04:00	7.10 pH	14.04 °C	662.70 µS/cm	0.02 mg/L		926.7 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:24 AM	04:30	7.10 pH	13.99 °C	659.51 µS/cm	0.02 mg/L		928.1 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:25 AM	05:00	7.10 pH	13.95 °C	655.67 µS/cm	0.01 mg/L		927.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:25 AM	05:30	7.11 pH	13.91 °C	648.05 µS/cm	0.01 mg/L		929.4 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:26 AM	06:00	7.11 pH	13.93 °C	645.66 µS/cm	0.01 mg/L		928.7 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:26 AM	06:30	7.11 pH	13.95 °C	647.42 µS/cm	0.01 mg/L		929.6 mV	267.00 cm	2,000.0 ml/min

7/27/2023 11:27 AM	07:00	7.11 pH	13.97 °C	648.78 µS/cm	0.01 mg/L		929.3 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:27 AM	07:30	7.11 pH	14.01 °C	643.40 µS/cm	0.01 mg/L		927.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:28 AM	08:00	7.12 pH	14.04 °C	639.17 µS/cm	0.01 mg/L		927.4 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:28 AM	08:30	7.12 pH	14.06 °C	634.67 µS/cm	0.01 mg/L		927.2 mV	267.00 cm	2,000.0 ml/min
7/27/2023 11:29 AM	09:00	7.13 pH	14.07 °C	631.69 µS/cm	0.00 mg/L		927.3 mV	267.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW4	

Low-Flow Test Report:

Test Date / Time: 7/27/2023 2:21:19 PM
Project: GCRE 2
Operator Name: KW

Location Name: S1-BH120 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 8 m Top of Screen: 12 m Total Depth: 20.54 m Initial Depth to Water: 9.1 m	Pump Type: Wasp Estimated Total Volume Pumped: 120200 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Windy cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/27/2023 2:21 PM	00:00	8.08 pH	15.35 °C	297.37 µS/cm	0.32 mg/L		339.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:21 PM	00:36	8.02 pH	13.96 °C	302.85 µS/cm	0.14 mg/L		565.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:22 PM	01:06	7.98 pH	13.22 °C	305.57 µS/cm	0.12 mg/L		707.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:22 PM	01:36	7.94 pH	12.77 °C	306.46 µS/cm	0.11 mg/L		830.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:23 PM	02:06	7.90 pH	12.50 °C	306.96 µS/cm	0.11 mg/L		888.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:23 PM	02:36	7.87 pH	12.35 °C	307.20 µS/cm	0.11 mg/L		903.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:24 PM	03:06	7.84 pH	12.24 °C	307.57 µS/cm	0.11 mg/L		945.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:24 PM	03:36	7.81 pH	12.17 °C	307.21 µS/cm	0.11 mg/L		959.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:25 PM	04:06	7.79 pH	12.12 °C	305.55 µS/cm	0.11 mg/L		977.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:25 PM	04:36	7.75 pH	12.08 °C	302.61 µS/cm	0.12 mg/L		988.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:26 PM	05:06	7.75 pH	12.04 °C	301.90 µS/cm	0.13 mg/L		979.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:26 PM	05:36	7.74 pH	12.03 °C	301.29 µS/cm	0.17 mg/L		943.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:27 PM	06:06	7.73 pH	12.04 °C	301.16 µS/cm	0.22 mg/L		940.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:27 PM	06:36	7.71 pH	12.07 °C	301.09 µS/cm	0.26 mg/L		938.7 mV	910.00 cm	2,000.0 ml/min

7/27/2023 2:28 PM	07:06	7.70 pH	12.08 °C	301.47 µS/cm	0.28 mg/L		958.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:28 PM	07:36	7.68 pH	12.09 °C	301.93 µS/cm	0.27 mg/L		937.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:29 PM	08:06	7.67 pH	12.17 °C	303.48 µS/cm	0.25 mg/L		961.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:29 PM	08:36	7.65 pH	12.31 °C	304.50 µS/cm	0.22 mg/L		935.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:30 PM	09:06	7.64 pH	12.40 °C	305.07 µS/cm	0.20 mg/L		933.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:30 PM	09:36	7.63 pH	12.49 °C	305.59 µS/cm	0.18 mg/L		957.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:31 PM	10:06	7.63 pH	12.52 °C	305.42 µS/cm	0.16 mg/L		948.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:31 PM	10:36	7.62 pH	12.48 °C	305.05 µS/cm	0.14 mg/L		958.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:32 PM	11:06	7.62 pH	12.44 °C	305.39 µS/cm	0.12 mg/L		944.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:32 PM	11:36	7.61 pH	12.43 °C	306.07 µS/cm	0.11 mg/L		921.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:33 PM	12:06	7.61 pH	12.43 °C	306.13 µS/cm	0.10 mg/L		953.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:33 PM	12:36	7.60 pH	12.40 °C	306.13 µS/cm	0.09 mg/L		930.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:34 PM	13:06	7.60 pH	12.39 °C	306.56 µS/cm	0.09 mg/L		950.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:34 PM	13:36	7.60 pH	12.37 °C	306.70 µS/cm	0.08 mg/L		927.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:35 PM	14:06	7.59 pH	12.36 °C	306.66 µS/cm	0.07 mg/L		928.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:35 PM	14:36	7.59 pH	12.34 °C	306.96 µS/cm	0.07 mg/L		956.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:36 PM	15:06	7.59 pH	12.35 °C	307.54 µS/cm	0.06 mg/L		921.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:36 PM	15:36	7.59 pH	12.34 °C	307.44 µS/cm	0.05 mg/L		947.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:37 PM	16:06	7.59 pH	12.31 °C	307.81 µS/cm	0.05 mg/L		926.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:37 PM	16:36	7.58 pH	12.32 °C	307.99 µS/cm	0.05 mg/L		942.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:38 PM	17:06	7.58 pH	12.33 °C	307.94 µS/cm	0.04 mg/L		926.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:38 PM	17:36	7.58 pH	12.31 °C	307.75 µS/cm	0.04 mg/L		921.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:39 PM	18:06	7.58 pH	12.31 °C	307.80 µS/cm	0.03 mg/L		945.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:39 PM	18:36	7.58 pH	12.31 °C	307.53 µS/cm	0.03 mg/L		922.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:40 PM	19:06	7.58 pH	12.30 °C	307.42 µS/cm	0.02 mg/L		921.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:40 PM	19:36	7.58 pH	12.30 °C	307.61 µS/cm	0.02 mg/L		942.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:41 PM	20:06	7.57 pH	12.31 °C	307.67 µS/cm	0.02 mg/L		920.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:41 PM	20:36	7.57 pH	12.31 °C	307.68 µS/cm	0.02 mg/L		942.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:42 PM	21:06	7.57 pH	12.34 °C	307.42 µS/cm	0.02 mg/L		959.3 mV	910.00 cm	2,000.0 ml/min

7/27/2023 2:42 PM	21:36	7.57 pH	12.32 °C	307.37 µS/cm	0.02 mg/L		979.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:43 PM	22:06	7.57 pH	12.31 °C	307.26 µS/cm	0.02 mg/L		978.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:43 PM	22:36	7.57 pH	12.32 °C	307.37 µS/cm	0.02 mg/L		918.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:44 PM	23:06	7.57 pH	12.33 °C	307.38 µS/cm	0.02 mg/L		914.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:44 PM	23:36	7.57 pH	12.34 °C	307.16 µS/cm	0.02 mg/L		898.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:45 PM	24:06	7.57 pH	12.32 °C	307.04 µS/cm	0.02 mg/L		975.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:45 PM	24:36	7.57 pH	12.31 °C	307.07 µS/cm	0.02 mg/L		942.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:46 PM	25:06	7.56 pH	12.32 °C	307.15 µS/cm	0.02 mg/L		926.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:46 PM	25:36	7.56 pH	12.35 °C	307.52 µS/cm	0.02 mg/L		902.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:47 PM	26:06	7.56 pH	12.39 °C	307.15 µS/cm	0.02 mg/L		934.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:47 PM	26:36	7.56 pH	12.40 °C	307.15 µS/cm	0.02 mg/L		910.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:48 PM	27:06	7.56 pH	12.42 °C	307.32 µS/cm	0.02 mg/L		939.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:48 PM	27:36	7.56 pH	12.43 °C	307.13 µS/cm	0.02 mg/L		914.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:49 PM	28:06	7.56 pH	12.43 °C	307.17 µS/cm	0.01 mg/L		912.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:49 PM	28:36	7.56 pH	12.43 °C	307.01 µS/cm	0.01 mg/L		935.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:50 PM	29:06	7.56 pH	12.40 °C	307.09 µS/cm	0.01 mg/L		909.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:50 PM	29:36	7.56 pH	12.40 °C	307.22 µS/cm	0.01 mg/L		933.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:51 PM	30:06	7.56 pH	12.40 °C	307.01 µS/cm	0.01 mg/L		908.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:51 PM	30:36	7.56 pH	12.38 °C	306.78 µS/cm	0.01 mg/L		908.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:52 PM	31:06	7.56 pH	12.33 °C	306.80 µS/cm	0.01 mg/L		931.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:52 PM	31:36	7.56 pH	12.31 °C	306.50 µS/cm	0.01 mg/L		907.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:53 PM	32:06	7.56 pH	12.28 °C	306.88 µS/cm	0.01 mg/L		928.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:53 PM	32:36	7.56 pH	12.28 °C	306.99 µS/cm	0.01 mg/L		904.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:54 PM	33:06	7.55 pH	12.29 °C	307.04 µS/cm	0.00 mg/L		904.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:54 PM	33:36	7.55 pH	12.31 °C	307.13 µS/cm	0.01 mg/L		929.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:55 PM	34:06	7.55 pH	12.31 °C	307.13 µS/cm	0.00 mg/L		903.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:55 PM	34:36	7.55 pH	12.31 °C	307.09 µS/cm	0.00 mg/L		928.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:56 PM	35:06	7.55 pH	12.31 °C	306.94 µS/cm	0.00 mg/L		903.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:56 PM	35:36	7.55 pH	12.31 °C	307.11 µS/cm	0.00 mg/L		900.2 mV	910.00 cm	2,000.0 ml/min

7/27/2023 2:57 PM	36:06	7.55 pH	12.33 °C	307.12 µS/cm	0.00 mg/L		928.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:57 PM	36:36	7.55 pH	12.35 °C	307.08 µS/cm	0.00 mg/L		901.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:58 PM	37:06	7.55 pH	12.35 °C	307.21 µS/cm	0.00 mg/L		924.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:58 PM	37:36	7.55 pH	12.34 °C	306.89 µS/cm	0.00 mg/L		899.7 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:59 PM	38:06	7.55 pH	12.34 °C	306.89 µS/cm	0.00 mg/L		899.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 2:59 PM	38:36	7.55 pH	12.33 °C	306.95 µS/cm	0.00 mg/L		924.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:00 PM	39:06	7.55 pH	12.34 °C	307.03 µS/cm	0.00 mg/L		898.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:00 PM	39:36	7.55 pH	12.35 °C	307.02 µS/cm	0.00 mg/L		920.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:01 PM	40:06	7.55 pH	12.36 °C	307.06 µS/cm	0.00 mg/L		899.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:01 PM	40:36	7.55 pH	12.37 °C	306.92 µS/cm	0.00 mg/L		896.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:02 PM	41:06	7.55 pH	12.38 °C	306.78 µS/cm	0.00 mg/L		923.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:02 PM	41:36	7.55 pH	12.35 °C	306.66 µS/cm	0.00 mg/L		896.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:03 PM	42:06	7.55 pH	12.34 °C	306.72 µS/cm	0.00 mg/L		895.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:03 PM	42:36	7.55 pH	12.32 °C	306.60 µS/cm	0.00 mg/L		921.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:04 PM	43:06	7.55 pH	12.31 °C	306.67 µS/cm	0.00 mg/L		914.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:04 PM	43:36	7.55 pH	12.30 °C	306.73 µS/cm	0.00 mg/L		903.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:05 PM	44:06	7.55 pH	12.27 °C	306.80 µS/cm	0.00 mg/L		899.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:05 PM	44:36	7.55 pH	12.26 °C	306.77 µS/cm	0.00 mg/L		891.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:06 PM	45:06	7.55 pH	12.26 °C	306.90 µS/cm	0.00 mg/L		925.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:06 PM	45:36	7.54 pH	12.29 °C	306.93 µS/cm	0.00 mg/L		893.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:07 PM	46:06	7.54 pH	12.31 °C	307.00 µS/cm	0.00 mg/L		914.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:07 PM	46:36	7.54 pH	12.32 °C	307.18 µS/cm	0.00 mg/L		894.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:08 PM	47:06	7.54 pH	12.31 °C	306.83 µS/cm	0.00 mg/L		891.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:08 PM	47:36	7.54 pH	12.32 °C	307.03 µS/cm	0.00 mg/L		915.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:09 PM	48:06	7.54 pH	12.32 °C	306.87 µS/cm	0.00 mg/L		890.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:09 PM	48:36	7.54 pH	12.32 °C	306.88 µS/cm	0.00 mg/L		916.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:10 PM	49:06	7.54 pH	12.32 °C	306.93 µS/cm	0.00 mg/L		890.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:10 PM	49:36	7.54 pH	12.33 °C	306.79 µS/cm	0.00 mg/L		889.9 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:11 PM	50:06	7.54 pH	12.34 °C	306.84 µS/cm	0.00 mg/L		916.3 mV	910.00 cm	2,000.0 ml/min

7/27/2023 3:11 PM	50:36	7.54 pH	12.31 °C	306.60 µS/cm	0.00 mg/L		906.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:12 PM	51:06	7.54 pH	12.30 °C	306.48 µS/cm	0.00 mg/L		897.0 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:12 PM	51:36	7.54 pH	12.30 °C	306.71 µS/cm	0.00 mg/L		899.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:13 PM	52:06	7.54 pH	12.28 °C	306.67 µS/cm	0.00 mg/L		881.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:13 PM	52:36	7.54 pH	12.29 °C	306.76 µS/cm	0.00 mg/L		912.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:14 PM	53:06	7.54 pH	12.26 °C	306.64 µS/cm	0.00 mg/L		904.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:14 PM	53:36	7.54 pH	12.23 °C	306.69 µS/cm	0.00 mg/L		899.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:15 PM	54:06	7.54 pH	12.21 °C	306.75 µS/cm	0.00 mg/L		889.8 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:15 PM	54:36	7.54 pH	12.22 °C	307.00 µS/cm	0.00 mg/L		889.1 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:16 PM	55:06	7.54 pH	12.23 °C	307.06 µS/cm	-0.01 mg/L		913.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:16 PM	55:36	7.54 pH	12.23 °C	307.02 µS/cm	-0.01 mg/L		901.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:17 PM	56:06	7.54 pH	12.23 °C	306.87 µS/cm	-0.01 mg/L		875.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:17 PM	56:36	7.54 pH	12.21 °C	306.86 µS/cm	-0.01 mg/L		910.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:18 PM	57:06	7.54 pH	12.17 °C	306.69 µS/cm	-0.01 mg/L		887.6 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:18 PM	57:36	7.54 pH	12.17 °C	306.69 µS/cm	-0.01 mg/L		911.5 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:19 PM	58:06	7.54 pH	12.17 °C	306.81 µS/cm	-0.01 mg/L		888.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:19 PM	58:36	7.54 pH	12.17 °C	306.85 µS/cm	-0.01 mg/L		908.2 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:20 PM	59:06	7.54 pH	12.17 °C	307.00 µS/cm	-0.01 mg/L		885.4 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:20 PM	59:36	7.54 pH	12.18 °C	306.89 µS/cm	-0.01 mg/L		883.3 mV	910.00 cm	2,000.0 ml/min
7/27/2023 3:21 PM	01:00:06	7.54 pH	12.17 °C	306.85 µS/cm	-0.01 mg/L		867.7 mV	910.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/28/2023 10:50:09 AM
Project: GCRE 2
Operator Name: KE

Location Name: S2-BH217.1 Well Diameter: 1.9 cm Total Depth: 29.96 m Initial Depth to Water: 17.06 m	Pump Type: Waterra pp1 Estimated Total Volume Pumped: 8016.667 ml Flow Cell Volume: 90 ml Final Flow Rate: 1000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/28/2023 10:50 AM	00:00	8.32 pH	17.86 °C	319.08 µS/cm	6.76 mg/L		395.3 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:50 AM	00:30	8.63 pH	15.75 °C	583.53 µS/cm	3.21 mg/L		561.1 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:51 AM	01:00	8.48 pH	15.21 °C	585.44 µS/cm	1.15 mg/L		667.4 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:51 AM	01:30	8.45 pH	14.58 °C	601.70 µS/cm	0.64 mg/L		751.1 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:51 AM	01:39	8.44 pH	14.50 °C	606.15 µS/cm	0.59 mg/L		804.3 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:52 AM	02:09	8.41 pH	14.04 °C	637.15 µS/cm	0.58 mg/L		881.1 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:52 AM	02:39	8.35 pH	13.63 °C	568.38 µS/cm	0.29 mg/L		838.2 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:53 AM	03:09	8.31 pH	13.19 °C	553.43 µS/cm	0.18 mg/L		856.5 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:53 AM	03:39	8.33 pH	12.99 °C	595.13 µS/cm	0.16 mg/L		855.6 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:54 AM	04:09	8.29 pH	12.11 °C	523.27 µS/cm	0.13 mg/L		865.9 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:54 AM	04:45	8.23 pH	11.65 °C	509.11 µS/cm	0.12 mg/L		958.2 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:55 AM	05:01	8.21 pH	11.50 °C	492.40 µS/cm	0.11 mg/L		985.5 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:55 AM	05:31	8.17 pH	11.33 °C	484.07 µS/cm	0.11 mg/L		997.4 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:56 AM	06:01	8.15 pH	11.21 °C	480.30 µS/cm	0.11 mg/L		881.3 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:56 AM	06:31	8.12 pH	11.16 °C	478.79 µS/cm	0.11 mg/L		884.1 mV	1,706.0 cm	1,000.00 ml/min

7/28/2023 10:57 AM	07:01	8.10 pH	11.11 °C	477.41 µS/cm	0.11 mg/L		885.2 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:57 AM	07:31	8.08 pH	11.09 °C	475.74 µS/cm	0.12 mg/L		888.8 mV	1,706.0 cm	1,000.00 ml/min
7/28/2023 10:58 AM	08:01	8.06 pH	11.06 °C	478.37 µS/cm	0.13 mg/L		887.5 mV	1,706.0 cm	1,000.00 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 01/08/2023 14:37:43
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH222.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 10 m Top of Screen: 15 m Total Depth: 24.71 m Initial Depth to Water: 21.45 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 24000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Light showers

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
01/08/2023 14:37	00:00	7.01 pH	17.67 °C	389.81 µS/cm	3.59 mg/L		-25.4 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:38	00:30	7.20 pH	15.86 °C	474.11 µS/cm	1.78 mg/L		-22.8 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:38	01:00	7.23 pH	14.71 °C	475.58 µS/cm	0.99 mg/L		-18.5 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:39	01:30	7.24 pH	14.06 °C	472.95 µS/cm	0.65 mg/L		-15.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:39	02:00	7.23 pH	13.51 °C	469.70 µS/cm	0.51 mg/L		-13.3 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:40	02:30	7.23 pH	13.20 °C	462.48 µS/cm	0.44 mg/L		-11.7 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:40	03:00	7.22 pH	12.90 °C	455.01 µS/cm	0.39 mg/L		-9.9 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:41	03:30	7.22 pH	12.72 °C	441.26 µS/cm	0.35 mg/L		-8.0 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:41	04:00	7.20 pH	12.61 °C	429.94 µS/cm	0.30 mg/L		-6.2 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:42	04:30	7.19 pH	12.54 °C	424.43 µS/cm	0.27 mg/L		-5.1 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:42	05:00	7.18 pH	12.49 °C	419.09 µS/cm	0.25 mg/L		-3.7 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:43	05:30	7.18 pH	12.44 °C	409.72 µS/cm	0.23 mg/L		-2.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:43	06:00	7.17 pH	12.39 °C	403.73 µS/cm	0.21 mg/L		-1.9 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:44	06:30	7.16 pH	12.39 °C	399.28 µS/cm	0.21 mg/L		-1.3 mV	2,145.0 cm	2,000.0 ml/min

01/08/2023 14:44	07:00	7.15 pH	12.36 °C	391.87 µS/cm	0.19 mg/L		-0.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:45	07:30	7.15 pH	12.36 °C	387.34 µS/cm	0.19 mg/L		-0.3 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:45	08:00	7.14 pH	12.36 °C	381.68 µS/cm	0.18 mg/L		0.3 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:46	08:30	7.14 pH	12.36 °C	375.42 µS/cm	0.17 mg/L		-1.0 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:46	09:00	7.13 pH	12.35 °C	374.22 µS/cm	0.17 mg/L		0.8 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:47	09:30	7.12 pH	12.35 °C	371.03 µS/cm	0.16 mg/L		1.4 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:47	10:00	7.12 pH	12.36 °C	368.23 µS/cm	0.16 mg/L		1.5 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:48	10:30	7.12 pH	12.35 °C	365.91 µS/cm	0.16 mg/L		1.8 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:48	11:00	7.12 pH	12.33 °C	361.63 µS/cm	0.15 mg/L		2.4 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:49	11:30	7.11 pH	12.33 °C	359.73 µS/cm	0.15 mg/L		2.6 mV	2,145.0 cm	2,000.0 ml/min
01/08/2023 14:49	12:00	7.11 pH	12.33 °C	355.08 µS/cm	0.15 mg/L		2.7 mV	2,145.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 02/08/2023 13:57:28
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH225 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 3.9 m Top of Screen: 3 m Total Depth: 5.93 m Initial Depth to Water: 3.83 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 27000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
02/08/2023 13:57	00:00	7.82 pH	13.85 °C	438.65 µS/cm	3.23 mg/L		3.2 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:57	00:30	7.64 pH	13.01 °C	414.78 µS/cm	1.42 mg/L		-15.8 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:58	01:00	7.55 pH	12.40 °C	414.53 µS/cm	0.71 mg/L		-17.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:58	01:30	7.51 pH	12.07 °C	415.20 µS/cm	0.44 mg/L		-16.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:59	02:00	7.49 pH	11.90 °C	417.86 µS/cm	0.33 mg/L		-13.2 mV	383.00 cm	2,000.0 ml/min
02/08/2023 13:59	02:30	7.46 pH	11.80 °C	412.72 µS/cm	0.28 mg/L		-10.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:00	03:00	7.42 pH	11.76 °C	388.38 µS/cm	0.24 mg/L		-11.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:00	03:30	7.36 pH	11.71 °C	355.67 µS/cm	0.21 mg/L		-13.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:01	04:00	7.30 pH	11.68 °C	332.51 µS/cm	0.19 mg/L		-13.4 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:01	04:30	7.26 pH	11.66 °C	313.40 µS/cm	0.17 mg/L		-10.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:02	05:00	7.22 pH	11.66 °C	300.49 µS/cm	0.16 mg/L		-8.3 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:02	05:30	7.19 pH	11.66 °C	294.54 µS/cm	0.15 mg/L		-6.6 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:03	06:00	7.18 pH	11.66 °C	293.76 µS/cm	0.14 mg/L		-5.8 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:03	06:30	7.16 pH	11.68 °C	285.12 µS/cm	0.14 mg/L		-4.7 mV	383.00 cm	2,000.0 ml/min

02/08/2023 14:04	07:00	7.15 pH	11.71 °C	271.00 µS/cm	0.13 mg/L		-3.3 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:04	07:30	7.12 pH	11.75 °C	259.10 µS/cm	0.13 mg/L		-1.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:05	08:00	7.10 pH	11.77 °C	249.53 µS/cm	0.12 mg/L		-0.1 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:05	08:30	7.07 pH	11.80 °C	241.95 µS/cm	0.12 mg/L		1.3 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:06	09:00	7.05 pH	11.84 °C	235.94 µS/cm	0.12 mg/L		2.4 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:06	09:30	7.03 pH	11.91 °C	230.88 µS/cm	0.11 mg/L		3.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:07	10:00	7.02 pH	11.93 °C	226.02 µS/cm	0.11 mg/L		4.2 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:07	10:30	7.01 pH	11.95 °C	221.70 µS/cm	0.11 mg/L		5.1 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:08	11:00	6.99 pH	12.01 °C	217.89 µS/cm	0.10 mg/L		5.8 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:08	11:30	6.97 pH	12.03 °C	214.29 µS/cm	0.10 mg/L		6.4 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:09	12:00	6.97 pH	12.02 °C	211.03 µS/cm	0.10 mg/L		6.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:09	12:30	6.95 pH	12.03 °C	208.22 µS/cm	0.10 mg/L		7.5 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:10	13:00	6.95 pH	12.02 °C	205.44 µS/cm	0.09 mg/L		7.7 mV	383.00 cm	2,000.0 ml/min
02/08/2023 14:10	13:30	6.94 pH	12.02 °C	202.93 µS/cm	0.09 mg/L		7.8 mV	383.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/28/2023 12:13:40 PM
Project: GCRE 2 (4)
Operator Name: KW

Location Name: S2-BH227.1 Well Diameter: 1.9 cm Total Depth: 5 m Initial Depth to Water: 3.1 m	Pump Type: Waterra pp1 Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 90 ml Final Flow Rate: 1000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/28/2023 12:13 PM	00:00	8.28 pH	15.17 °C	283.74 µS/cm	1.09 mg/L		308.9 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:14 PM	00:30	8.23 pH	14.28 °C	287.80 µS/cm	0.44 mg/L		600.7 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:14 PM	01:00	8.18 pH	13.72 °C	291.23 µS/cm	0.19 mg/L		729.5 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:15 PM	01:30	8.14 pH	13.41 °C	294.38 µS/cm	0.12 mg/L		810.0 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:15 PM	02:00	8.10 pH	13.22 °C	296.29 µS/cm	0.09 mg/L		863.6 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:16 PM	02:30	7.93 pH	13.11 °C	297.16 µS/cm	0.08 mg/L		861.6 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:16 PM	03:00	8.03 pH	13.03 °C	297.85 µS/cm	0.07 mg/L		874.0 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:17 PM	03:30	7.98 pH	12.98 °C	298.49 µS/cm	0.06 mg/L		898.9 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:17 PM	04:00	7.84 pH	12.97 °C	298.43 µS/cm	0.05 mg/L		881.5 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:18 PM	04:30	7.86 pH	12.95 °C	298.53 µS/cm	0.05 mg/L		903.4 mV	310.00 cm	1,000.00 ml/min
7/28/2023 12:18 PM	05:00	7.93 pH	12.95 °C	298.03 µS/cm	0.05 mg/L		908.2 mV	310.00 cm	1,000.00 ml/min

Samples

Sample ID:	Description:
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EW1	
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Low-Flow Test Report:

Test Date / Time: 7/26/2023 12:04:20 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH227.2 Well Diameter: 5 cm Screen Length: 6 m Top of Screen: 8 m Total Depth: 14.5 m Initial Depth to Water: 10.67 m	Pump Type: Wasp Estimated Total Volume Pumped: 19000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/26/2023 12:04 PM	00:00	7.99 pH	14.76 °C	286.44 µS/cm	0.23 mg/L		373.6 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:04 PM	00:30	7.95 pH	13.96 °C	290.97 µS/cm	0.15 mg/L		746.6 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:05 PM	01:00	7.91 pH	13.45 °C	292.71 µS/cm	0.12 mg/L		849.4 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:05 PM	01:30	7.88 pH	13.06 °C	293.99 µS/cm	0.10 mg/L		877.6 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:06 PM	02:00	7.85 pH	12.77 °C	294.58 µS/cm	0.09 mg/L		891.8 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:06 PM	02:30	7.82 pH	12.58 °C	295.03 µS/cm	0.08 mg/L		897.9 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:07 PM	03:00	7.80 pH	12.44 °C	295.38 µS/cm	0.08 mg/L		901.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:07 PM	03:30	7.78 pH	12.35 °C	295.71 µS/cm	0.08 mg/L		903.2 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:08 PM	04:00	7.75 pH	12.31 °C	295.88 µS/cm	0.08 mg/L		905.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:08 PM	04:30	7.74 pH	12.27 °C	296.02 µS/cm	0.09 mg/L		904.4 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:09 PM	05:00	7.72 pH	12.26 °C	296.15 µS/cm	0.09 mg/L		905.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:09 PM	05:30	7.70 pH	12.24 °C	296.01 µS/cm	0.08 mg/L		908.4 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:10 PM	06:00	7.69 pH	12.21 °C	295.71 µS/cm	0.08 mg/L		908.1 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:10 PM	06:30	7.67 pH	12.21 °C	295.51 µS/cm	0.07 mg/L		907.0 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:11 PM	07:00	7.66 pH	12.21 °C	295.38 µS/cm	0.07 mg/L		907.0 mV	1,067.0 cm	2,000.0 ml/min

7/26/2023 12:11 PM	07:30	7.65 pH	12.21 °C	295.61 µS/cm	0.06 mg/L		906.5 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:12 PM	08:00	7.64 pH	12.21 °C	296.00 µS/cm	0.06 mg/L		907.7 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:12 PM	08:30	7.63 pH	12.23 °C	296.36 µS/cm	0.06 mg/L		907.7 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:13 PM	09:00	7.62 pH	12.24 °C	296.39 µS/cm	0.05 mg/L		906.5 mV	1,067.0 cm	2,000.0 ml/min
7/26/2023 12:13 PM	09:30	7.61 pH	12.26 °C	296.21 µS/cm	0.05 mg/L		907.6 mV	1,067.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 02/08/2023 12:44:01
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH229.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 6 m Top of Screen: 8 m Total Depth: 13.82 m Initial Depth to Water: 12.08 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 7433.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
02/08/2023 12:44	00:00	7.65 pH	13.76 °C	788.59 µS/cm	5.08 mg/L		31.5 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:44	00:30	7.61 pH	13.14 °C	780.13 µS/cm	3.47 mg/L		23.9 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:45	01:00	7.60 pH	12.80 °C	778.38 µS/cm	2.36 mg/L		20.3 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:45	01:30	7.58 pH	12.63 °C	780.07 µS/cm	1.94 mg/L		18.8 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:46	02:00	7.58 pH	12.58 °C	781.05 µS/cm	1.68 mg/L		17.0 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:46	02:30	7.59 pH	12.50 °C	783.98 µS/cm	1.41 mg/L		14.5 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:47	03:13	7.57 pH	12.52 °C	792.92 µS/cm	1.16 mg/L		20.0 mV	1,208.0 cm	2,000.0 ml/min
02/08/2023 12:47	03:43	7.56 pH	12.53 °C	790.76 µS/cm	1.13 mg/L		16.2 mV	1,208.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 01/08/2023 13:08:00
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH232 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 7 m Top of Screen: 1 m Total Depth: 6.95 m Initial Depth to Water: 4.45 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 18000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
01/08/2023 13:08	00:00	8.88 pH	17.45 °C	53.18 µS/cm	9.05 mg/L		1.7 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:08	00:30	7.38 pH	16.87 °C	257.62 µS/cm	7.91 mg/L		-44.0 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:09	01:00	7.10 pH	16.33 °C	369.18 µS/cm	4.82 mg/L		-42.4 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:09	01:30	7.04 pH	15.70 °C	399.15 µS/cm	2.77 mg/L		-45.6 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:10	02:00	7.03 pH	15.25 °C	409.35 µS/cm	1.78 mg/L		-47.6 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:10	02:30	7.02 pH	14.91 °C	414.16 µS/cm	1.30 mg/L		-49.1 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:11	03:00	7.02 pH	14.67 °C	425.45 µS/cm	1.04 mg/L		-50.1 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:11	03:30	7.02 pH	14.49 °C	417.28 µS/cm	0.87 mg/L		-52.1 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:12	04:00	7.00 pH	14.40 °C	417.99 µS/cm	0.68 mg/L		-53.0 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:12	04:30	7.01 pH	14.33 °C	418.62 µS/cm	0.55 mg/L		-54.2 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:13	05:00	7.00 pH	14.29 °C	419.11 µS/cm	0.46 mg/L		-55.2 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:13	05:30	7.01 pH	14.24 °C	414.35 µS/cm	0.39 mg/L		-55.5 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:14	06:00	7.01 pH	14.18 °C	397.01 µS/cm	0.42 mg/L		-54.4 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:14	06:30	7.02 pH	14.14 °C	382.09 µS/cm	0.52 mg/L		-53.3 mV	445.00 cm	2,000.0 ml/min

01/08/2023 13:15	07:00	7.02 pH	14.16 °C	373.10 µS/cm	0.60 mg/L		-52.4 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:15	07:30	7.02 pH	14.17 °C	369.80 µS/cm	0.63 mg/L		-51.7 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:16	08:00	7.01 pH	14.17 °C	371.79 µS/cm	0.63 mg/L		-51.2 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:16	08:30	7.01 pH	14.14 °C	374.00 µS/cm	0.53 mg/L		-51.3 mV	445.00 cm	2,000.0 ml/min
01/08/2023 13:17	09:00	7.01 pH	14.12 °C	378.74 µS/cm	0.45 mg/L		-52.1 mV	445.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/26/2023 2:39:43 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH237 Well Diameter: 5 cm Total Depth: 25.5 m Initial Depth to Water: 11.9 m	Pump Type: Wasp Estimated Total Volume Pumped: 31000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Heavy rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/26/2023 2:39 PM	00:00	7.50 pH	13.08 °C	344.38 µS/cm	3.28 mg/L		319.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:40 PM	00:30	7.31 pH	12.40 °C	298.94 µS/cm	2.63 mg/L		573.1 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:40 PM	01:00	7.05 pH	12.04 °C	288.37 µS/cm	2.49 mg/L		682.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:41 PM	01:30	6.68 pH	11.88 °C	284.18 µS/cm	2.49 mg/L		787.3 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:41 PM	02:00	6.39 pH	11.78 °C	286.70 µS/cm	2.44 mg/L		871.0 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:42 PM	02:30	6.21 pH	11.75 °C	289.20 µS/cm	2.35 mg/L		929.3 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:42 PM	03:00	6.09 pH	11.75 °C	291.12 µS/cm	2.25 mg/L		961.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:43 PM	03:30	6.00 pH	11.77 °C	293.17 µS/cm	2.12 mg/L		912.0 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:43 PM	04:00	5.94 pH	11.80 °C	294.90 µS/cm	1.98 mg/L		979.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:44 PM	04:30	5.92 pH	11.85 °C	297.09 µS/cm	1.81 mg/L		990.4 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:44 PM	05:00	5.90 pH	11.87 °C	298.05 µS/cm	1.63 mg/L		997.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:45 PM	05:30	5.89 pH	11.91 °C	297.61 µS/cm	1.44 mg/L		1,001.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:45 PM	06:00	5.91 pH	11.96 °C	297.45 µS/cm	1.28 mg/L		1,002.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:46 PM	06:30	5.92 pH	12.01 °C	297.35 µS/cm	1.14 mg/L		1,004.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:46 PM	07:00	5.94 pH	12.04 °C	299.73 µS/cm	1.01 mg/L		1,003.5 mV	1,190.0 cm	2,000.0 ml/min

7/26/2023 2:47 PM	07:30	5.96 pH	12.08 °C	304.66 µS/cm	0.90 mg/L		1,002.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:47 PM	08:00	5.98 pH	12.11 °C	313.53 µS/cm	0.79 mg/L		944.4 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:48 PM	08:30	6.00 pH	12.12 °C	320.07 µS/cm	0.71 mg/L		1,021.6 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:48 PM	09:00	6.01 pH	12.13 °C	329.84 µS/cm	0.63 mg/L		998.3 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:49 PM	09:30	6.03 pH	12.14 °C	340.47 µS/cm	0.55 mg/L		996.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:49 PM	10:00	6.07 pH	12.15 °C	351.50 µS/cm	0.48 mg/L		992.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:50 PM	10:30	6.10 pH	12.16 °C	361.22 µS/cm	0.41 mg/L		991.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:50 PM	11:00	6.12 pH	12.17 °C	370.08 µS/cm	0.36 mg/L		989.1 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:51 PM	11:30	6.14 pH	12.17 °C	378.83 µS/cm	0.32 mg/L		987.7 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:51 PM	12:00	6.16 pH	12.17 °C	387.35 µS/cm	0.28 mg/L		985.0 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:52 PM	12:30	6.18 pH	12.17 °C	395.32 µS/cm	0.25 mg/L		982.8 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:52 PM	13:00	6.20 pH	12.17 °C	403.26 µS/cm	0.23 mg/L		979.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:53 PM	13:30	6.22 pH	12.17 °C	410.00 µS/cm	0.21 mg/L		978.9 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:53 PM	14:00	6.23 pH	12.18 °C	416.16 µS/cm	0.19 mg/L		977.5 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:54 PM	14:30	6.25 pH	12.18 °C	421.79 µS/cm	0.17 mg/L		974.2 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:54 PM	15:00	6.27 pH	12.19 °C	426.53 µS/cm	0.16 mg/L		975.5 mV	1,190.0 cm	2,000.0 ml/min
7/26/2023 2:55 PM	15:30	6.29 pH	12.19 °C	430.47 µS/cm	0.15 mg/L		972.7 mV	1,190.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/25/2023 12:12:41 PM
Project: GCRE 2 (3)
Operator Name: KW

Location Name: S2-BH239.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 2.6 m Top of Screen: 1 m Total Depth: 3.6 m Initial Depth to Water: 1.46 m	Pump Type: Wasp Estimated Total Volume Pumped: 19000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 12:12 PM	00:00	8.23 pH	20.68 °C	1,160.5 µS/cm	5.85 mg/L		416.2 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:13 PM	00:30	8.16 pH	19.34 °C	1,164.9 µS/cm	1.51 mg/L		801.7 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:13 PM	01:00	8.08 pH	18.70 °C	1,186.9 µS/cm	0.75 mg/L		864.0 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:14 PM	01:30	8.02 pH	18.32 °C	1,199.3 µS/cm	0.51 mg/L		902.3 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:14 PM	02:00	7.98 pH	17.94 °C	1,204.0 µS/cm	0.43 mg/L		892.8 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:15 PM	02:30	7.95 pH	17.61 °C	1,210.4 µS/cm	0.39 mg/L		892.0 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:15 PM	03:00	7.92 pH	17.50 °C	1,218.5 µS/cm	0.37 mg/L		894.3 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:16 PM	03:30	7.90 pH	17.56 °C	1,226.0 µS/cm	0.36 mg/L		894.0 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:16 PM	04:00	7.88 pH	17.69 °C	1,229.0 µS/cm	0.35 mg/L		893.3 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:17 PM	04:30	7.87 pH	17.80 °C	1,228.6 µS/cm	0.33 mg/L		890.9 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:17 PM	05:00	7.86 pH	17.86 °C	1,227.1 µS/cm	0.32 mg/L		893.2 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:18 PM	05:30	7.85 pH	17.89 °C	1,225.3 µS/cm	0.31 mg/L		890.1 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:18 PM	06:00	7.84 pH	17.94 °C	1,225.1 µS/cm	0.29 mg/L		891.2 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:19 PM	06:30	7.84 pH	17.95 °C	1,224.2 µS/cm	0.28 mg/L		890.0 mV	146.00 cm	2,000.0 ml/min

7/25/2023 12:19 PM	07:00	7.84 pH	17.88 °C	1,221.4 μS/cm	0.27 mg/L		890.1 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:20 PM	07:30	7.83 pH	17.81 °C	1,220.3 μS/cm	0.27 mg/L		889.1 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:20 PM	08:00	7.83 pH	17.74 °C	1,221.0 μS/cm	0.27 mg/L		889.9 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:21 PM	08:30	7.83 pH	17.73 °C	1,222.9 μS/cm	0.27 mg/L		888.9 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:21 PM	09:00	7.83 pH	17.72 °C	1,221.8 μS/cm	0.26 mg/L		889.5 mV	146.00 cm	2,000.0 ml/min
7/25/2023 12:22 PM	09:30	7.83 pH	17.67 °C	1,221.2 μS/cm	0.26 mg/L		890.7 mV	146.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW4	

Low-Flow Test Report:

Test Date / Time: 7/25/2023 11:52:33 AM
Project: GCRE 2 (2)
Operator Name: KW

Location Name: S2-BH239.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 3 m Top of Screen: 7 m Total Depth: 7.8 m Initial Depth to Water: 1.74 m	Pump Type: Wasp Estimated Total Volume Pumped: 18000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 11:52 AM	00:00	8.08 pH	17.06 °C	1,194.1 µS/cm	0.28 mg/L		326.4 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:53 AM	00:30	8.03 pH	16.90 °C	1,205.8 µS/cm	0.40 mg/L		688.0 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:53 AM	01:00	8.00 pH	16.78 °C	1,211.3 µS/cm	0.18 mg/L		822.6 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:54 AM	01:30	7.97 pH	16.74 °C	1,214.2 µS/cm	0.14 mg/L		865.7 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:54 AM	02:00	7.94 pH	16.76 °C	1,215.8 µS/cm	0.12 mg/L		880.6 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:55 AM	02:30	7.92 pH	16.82 °C	1,215.0 µS/cm	0.11 mg/L		889.4 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:55 AM	03:00	7.91 pH	16.91 °C	1,220.0 µS/cm	0.11 mg/L		892.3 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:56 AM	03:30	7.89 pH	16.97 °C	1,221.0 µS/cm	0.10 mg/L		892.2 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:56 AM	04:00	7.88 pH	17.04 °C	1,220.0 µS/cm	0.10 mg/L		893.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:57 AM	04:30	7.88 pH	17.08 °C	1,220.2 µS/cm	0.10 mg/L		891.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:57 AM	05:00	7.87 pH	17.11 °C	1,220.0 µS/cm	0.10 mg/L		890.9 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:58 AM	05:30	7.86 pH	17.15 °C	1,220.1 µS/cm	0.09 mg/L		892.1 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:58 AM	06:00	7.86 pH	17.17 °C	1,219.8 µS/cm	0.09 mg/L		890.6 mV	174.00 cm	2,000.0 ml/min
7/25/2023 11:59 AM	06:30	7.85 pH	17.19 °C	1,219.4 µS/cm	0.09 mg/L		888.7 mV	174.00 cm	2,000.0 ml/min

7/25/2023 11:59 AM	07:00	7.85 pH	17.19 °C	1,219.6 µS/cm	0.08 mg/L		890.4 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:00 PM	07:30	7.85 pH	17.14 °C	1,217.8 µS/cm	0.08 mg/L		887.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:00 PM	08:00	7.84 pH	17.11 °C	1,218.4 µS/cm	0.08 mg/L		886.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:01 PM	08:30	7.84 pH	17.11 °C	1,218.2 µS/cm	0.08 mg/L		901.5 mV	174.00 cm	2,000.0 ml/min
7/25/2023 12:01 PM	09:00	7.84 pH	17.10 °C	1,217.5 µS/cm	0.08 mg/L		886.5 mV	174.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Low-Flow Test Report:

Test Date / Time: 7/25/2023 9:51:08 AM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH240 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 5 m Top of Screen: 1 m Total Depth: 5.16 m Initial Depth to Water: 1.55 m	Pump Type: Wasp Estimated Total Volume Pumped: 28000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Windy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 9:51 AM	00:00	8.09 pH	17.13 °C	1,167.5 µS/cm	5.12 mg/L		387.1 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:51 AM	00:30	7.99 pH	16.11 °C	1,246.5 µS/cm	1.13 mg/L		642.6 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:52 AM	01:00	7.95 pH	15.40 °C	1,266.3 µS/cm	0.34 mg/L		748.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:52 AM	01:30	7.94 pH	14.92 °C	1,277.8 µS/cm	0.23 mg/L		793.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:53 AM	02:00	7.94 pH	14.63 °C	1,281.5 µS/cm	0.18 mg/L		808.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:53 AM	02:30	7.94 pH	14.48 °C	1,283.3 µS/cm	0.14 mg/L		816.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:54 AM	03:00	7.94 pH	14.42 °C	1,285.0 µS/cm	0.12 mg/L		823.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:54 AM	03:30	7.95 pH	14.40 °C	1,286.6 µS/cm	0.12 mg/L		824.8 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:55 AM	04:00	7.95 pH	14.40 °C	1,287.9 µS/cm	0.11 mg/L		827.7 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:55 AM	04:30	7.96 pH	14.42 °C	1,289.9 µS/cm	0.10 mg/L		826.5 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:56 AM	05:00	7.97 pH	14.43 °C	1,291.2 µS/cm	0.09 mg/L		826.5 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:56 AM	05:30	7.97 pH	14.45 °C	1,292.3 µS/cm	0.09 mg/L		828.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:57 AM	06:00	7.98 pH	14.49 °C	1,293.6 µS/cm	0.08 mg/L		825.7 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:57 AM	06:30	7.99 pH	14.53 °C	1,294.1 µS/cm	0.08 mg/L		826.4 mV	155.00 cm	2,000.0 ml/min

7/25/2023 9:58 AM	07:00	7.99 pH	14.55 °C	1,293.0 µS/cm	0.07 mg/L		827.5 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:58 AM	07:30	8.00 pH	14.56 °C	1,290.6 µS/cm	0.07 mg/L		825.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:59 AM	08:00	8.00 pH	14.58 °C	1,290.3 µS/cm	0.06 mg/L		824.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 9:59 AM	08:30	8.70 pH	14.63 °C	9.59 µS/cm	2.36 mg/L		950.8 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:00 AM	09:00	8.03 pH	14.73 °C	2.90 µS/cm	5.18 mg/L		1,046.4 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:00 AM	09:30	8.06 pH	14.70 °C	1,285.9 µS/cm	3.56 mg/L		854.6 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:01 AM	10:00	8.04 pH	14.56 °C	1,287.0 µS/cm	0.72 mg/L		843.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:01 AM	10:30	8.04 pH	14.40 °C	1,289.1 µS/cm	0.19 mg/L		851.1 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:02 AM	11:00	8.04 pH	14.30 °C	1,289.2 µS/cm	0.09 mg/L		845.4 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:02 AM	11:30	8.05 pH	14.22 °C	1,288.1 µS/cm	0.07 mg/L		840.1 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:03 AM	12:00	8.05 pH	14.14 °C	1,284.0 µS/cm	0.06 mg/L		837.9 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:03 AM	12:30	8.05 pH	14.11 °C	1,279.8 µS/cm	0.05 mg/L		885.6 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:04 AM	13:00	8.06 pH	14.11 °C	1,277.5 µS/cm	0.05 mg/L		841.0 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:04 AM	13:30	8.06 pH	14.10 °C	1,277.2 µS/cm	0.04 mg/L		836.7 mV	155.00 cm	2,000.0 ml/min
7/25/2023 10:05 AM	14:00	8.06 pH	14.07 °C	1,277.2 µS/cm	0.03 mg/L		834.9 mV	155.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/07/2023 10:22:25
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH242 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 2.7 m Top of Screen: 1 m Total Depth: 3.79 m Initial Depth to Water: 1.88 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 41000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 10:22	00:00	7.81 pH	14.47 °C	731.46 µS/cm	5.18 mg/L		-47.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:22	00:30	7.81 pH	14.22 °C	704.30 µS/cm	1.73 mg/L		-51.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:23	01:00	7.83 pH	14.30 °C	677.48 µS/cm	0.74 mg/L		-62.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:23	01:30	7.84 pH	14.53 °C	672.38 µS/cm	0.42 mg/L		-70.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:24	02:00	7.84 pH	14.73 °C	669.81 µS/cm	0.31 mg/L		-72.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:24	02:30	7.83 pH	14.93 °C	667.26 µS/cm	0.28 mg/L		-72.6 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:25	03:00	7.82 pH	15.06 °C	665.78 µS/cm	0.25 mg/L		-73.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:25	03:30	7.82 pH	15.19 °C	659.58 µS/cm	0.24 mg/L		-109.0 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:26	04:00	7.81 pH	15.23 °C	654.42 µS/cm	0.24 mg/L		-77.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:26	04:30	7.81 pH	15.27 °C	653.09 µS/cm	0.24 mg/L		-75.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:27	05:00	7.81 pH	15.38 °C	649.17 µS/cm	0.24 mg/L		-111.0 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:27	05:30	7.81 pH	15.48 °C	650.17 µS/cm	0.24 mg/L		-83.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:28	06:00	7.81 pH	15.55 °C	649.58 µS/cm	0.24 mg/L		-118.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:28	06:30	7.81 pH	15.57 °C	645.82 µS/cm	0.23 mg/L		-89.7 mV	188.00 cm	2,000.0 ml/min

25/07/2023 10:29	07:00	7.82 pH	15.50 °C	643.95 µS/cm	0.21 mg/L		-90.6 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:29	07:30	7.82 pH	15.52 °C	643.44 µS/cm	0.20 mg/L		-93.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:30	08:00	7.82 pH	15.52 °C	642.97 µS/cm	0.19 mg/L		-94.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:30	08:30	7.82 pH	15.48 °C	643.27 µS/cm	0.18 mg/L		-129.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:31	09:00	7.81 pH	15.48 °C	645.95 µS/cm	0.17 mg/L		-99.0 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:31	09:30	7.81 pH	15.51 °C	648.85 µS/cm	0.18 mg/L		-95.9 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:32	10:00	7.80 pH	15.52 °C	651.95 µS/cm	0.18 mg/L		-128.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:32	10:30	7.80 pH	15.52 °C	652.00 µS/cm	0.18 mg/L		-97.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:33	11:00	7.79 pH	15.48 °C	653.35 µS/cm	0.18 mg/L		-127.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:33	11:30	7.79 pH	15.46 °C	654.84 µS/cm	0.18 mg/L		-96.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:34	12:00	7.78 pH	15.51 °C	657.43 µS/cm	0.17 mg/L		-93.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:34	12:30	7.78 pH	15.51 °C	656.05 µS/cm	0.16 mg/L		-125.4 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:35	13:00	7.78 pH	15.45 °C	656.55 µS/cm	0.15 mg/L		-94.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:35	13:30	7.78 pH	15.42 °C	653.83 µS/cm	0.13 mg/L		-92.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:36	14:00	7.78 pH	15.45 °C	652.43 µS/cm	0.12 mg/L		-125.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:36	14:30	7.78 pH	15.52 °C	651.33 µS/cm	0.12 mg/L		-95.8 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:37	15:00	7.78 pH	15.52 °C	650.29 µS/cm	0.11 mg/L		-93.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:37	15:30	7.77 pH	15.52 °C	648.22 µS/cm	0.12 mg/L		-125.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:38	16:00	7.77 pH	15.50 °C	648.27 µS/cm	0.13 mg/L		-95.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:38	16:30	7.77 pH	15.54 °C	648.19 µS/cm	0.13 mg/L		-92.7 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:39	17:00	7.77 pH	15.57 °C	646.33 µS/cm	0.14 mg/L		-124.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:39	17:30	7.76 pH	15.53 °C	645.81 µS/cm	0.15 mg/L		-93.5 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:40	18:00	7.76 pH	15.48 °C	645.23 µS/cm	0.18 mg/L		-122.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:40	18:30	7.75 pH	15.45 °C	644.71 µS/cm	0.21 mg/L		-91.1 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:41	19:00	7.75 pH	15.40 °C	644.53 µS/cm	0.25 mg/L		-86.9 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:41	19:30	7.75 pH	15.35 °C	643.87 µS/cm	0.30 mg/L		-85.3 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:42	20:00	7.74 pH	15.34 °C	644.04 µS/cm	0.35 mg/L		-84.2 mV	188.00 cm	2,000.0 ml/min
25/07/2023 10:42	20:30	7.74 pH	15.33 °C	642.69 µS/cm	0.38 mg/L		-83.1 mV	188.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/07/2023 09:35:32
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH243.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 1 m Top of Screen: 5 m Total Depth: 5.93 m Initial Depth to Water: 3.18 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 09:35	00:00	7.57 pH	13.12 °C	522.45 µS/cm	6.92 mg/L		4.3 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:36	00:30	7.54 pH	12.70 °C	546.14 µS/cm	3.77 mg/L		2.6 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:36	01:00	7.52 pH	12.44 °C	557.34 µS/cm	2.64 mg/L		7.8 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:37	01:30	7.50 pH	12.29 °C	565.51 µS/cm	2.09 mg/L		11.3 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:37	02:00	7.48 pH	12.21 °C	569.19 µS/cm	1.77 mg/L		13.4 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:38	02:30	7.45 pH	12.18 °C	570.20 µS/cm	1.56 mg/L		14.4 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:38	03:00	7.43 pH	12.17 °C	571.18 µS/cm	1.42 mg/L		14.6 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:39	03:30	7.42 pH	12.16 °C	571.05 µS/cm	1.35 mg/L		14.5 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:39	04:00	7.41 pH	12.16 °C	561.62 µS/cm	1.38 mg/L		21.8 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:40	04:30	7.40 pH	12.20 °C	563.46 µS/cm	1.44 mg/L		15.5 mV	318.00 cm	2,000.0 ml/min
25/07/2023 09:40	05:00	7.40 pH	12.21 °C	571.68 µS/cm	1.51 mg/L		14.4 mV	318.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
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EW2	
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Low-Flow Test Report:

Test Date / Time: 7/24/2023 11:40:57 AM
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH244.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 5.5 m Top of Screen: 4.5 m Total Depth: 9.25 m Initial Depth to Water: 2.9 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Overcast

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/24/2023 11:40 AM	00:00	7.89 pH	13.45 °C	619.65 µS/cm	7.41 mg/L		586.0 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:41 AM	00:30	7.91 pH	13.05 °C	637.07 µS/cm	3.55 mg/L		711.7 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:41 AM	01:00	7.90 pH	12.80 °C	633.24 µS/cm	2.20 mg/L		788.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:42 AM	01:30	7.89 pH	12.68 °C	633.75 µS/cm	1.93 mg/L		841.3 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:42 AM	02:00	7.88 pH	12.59 °C	632.20 µS/cm	1.90 mg/L		870.4 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:43 AM	02:30	7.86 pH	12.55 °C	632.26 µS/cm	1.95 mg/L		888.5 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:43 AM	03:00	7.85 pH	12.54 °C	634.27 µS/cm	2.00 mg/L		899.0 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:44 AM	03:30	7.84 pH	12.58 °C	637.04 µS/cm	2.05 mg/L		902.8 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:44 AM	04:00	7.83 pH	12.60 °C	640.52 µS/cm	2.09 mg/L		904.2 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:45 AM	04:30	7.82 pH	12.63 °C	642.60 µS/cm	2.12 mg/L		906.3 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:45 AM	05:00	7.81 pH	12.67 °C	644.36 µS/cm	2.13 mg/L		906.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:46 AM	05:30	7.80 pH	12.67 °C	646.10 µS/cm	2.14 mg/L		909.3 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:46 AM	06:00	7.80 pH	12.67 °C	648.70 µS/cm	2.16 mg/L		909.2 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:47 AM	06:30	7.79 pH	12.64 °C	651.10 µS/cm	2.15 mg/L		910.9 mV	290.00 cm	2,000.0 ml/min

7/24/2023 11:47 AM	07:00	7.79 pH	12.60 °C	653.40 µS/cm	2.13 mg/L		909.7 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:48 AM	07:30	7.78 pH	12.54 °C	655.45 µS/cm	2.10 mg/L		911.0 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:48 AM	08:00	7.78 pH	12.51 °C	657.31 µS/cm	2.09 mg/L		912.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:49 AM	08:30	7.78 pH	12.48 °C	657.95 µS/cm	2.08 mg/L		911.1 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:49 AM	09:00	7.78 pH	12.44 °C	658.61 µS/cm	2.07 mg/L		910.8 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:50 AM	09:30	7.77 pH	12.41 °C	659.13 µS/cm	2.05 mg/L		910.7 mV	290.00 cm	2,000.0 ml/min
7/24/2023 11:50 AM	10:00	7.77 pH	12.40 °C	659.29 µS/cm	2.06 mg/L		912.7 mV	290.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 24/07/2023 14:32:52
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH246.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 4.5 m Top of Screen: 3.5 m Total Depth: 7.86 m Initial Depth to Water: 3.08 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Overcast

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/07/2023 14:32	00:00	7.69 pH	19.05 °C	605.95 µS/cm	7.40 mg/L		32.6 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:33	00:30	7.37 pH	17.94 °C	725.98 µS/cm	4.76 mg/L		19.7 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:33	01:00	7.33 pH	17.11 °C	738.67 µS/cm	4.32 mg/L		20.4 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:34	01:30	7.32 pH	16.27 °C	748.41 µS/cm	4.48 mg/L		21.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:34	02:00	7.32 pH	15.59 °C	753.26 µS/cm	4.61 mg/L		20.4 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:35	02:30	7.31 pH	15.20 °C	756.66 µS/cm	4.66 mg/L		20.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:35	03:00	7.31 pH	14.89 °C	760.05 µS/cm	4.66 mg/L		19.8 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:36	03:30	7.30 pH	14.69 °C	757.44 µS/cm	4.62 mg/L		19.8 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:36	04:00	7.30 pH	14.51 °C	761.01 µS/cm	4.56 mg/L		19.5 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:37	04:30	7.30 pH	14.35 °C	760.64 µS/cm	4.49 mg/L		19.2 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:37	05:00	7.29 pH	14.23 °C	760.81 µS/cm	4.48 mg/L		19.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:38	05:30	7.29 pH	14.16 °C	761.46 µS/cm	4.52 mg/L		18.9 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:38	06:00	7.29 pH	14.12 °C	760.23 µS/cm	4.56 mg/L		18.9 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:39	06:30	7.28 pH	14.08 °C	759.29 µS/cm	4.60 mg/L		19.0 mV	308.00 cm	2,000.0 ml/min

24/07/2023 14:39	07:00	7.28 pH	14.04 °C	757.59 µS/cm	4.61 mg/L		19.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:40	07:30	7.28 pH	13.99 °C	757.14 µS/cm	4.61 mg/L		18.8 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:40	08:00	7.28 pH	14.00 °C	757.52 µS/cm	4.61 mg/L		18.5 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:41	08:30	7.28 pH	13.94 °C	759.21 µS/cm	4.61 mg/L		17.9 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:41	09:00	7.28 pH	13.88 °C	759.81 µS/cm	4.61 mg/L		18.3 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:42	09:30	7.28 pH	13.85 °C	760.10 µS/cm	4.61 mg/L		18.0 mV	308.00 cm	2,000.0 ml/min
24/07/2023 14:42	10:00	7.28 pH	13.81 °C	760.94 µS/cm	4.61 mg/L		18.4 mV	308.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/25/2023 2:55:41 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH248.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 3 m Top of Screen: 6.5 m Total Depth: 9.26 m Initial Depth to Water: 6.1 m	Pump Type: Wasp Estimated Total Volume Pumped: 18000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/25/2023 2:55 PM	00:00	8.34 pH	23.21 °C	750.51 µS/cm	3.02 mg/L		492.8 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:56 PM	00:30	8.19 pH	20.53 °C	775.89 µS/cm	0.68 mg/L		900.5 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:56 PM	01:00	8.12 pH	18.66 °C	791.30 µS/cm	0.20 mg/L		931.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:57 PM	01:30	8.07 pH	17.10 °C	809.07 µS/cm	0.11 mg/L		932.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:57 PM	02:00	8.04 pH	16.08 °C	823.11 µS/cm	0.08 mg/L		934.7 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:58 PM	02:30	8.02 pH	15.39 °C	835.66 µS/cm	0.07 mg/L		937.0 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:58 PM	03:00	8.01 pH	14.96 °C	848.38 µS/cm	0.07 mg/L		939.5 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:59 PM	03:30	8.00 pH	14.69 °C	861.13 µS/cm	0.07 mg/L		942.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 2:59 PM	04:00	7.98 pH	14.52 °C	871.37 µS/cm	0.07 mg/L		945.6 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:00 PM	04:30	7.96 pH	14.41 °C	879.27 µS/cm	0.07 mg/L		950.3 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:00 PM	05:00	7.95 pH	14.31 °C	883.35 µS/cm	0.07 mg/L		953.8 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:01 PM	05:30	7.93 pH	14.27 °C	887.64 µS/cm	0.06 mg/L		956.9 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:01 PM	06:00	7.91 pH	14.22 °C	889.91 µS/cm	0.06 mg/L		957.8 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:02 PM	06:30	7.89 pH	14.19 °C	893.73 µS/cm	0.06 mg/L		958.9 mV	610.00 cm	2,000.0 ml/min

7/25/2023 3:02 PM	07:00	7.87 pH	14.18 °C	896.60 µS/cm	0.06 mg/L		961.0 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:03 PM	07:30	7.86 pH	14.15 °C	899.29 µS/cm	0.06 mg/L		962.7 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:03 PM	08:00	7.84 pH	14.16 °C	901.30 µS/cm	0.06 mg/L		960.9 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:04 PM	08:30	7.83 pH	14.17 °C	902.25 µS/cm	0.06 mg/L		962.1 mV	610.00 cm	2,000.0 ml/min
7/25/2023 3:04 PM	09:00	7.81 pH	14.18 °C	901.81 µS/cm	0.05 mg/L		961.7 mV	610.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 7/24/2023 2:41:19 PM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH249.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 4.5 m Top of Screen: 3.5 m Total Depth: 7.65 m Initial Depth to Water: 3.76 m	Pump Type: Wasp Estimated Total Volume Pumped: 23000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/24/2023 2:41 PM	00:00	8.07 pH	19.42 °C	819.01 µS/cm	8.07 mg/L		486.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:41 PM	00:30	8.10 pH	17.63 °C	896.99 µS/cm	6.50 mg/L		849.0 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:42 PM	01:00	7.99 pH	16.43 °C	901.76 µS/cm	3.68 mg/L		894.7 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:42 PM	01:30	7.91 pH	15.57 °C	918.10 µS/cm	2.95 mg/L		911.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:43 PM	02:00	7.86 pH	14.87 °C	930.03 µS/cm	2.89 mg/L		923.0 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:43 PM	02:30	7.82 pH	14.40 °C	938.19 µS/cm	2.93 mg/L		925.6 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:44 PM	03:00	7.78 pH	13.98 °C	934.15 µS/cm	2.96 mg/L		931.6 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:44 PM	03:30	7.75 pH	13.81 °C	937.05 µS/cm	2.96 mg/L		934.6 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:45 PM	04:00	7.73 pH	13.70 °C	940.01 µS/cm	2.96 mg/L		935.4 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:45 PM	04:30	7.71 pH	13.61 °C	939.56 µS/cm	2.96 mg/L		942.7 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:46 PM	05:00	7.70 pH	13.55 °C	938.65 µS/cm	2.97 mg/L		939.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:46 PM	05:30	7.68 pH	13.52 °C	938.30 µS/cm	2.97 mg/L		940.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:47 PM	06:00	7.67 pH	13.51 °C	938.45 µS/cm	2.98 mg/L		941.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:47 PM	06:30	7.66 pH	13.49 °C	937.03 µS/cm	2.98 mg/L		944.4 mV	376.00 cm	2,000.0 ml/min

7/24/2023 2:48 PM	07:00	7.65 pH	13.40 °C	941.69 µS/cm	2.99 mg/L		942.3 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:48 PM	07:30	7.64 pH	13.36 °C	943.47 µS/cm	2.99 mg/L		948.0 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:49 PM	08:00	7.64 pH	13.27 °C	942.96 µS/cm	2.99 mg/L		942.9 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:49 PM	08:30	7.63 pH	13.20 °C	942.05 µS/cm	2.98 mg/L		944.4 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:50 PM	09:00	7.63 pH	13.13 °C	940.80 µS/cm	2.97 mg/L		943.1 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:50 PM	09:30	7.63 pH	13.07 °C	939.72 µS/cm	2.96 mg/L		944.4 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:51 PM	10:00	7.62 pH	13.02 °C	940.00 µS/cm	2.96 mg/L		942.5 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:51 PM	10:30	7.62 pH	12.98 °C	939.98 µS/cm	2.97 mg/L		943.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:52 PM	11:00	7.62 pH	12.95 °C	939.79 µS/cm	2.95 mg/L		942.8 mV	376.00 cm	2,000.0 ml/min
7/24/2023 2:52 PM	11:30	7.62 pH	12.91 °C	939.82 µS/cm	2.93 mg/L		941.6 mV	376.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
15	

Low-Flow Test Report:

Test Date / Time: 7/26/2023 10:33:02 AM
Project: GCRE 2
Operator Name: KW

Location Name: S2-BH250.1 Well Diameter: 5 cm Screen Length: 2 m Top of Screen: 7.5 m Total Depth: 9.3 m Initial Depth to Water: 3.23 m	Pump Type: Wasp Estimated Total Volume Pumped: 18000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
7/26/2023 10:33 AM	00:00	8.16 pH	14.64 °C	599.71 µS/cm	5.64 mg/L		401.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:33 AM	00:30	8.14 pH	13.86 °C	601.58 µS/cm	3.68 mg/L		639.0 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:34 AM	01:00	8.10 pH	13.27 °C	606.02 µS/cm	3.24 mg/L		771.5 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:34 AM	01:30	8.07 pH	12.90 °C	608.61 µS/cm	3.13 mg/L		840.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:35 AM	02:00	8.04 pH	12.58 °C	609.86 µS/cm	3.08 mg/L		872.0 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:35 AM	02:30	8.00 pH	12.40 °C	610.83 µS/cm	3.02 mg/L		888.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:36 AM	03:00	7.97 pH	12.26 °C	613.22 µS/cm	3.00 mg/L		896.9 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:36 AM	03:30	7.95 pH	12.21 °C	614.56 µS/cm	2.99 mg/L		904.9 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:37 AM	04:00	7.92 pH	12.17 °C	616.15 µS/cm	3.00 mg/L		907.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:37 AM	04:30	7.91 pH	12.13 °C	617.68 µS/cm	3.02 mg/L		911.7 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:38 AM	05:00	7.89 pH	12.12 °C	618.85 µS/cm	3.06 mg/L		913.0 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:38 AM	05:30	7.88 pH	12.13 °C	620.03 µS/cm	3.09 mg/L		910.4 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:39 AM	06:00	7.88 pH	12.13 °C	621.02 µS/cm	3.14 mg/L		910.7 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:39 AM	06:30	7.87 pH	12.14 °C	621.93 µS/cm	3.19 mg/L		913.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:40 AM	07:00	7.87 pH	12.16 °C	622.87 µS/cm	3.23 mg/L		910.2 mV	323.00 cm	2,000.0 ml/min

7/26/2023 10:40 AM	07:30	7.86 pH	12.16 °C	623.70 µS/cm	3.28 mg/L		909.9 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:41 AM	08:00	7.86 pH	12.17 °C	623.84 µS/cm	3.30 mg/L		912.6 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:41 AM	08:30	7.86 pH	12.17 °C	624.31 µS/cm	3.33 mg/L		909.8 mV	323.00 cm	2,000.0 ml/min
7/26/2023 10:42 AM	09:00	7.86 pH	12.17 °C	624.33 µS/cm	3.34 mg/L		909.8 mV	323.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/07/2023 12:21:35
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH252.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 3 m Top of Screen: 6 m Total Depth: 8.87 m Initial Depth to Water: 4.07 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 35000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 12:21	00:00	8.03 pH	20.65 °C	584.68 µS/cm	7.72 mg/L		22.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:22	00:30	7.79 pH	17.77 °C	440.59 µS/cm	5.44 mg/L		24.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:22	01:00	7.70 pH	16.02 °C	437.84 µS/cm	4.48 mg/L		24.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:23	01:30	7.65 pH	14.78 °C	443.23 µS/cm	4.25 mg/L		23.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:23	02:00	7.63 pH	13.89 °C	447.45 µS/cm	4.22 mg/L		21.4 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:24	02:30	7.61 pH	13.22 °C	434.31 µS/cm	4.25 mg/L		21.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:24	03:00	7.58 pH	12.76 °C	437.14 µS/cm	4.27 mg/L		22.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:25	03:30	7.56 pH	12.42 °C	437.62 µS/cm	4.27 mg/L		22.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:25	04:00	7.55 pH	12.20 °C	441.86 µS/cm	4.25 mg/L		21.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:26	04:30	7.56 pH	12.02 °C	451.67 µS/cm	4.21 mg/L		21.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:26	05:00	7.57 pH	11.85 °C	458.93 µS/cm	4.18 mg/L		20.6 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:27	05:30	7.58 pH	11.73 °C	457.15 µS/cm	4.15 mg/L		20.4 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:27	06:00	7.57 pH	11.62 °C	451.41 µS/cm	4.12 mg/L		20.3 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:28	06:30	7.55 pH	11.54 °C	444.49 µS/cm	4.10 mg/L		20.5 mV	407.00 cm	2,000.0 ml/min

25/07/2023 12:28	07:00	7.53 pH	11.46 °C	438.16 µS/cm	4.08 mg/L		20.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:29	07:30	7.51 pH	11.38 °C	435.52 µS/cm	4.05 mg/L		21.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:29	08:00	7.50 pH	11.33 °C	432.33 µS/cm	4.02 mg/L		21.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:30	08:30	7.48 pH	11.29 °C	422.83 µS/cm	3.98 mg/L		34.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:30	09:00	7.47 pH	11.24 °C	420.11 µS/cm	3.95 mg/L		24.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:31	09:30	7.46 pH	11.21 °C	416.56 µS/cm	3.93 mg/L		37.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:31	10:00	7.45 pH	11.18 °C	414.85 µS/cm	3.90 mg/L		25.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:32	10:30	7.44 pH	11.14 °C	411.79 µS/cm	3.88 mg/L		38.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:32	11:00	7.43 pH	11.12 °C	410.56 µS/cm	3.85 mg/L		26.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:33	11:30	7.42 pH	11.11 °C	413.72 µS/cm	3.83 mg/L		23.6 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:33	12:00	7.41 pH	11.10 °C	410.96 µS/cm	3.81 mg/L		22.6 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:34	12:30	7.41 pH	11.10 °C	408.83 µS/cm	3.79 mg/L		22.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:34	13:00	7.40 pH	11.08 °C	400.50 µS/cm	3.77 mg/L		34.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:35	13:30	7.39 pH	11.07 °C	399.24 µS/cm	3.76 mg/L		24.9 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:35	14:00	7.38 pH	11.07 °C	403.83 µS/cm	3.75 mg/L		23.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:36	14:30	7.38 pH	11.07 °C	402.40 µS/cm	3.74 mg/L		22.2 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:36	15:00	7.37 pH	11.06 °C	394.85 µS/cm	3.73 mg/L		34.5 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:37	15:30	7.37 pH	11.03 °C	393.54 µS/cm	3.72 mg/L		24.8 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:37	16:00	7.36 pH	11.01 °C	398.91 µS/cm	3.71 mg/L		23.0 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:38	16:30	7.36 pH	11.01 °C	397.88 µS/cm	3.71 mg/L		22.1 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:38	17:00	7.35 pH	11.01 °C	397.14 µS/cm	3.70 mg/L		21.7 mV	407.00 cm	2,000.0 ml/min
25/07/2023 12:39	17:30	7.35 pH	10.99 °C	396.21 µS/cm	3.69 mg/L		21.4 mV	407.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 26/07/2023 10:26:58
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH261.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 5 m Top of Screen: 10 m Total Depth: 14.08 m Initial Depth to Water: 9.2 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 120000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
26/07/2023 10:26	00:00	7.87 pH	14.62 °C	446.05 µS/cm	8.02 mg/L		27.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:27	00:30	7.38 pH	14.49 °C	725.24 µS/cm	5.24 mg/L		-31.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:27	01:00	7.34 pH	14.42 °C	728.19 µS/cm	3.85 mg/L		-33.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:28	01:30	7.32 pH	14.34 °C	724.02 µS/cm	3.05 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:28	02:00	7.31 pH	14.28 °C	724.16 µS/cm	2.52 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:29	02:30	7.30 pH	14.24 °C	723.22 µS/cm	3.96 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:29	03:00	7.30 pH	14.22 °C	718.34 µS/cm	4.73 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:30	03:30	7.29 pH	14.22 °C	715.74 µS/cm	5.28 mg/L		-33.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:30	04:00	7.29 pH	14.20 °C	714.98 µS/cm	5.58 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:31	04:30	7.29 pH	14.20 °C	707.56 µS/cm	5.74 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:31	05:00	7.28 pH	14.21 °C	705.28 µS/cm	5.86 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:32	05:30	7.28 pH	14.21 °C	704.57 µS/cm	5.90 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:32	06:00	7.28 pH	14.22 °C	703.84 µS/cm	5.86 mg/L		-33.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:33	06:30	7.28 pH	14.22 °C	694.43 µS/cm	5.81 mg/L		-51.4 mV	920.00 cm	2,000.0 ml/min

26/07/2023 10:33	07:00	7.28 pH	14.22 °C	693.61 µS/cm	5.70 mg/L		-36.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:34	07:30	7.28 pH	14.23 °C	693.38 µS/cm	5.61 mg/L		-34.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:34	08:00	7.27 pH	14.24 °C	686.49 µS/cm	5.56 mg/L		-52.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:35	08:30	7.27 pH	14.24 °C	685.65 µS/cm	5.56 mg/L		-36.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:35	09:00	7.27 pH	14.24 °C	683.97 µS/cm	5.58 mg/L		-53.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:36	09:30	7.27 pH	14.25 °C	681.75 µS/cm	5.56 mg/L		-36.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:36	10:00	7.28 pH	14.25 °C	683.93 µS/cm	5.51 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:37	10:30	7.27 pH	14.25 °C	677.73 µS/cm	5.50 mg/L		-52.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:37	11:00	7.27 pH	14.26 °C	674.47 µS/cm	5.50 mg/L		-36.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:38	11:30	7.27 pH	14.26 °C	677.59 µS/cm	5.51 mg/L		-34.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:38	12:00	7.27 pH	14.26 °C	672.28 µS/cm	5.48 mg/L		-52.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:39	12:30	7.27 pH	14.26 °C	671.93 µS/cm	5.43 mg/L		-36.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:39	13:00	7.26 pH	14.26 °C	675.00 µS/cm	5.42 mg/L		-34.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:40	13:30	7.26 pH	14.26 °C	674.39 µS/cm	5.41 mg/L		-33.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:40	14:00	7.26 pH	14.26 °C	673.96 µS/cm	5.43 mg/L		-33.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:41	14:30	7.26 pH	14.26 °C	669.12 µS/cm	5.44 mg/L		-50.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:41	15:00	7.26 pH	14.26 °C	669.09 µS/cm	5.47 mg/L		-35.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:42	15:30	7.25 pH	14.26 °C	672.43 µS/cm	5.50 mg/L		-33.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:42	16:00	7.25 pH	14.26 °C	667.80 µS/cm	5.50 mg/L		-51.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:43	16:30	7.25 pH	14.27 °C	667.73 µS/cm	5.47 mg/L		-35.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:43	17:00	7.25 pH	14.26 °C	667.02 µS/cm	5.46 mg/L		-51.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:44	17:30	7.25 pH	14.27 °C	666.94 µS/cm	5.45 mg/L		-36.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:44	18:00	7.25 pH	14.28 °C	670.42 µS/cm	5.42 mg/L		-33.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:45	18:30	7.25 pH	14.28 °C	665.56 µS/cm	5.40 mg/L		-51.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:45	19:00	7.25 pH	14.30 °C	665.25 µS/cm	5.38 mg/L		-35.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:46	19:30	7.24 pH	14.30 °C	664.67 µS/cm	5.36 mg/L		-51.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:46	20:00	7.24 pH	14.30 °C	664.75 µS/cm	5.36 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:47	20:30	7.24 pH	14.30 °C	663.77 µS/cm	5.34 mg/L		-51.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:47	21:00	7.24 pH	14.29 °C	663.88 µS/cm	5.31 mg/L		-35.8 mV	920.00 cm	2,000.0 ml/min

26/07/2023 10:48	21:30	7.24 pH	14.29 °C	667.46 µS/cm	5.28 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:48	22:00	7.24 pH	14.27 °C	663.05 µS/cm	5.26 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:49	22:30	7.24 pH	14.29 °C	663.61 µS/cm	5.23 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:49	23:00	7.24 pH	14.29 °C	662.61 µS/cm	5.22 mg/L		-51.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:50	23:30	7.23 pH	14.28 °C	663.33 µS/cm	5.22 mg/L		-35.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:50	24:00	7.23 pH	14.26 °C	663.35 µS/cm	5.20 mg/L		-51.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:51	24:30	7.23 pH	14.25 °C	663.55 µS/cm	5.19 mg/L		-35.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:51	25:00	7.23 pH	14.23 °C	666.62 µS/cm	5.19 mg/L		-33.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:52	25:30	7.23 pH	14.22 °C	662.85 µS/cm	5.18 mg/L		-50.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:52	26:00	7.23 pH	14.22 °C	662.74 µS/cm	5.16 mg/L		-35.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:53	26:30	7.23 pH	14.21 °C	665.93 µS/cm	5.14 mg/L		-33.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:53	27:00	7.23 pH	14.19 °C	661.72 µS/cm	5.12 mg/L		-49.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:54	27:30	7.23 pH	14.18 °C	661.56 µS/cm	5.10 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:54	28:00	7.23 pH	14.17 °C	664.72 µS/cm	5.10 mg/L		-32.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:55	28:30	7.23 pH	14.17 °C	664.52 µS/cm	5.09 mg/L		-32.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:55	29:00	7.23 pH	14.17 °C	660.14 µS/cm	5.08 mg/L		-49.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:56	29:30	7.23 pH	14.17 °C	660.16 µS/cm	5.08 mg/L		-34.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:56	30:00	7.23 pH	14.17 °C	659.40 µS/cm	5.06 mg/L		-50.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:57	30:30	7.23 pH	14.17 °C	659.49 µS/cm	5.05 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:57	31:00	7.23 pH	14.17 °C	662.65 µS/cm	5.04 mg/L		-32.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:58	31:30	7.23 pH	14.17 °C	658.72 µS/cm	5.03 mg/L		-49.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:58	32:00	7.23 pH	14.17 °C	659.08 µS/cm	5.01 mg/L		-34.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:59	32:30	7.23 pH	14.17 °C	658.47 µS/cm	5.01 mg/L		-50.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 10:59	33:00	7.23 pH	14.17 °C	658.54 µS/cm	5.00 mg/L		-35.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:00	33:30	7.23 pH	14.17 °C	658.03 µS/cm	4.99 mg/L		-50.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:00	34:00	7.23 pH	14.18 °C	658.07 µS/cm	4.98 mg/L		-35.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:01	34:30	7.23 pH	14.18 °C	657.64 µS/cm	4.99 mg/L		-50.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:01	35:00	7.23 pH	14.20 °C	657.57 µS/cm	4.98 mg/L		-35.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:02	35:30	7.23 pH	14.20 °C	656.96 µS/cm	4.95 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min

26/07/2023 11:02	36:00	7.23 pH	14.22 °C	657.13 µS/cm	4.94 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:03	36:30	7.23 pH	14.22 °C	661.23 µS/cm	4.93 mg/L		-33.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:03	37:00	7.23 pH	14.21 °C	657.92 µS/cm	4.92 mg/L		-49.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:04	37:30	7.23 pH	14.22 °C	657.97 µS/cm	4.92 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:04	38:00	7.23 pH	14.23 °C	657.39 µS/cm	4.92 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:05	38:30	7.23 pH	14.24 °C	657.32 µS/cm	4.92 mg/L		-35.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:05	39:00	7.23 pH	14.24 °C	657.17 µS/cm	4.94 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:06	39:30	7.23 pH	14.26 °C	656.99 µS/cm	4.96 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:06	40:00	7.23 pH	14.26 °C	656.27 µS/cm	4.97 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:07	40:30	7.23 pH	14.26 °C	656.30 µS/cm	4.98 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:07	41:00	7.23 pH	14.26 °C	655.93 µS/cm	4.99 mg/L		-50.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:08	41:30	7.22 pH	14.28 °C	655.76 µS/cm	5.00 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:08	42:00	7.22 pH	14.28 °C	655.37 µS/cm	4.99 mg/L		-33.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:09	42:30	7.22 pH	14.29 °C	658.44 µS/cm	4.99 mg/L		-32.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:09	43:00	7.22 pH	14.29 °C	654.80 µS/cm	4.97 mg/L		-49.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:10	43:30	7.22 pH	14.30 °C	654.73 µS/cm	4.96 mg/L		-34.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:10	44:00	7.22 pH	14.30 °C	654.66 µS/cm	4.98 mg/L		-50.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:11	44:30	7.22 pH	14.31 °C	654.62 µS/cm	4.97 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:11	45:00	7.22 pH	14.31 °C	654.09 µS/cm	4.97 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:12	45:30	7.22 pH	14.30 °C	656.62 µS/cm	4.98 mg/L		-34.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:12	46:00	7.22 pH	14.31 °C	653.91 µS/cm	4.97 mg/L		-33.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:13	46:30	7.22 pH	14.30 °C	655.63 µS/cm	4.97 mg/L		-32.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:13	47:00	7.22 pH	14.31 °C	656.65 µS/cm	4.97 mg/L		-31.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:14	47:30	7.22 pH	14.31 °C	653.22 µS/cm	4.97 mg/L		-48.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:14	48:00	7.22 pH	14.31 °C	653.21 µS/cm	4.96 mg/L		-34.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:15	48:30	7.22 pH	14.31 °C	652.85 µS/cm	4.97 mg/L		-49.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:15	49:00	7.22 pH	14.32 °C	652.75 µS/cm	4.96 mg/L		-34.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:16	49:30	7.22 pH	14.32 °C	655.67 µS/cm	4.96 mg/L		-32.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:16	50:00	7.22 pH	14.32 °C	652.29 µS/cm	4.96 mg/L		-49.4 mV	920.00 cm	2,000.0 ml/min

26/07/2023 11:17	50:30	7.22 pH	14.33 °C	653.71 µS/cm	4.96 mg/L		-34.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:17	51:00	7.22 pH	14.34 °C	653.31 µS/cm	4.96 mg/L		-50.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:18	51:30	7.22 pH	14.35 °C	653.44 µS/cm	4.96 mg/L		-35.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:18	52:00	7.22 pH	14.35 °C	653.53 µS/cm	4.96 mg/L		-50.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:19	52:30	7.22 pH	14.37 °C	653.59 µS/cm	4.95 mg/L		-35.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:19	53:00	7.22 pH	14.40 °C	653.12 µS/cm	4.95 mg/L		-50.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:20	53:30	7.22 pH	14.40 °C	653.32 µS/cm	4.96 mg/L		-35.2 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:20	54:00	7.22 pH	14.41 °C	652.83 µS/cm	4.95 mg/L		-50.7 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:21	54:30	7.22 pH	14.43 °C	652.68 µS/cm	4.94 mg/L		-35.3 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:21	55:00	7.22 pH	14.42 °C	652.13 µS/cm	4.94 mg/L		-50.8 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:22	55:30	7.22 pH	14.43 °C	651.95 µS/cm	4.94 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:22	56:00	7.22 pH	14.42 °C	651.83 µS/cm	4.94 mg/L		-50.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:23	56:30	7.22 pH	14.41 °C	651.79 µS/cm	4.94 mg/L		-35.4 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:23	57:00	7.22 pH	14.41 °C	654.65 µS/cm	4.94 mg/L		-33.0 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:24	57:30	7.22 pH	14.40 °C	654.54 µS/cm	4.93 mg/L		-32.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:24	58:00	7.22 pH	14.40 °C	654.50 µS/cm	4.93 mg/L		-32.1 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:25	58:30	7.22 pH	14.40 °C	650.98 µS/cm	4.91 mg/L		-48.9 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:25	59:00	7.22 pH	14.40 °C	651.10 µS/cm	4.90 mg/L		-34.5 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:26	59:30	7.22 pH	14.37 °C	653.96 µS/cm	4.91 mg/L		-32.6 mV	920.00 cm	2,000.0 ml/min
26/07/2023 11:26	01:00:00	7.22 pH	14.35 °C	653.94 µS/cm	4.90 mg/L		-32.1 mV	920.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/07/2023 15:41:41
Project: GCRE 2
Operator Name: JP

Location Name: S2-BH261.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 5 m Top of Screen: 3 m Total Depth: 7.7 m Initial Depth to Water: 4.46 m	Pump Type: Wasp Pump Estimated Total Volume Pumped: 120000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Weather Conditions:
Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/07/2023 15:41	00:00	7.98 pH	21.66 °C	431.59 µS/cm	8.05 mg/L		44.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:42	00:30	7.65 pH	19.45 °C	420.51 µS/cm	7.24 mg/L		41.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:42	01:00	7.50 pH	18.21 °C	423.09 µS/cm	7.07 mg/L		40.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:43	01:30	7.42 pH	17.27 °C	427.07 µS/cm	7.11 mg/L		39.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:43	02:00	7.38 pH	16.74 °C	430.54 µS/cm	7.16 mg/L		38.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:44	02:30	7.35 pH	16.31 °C	432.44 µS/cm	7.21 mg/L		38.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:44	03:00	7.34 pH	15.98 °C	434.22 µS/cm	7.23 mg/L		37.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:45	03:30	7.32 pH	15.75 °C	435.19 µS/cm	7.25 mg/L		36.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:45	04:00	7.31 pH	15.54 °C	435.27 µS/cm	7.26 mg/L		36.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:46	04:30	7.30 pH	15.42 °C	436.17 µS/cm	7.27 mg/L		35.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:46	05:00	7.29 pH	15.30 °C	428.67 µS/cm	7.28 mg/L		57.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:47	05:30	7.29 pH	15.21 °C	429.02 µS/cm	7.29 mg/L		40.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:47	06:00	7.28 pH	15.12 °C	428.24 µS/cm	7.28 mg/L		60.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:48	06:30	7.28 pH	15.03 °C	428.62 µS/cm	7.29 mg/L		40.9 mV	446.00 cm	2,000.0 ml/min

25/07/2023 15:48	07:00	7.27 pH	14.97 °C	428.73 µS/cm	7.30 mg/L		37.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:49	07:30	7.27 pH	14.93 °C	435.96 µS/cm	7.29 mg/L		35.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:49	08:00	7.27 pH	14.89 °C	428.50 µS/cm	7.29 mg/L		55.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:50	08:30	7.26 pH	14.86 °C	429.15 µS/cm	7.30 mg/L		38.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:50	09:00	7.26 pH	14.87 °C	437.16 µS/cm	7.31 mg/L		35.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:51	09:30	7.26 pH	14.90 °C	429.46 µS/cm	7.31 mg/L		55.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:51	10:00	7.26 pH	14.92 °C	429.87 µS/cm	7.31 mg/L		38.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:52	10:30	7.26 pH	14.94 °C	437.08 µS/cm	7.31 mg/L		35.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:52	11:00	7.25 pH	14.94 °C	429.59 µS/cm	7.32 mg/L		54.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:53	11:30	7.25 pH	14.96 °C	430.05 µS/cm	7.31 mg/L		37.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:53	12:00	7.25 pH	14.97 °C	429.66 µS/cm	7.32 mg/L		56.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:54	12:30	7.25 pH	14.98 °C	429.96 µS/cm	7.31 mg/L		38.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:54	13:00	7.25 pH	14.95 °C	429.36 µS/cm	7.31 mg/L		56.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:55	13:30	7.25 pH	14.94 °C	429.73 µS/cm	7.31 mg/L		38.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:55	14:00	7.25 pH	14.91 °C	428.54 µS/cm	7.31 mg/L		56.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:56	14:30	7.25 pH	14.89 °C	430.08 µS/cm	7.31 mg/L		38.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:56	15:00	7.25 pH	14.85 °C	429.17 µS/cm	7.30 mg/L		55.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:57	15:30	7.25 pH	14.83 °C	429.47 µS/cm	7.30 mg/L		38.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:57	16:00	7.25 pH	14.81 °C	429.24 µS/cm	7.31 mg/L		55.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:58	16:30	7.24 pH	14.84 °C	429.98 µS/cm	7.31 mg/L		37.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:58	17:00	7.24 pH	14.85 °C	429.51 µS/cm	7.31 mg/L		55.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:59	17:30	7.24 pH	14.85 °C	430.01 µS/cm	7.31 mg/L		37.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 15:59	18:00	7.24 pH	14.88 °C	437.79 µS/cm	7.31 mg/L		34.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:00	18:30	7.24 pH	14.89 °C	429.48 µS/cm	7.31 mg/L		52.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:00	19:00	7.24 pH	14.88 °C	429.89 µS/cm	7.30 mg/L		37.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:01	19:30	7.24 pH	14.86 °C	437.45 µS/cm	7.30 mg/L		34.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:01	20:00	7.24 pH	14.85 °C	437.13 µS/cm	7.30 mg/L		32.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:02	20:30	7.24 pH	14.84 °C	436.77 µS/cm	7.30 mg/L		32.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:02	21:00	7.24 pH	14.81 °C	429.20 µS/cm	7.30 mg/L		49.8 mV	446.00 cm	2,000.0 ml/min

25/07/2023 16:03	21:30	7.24 pH	14.80 °C	429.65 µS/cm	7.30 mg/L		35.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:03	22:00	7.24 pH	14.76 °C	429.10 µS/cm	7.30 mg/L		52.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:04	22:30	7.24 pH	14.75 °C	428.85 µS/cm	7.30 mg/L		59.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:04	23:00	7.24 pH	14.72 °C	429.54 µS/cm	7.30 mg/L		38.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:05	23:30	7.24 pH	14.72 °C	436.93 µS/cm	7.30 mg/L		35.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:05	24:00	7.24 pH	14.69 °C	429.06 µS/cm	7.30 mg/L		52.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:06	24:30	7.24 pH	14.67 °C	429.26 µS/cm	7.30 mg/L		36.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:06	25:00	7.24 pH	14.67 °C	428.65 µS/cm	7.30 mg/L		53.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:07	25:30	7.23 pH	14.66 °C	429.04 µS/cm	7.29 mg/L		37.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:07	26:00	7.24 pH	14.64 °C	436.98 µS/cm	7.30 mg/L		33.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:08	26:30	7.23 pH	14.62 °C	428.80 µS/cm	7.30 mg/L		51.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:08	27:00	7.23 pH	14.62 °C	429.26 µS/cm	7.30 mg/L		35.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:09	27:30	7.23 pH	14.62 °C	428.80 µS/cm	7.30 mg/L		52.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:09	28:00	7.23 pH	14.63 °C	429.71 µS/cm	7.31 mg/L		36.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:10	28:30	7.23 pH	14.66 °C	437.75 µS/cm	7.31 mg/L		33.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:10	29:00	7.23 pH	14.70 °C	429.52 µS/cm	7.31 mg/L		50.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:11	29:30	7.23 pH	14.74 °C	430.17 µS/cm	7.31 mg/L		35.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:11	30:00	7.23 pH	14.76 °C	429.26 µS/cm	7.31 mg/L		51.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:12	30:30	7.23 pH	14.79 °C	430.02 µS/cm	7.31 mg/L		35.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:12	31:00	7.23 pH	14.82 °C	438.09 µS/cm	7.31 mg/L		33.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:13	31:30	7.23 pH	14.85 °C	429.60 µS/cm	7.31 mg/L		49.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:13	32:00	7.23 pH	14.87 °C	430.25 µS/cm	7.31 mg/L		35.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:14	32:30	7.23 pH	14.90 °C	430.14 µS/cm	7.31 mg/L		32.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:14	33:00	7.23 pH	14.87 °C	437.57 µS/cm	7.29 mg/L		31.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:15	33:30	7.23 pH	14.87 °C	429.37 µS/cm	7.30 mg/L		48.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:15	34:00	7.23 pH	14.89 °C	429.86 µS/cm	7.30 mg/L		34.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:16	34:30	7.23 pH	14.89 °C	429.48 µS/cm	7.30 mg/L		50.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:16	35:00	7.23 pH	14.91 °C	429.92 µS/cm	7.30 mg/L		35.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:17	35:30	7.23 pH	14.92 °C	429.12 µS/cm	7.29 mg/L		51.4 mV	446.00 cm	2,000.0 ml/min

25/07/2023 16:17	36:00	7.23 pH	14.87 °C	429.55 µS/cm	7.29 mg/L		35.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:18	36:30	7.23 pH	14.85 °C	437.51 µS/cm	7.29 mg/L		32.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:18	37:00	7.23 pH	14.89 °C	429.30 µS/cm	7.30 mg/L		49.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:19	37:30	7.23 pH	14.90 °C	430.14 µS/cm	7.30 mg/L		34.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:19	38:00	7.23 pH	14.89 °C	429.21 µS/cm	7.29 mg/L		51.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:20	38:30	7.23 pH	14.85 °C	429.72 µS/cm	7.28 mg/L		35.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:20	39:00	7.23 pH	14.83 °C	428.77 µS/cm	7.29 mg/L		51.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:21	39:30	7.23 pH	14.81 °C	429.54 µS/cm	7.29 mg/L		35.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:21	40:00	7.23 pH	14.83 °C	437.87 µS/cm	7.29 mg/L		32.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:22	40:30	7.22 pH	14.85 °C	429.29 µS/cm	7.30 mg/L		49.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:22	41:00	7.23 pH	14.79 °C	429.42 µS/cm	7.28 mg/L		34.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:23	41:30	7.23 pH	14.76 °C	428.74 µS/cm	7.29 mg/L		50.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:23	42:00	7.23 pH	14.73 °C	429.39 µS/cm	7.29 mg/L		34.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:24	42:30	7.23 pH	14.72 °C	428.90 µS/cm	7.29 mg/L		50.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:24	43:00	7.23 pH	14.70 °C	429.37 µS/cm	7.29 mg/L		34.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:25	43:30	7.23 pH	14.67 °C	428.94 µS/cm	7.29 mg/L		50.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:25	44:00	7.23 pH	14.67 °C	429.57 µS/cm	7.29 mg/L		35.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:26	44:30	7.22 pH	14.66 °C	428.77 µS/cm	7.29 mg/L		50.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:26	45:00	7.23 pH	14.64 °C	429.36 µS/cm	7.29 mg/L		35.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:27	45:30	7.23 pH	14.62 °C	428.80 µS/cm	7.29 mg/L		50.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:27	46:00	7.23 pH	14.62 °C	429.42 µS/cm	7.29 mg/L		34.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:28	46:30	7.22 pH	14.60 °C	428.94 µS/cm	7.29 mg/L		50.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:28	47:00	7.22 pH	14.60 °C	429.45 µS/cm	7.29 mg/L		34.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:29	47:30	7.22 pH	14.59 °C	437.81 µS/cm	7.29 mg/L		32.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:29	48:00	7.22 pH	14.58 °C	429.05 µS/cm	7.30 mg/L		47.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:30	48:30	7.22 pH	14.62 °C	430.05 µS/cm	7.30 mg/L		33.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:30	49:00	7.22 pH	14.67 °C	429.23 µS/cm	7.29 mg/L		48.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:31	49:30	7.22 pH	14.67 °C	429.85 µS/cm	7.30 mg/L		34.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:31	50:00	7.22 pH	14.67 °C	429.17 µS/cm	7.30 mg/L		49.3 mV	446.00 cm	2,000.0 ml/min

25/07/2023 16:32	50:30	7.22 pH	14.68 °C	429.76 µS/cm	7.30 mg/L		34.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:32	51:00	7.22 pH	14.71 °C	429.21 µS/cm	7.30 mg/L		49.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:33	51:30	7.22 pH	14.74 °C	429.80 µS/cm	7.30 mg/L		34.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:33	52:00	7.22 pH	14.76 °C	438.00 µS/cm	7.30 mg/L		31.7 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:34	52:30	7.22 pH	14.77 °C	429.31 µS/cm	7.30 mg/L		47.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:34	53:00	7.22 pH	14.80 °C	429.67 µS/cm	7.30 mg/L		33.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:35	53:30	7.22 pH	14.80 °C	429.17 µS/cm	7.29 mg/L		48.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:35	54:00	7.22 pH	14.81 °C	429.72 µS/cm	7.30 mg/L		33.9 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:36	54:30	7.22 pH	14.83 °C	438.05 µS/cm	7.29 mg/L		31.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:36	55:00	7.22 pH	14.84 °C	429.69 µS/cm	7.29 mg/L		30.0 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:37	55:30	7.22 pH	14.85 °C	438.02 µS/cm	7.28 mg/L		29.8 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:37	56:00	7.22 pH	14.85 °C	429.21 µS/cm	7.29 mg/L		45.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:38	56:30	7.22 pH	14.86 °C	429.82 µS/cm	7.30 mg/L		32.4 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:38	57:00	7.22 pH	14.86 °C	429.13 µS/cm	7.29 mg/L		47.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:39	57:30	7.22 pH	14.87 °C	429.78 µS/cm	7.29 mg/L		33.2 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:39	58:00	7.22 pH	14.87 °C	429.06 µS/cm	7.29 mg/L		48.1 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:40	58:30	7.22 pH	14.87 °C	429.88 µS/cm	7.29 mg/L		33.5 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:40	59:00	7.22 pH	14.87 °C	429.08 µS/cm	7.29 mg/L		48.3 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:41	59:30	7.22 pH	14.88 °C	429.56 µS/cm	7.29 mg/L		33.6 mV	446.00 cm	2,000.0 ml/min
25/07/2023 16:41	01:00:00	7.22 pH	14.87 °C	437.94 µS/cm	7.29 mg/L		31.2 mV	446.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW1	

Low-Flow Test Report:

Test Date / Time: 8/29/2023 1:40:39 PM
Project: GCRE 3
Operator Name: KW

Location Name: S1-BH118 Well Diameter: 5 cm Total Depth: 15 m Initial Depth to Water: 7.13 m	Pump Type: Wasp Estimated Total Volume Pumped: 12000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/29/2023 1:40 PM	00:00	7.00 pH	12.76 °C	496.48 µS/cm	1.32 mg/L		604.6 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:41 PM	00:30	6.99 pH	12.36 °C	493.61 µS/cm	0.46 mg/L		1,081.7 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:41 PM	01:00	6.72 pH	12.10 °C	486.81 µS/cm	0.22 mg/L		1,129.1 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:42 PM	01:30	6.58 pH	11.88 °C	470.15 µS/cm	0.15 mg/L		1,131.8 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:42 PM	02:00	6.47 pH	11.75 °C	452.51 µS/cm	0.12 mg/L		1,128.4 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:43 PM	02:30	6.37 pH	11.66 °C	433.77 µS/cm	0.11 mg/L		1,128.8 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:43 PM	03:00	6.37 pH	11.62 °C	418.08 µS/cm	0.10 mg/L		1,130.0 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:44 PM	03:30	6.31 pH	11.60 °C	405.93 µS/cm	0.09 mg/L		1,133.0 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:44 PM	04:00	6.29 pH	11.58 °C	397.67 µS/cm	0.08 mg/L		1,133.2 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:45 PM	04:30	6.29 pH	11.58 °C	391.96 µS/cm	0.08 mg/L		1,137.4 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:45 PM	05:00	6.24 pH	11.58 °C	388.05 µS/cm	0.07 mg/L		1,132.4 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:46 PM	05:30	6.23 pH	11.61 °C	386.12 µS/cm	0.07 mg/L		1,136.8 mV	713.00 cm	2,000.0 ml/min
8/29/2023 1:46 PM	06:00	6.23 pH	11.62 °C	384.96 µS/cm	0.07 mg/L		1,140.5 mV	713.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Low-Flow Test Report:

Test Date / Time: 8/29/2023 1:03:06 PM
Project: GCRE 3
Operator Name: KW

Location Name: S1-BH119.1 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 7 m Top of Screen: 8 m Total Depth: 15 m Initial Depth to Water: 8 m	Pump Type: Wasp Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/29/2023 1:03 PM	00:00	7.14 pH	12.23 °C	405.81 µS/cm	0.81 mg/L		749.6 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:03 PM	00:30	7.09 pH	11.85 °C	402.26 µS/cm	0.25 mg/L		1,108.3 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:04 PM	01:00	6.93 pH	11.66 °C	397.09 µS/cm	0.14 mg/L		1,143.2 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:04 PM	01:30	6.80 pH	11.57 °C	393.59 µS/cm	0.10 mg/L		1,151.2 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:05 PM	02:00	6.70 pH	11.49 °C	389.17 µS/cm	0.09 mg/L		1,152.2 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:05 PM	02:30	6.63 pH	11.43 °C	385.81 µS/cm	0.07 mg/L		1,152.5 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:06 PM	03:00	6.58 pH	11.41 °C	383.71 µS/cm	0.07 mg/L		1,150.7 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:06 PM	03:30	6.54 pH	11.39 °C	382.63 µS/cm	0.06 mg/L		1,148.8 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:07 PM	04:00	6.51 pH	11.38 °C	382.07 µS/cm	0.05 mg/L		1,148.5 mV	800.00 cm	2,000.0 ml/min
8/29/2023 1:07 PM	04:30	6.48 pH	11.38 °C	381.86 µS/cm	0.05 mg/L		1,147.5 mV	800.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
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EW3	
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Low-Flow Test Report:

Test Date / Time: 8/29/2023 2:20:50 PM
Project: GCRE 3
Operator Name: KW

Location Name: S1-BH120 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 8 m Top of Screen: 12 m Total Depth: 20.54 m Initial Depth to Water: 9.1 m	Pump Type: Wasp Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/29/2023 2:20 PM	00:00	7.02 pH	13.59 °C	295.40 µS/cm	2.19 mg/L		643.7 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:21 PM	00:30	7.05 pH	13.01 °C	310.09 µS/cm	0.74 mg/L		1,112.4 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:21 PM	01:00	6.90 pH	12.55 °C	317.91 µS/cm	0.27 mg/L		1,147.4 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:22 PM	01:30	6.73 pH	12.35 °C	322.79 µS/cm	0.17 mg/L		1,151.3 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:22 PM	02:00	6.61 pH	12.17 °C	325.61 µS/cm	0.13 mg/L		1,148.6 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:23 PM	02:30	6.54 pH	12.05 °C	327.75 µS/cm	0.11 mg/L		1,143.1 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:23 PM	03:00	6.50 pH	11.99 °C	328.23 µS/cm	0.10 mg/L		1,139.4 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:24 PM	03:30	6.48 pH	11.97 °C	326.28 µS/cm	0.09 mg/L		1,138.7 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:24 PM	04:00	6.47 pH	11.95 °C	323.05 µS/cm	0.09 mg/L		1,139.2 mV	910.00 cm	2,000.0 ml/min
8/29/2023 2:25 PM	04:30	6.44 pH	11.98 °C	319.46 µS/cm	0.08 mg/L		1,137.0 mV	910.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
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EW3	
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Low-Flow Test Report:

Test Date / Time: 9/4/2023 2:12:29 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH217.1 Well Diameter: 1.9 cm Total Depth: 29.96 m Initial Depth to Water: 16.42 m	Pump Type: Waterra Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 1000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Dry

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
9/4/2023 2:12 PM	00:00	6.64 pH	22.09 °C	636.30 µS/cm	3.72 mg/L		821.4 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:12 PM	00:30	6.77 pH	18.95 °C	639.74 µS/cm	2.06 mg/L		1,161.2 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:13 PM	01:00	6.69 pH	17.41 °C	657.56 µS/cm	1.89 mg/L		1,179.8 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:13 PM	01:30	6.60 pH	16.69 °C	662.81 µS/cm	1.84 mg/L		1,186.1 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:14 PM	02:00	6.52 pH	16.13 °C	665.99 µS/cm	1.74 mg/L		1,188.9 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:14 PM	02:30	6.46 pH	15.84 °C	672.66 µS/cm	1.69 mg/L		1,190.9 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:15 PM	03:00	6.43 pH	15.75 °C	678.51 µS/cm	1.73 mg/L		1,191.9 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:15 PM	03:30	6.39 pH	15.66 °C	683.55 µS/cm	1.80 mg/L		1,192.7 mV	1,642.0 cm	1,000.00 ml/min
9/4/2023 2:16 PM	04:00	6.36 pH	15.65 °C	688.48 µS/cm	1.86 mg/L		1,193.2 mV	1,642.0 cm	1,000.00 ml/min

Samples

Sample ID:	Description:
Ew3	

Low-Flow Test Report:

Test Date / Time: 8/31/2023 1:04:36 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH229 Well Diameter: 5 cm Total Depth: 14.2 m Initial Depth to Water: 12.4 m	Pump Type: Wasp Estimated Total Volume Pumped: 7000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Heavy rain

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/31/2023 1:04 PM	00:00	5.99 pH	12.54 °C	763.63 µS/cm	0.77 mg/L		726.4 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:05 PM	00:30	6.38 pH	12.19 °C	761.00 µS/cm	0.39 mg/L		1,142.2 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:05 PM	01:00	6.30 pH	11.94 °C	761.20 µS/cm	0.32 mg/L		1,174.6 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:06 PM	01:30	6.27 pH	11.79 °C	759.48 µS/cm	0.39 mg/L		1,183.9 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:06 PM	02:00	6.24 pH	11.71 °C	758.77 µS/cm	0.50 mg/L		1,188.3 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:07 PM	02:30	6.20 pH	11.66 °C	760.07 µS/cm	0.53 mg/L		1,190.6 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:07 PM	03:00	6.16 pH	11.63 °C	763.85 µS/cm	0.47 mg/L		1,191.2 mV	1,240.0 cm	2,000.0 ml/min
8/31/2023 1:08 PM	03:30	6.15 pH	11.64 °C	768.24 µS/cm	0.38 mg/L		1,191.8 mV	1,240.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 25/08/2023 13:52:52
Project: GCRE-S2-BH237
Operator Name:

Location Name: BH237 Initial Depth to Water: 12.47 m	Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/08/2023 13:52	00:00	7.97 pH	15.92 °C	920.54 µS/cm	8.45 mg/L		5.5 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:53	00:30	7.72 pH	15.52 °C	601.54 µS/cm	5.41 mg/L		-12.4 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:53	01:00	6.76 pH	14.13 °C	313.94 µS/cm	1.86 mg/L		-20.3 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:54	01:30	6.60 pH	13.40 °C	300.77 µS/cm	0.67 mg/L		-11.2 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:54	02:00	6.46 pH	12.67 °C	275.58 µS/cm	0.36 mg/L		4.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:55	02:30	6.40 pH	12.22 °C	271.23 µS/cm	0.26 mg/L		12.7 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:55	03:00	6.38 pH	11.97 °C	270.25 µS/cm	0.22 mg/L		18.8 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:56	03:30	6.34 pH	11.84 °C	259.70 µS/cm	0.20 mg/L		22.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:56	04:00	6.29 pH	11.75 °C	249.96 µS/cm	0.19 mg/L		27.0 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:57	04:30	6.26 pH	11.73 °C	244.53 µS/cm	0.18 mg/L		29.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:57	05:00	6.24 pH	11.71 °C	243.77 µS/cm	0.17 mg/L		42.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:58	05:30	6.22 pH	11.73 °C	243.98 µS/cm	0.17 mg/L		34.4 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:58	06:00	6.21 pH	11.75 °C	245.86 µS/cm	0.16 mg/L		34.8 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:59	06:30	6.21 pH	11.78 °C	248.06 µS/cm	0.16 mg/L		34.8 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 13:59	07:00	6.21 pH	11.81 °C	249.05 µS/cm	0.16 mg/L		34.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 14:00	07:30	6.21 pH	11.84 °C	248.67 µS/cm	0.15 mg/L		34.9 mV	1,247.0 cm	2,000.0 ml/min
25/08/2023 14:00	08:00	6.20 pH	11.84 °C	248.40 µS/cm	0.15 mg/L		35.5 mV	1,247.0 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH237	

Low-Flow Test Report:

Test Date / Time: 22/08/2023 15:27:56
Project: GCRE-S2-BH239#1
Operator Name:

Location Name: BH239#1 Initial Depth to Water: 1.37 m	Estimated Total Volume Pumped: 22000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 15:27	00:00	7.53 pH	15.90 °C	1,035.4 µS/cm	1.96 mg/L		-50.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:28	00:30	7.47 pH	15.68 °C	1,045.1 µS/cm	0.84 mg/L		-39.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:28	01:00	7.45 pH	15.57 °C	1,050.4 µS/cm	0.44 mg/L		-37.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:29	01:30	7.44 pH	15.48 °C	1,047.9 µS/cm	0.31 mg/L		-36.6 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:29	02:00	7.43 pH	15.43 °C	1,043.9 µS/cm	0.27 mg/L		-36.3 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:30	02:30	7.42 pH	15.39 °C	1,042.3 µS/cm	0.25 mg/L		-35.5 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:30	03:00	7.41 pH	15.39 °C	1,041.4 µS/cm	0.24 mg/L		-34.7 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:31	03:30	7.41 pH	15.39 °C	1,040.5 µS/cm	0.23 mg/L		-34.1 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:31	04:00	7.41 pH	15.39 °C	1,039.5 µS/cm	0.22 mg/L		-33.3 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:32	04:30	7.41 pH	15.39 °C	1,038.6 µS/cm	0.22 mg/L		-32.4 mV	137.00 cm	2,000.0 ml/min
22/08/2023 15:32	05:00	7.40 pH	15.39 °C	1,037.5 µS/cm	0.21 mg/L		-31.5 mV	137.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH239#1	

Low-Flow Test Report:

Test Date / Time: 22/08/2023 15:42:13
Project: GCRE-S2-BH239#2
Operator Name:

Location Name: GCRE-S2-BH239#2	Estimated Total Volume Pumped: 28000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 15:42	00:00	7.42 pH	16.09 °C	1,034.2 µS/cm	1.93 mg/L		-35.5 mV		2,000.0 ml/min
22/08/2023 15:42	00:30	7.42 pH	15.68 °C	1,014.8 µS/cm	2.51 mg/L		-23.4 mV		2,000.0 ml/min
22/08/2023 15:43	01:00	7.41 pH	15.34 °C	1,017.1 µS/cm	1.36 mg/L		-17.3 mV		2,000.0 ml/min
22/08/2023 15:43	01:30	7.41 pH	15.17 °C	1,020.4 µS/cm	0.91 mg/L		-16.1 mV		2,000.0 ml/min
22/08/2023 15:44	02:00	7.41 pH	15.09 °C	1,025.1 µS/cm	0.57 mg/L		-15.1 mV		2,000.0 ml/min
22/08/2023 15:44	02:30	7.41 pH	15.04 °C	1,025.6 µS/cm	0.42 mg/L		-14.1 mV		2,000.0 ml/min
22/08/2023 15:45	03:00	7.41 pH	15.03 °C	1,027.4 µS/cm	0.34 mg/L		-13.5 mV		2,000.0 ml/min
22/08/2023 15:45	03:30	7.41 pH	14.99 °C	1,028.2 µS/cm	0.29 mg/L		-13.0 mV		2,000.0 ml/min
22/08/2023 15:46	04:00	7.41 pH	15.00 °C	1,028.4 µS/cm	0.26 mg/L		-13.0 mV		2,000.0 ml/min
22/08/2023 15:46	04:30	7.41 pH	15.01 °C	1,029.6 µS/cm	0.17 mg/L		-13.0 mV		2,000.0 ml/min
22/08/2023 15:47	05:00	7.41 pH	15.00 °C	1,030.0 µS/cm	0.13 mg/L		-12.9 mV		2,000.0 ml/min

Samples

Sample ID:	Description:
BH239#2	

Low-Flow Test Report:

Test Date / Time: 22/08/2023 14:52:22
Project: GCRE-S2-BH240
Operator Name:

Location Name: BH240 Initial Depth to Water: 1.51 m	Estimated Total Volume Pumped: 34000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 14:52	00:00	8.08 pH	20.57 °C	1.33 µS/cm	8.03 mg/L		49.4 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:52	00:30	7.96 pH	20.57 °C	1.32 µS/cm	8.03 mg/L		37.7 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:53	01:00	7.93 pH	19.31 °C	416.88 µS/cm	7.89 mg/L		16.1 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:53	01:30	7.70 pH	16.37 °C	1,030.9 µS/cm	2.96 mg/L		-117.5 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:54	02:00	7.77 pH	15.36 °C	1,051.3 µS/cm	1.04 mg/L		-132.2 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:54	02:30	7.81 pH	14.73 °C	1,065.7 µS/cm	0.48 mg/L		-138.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:55	03:00	7.83 pH	14.32 °C	1,069.0 µS/cm	0.31 mg/L		-140.3 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:55	03:30	7.85 pH	14.08 °C	1,073.8 µS/cm	0.24 mg/L		-142.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:56	04:00	7.86 pH	13.94 °C	1,074.1 µS/cm	0.20 mg/L		-142.7 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:56	04:30	7.86 pH	13.86 °C	1,074.6 µS/cm	0.18 mg/L		-142.4 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:57	05:00	7.86 pH	13.81 °C	1,075.6 µS/cm	0.16 mg/L		-142.4 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:57	05:30	7.87 pH	13.77 °C	1,076.4 µS/cm	0.15 mg/L		-142.1 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:58	06:00	7.87 pH	13.76 °C	1,076.5 µS/cm	0.14 mg/L		-141.9 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:58	06:30	7.87 pH	13.72 °C	1,077.0 µS/cm	0.12 mg/L		-142.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:59	07:00	7.88 pH	13.71 °C	1,077.0 µS/cm	0.11 mg/L		-142.0 mV	151.00 cm	2,000.0 ml/min
22/08/2023 14:59	07:30	7.88 pH	13.70 °C	1,077.1 µS/cm	0.10 mg/L		-142.2 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:00	08:00	7.88 pH	13.68 °C	1,077.4 µS/cm	0.10 mg/L		-142.4 mV	151.00 cm	2,000.0 ml/min

22/08/2023 15:00	08:30	7.89 pH	13.67 °C	1,076.5 μS/cm	0.09 mg/L		-142.6 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:01	09:00	7.89 pH	13.67 °C	1,077.6 μS/cm	0.08 mg/L		-142.8 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:01	09:30	7.89 pH	13.67 °C	1,076.6 μS/cm	0.07 mg/L		-142.9 mV	151.00 cm	2,000.0 ml/min
22/08/2023 15:02	10:00	7.90 pH	13.67 °C	1,076.9 μS/cm	0.07 mg/L		-142.9 mV	151.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH240	

Low-Flow Test Report:

Test Date / Time: 8/22/2023 11:24:13 AM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH242 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 2.7 m Top of Screen: 1 m Total Depth: 3.74 m Initial Depth to Water: 2.1 m	Pump Type: Wasp Estimated Total Volume Pumped: 19000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/22/2023 11:24 AM	00:00	8.25 pH	17.71 °C	582.25 µS/cm	1.58 mg/L		640.7 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:24 AM	00:30	8.38 pH	16.73 °C	591.36 µS/cm	0.45 mg/L		969.8 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:25 AM	01:00	8.22 pH	16.16 °C	601.94 µS/cm	0.26 mg/L		989.8 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:25 AM	01:30	8.12 pH	15.84 °C	612.95 µS/cm	0.25 mg/L		1,002.2 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:26 AM	02:00	8.08 pH	15.66 °C	619.30 µS/cm	0.24 mg/L		1,008.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:26 AM	02:30		15.54 °C	620.11 µS/cm	0.24 mg/L			210.00 cm	2,000.0 ml/min
8/22/2023 11:27 AM	03:00	7.98 pH	15.48 °C	616.95 µS/cm	0.22 mg/L		1,025.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:27 AM	03:30	7.91 pH	15.41 °C	612.17 µS/cm	0.25 mg/L		1,035.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:28 AM	04:00	7.76 pH	15.39 °C	607.03 µS/cm	0.16 mg/L		1,050.6 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:28 AM	04:30	7.60 pH	15.39 °C	606.77 µS/cm	0.13 mg/L		1,067.4 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:29 AM	05:00	7.49 pH	15.36 °C	605.56 µS/cm	0.11 mg/L		1,078.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:29 AM	05:30	7.42 pH	15.35 °C	604.65 µS/cm	0.10 mg/L		1,082.7 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:30 AM	06:00	7.43 pH	15.35 °C	603.89 µS/cm	0.09 mg/L		1,080.2 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:30 AM	06:30	7.51 pH	15.33 °C	602.09 µS/cm	0.09 mg/L		1,072.5 mV	210.00 cm	2,000.0 ml/min

8/22/2023 11:31 AM	07:00	7.42 pH	15.31 °C	599.28 µS/cm	0.11 mg/L		1,083.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:31 AM	07:30	7.32 pH	15.30 °C	598.46 µS/cm	0.08 mg/L		1,091.8 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:32 AM	08:00	7.27 pH	15.30 °C	597.06 µS/cm	0.07 mg/L		1,094.0 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:32 AM	08:30	7.24 pH	15.31 °C	594.39 µS/cm	0.06 mg/L		1,097.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:33 AM	09:00	7.21 pH	15.30 °C	593.22 µS/cm	0.06 mg/L		1,100.1 mV	210.00 cm	2,000.0 ml/min
8/22/2023 11:33 AM	09:30	7.19 pH	15.30 °C	591.69 µS/cm	0.06 mg/L		1,100.2 mV	210.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Low-Flow Test Report:

Test Date / Time: 21/08/2023 14:54:01
Project: GCRE- BH243
Operator Name:

Location Name: BH243 Initial Depth to Water: 2.98 m	Estimated Total Volume Pumped: 30000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0.15 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
21/08/2023 14:54	00:00	7.95 pH	19.59 °C	880.69 µS/cm	8.10 mg/L		32.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:54	00:30	7.70 pH	18.56 °C	850.64 µS/cm	8.57 mg/L		29.6 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:55	01:00	7.56 pH	17.85 °C	605.84 µS/cm	6.37 mg/L		7.2 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:55	01:30	7.55 pH	16.24 °C	585.06 µS/cm	3.47 mg/L		-1.2 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:56	02:00	7.54 pH	15.16 °C	587.35 µS/cm	2.52 mg/L		3.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:56	02:30	7.52 pH	14.46 °C	595.50 µS/cm	2.08 mg/L		8.2 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:57	03:00	7.49 pH	13.98 °C	597.39 µS/cm	1.96 mg/L		11.7 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:57	03:30	7.48 pH	13.66 °C	598.60 µS/cm	1.95 mg/L		12.7 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:58	04:00	7.46 pH	13.44 °C	599.53 µS/cm	1.96 mg/L		13.0 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:58	04:30	7.45 pH	13.31 °C	600.39 µS/cm	1.98 mg/L		12.9 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:59	05:00	7.45 pH	13.28 °C	600.43 µS/cm	2.00 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 14:59	05:30	7.44 pH	13.27 °C	600.42 µS/cm	2.01 mg/L		13.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:00	06:00	7.43 pH	13.29 °C	599.60 µS/cm	2.01 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:00	06:30	7.42 pH	13.30 °C	598.19 µS/cm	1.99 mg/L		13.5 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:01	07:00	7.42 pH	13.31 °C	598.27 µS/cm	1.99 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:01	07:30	7.42 pH	13.31 °C	597.86 µS/cm	1.99 mg/L		13.3 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:02	08:00	7.41 pH	13.31 °C	597.05 µS/cm	1.99 mg/L		13.2 mV	298.00 cm	2,000.0 ml/min

21/08/2023 15:02	08:30	7.41 pH	13.31 °C	596.85 µS/cm	1.99 mg/L		13.1 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:03	09:00	7.40 pH	13.33 °C	596.13 µS/cm	2.00 mg/L		13.6 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:03	09:30	7.40 pH	13.35 °C	595.75 µS/cm	2.00 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min
21/08/2023 15:04	10:00	7.40 pH	13.38 °C	595.10 µS/cm	2.01 mg/L		13.4 mV	298.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH243	

Low-Flow Test Report:

Test Date / Time: 8/21/2023 2:52:47 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH244.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 5.5 m Top of Screen: 4.5 m Total Depth: 9.25 m Initial Depth to Water: 2.77 m	Pump Type: Wasp Estimated Total Volume Pumped: 13000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/21/2023 2:52 PM	00:00	7.63 pH	17.59 °C	603.87 µS/cm	3.42 mg/L		1,269.9 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:53 PM	00:30	7.56 pH	16.04 °C	623.44 µS/cm	2.09 mg/L		1,273.9 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:53 PM	01:00	7.36 pH	14.88 °C	636.05 µS/cm	1.91 mg/L		1,273.9 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:54 PM	01:30	7.24 pH	14.16 °C	637.93 µS/cm	1.93 mg/L		1,243.2 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:54 PM	02:00	7.10 pH	13.72 °C	636.20 µS/cm	1.86 mg/L		1,246.3 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:55 PM	02:30	6.97 pH	13.45 °C	632.28 µS/cm	1.80 mg/L		1,247.2 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:55 PM	03:00	6.96 pH	13.30 °C	626.31 µS/cm	1.70 mg/L		1,240.3 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:56 PM	03:30	6.76 pH	13.18 °C	626.65 µS/cm	1.63 mg/L		1,247.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:56 PM	04:00	6.65 pH	13.13 °C	625.19 µS/cm	1.63 mg/L		1,250.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:57 PM	04:30	6.47 pH	13.13 °C	624.99 µS/cm	1.66 mg/L		1,258.8 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:57 PM	05:00	6.46 pH	13.16 °C	628.07 µS/cm	1.70 mg/L		1,257.1 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:58 PM	05:30	6.40 pH	13.17 °C	633.58 µS/cm	1.73 mg/L		1,259.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:58 PM	06:00	6.36 pH	13.15 °C	637.57 µS/cm	1.76 mg/L		1,260.6 mV	277.00 cm	2,000.0 ml/min
8/21/2023 2:59 PM	06:30	6.30 pH	13.14 °C	641.58 µS/cm	1.79 mg/L		1,264.1 mV	277.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW2	

Low-Flow Test Report:

Test Date / Time: 8/21/2023 1:51:33 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH246.2 Well Diameter: 5 cm Casing Type: Plastic Screen Length: 4.5 m Top of Screen: 3.5 m Total Depth: 7.87 m Initial Depth to Water: 2.96 m	Pump Type: Wasp Estimated Total Volume Pumped: 14000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/21/2023 1:51 PM	00:00	7.45 pH	17.22 °C	434.46 µS/cm	1.60 mg/L		1,315.7 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:52 PM	00:30	7.47 pH	16.55 °C	443.07 µS/cm	1.51 mg/L		1,311.6 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:52 PM	01:00	7.45 pH	16.07 °C	446.79 µS/cm	1.49 mg/L		1,300.6 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:53 PM	01:30	7.85 pH	15.81 °C	447.92 µS/cm	1.51 mg/L		1,260.3 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:53 PM	02:00	7.54 pH	15.65 °C	446.80 µS/cm	1.58 mg/L		1,270.3 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:54 PM	02:30	7.07 pH	15.55 °C	446.09 µS/cm	1.65 mg/L		1,282.2 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:54 PM	03:00	7.07 pH	15.48 °C	446.38 µS/cm	1.68 mg/L		1,281.5 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:55 PM	03:30	6.91 pH	15.46 °C	446.55 µS/cm	1.68 mg/L		1,285.8 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:55 PM	04:00	6.87 pH	15.44 °C	446.69 µS/cm	1.65 mg/L		1,286.2 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:56 PM	04:30	6.86 pH	15.41 °C	446.31 µS/cm	1.63 mg/L		1,285.4 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:56 PM	05:00	6.80 pH	15.39 °C	445.36 µS/cm	1.61 mg/L		1,287.7 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:57 PM	05:30	6.72 pH	15.36 °C	444.93 µS/cm	1.60 mg/L		1,294.4 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:57 PM	06:00	6.72 pH	15.35 °C	444.52 µS/cm	1.59 mg/L		1,290.9 mV	296.00 cm	2,000.0 ml/min
8/21/2023 1:58 PM	06:30	6.69 pH	15.33 °C	444.41 µS/cm	1.59 mg/L		1,290.4 mV	296.00 cm	2,000.0 ml/min

8/21/2023 1:58 PM	07:00	6.66 pH	15.33 °C	444.59 µS/cm	1.59 mg/L		1,291.4 mV	296.00 cm	2,000.0 ml/min
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Samples

Sample ID:	Description:
EW3	

Low-Flow Test Report:

Test Date / Time: 25/08/2023 11:09:29
Project: GCRE-S2-BH248
Operator Name:

Location Name: BH248 Initial Depth to Water: 6 m	Estimated Total Volume Pumped: 23000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0.12 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
25/08/2023 11:09	00:00	7.58 pH	15.43 °C	798.89 µS/cm	7.52 mg/L		-78.4 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:09	00:30	7.37 pH	13.96 °C	904.10 µS/cm	2.55 mg/L		-70.1 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:10	01:00	7.32 pH	13.14 °C	912.46 µS/cm	1.06 mg/L		-65.1 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:10	01:30	7.32 pH	12.62 °C	914.58 µS/cm	0.54 mg/L		-60.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:11	02:00	7.31 pH	12.31 °C	926.65 µS/cm	0.39 mg/L		-54.6 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:11	02:30	7.32 pH	12.14 °C	939.24 µS/cm	0.40 mg/L		-50.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:12	03:00	7.33 pH	12.03 °C	948.06 µS/cm	0.52 mg/L		-46.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:12	03:30	7.33 pH	11.98 °C	954.41 µS/cm	0.70 mg/L		-42.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:13	04:00	7.33 pH	11.94 °C	958.66 µS/cm	0.90 mg/L		-39.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:13	04:30	7.33 pH	11.93 °C	961.07 µS/cm	1.09 mg/L		-37.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:14	05:00	7.33 pH	11.93 °C	962.72 µS/cm	1.23 mg/L		-35.4 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:14	05:30	7.33 pH	11.94 °C	963.25 µS/cm	1.34 mg/L		-34.2 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:15	06:00	7.33 pH	11.95 °C	963.20 µS/cm	1.43 mg/L		-33.3 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:15	06:30	7.33 pH	11.96 °C	963.57 µS/cm	1.49 mg/L		-32.5 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:16	07:00	7.33 pH	11.98 °C	963.58 µS/cm	1.54 mg/L		-31.9 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:16	07:30	7.33 pH	11.98 °C	963.94 µS/cm	1.58 mg/L		-31.1 mV	600.00 cm	2,000.0 ml/min
25/08/2023 11:17	08:00	7.33 pH	11.99 °C	964.22 µS/cm	1.61 mg/L		-30.5 mV	600.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH248	

Low-Flow Test Report:

Test Date / Time: 21/08/2023 13:55:39
Project: GCRE- BH249
Operator Name:

Location Name: BH249 Initial Depth to Water: 3.69 m	Estimated Total Volume Pumped: 25000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0.34 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
21/08/2023 13:55	00:00	7.71 pH	23.11 °C	251.88 µS/cm	4.84 mg/L		33.7 mV	369.00 cm	2,000.0 ml/min
21/08/2023 13:56	00:30	7.29 pH	18.99 °C	840.05 µS/cm	2.93 mg/L		32.2 mV	369.00 cm	
21/08/2023 13:58	03:03	7.88 pH	18.12 °C	5.72 µS/cm	8.23 mg/L		17.2 mV	369.00 cm	
21/08/2023 13:59	03:33	7.90 pH	18.29 °C	9.71 µS/cm	8.29 mg/L		1.4 mV	369.00 cm	
21/08/2023 13:59	04:03	7.34 pH	15.67 °C	874.79 µS/cm	5.11 mg/L		21.9 mV	369.00 cm	
21/08/2023 14:00	04:33	7.22 pH	14.70 °C	885.22 µS/cm	2.96 mg/L		25.6 mV	369.00 cm	
21/08/2023 14:00	05:03	7.19 pH	14.07 °C	896.25 µS/cm	2.35 mg/L		26.3 mV	369.00 cm	
21/08/2023 14:01	05:33	7.17 pH	13.67 °C	900.24 µS/cm	2.16 mg/L		26.2 mV	369.00 cm	
21/08/2023 14:01	06:03	7.16 pH	13.43 °C	900.12 µS/cm	2.10 mg/L		26.0 mV	369.00 cm	
21/08/2023 14:02	06:33	7.16 pH	13.28 °C	902.80 µS/cm	2.07 mg/L		25.6 mV	369.00 cm	
21/08/2023 14:02	07:03	7.15 pH	13.18 °C	905.12 µS/cm	2.05 mg/L		25.6 mV	369.00 cm	
21/08/2023 14:03	07:33	7.15 pH	13.13 °C	905.05 µS/cm	2.02 mg/L		25.2 mV	369.00 cm	
21/08/2023 14:03	08:03	7.15 pH	13.08 °C	903.81 µS/cm	2.00 mg/L		25.0 mV	369.00 cm	
21/08/2023 14:04	08:33	7.14 pH	13.03 °C	902.18 µS/cm	1.97 mg/L		24.8 mV	369.00 cm	
21/08/2023 14:04	09:03	7.14 pH	12.98 °C	899.41 µS/cm	1.94 mg/L		24.4 mV	369.00 cm	
21/08/2023 14:05	09:33	7.14 pH	12.94 °C	897.60 µS/cm	1.92 mg/L		23.9 mV	369.00 cm	
21/08/2023 14:05	10:03	7.13 pH	12.94 °C	896.14 µS/cm	1.90 mg/L		23.5 mV	369.00 cm	

Samples

Sample ID:	Description:
BH249	

Low-Flow Test Report:

Test Date / Time: 24/08/2023 16:00:35
Project: GCRE-S2-BH250
Operator Name:

Location Name: BH250 Initial Depth to Water: 3.21 m	Estimated Total Volume Pumped: 22000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0.36 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
24/08/2023 16:00	00:00	8.02 pH	19.94 °C	970.93 µS/cm	7.86 mg/L		5.7 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:01	00:30	7.57 pH	16.97 °C	602.60 µS/cm	5.22 mg/L		18.4 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:01	01:00	7.45 pH	15.09 °C	603.21 µS/cm	3.44 mg/L		20.4 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:02	01:30	7.43 pH	13.97 °C	609.44 µS/cm	3.00 mg/L		20.2 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:02	02:00	7.44 pH	13.34 °C	614.71 µS/cm	2.90 mg/L		19.5 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:03	02:30	7.46 pH	12.97 °C	616.74 µS/cm	2.92 mg/L		18.8 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:03	03:00	7.49 pH	12.76 °C	617.15 µS/cm	3.01 mg/L		18.0 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:04	03:30	7.51 pH	12.61 °C	618.26 µS/cm	3.11 mg/L		17.6 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:04	04:00	7.53 pH	12.51 °C	619.04 µS/cm	3.17 mg/L		17.1 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:05	04:30	7.53 pH	12.46 °C	618.74 µS/cm	3.18 mg/L		16.7 mV	321.00 cm	2,000.0 ml/min
24/08/2023 16:05	05:00	7.53 pH	12.41 °C	617.41 µS/cm	3.18 mg/L		16.3 mV	321.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH250	

Low-Flow Test Report:

Test Date / Time: 8/22/2023 1:54:36 PM
Project: GCRE 3
Operator Name: KW

Location Name: S2-BH252 Well Diameter: 50 cm Total Depth: 9 m Initial Depth to Water: 4.5 m	Pump Type: Wasp Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0 m	Instrument Used: Aqua TROLL 400 Serial Number: 877732
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Test Notes:

Weather Conditions:
Wet

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
8/22/2023 1:54 PM	00:00	8.00 pH	17.21 °C	426.78 µS/cm	6.03 mg/L		656.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:55 PM	00:30		15.69 °C	448.25 µS/cm	4.59 mg/L			450.00 cm	2,000.0 ml/min
8/22/2023 1:55 PM	01:00		14.38 °C	457.43 µS/cm	4.37 mg/L			450.00 cm	2,000.0 ml/min
8/22/2023 1:56 PM	01:30	7.48 pH	13.53 °C	461.00 µS/cm	4.37 mg/L		1,044.5 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:56 PM	02:00	7.34 pH	12.82 °C	461.24 µS/cm	4.42 mg/L		1,062.6 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:57 PM	02:30	7.22 pH	12.40 °C	455.99 µS/cm	4.49 mg/L		1,076.9 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:57 PM	03:00	7.12 pH	12.08 °C	447.14 µS/cm	4.56 mg/L		1,085.0 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:58 PM	03:30	7.05 pH	11.89 °C	434.72 µS/cm	4.64 mg/L		1,093.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:58 PM	04:00	6.94 pH	11.78 °C	427.21 µS/cm	4.74 mg/L		1,097.9 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:59 PM	04:30	6.82 pH	11.71 °C	428.78 µS/cm	4.80 mg/L		1,101.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 1:59 PM	05:00	6.73 pH	11.66 °C	437.60 µS/cm	4.80 mg/L		1,104.2 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:00 PM	05:30	6.70 pH	11.62 °C	446.99 µS/cm	4.76 mg/L		1,105.4 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:00 PM	06:00	6.67 pH	11.57 °C	456.06 µS/cm	4.71 mg/L		1,107.6 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:01 PM	06:30	6.63 pH	11.52 °C	461.87 µS/cm	4.63 mg/L		1,110.4 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:01 PM	07:00	6.62 pH	11.49 °C	464.00 µS/cm	4.59 mg/L		1,111.1 mV	450.00 cm	2,000.0 ml/min

8/22/2023 2:02 PM	07:30	6.58 pH	11.48 °C	462.17 µS/cm	4.55 mg/L		1,114.7 mV	450.00 cm	2,000.0 ml/min
8/22/2023 2:02 PM	08:00	6.56 pH	11.45 °C	459.07 µS/cm	4.53 mg/L		1,117.1 mV	450.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
EW3	

Low-Flow Test Report:

Test Date / Time: 22/08/2023 13:00:54
Project: GCRE- S2-BH261
Operator Name:

Location Name: BH261 Initial Depth to Water: 9.56 m	Estimated Total Volume Pumped: 32000 ml Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 0.12 m	Instrument Used: Aqua TROLL 400 Serial Number: 1029035
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
22/08/2023 13:00	00:00	7.73 pH	20.64 °C	559.43 µS/cm	6.76 mg/L		23.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:01	00:30	7.64 pH	18.03 °C	501.49 µS/cm	4.75 mg/L		22.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:01	01:00	7.45 pH	16.84 °C	470.94 µS/cm	4.12 mg/L		24.0 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:02	01:30	7.36 pH	15.82 °C	466.61 µS/cm	3.86 mg/L		24.5 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:02	02:00	7.33 pH	15.31 °C	483.04 µS/cm	3.77 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:03	02:30	7.27 pH	15.05 °C	458.83 µS/cm	3.84 mg/L		24.7 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:03	03:00	7.33 pH	15.21 °C	475.95 µS/cm	4.46 mg/L		23.5 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:04	03:30	7.26 pH	14.89 °C	458.08 µS/cm	4.85 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:04	04:00	7.22 pH	14.80 °C	457.25 µS/cm	4.75 mg/L		24.7 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:05	04:30	7.23 pH	14.73 °C	472.98 µS/cm	4.69 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:05	05:00	7.21 pH	14.67 °C	458.58 µS/cm	4.67 mg/L		24.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:06	05:30	7.19 pH	14.66 °C	457.73 µS/cm	4.64 mg/L		24.4 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:06	06:00	7.18 pH	14.63 °C	457.56 µS/cm	4.59 mg/L		24.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:07	06:30	7.18 pH	14.62 °C	457.40 µS/cm	4.56 mg/L		24.5 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:07	07:00	7.17 pH	14.61 °C	457.56 µS/cm	4.50 mg/L		24.3 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:08	07:30	7.17 pH	14.61 °C	457.36 µS/cm	4.41 mg/L		24.2 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:08	08:00	7.16 pH	14.61 °C	457.04 µS/cm	4.33 mg/L		24.1 mV	956.00 cm	2,000.0 ml/min

22/08/2023 13:09	08:30	7.16 pH	14.61 °C	454.49 µS/cm	4.26 mg/L		23.8 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:09	09:00	7.16 pH	14.61 °C	456.54 µS/cm	4.20 mg/L		23.9 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:10	09:30	7.16 pH	14.60 °C	456.38 µS/cm	4.12 mg/L		23.8 mV	956.00 cm	2,000.0 ml/min
22/08/2023 13:10	10:00	7.16 pH	14.60 °C	456.65 µS/cm	4.07 mg/L		23.6 mV	956.00 cm	2,000.0 ml/min

Samples

Sample ID:	Description:
BH261	

Appendix IV

Geoenvironmental Testing

Eurofins Chemtest

**23-21883, 23-22078, 23-22244,
23-22484, 23-23194, 23-23250,
23-25140, 23-25140, 23-25292,
23-25489, 23-25593, 23-25755,
23-26215, 23-26298, 23-28320,
23-28452, 23-29018, 23-29077,
23-29496, 23-29817**



2183

Final Report

Report No.: 23-21883-1

Initial Date of Issue: 04-Jul-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 28-Jun-2023

Order No.:

Date Instructed: 28-Jun-2023

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 04-Jul-2023

Date Approved: 04-Jul-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services	Chemtest Job No.:				23-21883	23-21883
Quotation No.: Q22-29781	Chemtest Sample ID.:				1665337	1665338
Order No.:	Client Sample Ref.:				14	11
	Client Sample ID.:				#23402876184 90014	#55600093144 60011
	Sample Location:				S2-BH244	S2-BH246
	Sample Type:				WATER	WATER
	Top Depth (m):				9.38	7.87
	Date Sampled:				26-Jun-2023	26-Jun-2023
	Time Sampled:				15:12	14:12
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	6.5	6.8
Sulphate	U	1220	mg/l	1.0	260	100
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	52	59
Total Hardness as CaCO3	U	1270	mg/l	15	310	290
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	17	16
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	36
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	10000	59
Nickel (Dissolved)	U	1455	µg/l	0.50	42	1.8
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	0.62	1.0
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	9.5	10
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	0.91	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services	Chemtest Job No.:		23-21883	23-21883
Quotation No.: Q22-29781	Chemtest Sample ID.:		1665337	1665338
Order No.:	Client Sample Ref.:		14	11
	Client Sample ID.:		#23402876184 90014	#55600093144 60011
	Sample Location:		S2-BH244	S2-BH246
	Sample Type:		WATER	WATER
	Top Depth (m):		9.38	7.87
	Date Sampled:		26-Jun-2023	26-Jun-2023
	Time Sampled:		15:12	14:12
Determinand	Accred.	SOP	Units	LOD
Total Of 16 PAH's	U	1800	µg/l	2.0
Total Phenols	U	1920	mg/l	0.030
				< 2.0
				< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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I/S	Insufficient Sample
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2183

Final Report

Report No.: 23-22078-1

Initial Date of Issue: 04-Jul-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt

Project GCRE Montoring

Quotation No.: Q22-29781

Date Received: 29-Jun-2023

Order No.: G230012C

Date Instructed: 29-Jun-2023

No. of Samples: 7

Turnaround (Wkdays): 5

Results Due: 05-Jul-2023

Date Approved: 04-Jul-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-22078	23-22078	23-22078	23-22078	23-22078	23-22078	23-22078
Quotation No.: Q22-29781	Chemtest Sample ID.:				1666133	1666134	1666135	1666136	1666137	1666138	1666139
Order No.: G230012C	Client Sample Ref.:				12	11	11	15	13	14	18
	Client Sample ID.:				#66261311790 90012	#66261311790 90011	#06312021895 40011	#70721805594 10015	#55116547576 60013	#19508717776 90014	#48124953288 50018
	Sample Location:				S2-BH239	S2-BH239	S2-BH240	S2-BH242	S2-BH243	S2-BH249	S2-BH252
	Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER	WATER
	Top Depth (m):				3.60	7.60	5.16	3.74	5.88	7.65	8.63
	Date Sampled:				27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023
	Time Sampled:				10:22	9:45	10:50	11:13	9:04	9:23	14:41
Determinand	Accred.	SOP	Units	LOD							
pH	U	1010		N/A	7.7	7.7	8.1	7.9	7.4	7.1	7.3
Sulphate	U	1220	mg/l	1.0	120	120	110	70	110	420	37
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	76	75	75	68	40	96	42
Total Hardness as CaCO3	U	1270	mg/l	15	340	320	290	290	240	550	210
Arsenic (Dissolved)	U	1455	µg/l	0.20	1.4	0.51	2.0	0.43	< 0.20	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	130	120	93	74	38	32	32
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	0.20	< 0.11	0.55	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	2.4	0.94	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	10	< 0.50	< 0.50	2.6	0.81	2.7	1.1
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	450	420	470	3300	2900	9800	110
Nickel (Dissolved)	U	1455	µg/l	0.50	8.0	6.1	3.5	14	6.7	26	5.3
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.3
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	43	8.0	2.6	15	12	21	11
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0	< 2.0	< 2.0	2.7	< 2.0	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: GCRE Montoring

Client: Jackson Geo Services	Chemtest Job No.:		23-22078	23-22078	23-22078	23-22078	23-22078	23-22078	23-22078
Quotation No.: Q22-29781	Chemtest Sample ID.:		1666133	1666134	1666135	1666136	1666137	1666138	1666139
Order No.: G230012C	Client Sample Ref.:		12	11	11	15	13	14	18
	Client Sample ID.:		#66261311790 90012	#66261311790 90011	#06312021895 40011	#70721805594 10015	#55116547576 60013	#19508717776 90014	#48124953288 50018
	Sample Location:		S2-BH239	S2-BH239	S2-BH240	S2-BH242	S2-BH243	S2-BH249	S2-BH252
	Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER
	Top Depth (m):		3.60	7.60	5.16	3.74	5.88	7.65	8.63
	Date Sampled:		27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023	27-Jun-2023
	Time Sampled:		10:22	9:45	10:50	11:13	9:04	9:23	14:41
Determinand	Accred.	SOP	Units	LOD					
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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- A - Date of sampling not supplied
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- D - Broken Container
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All soil samples will be retained for a period of 30 days from the date of receipt

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Final Report

Report No.: 23-22244-1

Initial Date of Issue: 06-Jul-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt

Project G23012C, GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 30-Jun-2023

Order No.:

Date Instructed: 30-Jun-2023

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 06-Jul-2023

Date Approved: 06-Jul-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C, GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:			23-22244	23-22244	
Quotation No.: Q22-29781	Chemtest Sample ID.:			1666732	1666733	
Order No.:	Client Sample Ref.:			1	1	
	Client Sample ID.:			#19517118027 10001	#81604485577 60001	
	Sample Location:			S2-BH248	S2-BH250	
	Sample Type:			WATER	WATER	
	Date Sampled:			28-Jun-2023	28-Jun-2023	
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	6.9	7.2
Sulphate	U	1220	mg/l	1.0	220	73
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	93	42
Total Hardness as CaCO3	U	1270	mg/l	15	560	230
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.63	0.29
Boron (Dissolved)	U	1455	µg/l	10.0	48	33
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	230	2.0
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2700	15
Nickel (Dissolved)	U	1455	µg/l	0.50	13	2.0
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.4	2.0
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	110	2.5
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	4.5	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
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Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
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Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
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Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
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Final Report

Report No.: 23-22244-1

Initial Date of Issue: 06-Jul-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt

Project G23012C, GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 30-Jun-2023

Order No.:

Date Instructed: 30-Jun-2023

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 06-Jul-2023

Date Approved: 06-Jul-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C, GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:			23-22244	23-22244	
Quotation No.: Q22-29781	Chemtest Sample ID.:			1666732	1666733	
Order No.:	Client Sample Ref.:			1	1	
	Client Sample ID.:			#19517118027 10001	#81604485577 60001	
	Sample Location:			S2-BH248	S2-BH250	
	Sample Type:			WATER	WATER	
	Date Sampled:			28-Jun-2023	28-Jun-2023	
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	6.9	7.2
Sulphate	U	1220	mg/l	1.0	220	73
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	93	42
Total Hardness as CaCO3	U	1270	mg/l	15	560	230
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.63	0.29
Boron (Dissolved)	U	1455	µg/l	10.0	48	33
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	230	2.0
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2700	15
Nickel (Dissolved)	U	1455	µg/l	0.50	13	2.0
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.4	2.0
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	110	2.5
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	4.5	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Final Report

Report No.: 23-23194-1

Initial Date of Issue: 14-Jul-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 07-Jul-2023

Order No.:

Date Instructed: 07-Jul-2023

No. of Samples: 1

Turnaround (Wkdays): 5

Results Due: 13-Jul-2023

Date Approved: 14-Jul-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services	Chemtest Job No.:		23-23194		
Quotation No.: Q22-29781	Chemtest Sample ID.:		1671236		
Order No.:	Client Sample Ref.:		1		
	Client Sample ID.:		#47969554806 00001		
	Sample Location:		S2-BH225		
	Sample Type:		WATER		
	Top Depth (m):		5.89		
	Date Sampled:		06-Jul-2023		
	Time Sampled:		13:00		
Determinand	Accred.	SOP	Units	LOD	
pH	U	1010		N/A	7.4
Sulphate	U	1220	mg/l	1.0	23
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	18
Total Hardness as CaCO3	U	1270	mg/l	15	79
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.29
Boron (Dissolved)	U	1455	µg/l	10.0	16
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.19
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	9900
Nickel (Dissolved)	U	1455	µg/l	0.50	6.6
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	6.3
Chromium (Hexavalent)	U	1490	µg/l	20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services	Chemtest Job No.:				23-23194
Quotation No.: Q22-29781	Chemtest Sample ID.:				1671236
Order No.:	Client Sample Ref.:				1
	Client Sample ID.:				#47969554806 00001
	Sample Location:				S2-BH225
	Sample Type:				WATER
	Top Depth (m):				5.89
	Date Sampled:				06-Jul-2023
	Time Sampled:				13:00
Determinand	Accred.	SOP	Units	LOD	
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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I/S	Insufficient Sample
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N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

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Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Final Report

Report No.: 23-23250-1

Initial Date of Issue: 14-Jul-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 10-Jul-2023

Order No.:

Date Instructed: 10-Jul-2023

No. of Samples: 1

Turnaround (Wkdays): 5

Results Due: 14-Jul-2023

Date Approved: 14-Jul-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:		23-23250		
Quotation No.: Q22-29781	Chemtest Sample ID.:		1671563		
Order No.:	Client Sample Ref.:		1		
	Client Sample ID.:		#19108113375 90001		
	Sample Location:		S2-BH217		
	Sample Type:		WATER		
	Top Depth (m):		29.55		
	Date Sampled:		06-Jul-2023		
Determinand	Accred.	SOP	Units	LOD	
pH	U	1010		N/A	7.7
Sulphate	U	1220	mg/l	1.0	30
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	68
Total Hardness as CaCO3	U	1270	mg/l	15	220
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.47
Boron (Dissolved)	U	1455	µg/l	10.0	69
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.81
Chromium (Dissolved)	U	1455	µg/l	0.50	0.55
Copper (Dissolved)	U	1455	µg/l	0.50	0.75
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3800
Nickel (Dissolved)	U	1455	µg/l	0.50	3.1
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.5
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	3.8
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-23250
Quotation No.: Q22-29781	Chemtest Sample ID.:				1671563
Order No.:	Client Sample Ref.:				1
	Client Sample ID.:				#19108113375 90001
	Sample Location:				S2-BH217
	Sample Type:				WATER
	Top Depth (m):				29.55
	Date Sampled:				06-Jul-2023
Determinand	Accred.	SOP	Units	LOD	
Total Phenols	U	1920	mg/l	0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1671563	1	#1910811337590001	S2-BH217	06-Jul-2023	B	Coloured Winchester 1000ml
1671563	1	#1910811337590001	S2-BH217	06-Jul-2023	B	EPA Vial 40ml
1671563	1	#1910811337590001	S2-BH217	06-Jul-2023	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

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Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Final Report

Report No.: 23-25140-1

Initial Date of Issue: 01-Aug-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 26-Jul-2023

Order No.:

Date Instructed: 26-Jul-2023

No. of Samples: 3

Turnaround (Wkdays): 5

Results Due: 01-Aug-2023

Date Approved: 01-Aug-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-25140	23-25140	23-25140
Quotation No.: Q22-29781	Chemtest Sample ID.:				1679297	1679298	1679299
Order No.:	Client Sample Ref.:				2	2	15
	Client Sample ID.:				#88136215502 30002	#03489988112 50002	#28628823686 60002
	Sample Location:				S2-BH244	S2-BH246	S2-BH249
	Sample Type:				WATER	WATER	WATER
	Top Depth (m):				9.25	7.86	7.70
	Date Sampled:				24-Jul-2023	24-Jul-2023	24-Jul-2023
	Time Sampled:				11:56	14:43	15:01
Determinand	Accred.	SOP	Units	LOD			
pH	U	1010		N/A	7.7	7.5	7.5
Sulphate	U	1220	mg/l	1.0	130	160	250
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	59	74	96
Total Hardness as CaCO3	U	1270	mg/l	15	320	380	480
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	0.21	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	24	32	30
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	0.17
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	1.1	0.78	0.59
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	1500	34	120
Nickel (Dissolved)	U	1455	µg/l	0.50	7.2	2.2	3.9
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	3.3	5.9	5.7
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	16	21	25
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.5	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-25140	23-25140	23-25140
Quotation No.: Q22-29781	Chemtest Sample ID.:				1679297	1679298	1679299
Order No.:	Client Sample Ref.:				2	2	15
	Client Sample ID.:				#88136215502 30002	#03489988112 50002	#28628823686 60002
	Sample Location:				S2-BH244	S2-BH246	S2-BH249
	Sample Type:				WATER	WATER	WATER
	Top Depth (m):				9.25	7.86	7.70
	Date Sampled:				24-Jul-2023	24-Jul-2023	24-Jul-2023
	Time Sampled:				11:56	14:43	15:01
Determinand	Accred.	SOP	Units	LOD			
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Final Report

Report No.: 23-25292-1

Initial Date of Issue: 02-Aug-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 27-Jul-2023

Order No.:

Date Instructed: 27-Jul-2023

No. of Samples: 8

Turnaround (Wkdays): 5

Results Due: 02-Aug-2023

Date Approved: 02-Aug-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-25292	23-25292	23-25292	23-25292	23-25292	23-25292	23-25292	23-25292
Quotation No.: Q22-29781	Chemtest Sample ID.:				1679912	1679913	1679914	1679915	1679916	1679917	1679918	1679919
Order No.:	Client Sample Ref.:				EW	EW	EW	EW	EW	EW	EW	EW
	Client Sample ID.:				4	3	2	2	2	2	2	1
	Sample Location:				S2-BH239	S2-BH239	S2-BH240	S2-BH242	S2-BH243	S2-BH248	S2-BH252	S2-BH261
	Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	Top Depth (m):				3.70	7.80	5.38	3.79	5.93	9.26	8.87	7.70
	Date Sampled:				25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023	25-Jul-2023
	Time Sampled:				12:38	12:08	10:04	10:44	9:41	15:11	12:40	16:41
Determinand	Accred.	SOP	Units	LOD								
pH	U	1010		N/A	7.3	7.4	7.7	7.3	7.2	6.9	7.2	7.1
Sulphate	U	1220	mg/l	1.0	320	310	410	74	100	150	43	130
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	110	110	150	56	61	54	35	38
Total Hardness as CaCO3	U	1270	mg/l	15	530	550	600	250	260	380	170	190
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.55	0.71	0.70	0.34	< 0.20	0.44	0.23	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	150	140	150	140	68	65	54	52
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	0.29	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	2.9	0.81	0.55	1.8	2.1
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	150	210	1300	4200	780	5300	39	3.6
Nickel (Dissolved)	U	1455	µg/l	0.50	18	19	25	30	4.0	17	2.7	4.2
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.3	1.3	< 0.50	0.85	3.2	< 0.50	1.9	5.8
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	5.8	7.7	15	13	12	14	10	16
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.3	< 2.0	2.1	4.9	2.5	2.3	2.2	2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.: 23-25292 23-25292 23-25292 23-25292 23-25292 23-25292 23-25292 23-25292 23-25292								
Quotation No.: Q22-29781	Chemtest Sample ID.: 1679912 1679913 1679914 1679915 1679916 1679917 1679918 1679919								
Order No.:	Client Sample Ref.: EW EW EW EW EW EW EW EW EW								
	Client Sample ID.: 4 3 2 2 2 2 2 2 1								
	Sample Location: S2-BH239 S2-BH239 S2-BH240 S2-BH242 S2-BH243 S2-BH248 S2-BH252 S2-BH261								
	Sample Type: WATER WATER WATER WATER WATER WATER WATER WATER								
	Top Depth (m): 3.70 7.80 5.38 3.79 5.93 9.26 8.87 7.70								
	Date Sampled: 25-Jul-2023 25-Jul-2023 25-Jul-2023 25-Jul-2023 25-Jul-2023 25-Jul-2023 25-Jul-2023 25-Jul-2023								
	Time Sampled: 12:38 12:08 10:04 10:44 9:41 15:11 12:40 16:41								
Determinand	Accred.	SOP	Units	LOD					
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
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N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
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<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

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Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

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- A - Date of sampling not supplied
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Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

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customerservices@chemtest.com



2183

Final Report

Report No.: 23-25489-1

Initial Date of Issue: 03-Aug-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C

Quotation No.: Q22-29781

Date Received: 28-Jul-2023

Order No.:

Date Instructed: 28-Jul-2023

No. of Samples: 4

Turnaround (Wkdays): 5

Results Due: 03-Aug-2023

Date Approved: 03-Aug-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C

Client: Jackson Geo Services	Chemtest Job No.:				23-25489	23-25489	23-25489	23-25489
Quotation No.: Q22-29781	Chemtest Sample ID.:				1680564	1680565	1680566	1680567
Order No.:	Client Sample Ref.:				2	2	2	2
	Client Sample ID.:				#06926236956 80002	#05120727515 30002	#88944852812 50002	#73554264555 40002
	Sample Location:				S2-BH227	S2-BH237	S2-BH250	S2-BH261
	Sample Type:				WATER	WATER	WATER	WATER
	Top Depth (m):				14.50	25.50	9.30	14.08
	Date Sampled:				26-Jul-2023	26-Jul-2023	26-Jul-2023	26-Jul-2023
	Time Sampled:				12:18	15:02	10:48	11:27
Determinand	Accred.	SOP	Units	LOD				
pH	U	1010		N/A	7.9	5.0	8.1	8.2
Sulphate	U	1220	mg/l	1.0	6.7	170	72	140
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	17	30	64	38
Total Hardness as CaCO3	U	1270	mg/l	15	120	180	310	190
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	0.34	< 0.20	0.20
Boron (Dissolved)	U	1455	µg/l	10.0	25	22	33	24
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	0.34	< 0.11	0.15
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	4.5	< 0.50	1.4
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3200	3300	29	3200
Nickel (Dissolved)	U	1455	µg/l	0.50	5.1	75	3.1	20
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	3.6	5.6
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	16	180	7.6	24
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0	3.3	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: G23012C

Client: Jackson Geo Services	Chemtest Job No.:				23-25489	23-25489	23-25489	23-25489
Quotation No.: Q22-29781	Chemtest Sample ID.:				1680564	1680565	1680566	1680567
Order No.:	Client Sample Ref.:				2	2	2	2
	Client Sample ID.:				#06926236956 80002	#05120727515 30002	#88944852812 50002	#73554264555 40002
	Sample Location:				S2-BH227	S2-BH237	S2-BH250	S2-BH261
	Sample Type:				WATER	WATER	WATER	WATER
	Top Depth (m):				14.50	25.50	9.30	14.08
	Date Sampled:				26-Jul-2023	26-Jul-2023	26-Jul-2023	26-Jul-2023
	Time Sampled:				12:18	15:02	10:48	11:27
Determinand	Accred.	SOP	Units	LOD				
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Final Report

Report No.: 23-25593-1

Initial Date of Issue: 03-Aug-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 31-Jul-2023

Order No.:

Date Instructed: 31-Jul-2023

No. of Samples: 4

Turnaround (Wkdays): 5

Results Due: 04-Aug-2023

Date Approved: 03-Aug-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-25593	23-25593	23-25593	23-25593
Quotation No.: Q22-29781	Chemtest Sample ID.:				1680972	1680973	1680974	1680975
	Client Sample ID.:				2	4	3	2
	Sample Location:				S1-BH118	S1-BH119	S1-BH119	S1-BH120
	Sample Type:				WATER	WATER	WATER	WATER
	Top Depth (m):				14.97	4.00	15.00	20.54
	Date Sampled:				27-Jul-2023	27-Jul-2023	27-Jul-2023	27-Jul-2023
	Time Sampled:				11:06	11:38	11:07	15:20
Determinand	Accred.	SOP	Units	LOD				
pH	U	1010		N/A	7.8	7.3	7.7	7.7
Sulphate	U	1220	mg/l	1.0	26	130	13	1.7
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	51	24	32	22
Total Hardness as CaCO3	U	1270	mg/l	15	180	190	150	110
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.53	0.53	0.48	0.22
Boron (Dissolved)	U	1455	µg/l	10.0	20	23	46	37
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.29	0.17	0.13	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	1.5	1.1	0.56	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3200	8000	590	710
Nickel (Dissolved)	U	1455	µg/l	0.50	17	53	16	1.8
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.1	1.2	1.2	0.78
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	14	28	14	5.6
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20	[B] < 20	[B] < 20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.2	2.5	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1680972		2	S1-BH118	27-Jul-2023	B	Coloured Winchester 1000ml
1680972		2	S1-BH118	27-Jul-2023	B	EPA Vial 40ml
1680972		2	S1-BH118	27-Jul-2023	B	Plastic Bottle 1000ml
1680973		4	S1-BH119	27-Jul-2023	B	Coloured Winchester 1000ml
1680973		4	S1-BH119	27-Jul-2023	B	EPA Vial 40ml
1680973		4	S1-BH119	27-Jul-2023	B	Plastic Bottle 1000ml
1680974		3	S1-BH119	27-Jul-2023	B	Coloured Winchester 1000ml
1680974		3	S1-BH119	27-Jul-2023	B	EPA Vial 40ml
1680974		3	S1-BH119	27-Jul-2023	B	Plastic Bottle 1000ml
1680975		2	S1-BH120	27-Jul-2023	B	Coloured Winchester 1000ml
1680975		2	S1-BH120	27-Jul-2023	B	EPA Vial 40ml
1680975		2	S1-BH120	27-Jul-2023	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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<	"less than"
>	"greater than"
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- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
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- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Final Report

Report No.: 23-25755-1

Initial Date of Issue: 08-Aug-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 01-Aug-2023

Order No.:

Date Instructed: 02-Aug-2023

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 08-Aug-2023

Date Approved: 08-Aug-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-25755	23-25755
Quotation No.: Q22-29781	Chemtest Sample ID.:				1681850	1681851
Order No.:	Client Sample Ref.:				EW	EW
	Client Sample ID.:				2	3
	Sample Location:				S2-BH217	S2-BH227
	Sample Type:				WATER	WATER
	Top Depth (m):				29.96	5.00
	Date Sampled:				28-Jul-2023	28-Jul-2023
	Time Sampled:				11:09	12:50
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	7.3	7.2
Sulphate	U	1220	mg/l	1.0	30	45
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	67	26
Total Hardness as CaCO3	U	1270	mg/l	15	220	130
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.54	0.44
Boron (Dissolved)	U	1455	µg/l	10.0	41	13
Cadmium (Dissolved)	U	1455	µg/l	0.11	2.5	0.19
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	4.6
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	3700	830
Nickel (Dissolved)	U	1455	µg/l	0.50	2.4	4.6
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	0.80
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	< 2.5	33
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.3	3.8
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:		23-25755	23-25755
Quotation No.: Q22-29781	Chemtest Sample ID.:		1681850	1681851
Order No.:	Client Sample Ref.:		EW	EW
	Client Sample ID.:		2	3
	Sample Location:		S2-BH217	S2-BH227
	Sample Type:		WATER	WATER
	Top Depth (m):		29.96	5.00
	Date Sampled:		28-Jul-2023	28-Jul-2023
	Time Sampled:		11:09	12:50
Determinand	Accred.	SOP	Units	LOD
Total Phenols	U	1920	mg/l	0.030
				< 0.030
				< 0.030

Deviations

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Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1681850	EW	2	S2-BH217	28-Jul-2023	B	Coloured Winchester 1000ml
1681850	EW	2	S2-BH217	28-Jul-2023	B	EPA Vial 40ml
1681850	EW	2	S2-BH217	28-Jul-2023	B	Plastic Bottle 1000ml
1681851	EW	3	S2-BH227	28-Jul-2023	B	Coloured Winchester 1000ml
1681851	EW	3	S2-BH227	28-Jul-2023	B	EPA Vial 40ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
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1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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I/S	Insufficient Sample
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<	"less than"
>	"greater than"
SOP	Standard operating procedure
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Comments or interpretations are beyond the scope of UKAS accreditation

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- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

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If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Final Report

Report No.: 23-26215-1

Initial Date of Issue: 08-Aug-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 03-Aug-2023

Order No.:

Date Instructed: 04-Aug-2023

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 10-Aug-2023

Date Approved: 08-Aug-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-26215	23-26215
Quotation No.: Q22-29781	Chemtest Sample ID.:				1683492	1683493
Order No.:	Client Sample Ref.:				EW	EW
	Client Sample ID.:				1	2
	Sample Location:				S2-BH222	S2-BH232
	Sample Type:				WATER	WATER
	Top Depth (m):				24.71	6.95
	Date Sampled:				01-Aug-2023	01-Aug-2023
	Time Sampled:				14:50	13:18
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	7.9	7.3
Sulphate	U	1220	mg/l	1.0	30	4.4
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	23	17
Total Hardness as CaCO3	U	1270	mg/l	15	120	130
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.68	0.31
Boron (Dissolved)	U	1455	µg/l	10.0	39	25
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	5.3	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	240	2400
Nickel (Dissolved)	U	1455	µg/l	0.50	12	7.3
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	25	22
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	6.9	3.6
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:		23-26215	23-26215
Quotation No.: Q22-29781	Chemtest Sample ID.:		1683492	1683493
Order No.:	Client Sample Ref.:		EW	EW
	Client Sample ID.:		1	2
	Sample Location:		S2-BH222	S2-BH232
	Sample Type:		WATER	WATER
	Top Depth (m):		24.71	6.95
	Date Sampled:		01-Aug-2023	01-Aug-2023
	Time Sampled:		14:50	13:18
Determinand	Accred.	SOP	Units	LOD
Total Phenols	U	1920	mg/l	0.030
				< 0.030
				< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

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I/S	Insufficient Sample
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N/E	not evaluated
<	"less than"
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SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Amended Report

Report No.:	23-26298-4		
Initial Date of Issue:	10-Aug-2023	Date of Re-Issue:	10-Aug-2023
Re-Issue Details:	This report has been revised and directly supersedes 23-26298-3 in its entirety		
Client	Jackson Geo Services		
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA		
Contact(s):	Adam Putt James Power		
Project	G23012C GCRE Monitoring		
Quotation No.:	Q22-29781	Date Received:	04-Aug-2023
Order No.:		Date Instructed:	04-Aug-2023
No. of Samples:	2		
Turnaround (Wkdays):	5	Results Due:	10-Aug-2023
Date Approved:	10-Aug-2023		
Approved By:			

Details: Stuart Henderson, Technical Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-26298	23-26298
Quotation No.: Q22-29781	Chemtest Sample ID.:				1683770	1683771
Order No.:	Client Sample Ref.:				EW	EW
	Client Sample ID.:				2	1
	Sample Location:				S2-BH225	S2-BH229
	Sample Type:				WATER	WATER
	Top Depth (m):				5.93	14.83
	Date Sampled:				02-Aug-2023	02-Aug-2023
	Time Sampled:				14:12	12:54
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	7.7	7.3
Sulphate	U	1220	mg/l	1.0	9.7	58
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	17	95
Total Hardness as CaCO3	U	1270	mg/l	15	73	410
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.33	0.62
Boron (Dissolved)	U	1455	µg/l	10.0	14	20
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	2.3
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	8100	440
Nickel (Dissolved)	U	1455	µg/l	0.50	6.2	4.2
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	0.72
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	31	47
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.1	2.9
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

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If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



2183

Final Report

Report No.: 23-28320-1

Initial Date of Issue: 30-Aug-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 23-Aug-2023

Order No.:

Date Instructed: 23-Aug-2023

No. of Samples: 4

Turnaround (Wkdays): 5

Results Due: 30-Aug-2023

Date Approved: 30-Aug-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services	Chemtest Job No.:				23-28320	23-28320	23-28320	23-28320
Quotation No.: Q22-29781	Chemtest Sample ID.:				1692450	1692451	1692452	1692453
Order No.:	Client Sample Ref.:				3	2	3	3
	Client Sample ID.:				#34279821549 60003	#46735186663 70002	#74123672663 20003	#17363937393 40003
	Sample Location:				S2-BH243	S2-BH244	S2-BH246	S2-BH249
	Sample Type:				WATER	WATER	WATER	WATER
	Top Depth (m):				2.98	9.44	8.01	3.69
	Bottom Depth (m):				5.86			7.49
	Date Sampled:				21-Aug-2023	21-Aug-2023	21-Aug-2023	21-Aug-2023
	Time Sampled:				15:11	15:09	14:11	14:10
Determinand	Accred.	SOP	Units	LOD				
pH	U	1010		N/A	8.2	7.8	7.9	7.6
Sulphate	U	1220	mg/l	1.0	86	120	56	250
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	64	53	47	91
Total Hardness as CaCO3	U	1270	mg/l	15	280	300	200	470
Arsenic (Dissolved)	U	1455	µg/l	0.20	< 0.20	< 0.20	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	34	26	21	30
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	140	340	27	63
Nickel (Dissolved)	U	1455	µg/l	0.50	1.8	2.4	< 0.50	2.1
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	4.4	2.4	1.8	3.5
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	5.0	3.5	5.9	13
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	2.3	2.4	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Water

Project: G23012C GCRE Montoring

Client: Jackson Geo Services	Chemtest Job No.:				23-28320	23-28320	23-28320	23-28320
Quotation No.: Q22-29781	Chemtest Sample ID.:				1692450	1692451	1692452	1692453
Order No.:	Client Sample Ref.:				3	2	3	3
	Client Sample ID.:				#34279821549 60003	#46735186663 70002	#74123672663 20003	#17363937393 40003
	Sample Location:				S2-BH243	S2-BH244	S2-BH246	S2-BH249
	Sample Type:				WATER	WATER	WATER	WATER
	Top Depth (m):				2.98	9.44	8.01	3.69
	Bottom Depth (m):				5.86			7.49
	Date Sampled:				21-Aug-2023	21-Aug-2023	21-Aug-2023	21-Aug-2023
	Time Sampled:				15:11	15:09	14:11	14:10
Determinand	Accred.	SOP	Units	LOD				
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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For all other tests the samples were dried at < 37°C prior to analysis

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Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Final Report

Report No.: 23-28452-1

Initial Date of Issue: 31-Aug-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 24-Aug-2023

Order No.:

Date Instructed: 24-Aug-2023

No. of Samples: 6

Turnaround (Wkdays): 5

Results Due: 31-Aug-2023

Date Approved: 31-Aug-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:					23-28452	23-28452	23-28452	23-28452	23-28452	23-28452
Quotation No.: Q22-29781	Chemtest Sample ID.:					1692991	1692992	1692993	1692994	1692995	1692996
	Client Sample ID.:					3	3	3	6	3	5
	Sample Location:					S2-BH242	S2-BH252	S2-BH261	S2-BH239	S2-BH240	S2-BH239
	Sample Type:					WATER	WATER	WATER	WATER	WATER	WATER
	Top Depth (m):					3.77	9.00	14.81	1.92	1.51	1.37
	Date Sampled:					22-Aug-2023	22-Aug-2023	22-Aug-2023	22-Aug-2023	22-Aug-2023	22-Aug-2023
Determinand	Accred.	SOP	Units	LOD							
pH	U	1010		N/A	8.5	8.5	8.3	8.2	8.3	8.3	8.3
Sulphate	U	1220	mg/l	1.0	80	38	110	230	270	220	220
Cyanide (Total)	U	1300	mg/l	0.050	0.060	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	49	43	37	83	110	83	83
Total Hardness as CaCO3	U	1270	mg/l	15	220	200	180	440	450	430	430
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.56	< 0.20	< 0.20	< 0.20	0.32	0.22	0.22
Boron (Dissolved)	U	1455	µg/l	10.0	64	< 10	< 10	58	81	60	60
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50	1.1	1.3	< 0.50	< 0.50	< 0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2800	100	5.9	280	940	300	300
Nickel (Dissolved)	U	1455	µg/l	0.50	20	0.85	1.9	13	2.6	13	13
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	1.2	3.4	< 0.50	< 0.50	0.74	0.74
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	6.9	3.9	< 2.5	8.1	2.8	5.1	5.1
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.2	2.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



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Amended Report

Report No.:	23-29018-2		
Initial Date of Issue:	06-Sep-2023	Date of Re-Issue:	07-Sep-2023
Re-Issue Details:	This report has been revised and directly supersedes 23-29018-1 in its entirety		
Client	Jackson Geo Services		
Client Address:	Northwood Farm Coxbridge Road Baltonsborough Somerset BA68 RA		
Contact(s):	Adam Putt James Power		
Project	G23012C GCRE Monitoring		
Quotation No.:	Q22-29781	Date Received:	30-Aug-2023
Order No.:		Date Instructed:	30-Aug-2023
No. of Samples:	3		
Turnaround (Wkdays):	6	Results Due:	06-Sep-2023
Date Approved:	06-Sep-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-29018	23-29018	23-29018
Quotation No.: Q22-29781	Chemtest Sample ID.:				1695280	1695281	1695282
	Client Sample ID.:				#75500818427 0003	#91728581437 60003	#67617184327 60003
	Sample Location:				S2-BH237	S2-BH248	S2-BH250
	Sample Type:				WATER	WATER	WATER
	Top Depth (m):				25.27	6.80	3.21
	Bottom Depth (m):					8.95	8.97
	Date Sampled:				25-Aug-2023	25-Aug-2023	24-Aug-2023
	Time Sampled:				14:14	11:21	
Determinand	Accred.	SOP	Units	LOD			
pH	U	1010		N/A	7.6	7.3	8.5
Sulphate	U	1220	mg/l	1.0	74	150	73
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	13	72	57
Total Hardness as CaCO3	U	1270	mg/l	15	82	470	290
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.61	< 0.20	< 0.20
Boron (Dissolved)	U	1455	µg/l	10.0	19	44	36
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	0.59	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	8.5	0.75	0.52
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	1300	3400	160
Nickel (Dissolved)	U	1455	µg/l	0.50	22	12	2.3
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	0.71	2.2
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	69	4.7	< 2.5
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20	[B] < 20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	6.7	2.3	< 2.0
Naphthalene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Acenaphthylene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Acenaphthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Fluorene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Phenanthrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Anthracene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Fluoranthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Pyrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Chrysene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	[C] < 0.10	< 0.10	[C] < 0.10

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:					23-29018	23-29018	23-29018
Quotation No.: Q22-29781	Chemtest Sample ID.:					1695280	1695281	1695282
	Client Sample ID.:					#75500818427 0003	#91728581437 60003	#67617184327 60003
	Sample Location:					S2-BH237	S2-BH248	S2-BH250
	Sample Type:					WATER	WATER	WATER
	Top Depth (m):					25.27	6.80	3.21
	Bottom Depth (m):						8.95	8.97
	Date Sampled:					25-Aug-2023	25-Aug-2023	24-Aug-2023
	Time Sampled:					14:14	11:21	
Determinand	Accred.	SOP	Units	LOD				
Total Of 16 PAH's	U	1800	µg/l	2.0	[C] < 2.0	< 2.0	[C] < 2.0	
Total Phenols	U	1920	mg/l	0.030	[C] < 0.030	< 0.030	[C] < 0.030	

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1695280		#755008184270003	S2-BH237	25-Aug-2023	BC	EPA Vial 40ml
1695280		#755008184270003	S2-BH237	25-Aug-2023	BC	Plastic Bottle 1000ml
1695281		#917285814376000 3	S2-BH248	25-Aug-2023	B	Coloured Winchester 1000ml
1695281		#917285814376000 3	S2-BH248	25-Aug-2023	B	EPA Vial 40ml
1695282		#676171843276000 3	S2-BH250	24-Aug-2023	BC	EPA Vial 40ml
1695282		#676171843276000 3	S2-BH250	24-Aug-2023	BC	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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customerservices@chemtest.com

Final Report

Report No.: 23-29077-1

Initial Date of Issue: 07-Sep-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 31-Aug-2023

Order No.:

Date Instructed: 01-Sep-2023

No. of Samples: 3

Turnaround (Wkdays): 5

Results Due: 07-Sep-2023

Date Approved: 07-Sep-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-29077	23-29077	23-29077
Quotation No.: Q22-29781	Chemtest Sample ID.:				1695482	1695483	1695484
Order No.:	Client Sample Ref.:				3	5	3
	Sample Location:				S1-BH118	S1-BH119	S1-BH120
	Sample Type:				WATER	WATER	WATER
	Date Sampled:				29-Aug-2023	29-Aug-2023	29-Aug-2023
Determinand	Accred.	SOP	Units	LOD			
pH	U	1010		N/A	7.0	7.2	7.4
Sulphate	U	1220	mg/l	1.0	39	16	1.1
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	43	30	23
Total Hardness as CaCO3	U	1270	mg/l	15	160	140	110
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.35	0.66	0.60
Boron (Dissolved)	U	1455	µg/l	10.0	110	97	70
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	1.7	< 0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	2500	450	680
Nickel (Dissolved)	U	1455	µg/l	0.50	16	8.9	6.4
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	0.56	0.52	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	15	6.1	4.9
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	3.7	< 2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO3 equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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Uncertainty of measurement for the determinands tested are available upon request

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All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

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- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Final Report

Report No.: 23-29496-1

Initial Date of Issue: 08-Sep-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 04-Sep-2023

Order No.:

Date Instructed: 04-Sep-2023

No. of Samples: 1

Turnaround (Wkdays): 5

Results Due: 08-Sep-2023

Date Approved: 08-Sep-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-29496
Quotation No.: Q22-29781	Chemtest Sample ID.:				1697137
	Client Sample ID.:				#25346559251 30002
	Sample Location:				S2-BH229
	Sample Type:				WATER
	Top Depth (m):				14.20
	Date Sampled:				31-Aug-2023
	Time Sampled:				13:19
Determinand	Accred.	SOP	Units	LOD	
pH	U	1010		N/A	8.0
Sulphate	U	1220	mg/l	1.0	54
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	85
Total Hardness as CaCO3	U	1270	mg/l	15	380
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.25
Boron (Dissolved)	U	1455	µg/l	10.0	43
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	1.4
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	0.63
Nickel (Dissolved)	U	1455	µg/l	0.50	14
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	0.61
Zinc (Dissolved)	U	1455	µg/l	2.5	< 2.5
Chromium (Hexavalent)	U	1490	µg/l	20	[B] < 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:		23-29496	
Quotation No.: Q22-29781	Chemtest Sample ID.:		1697137	
	Client Sample ID.:		#25346559251 30002	
	Sample Location:		S2-BH229	
	Sample Type:		WATER	
	Top Depth (m):		14.20	
	Date Sampled:		31-Aug-2023	
	Time Sampled:		13:19	
Determinand	Accred.	SOP	Units	LOD
Total Phenols	U	1920	mg/l	0.030
				< 0.030

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1697137		#253465592513000 2	S2-BH229	31-Aug-2023	B	Coloured Winchester 1000ml
1697137		#253465592513000 2	S2-BH229	31-Aug-2023	B	EPA Vial 40ml
1697137		#253465592513000 2	S2-BH229	31-Aug-2023	B	Plastic Bottle 1000ml

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

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None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

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- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Final Report

Report No.: 23-29817-1

Initial Date of Issue: 12-Sep-2023

Re-Issue Details:

Client Jackson Geo Services

Client Address: Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA68 RA

Contact(s): Adam Putt
James Power

Project G23012C GCRE Monitoring

Quotation No.: Q22-29781

Date Received: 06-Sep-2023

Order No.:

Date Instructed: 06-Sep-2023

No. of Samples: 1

Turnaround (Wkdays): 5

Results Due: 12-Sep-2023

Date Approved: 12-Sep-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:		23-29817		
Quotation No.: Q22-29781	Chemtest Sample ID.:		1698465		
Order No.:	Client Sample Ref.:		3		
	Client Sample ID.:		#73541636845 70003		
	Sample Location:		S2-BH217		
	Sample Type:		WATER		
	Top Depth (m):		16.42		
	Date Sampled:		04-Sep-2023		
	Time Sampled:		14:28		
Determinand	Accred.	SOP	Units	LOD	
pH	U	1010		N/A	7.9
Sulphate	U	1220	mg/l	1.0	150
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Calcium (Dissolved)	U	1455	mg/l	2.00	61
Total Hardness as CaCO3	U	1270	mg/l	15	350
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.38
Boron (Dissolved)	U	1455	µg/l	10.0	46
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	0.93
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Manganese (Dissolved)	U	1455	µg/l	0.50	290
Nickel (Dissolved)	U	1455	µg/l	0.50	3.1
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	4.1
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	15
Chromium (Hexavalent)	U	1490	µg/l	20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	< 2.0
Naphthalene	U	1800	µg/l	0.10	< 0.10
Acenaphthylene	U	1800	µg/l	0.10	< 0.10
Acenaphthene	U	1800	µg/l	0.10	< 0.10
Fluorene	U	1800	µg/l	0.10	< 0.10
Phenanthrene	U	1800	µg/l	0.10	< 0.10
Anthracene	U	1800	µg/l	0.10	< 0.10
Fluoranthene	U	1800	µg/l	0.10	< 0.10
Pyrene	U	1800	µg/l	0.10	< 0.10
Benzo[a]anthracene	U	1800	µg/l	0.10	< 0.10
Chrysene	U	1800	µg/l	0.10	< 0.10
Benzo[b]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[k]fluoranthene	U	1800	µg/l	0.10	< 0.10
Benzo[a]pyrene	U	1800	µg/l	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1800	µg/l	0.10	< 0.10
Dibenz(a,h)Anthracene	U	1800	µg/l	0.10	< 0.10
Benzo[g,h,i]perylene	U	1800	µg/l	0.10	< 0.10

Results - Water

Project: G23012C GCRE Monitoring

Client: Jackson Geo Services	Chemtest Job No.:				23-29817
Quotation No.: Q22-29781	Chemtest Sample ID.:				1698465
Order No.:	Client Sample Ref.:				3
	Client Sample ID.:				#73541636845 70003
	Sample Location:				S2-BH217
	Sample Type:				WATER
	Top Depth (m):				16.42
	Date Sampled:				04-Sep-2023
	Time Sampled:				14:28
Determinand	Accred.	SOP	Units	LOD	
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	< 0.030

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
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1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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Appendix B. Geotechnical Parameter Plots

B.1	Made Ground PSD
B.2	Made Ground Field Geological Descriptions
B.3	Made Ground Plasticity Index
B.4	Made Ground Drained Young's Modulus
B.5	Peat Moisture Content
B.6	Peat Unit Weight
B.7	Peat Undrained Shear Strength
B.8	Peat Coefficient of Volume Compressibility
B.9	Peat Voids Ratio vs Applied Stress
B.10	Glacial Till PSD
B.11	Glacial Till Plasticity Index
B.12	Glacial Till Undrained Shear Strength
B.13	Glacial Till Drained Young's Modulus
B.14	Glacial Till Undrained Young's Modulus
B.15	Glacial Till Coefficient of Volume Compressibility
B.16	Weathered South Wales Coal Measures PSD
B.17	Weathered South Wales Coal Measures Plasticity Index
B.18	Weathered South Wales Coal Measures Undrained Shear Strength
B.19	Weathered South Wales Coal Measures Drained Young's Modulus
B.20	Weathered South Wales Coal Measures Undrained Young's Modulus
B.21	Weathered South Wales Coal Measures Coefficient of Volume Compressibility
B.22	South Wales Coal Measures (Mudstone) UCS
B.23	South Wales Coal Measures (Siltstone) UCS

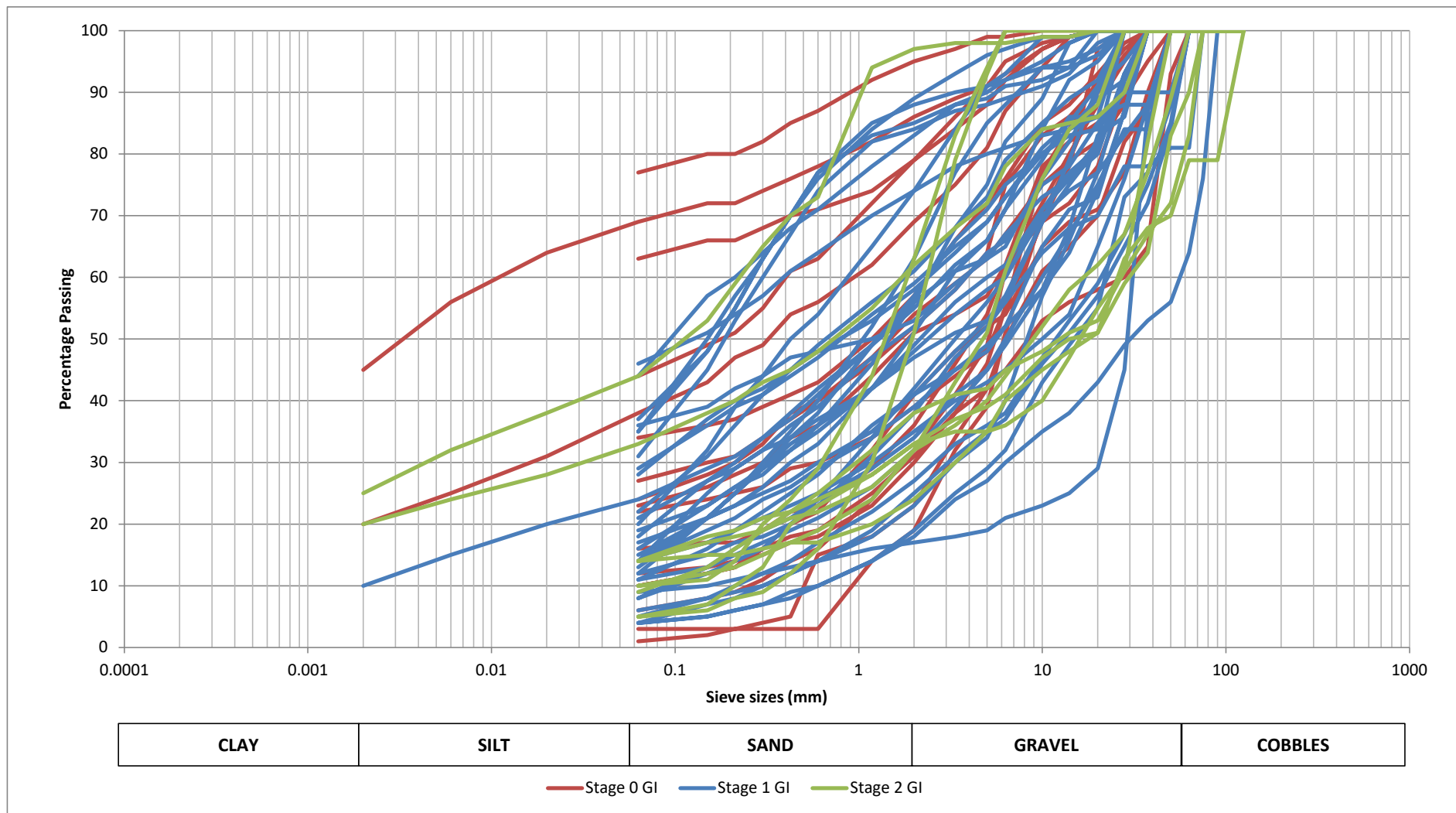


Figure B.1 - Made Ground PSD

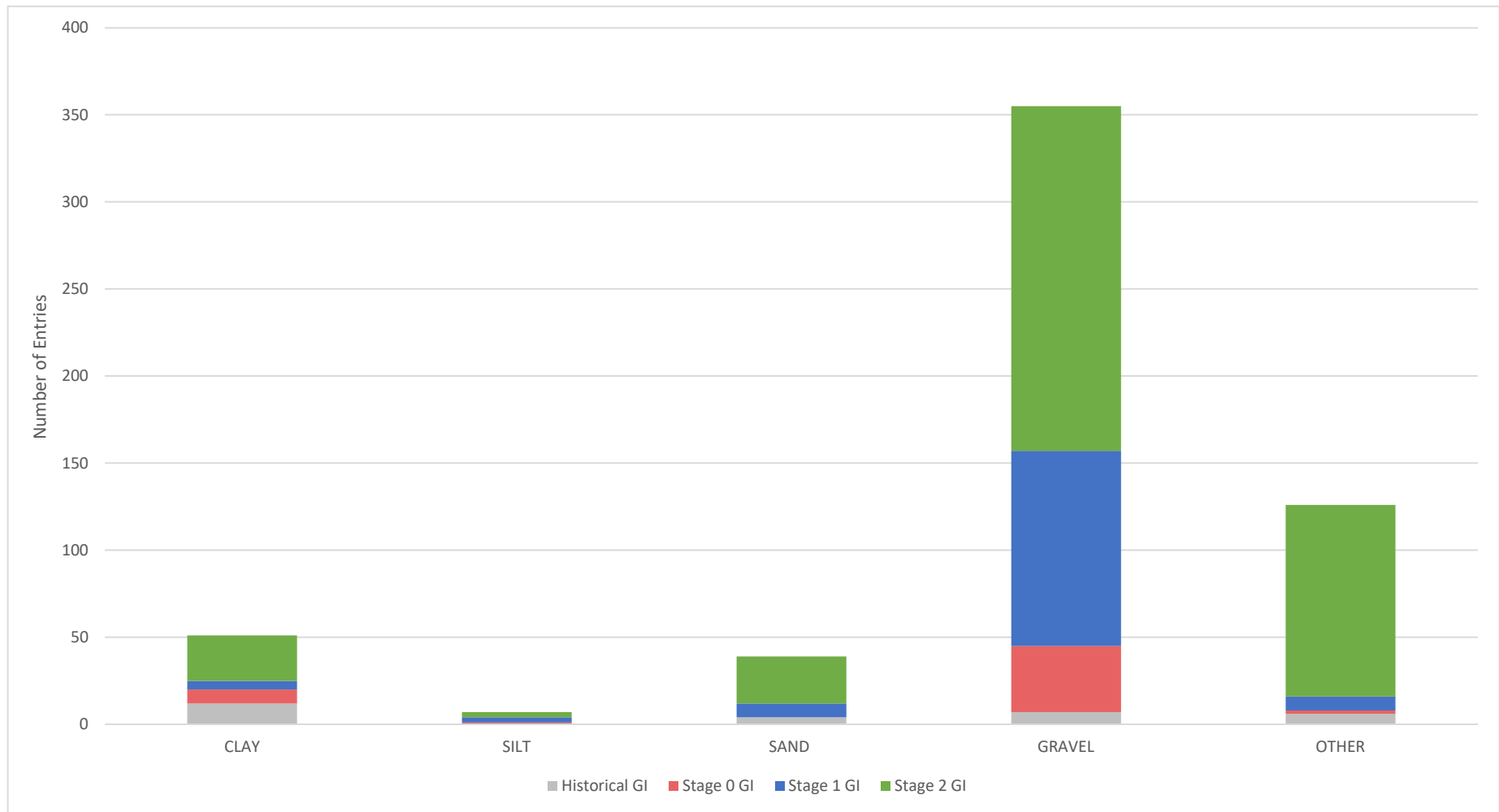


Figure B.2 - Made Ground Field Geological Descriptions

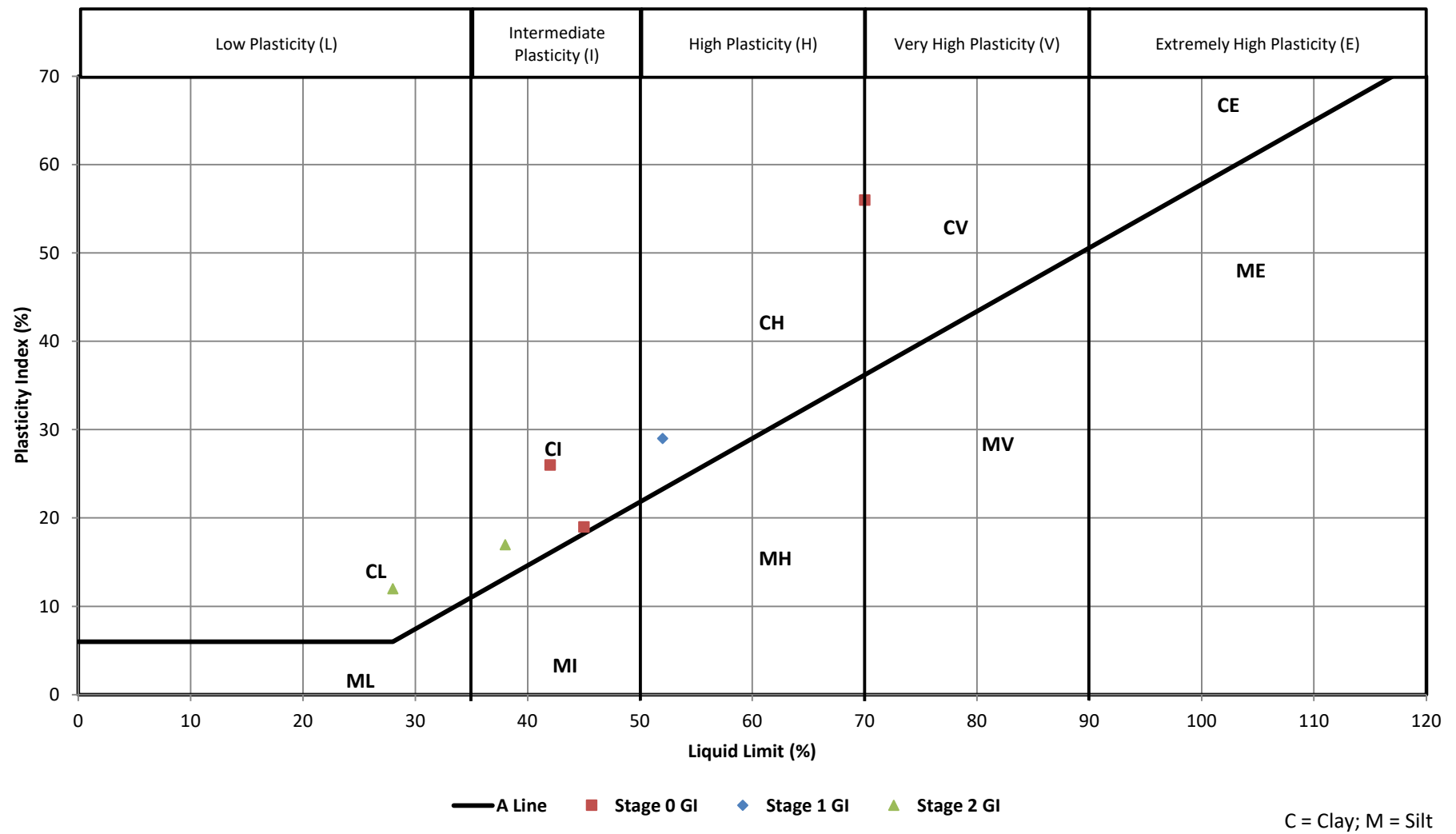


Figure B.3 - Made Ground Plasticity Index

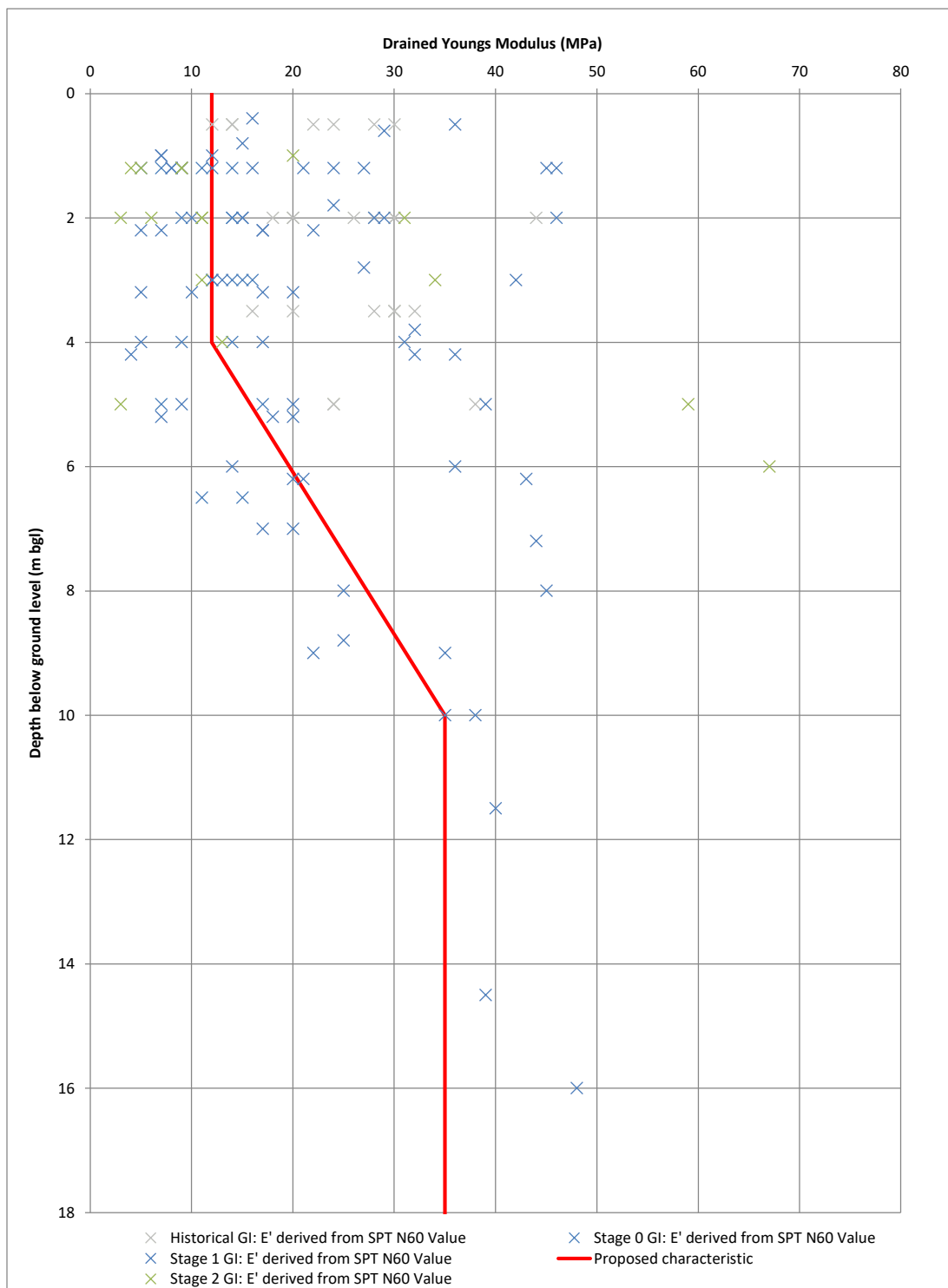


Figure B.4 - Made Ground Drained Young's Modulus

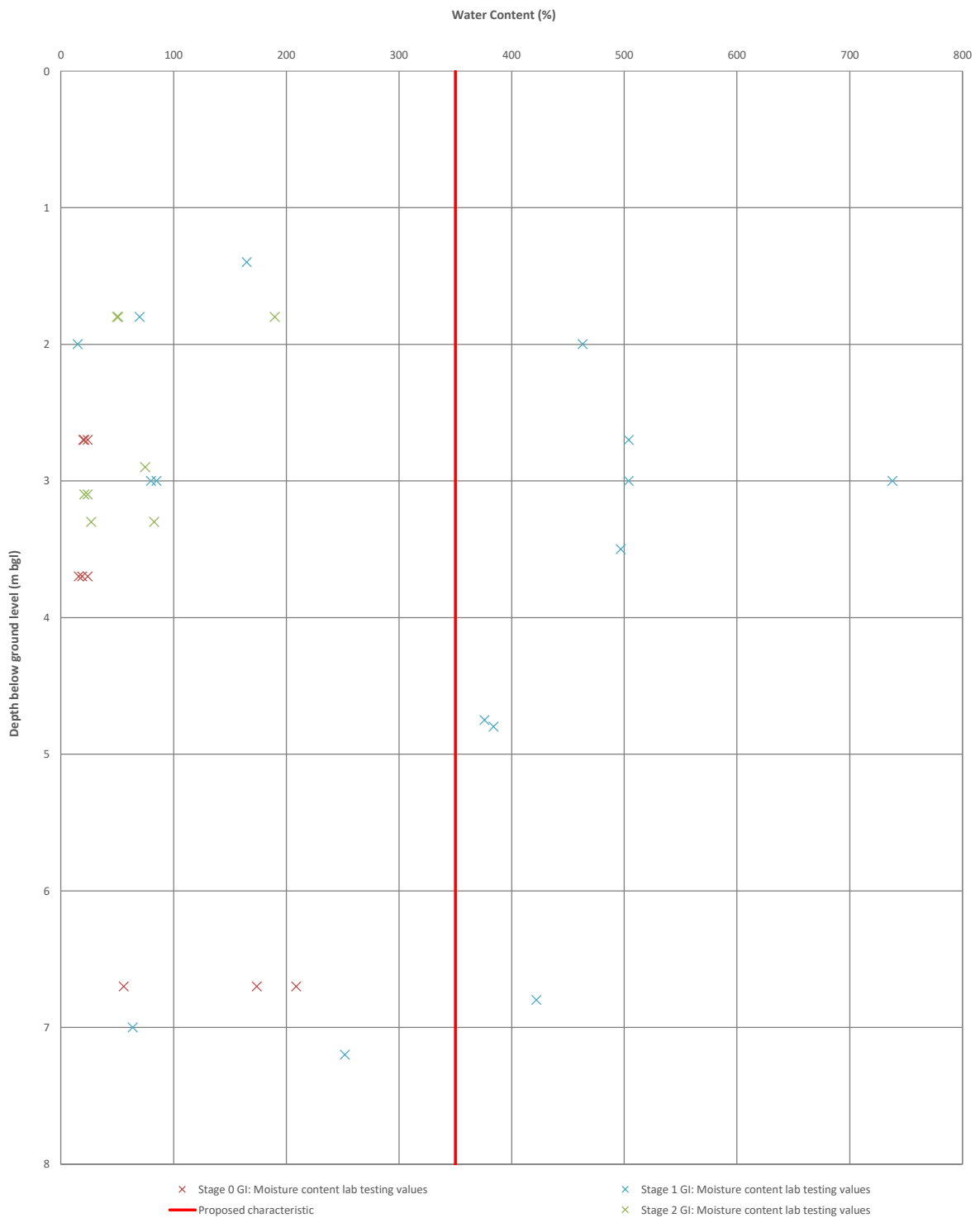


Figure B.5 - Peat Moisture Content

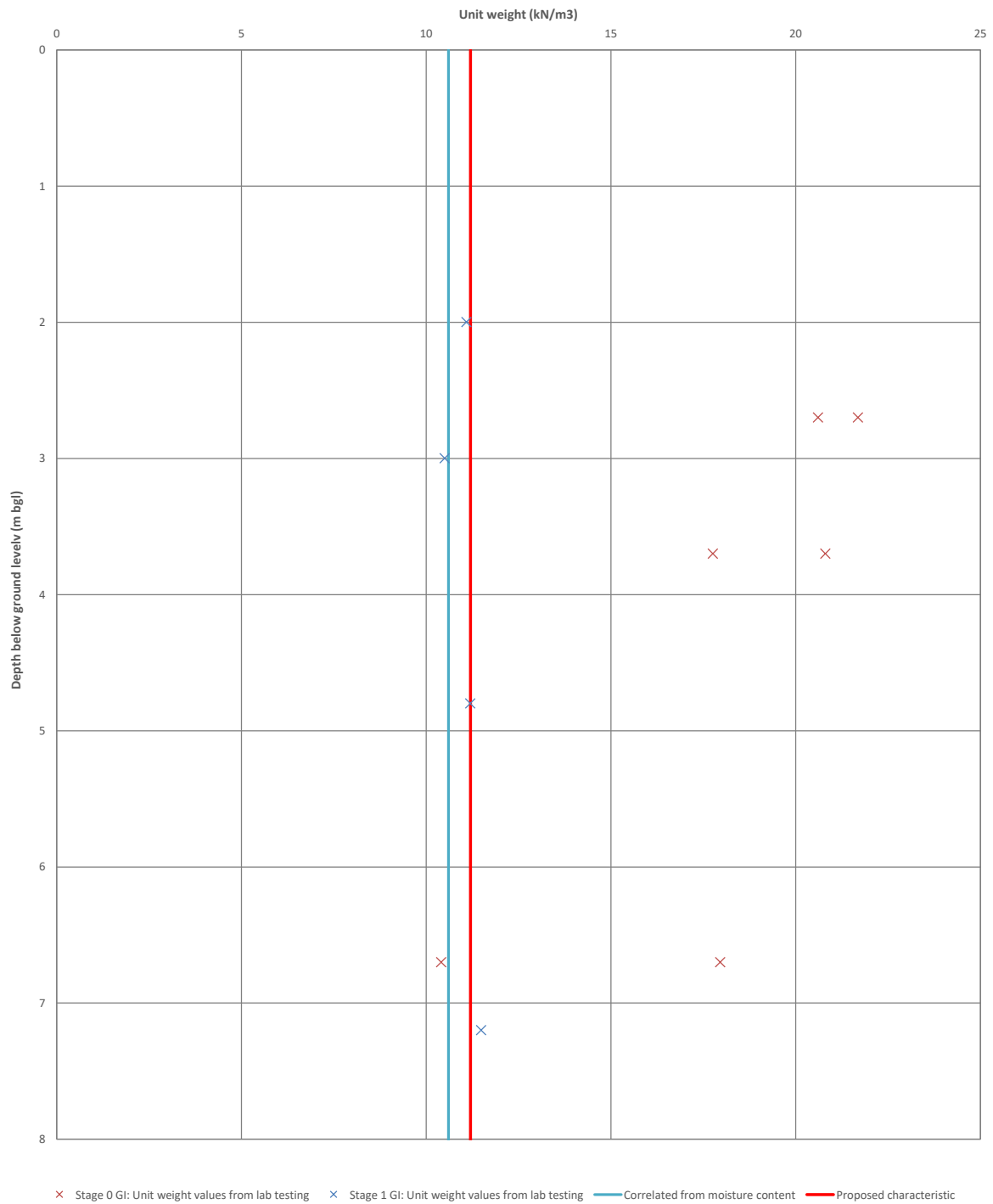


Figure B.6 - Peat Unit Weight

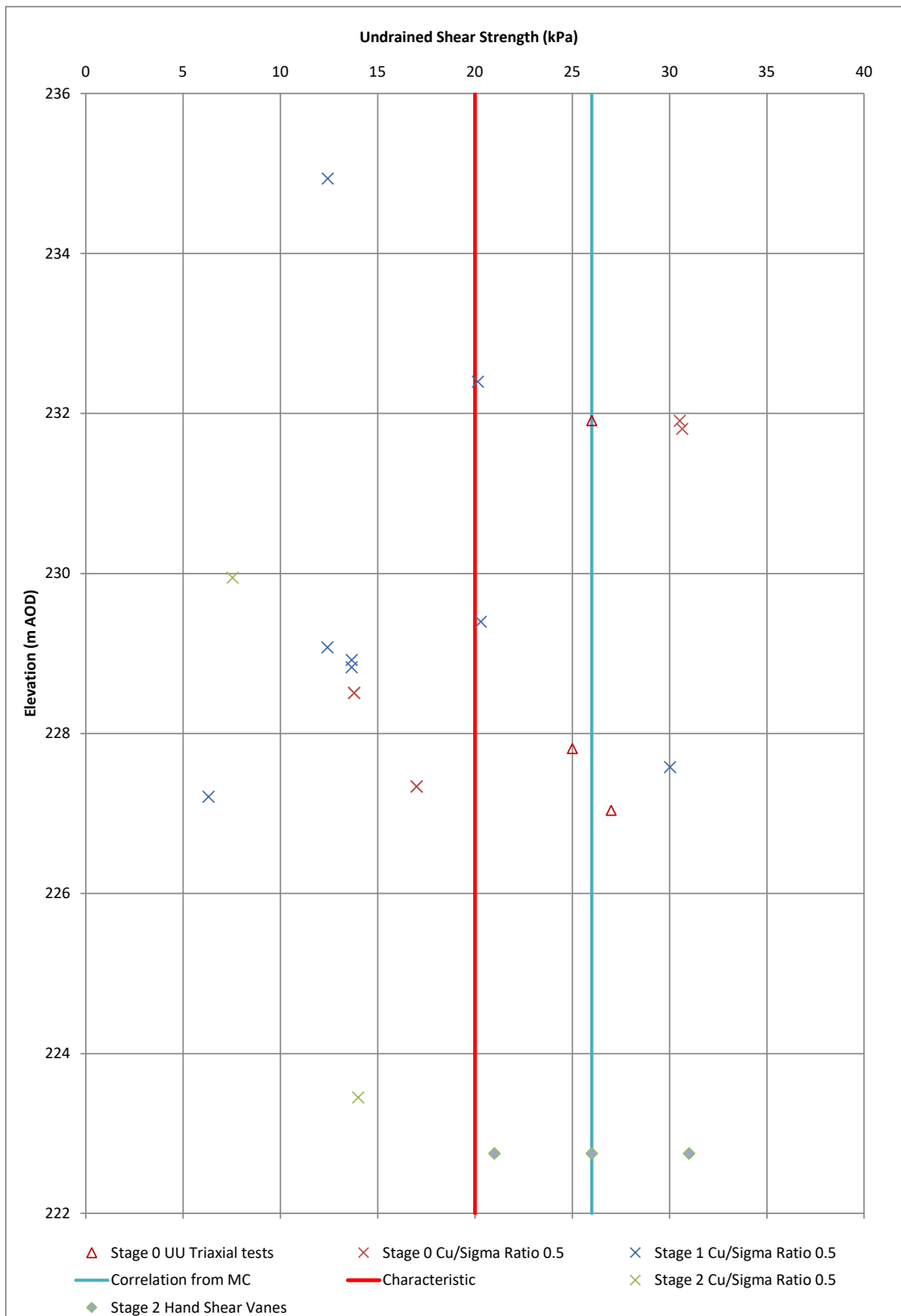


Figure B.7 - Peat Undrained Shear Strength

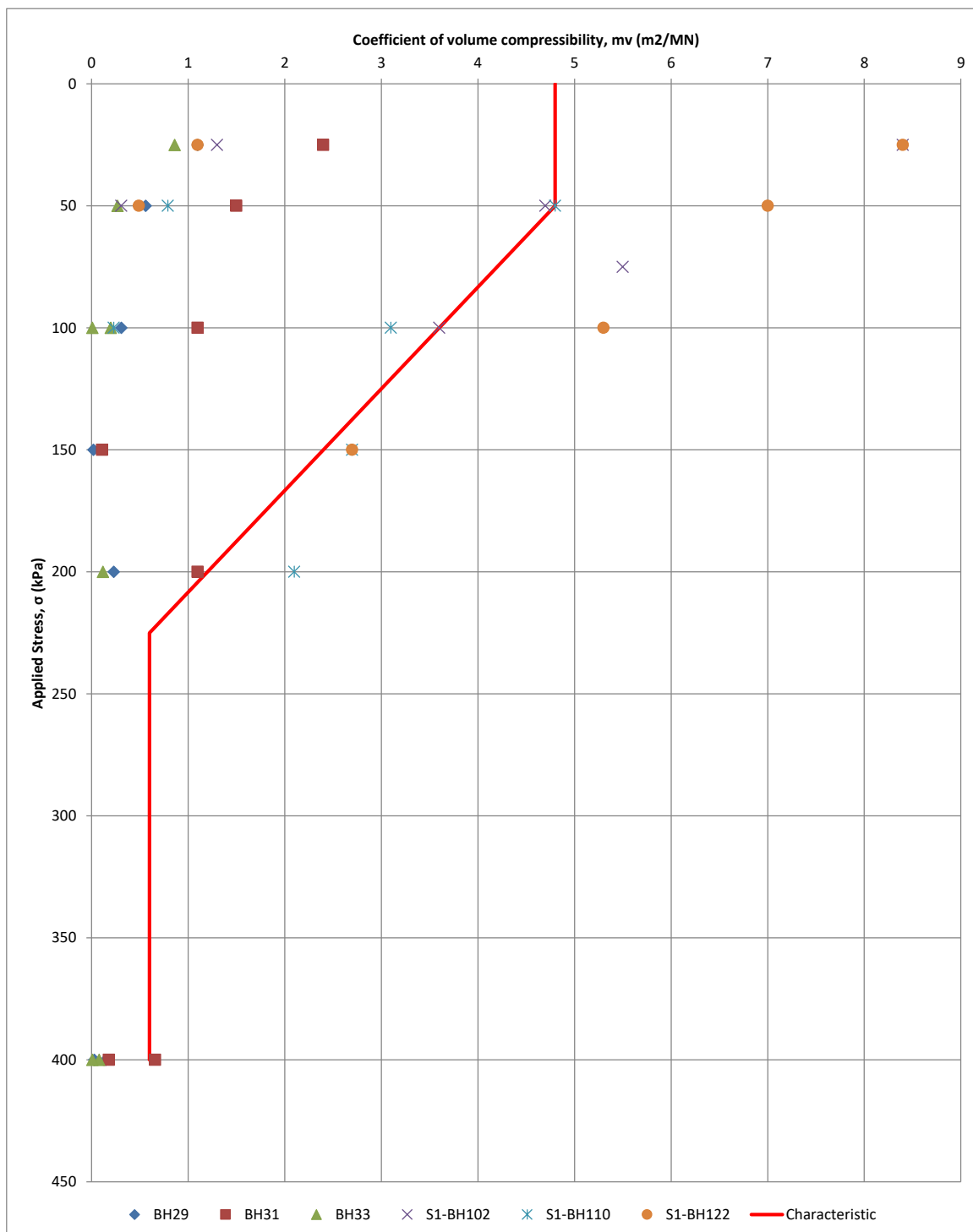


Figure B.8 - Peat Coefficient of Volume Compressibility

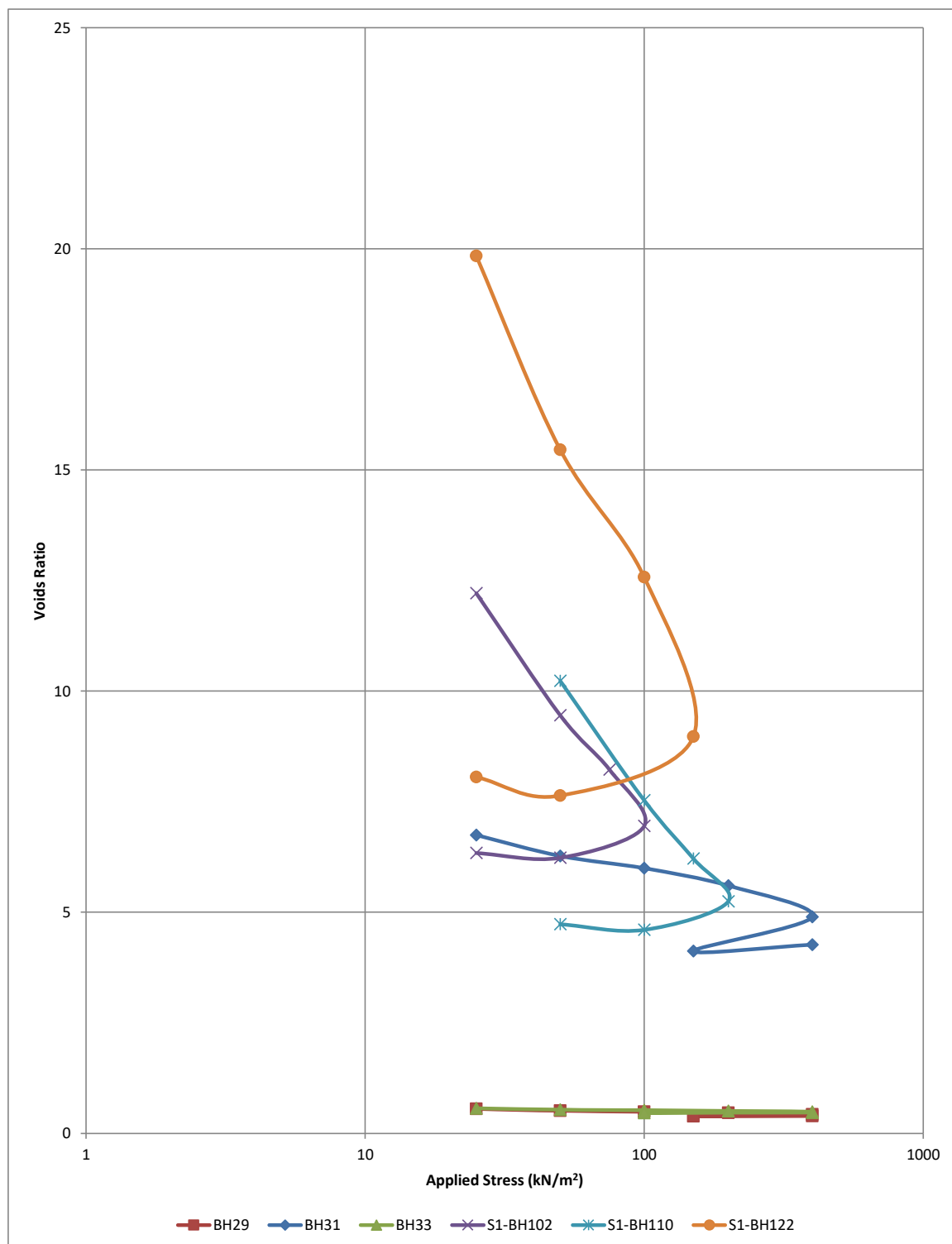


Figure B.9 - Peat Voids Ratio vs Applied Stress

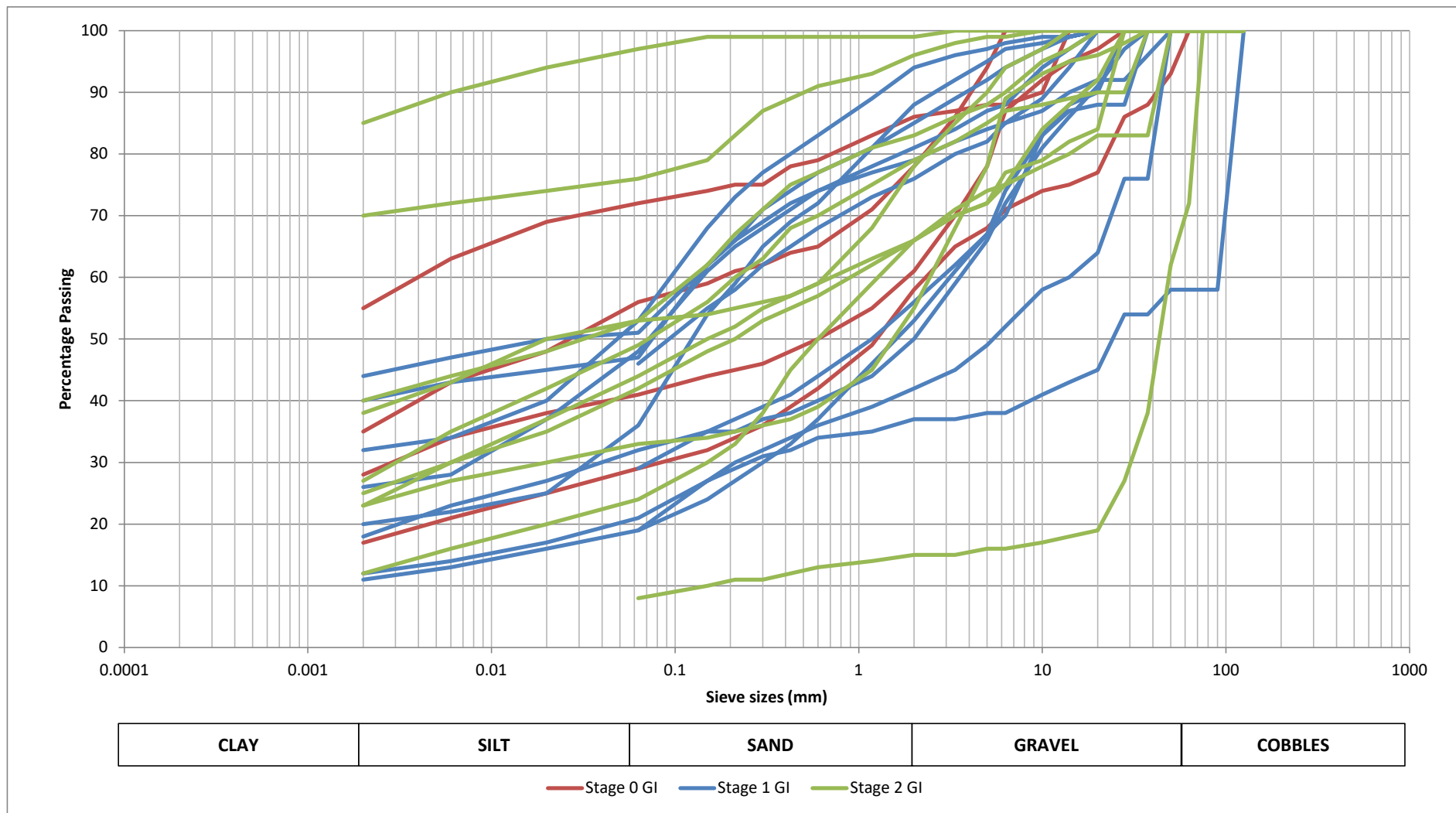


Figure B.10 - Glacial Till PSD

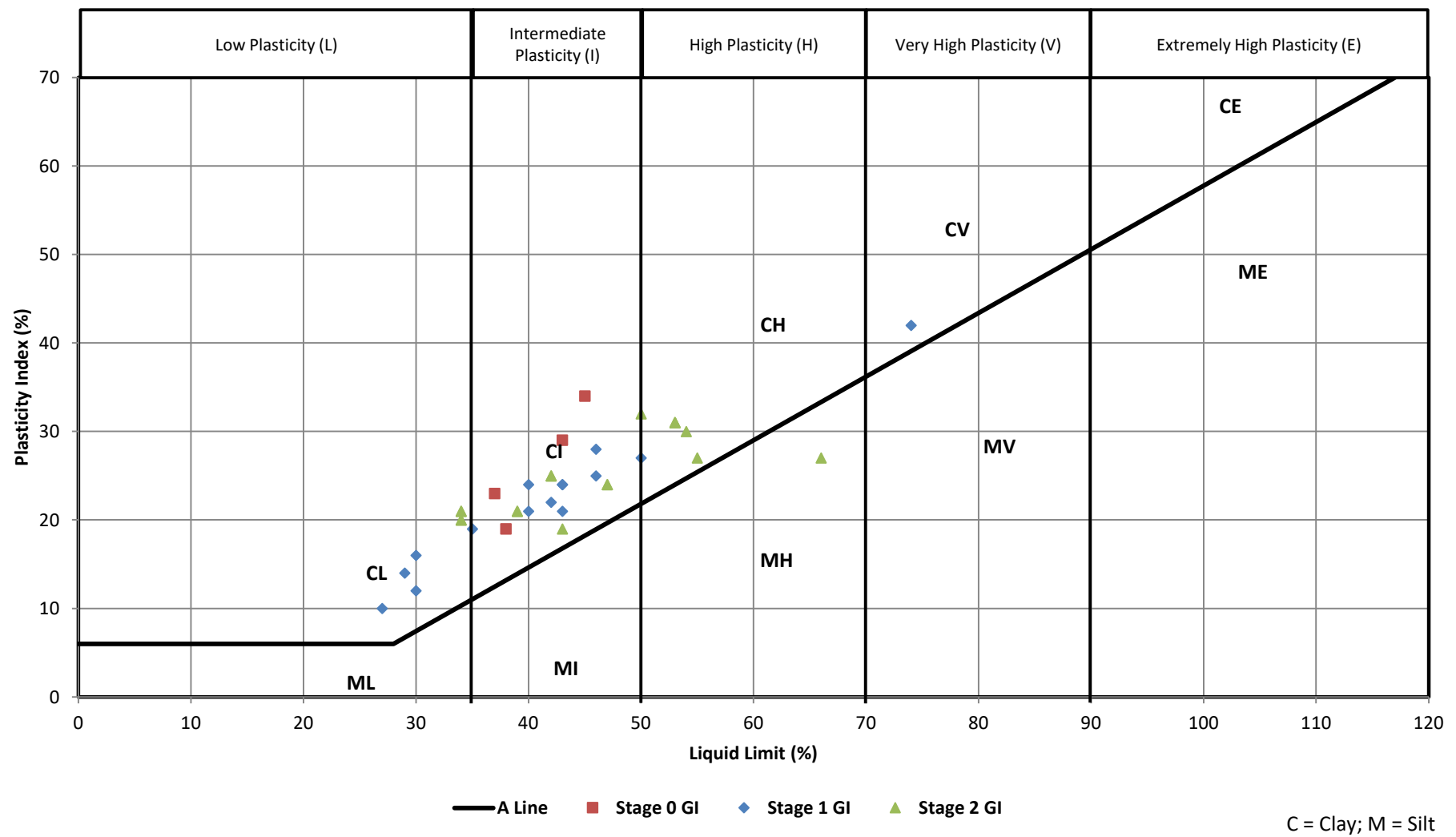


Figure B.11 - Glacial Till Plasticity Index

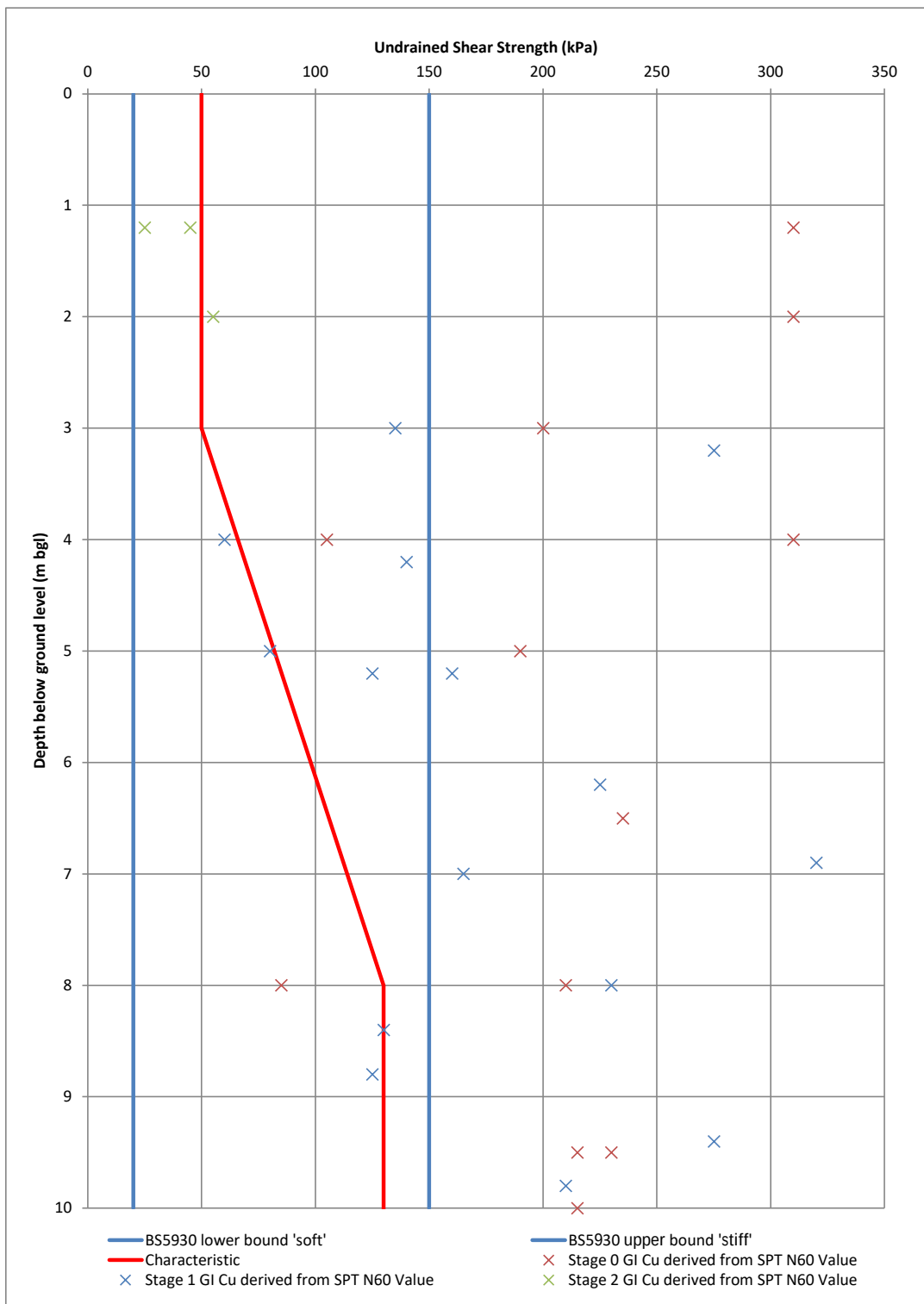


Figure B.12 - Glacial Till Undrained Shear Strength

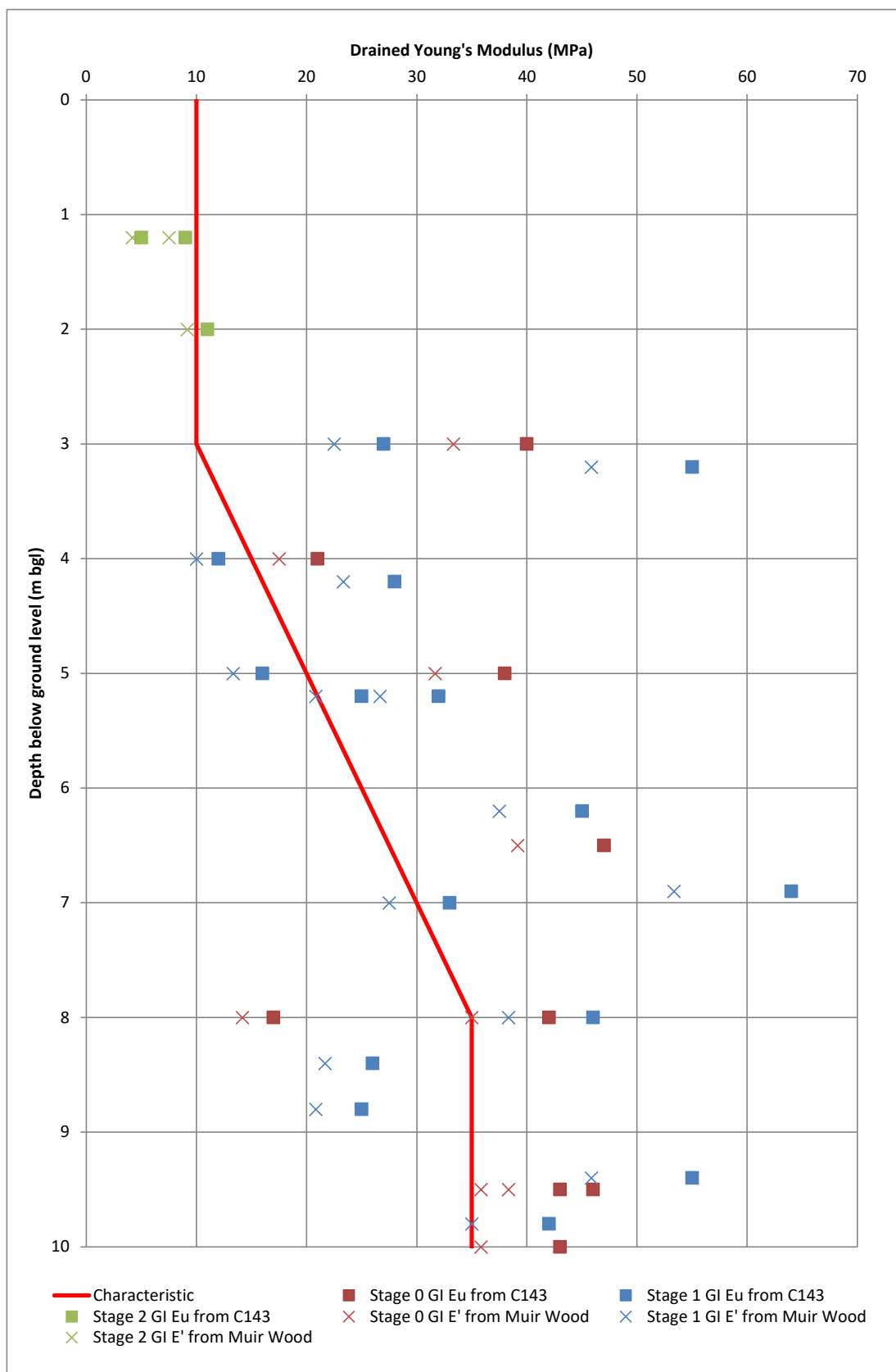


Figure B.13 - Glacial Till Drained Young's Modulus

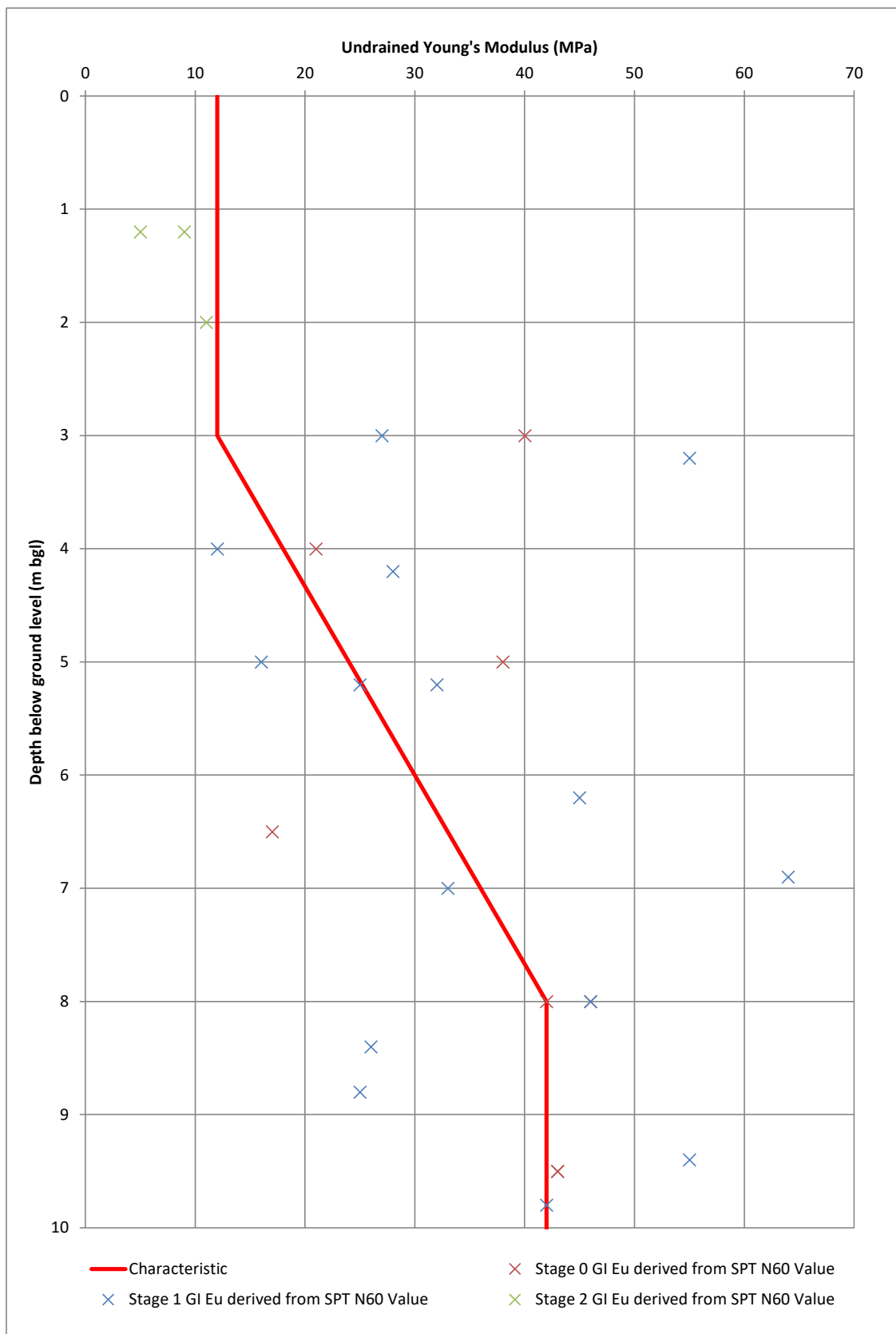


Figure B.14 - Glacial Till Undrained Young's Modulus

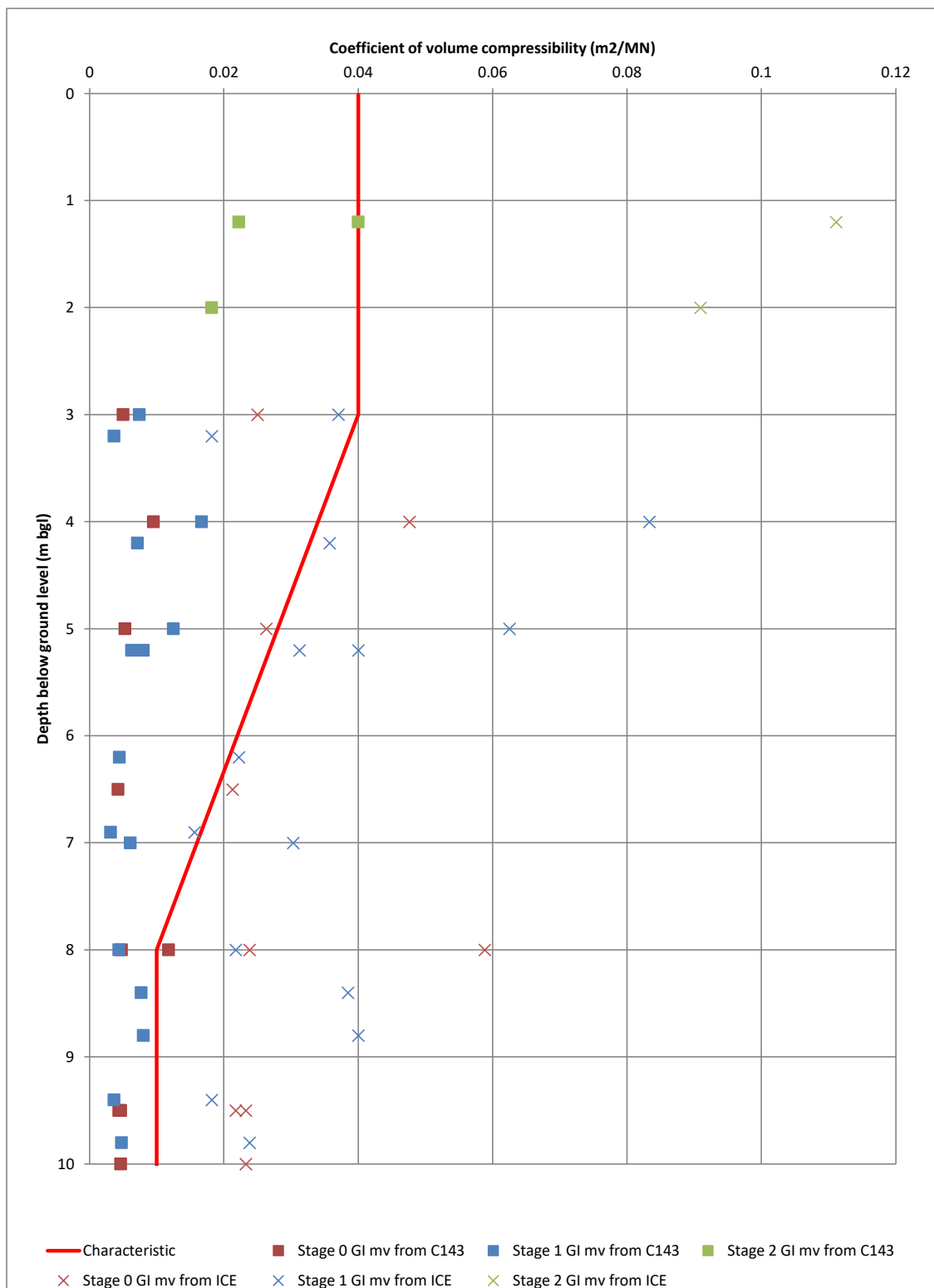


Figure B.15 - Glacial Till Coefficient of Volume Compressibility

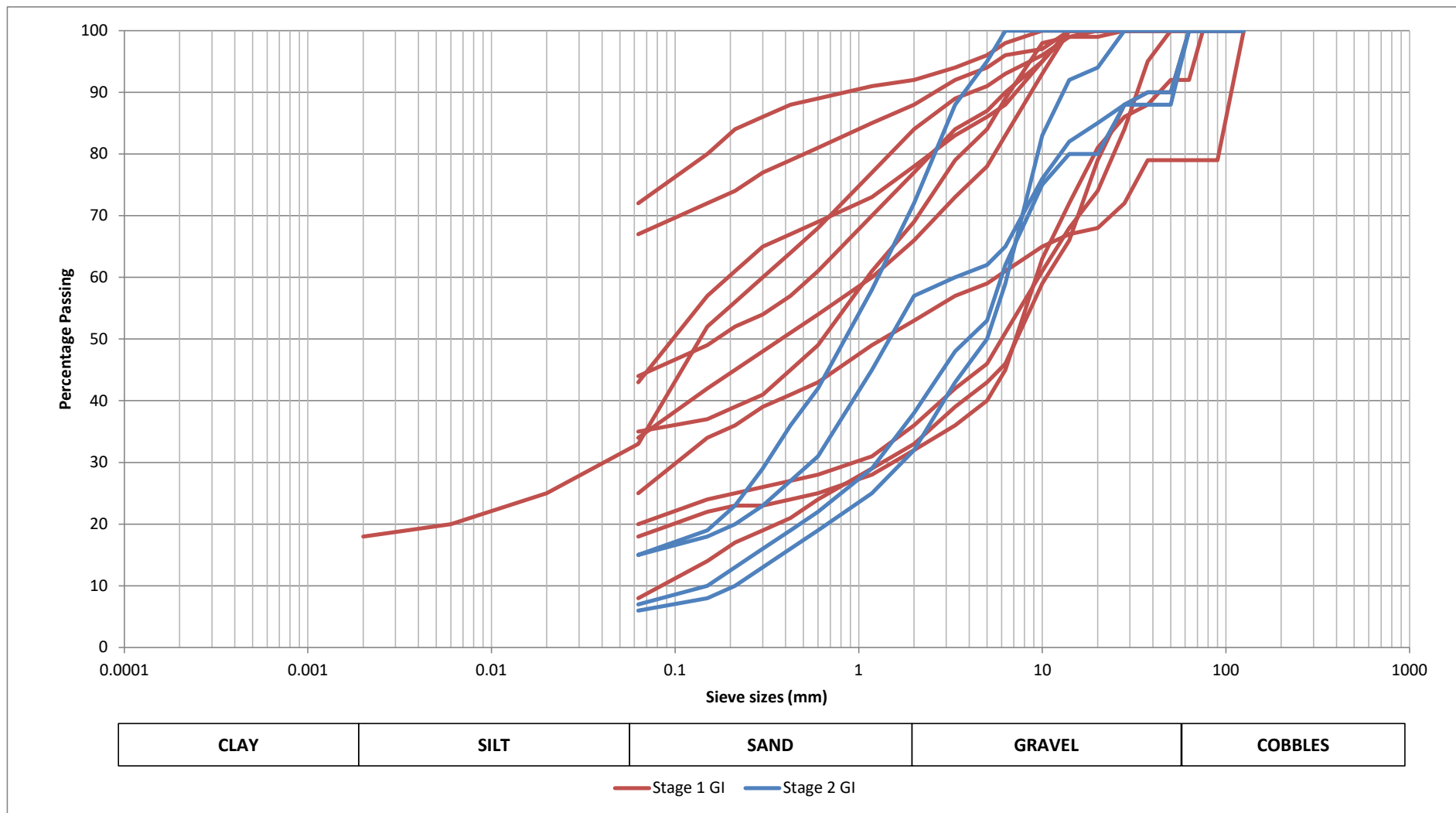


Figure B.16 - Weathered South Wales Coal Measures PSD

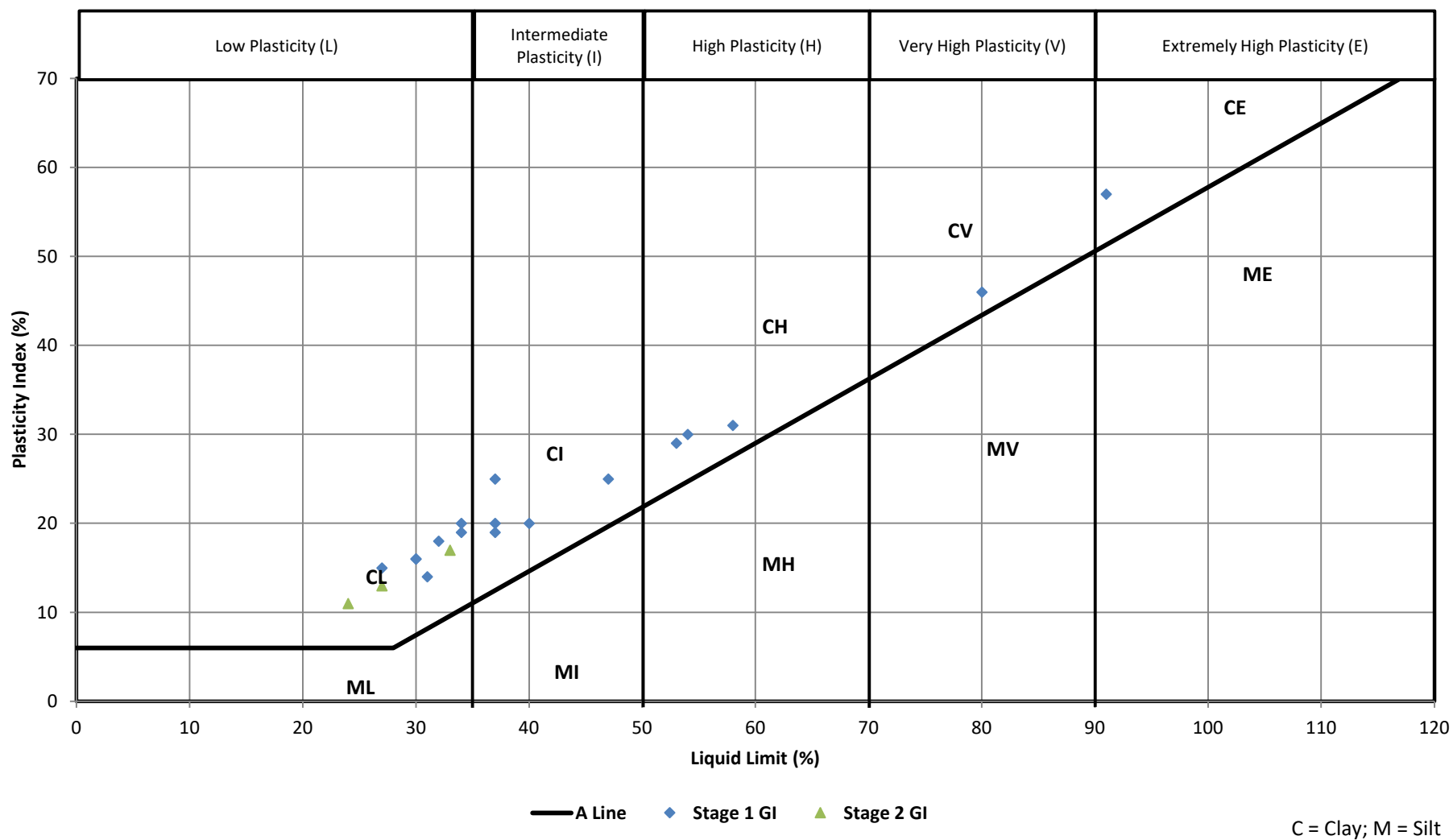


Figure B.17 - Weathered South Wales Coal Measures Plasticity Index

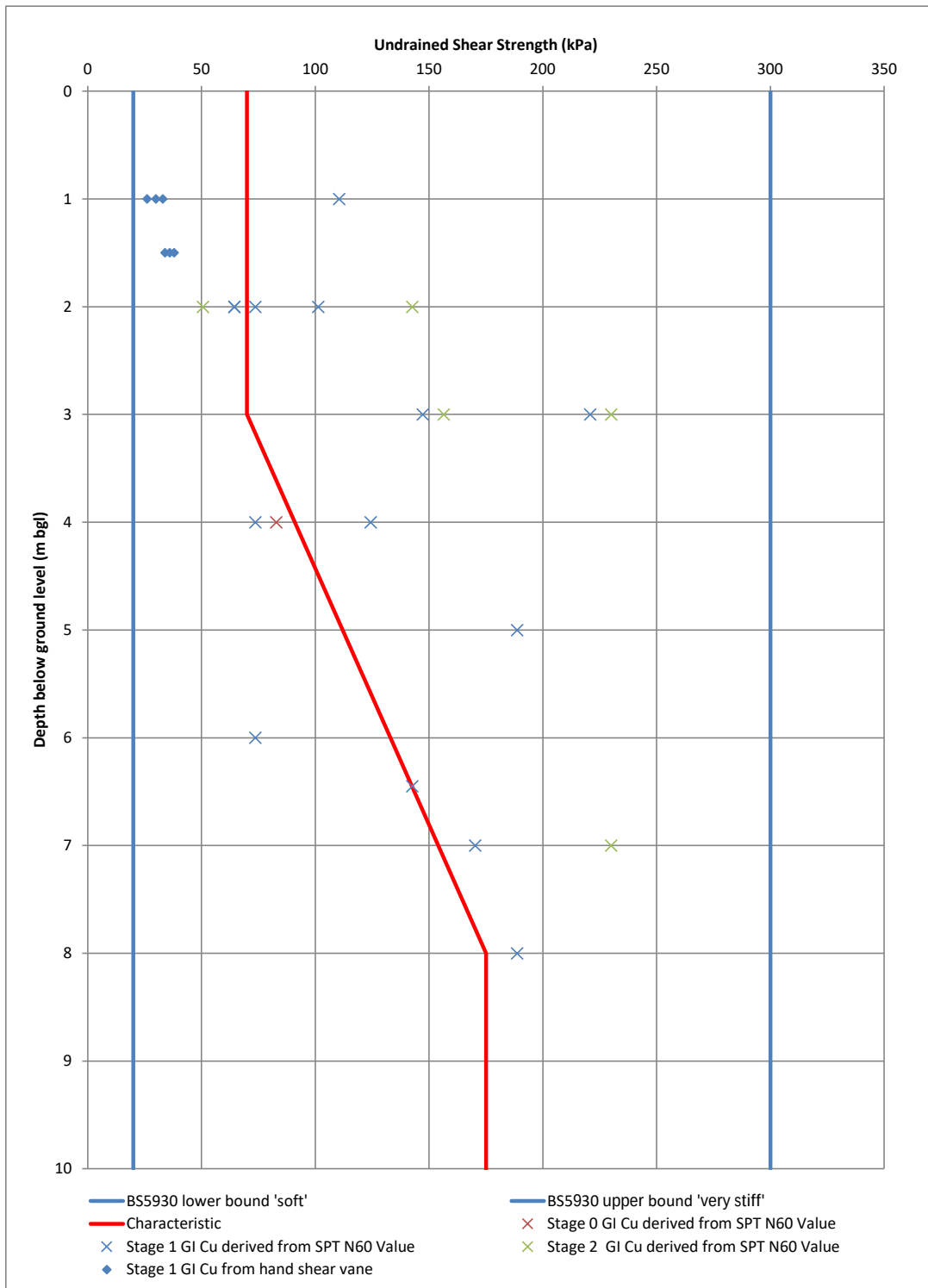


Figure B.18 - Weathered South Wales Coal Measures Undrained Shear Strength

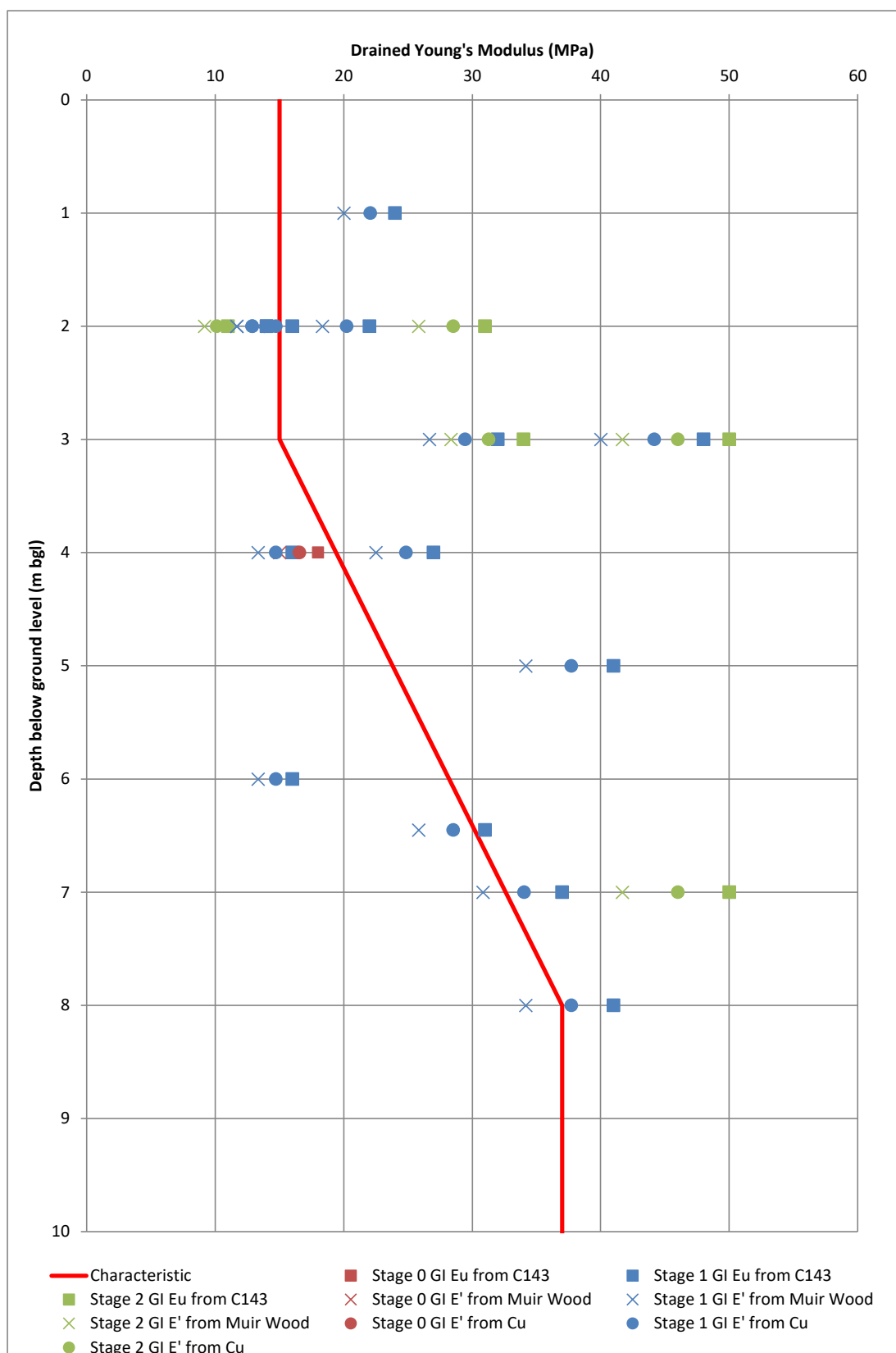


Figure B.19 - Weathered South Wales Coal Measures Drained Young's Modulus

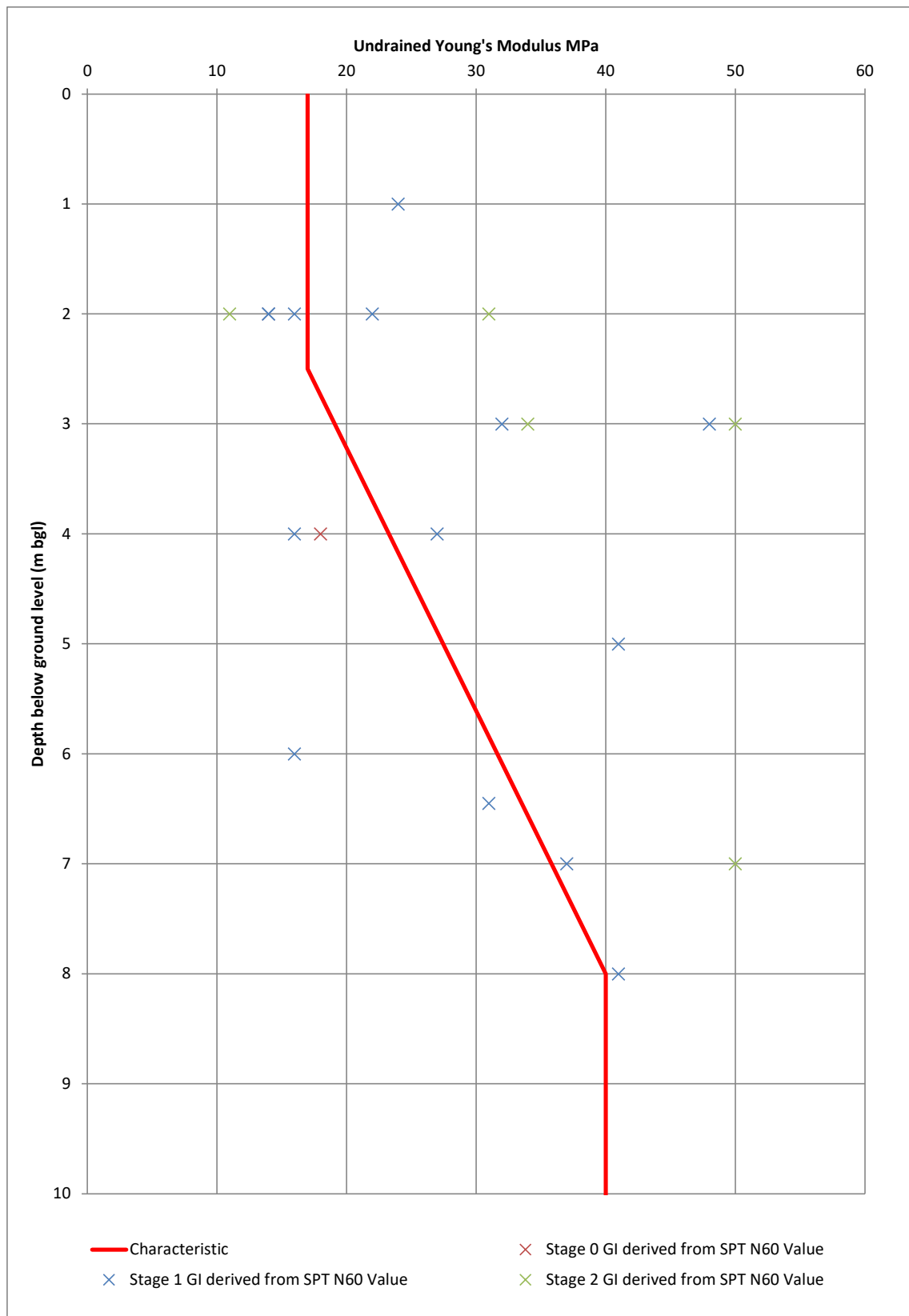


Figure B.20 - Weathered South Wales Coal Measures Undrained Young's Modulus

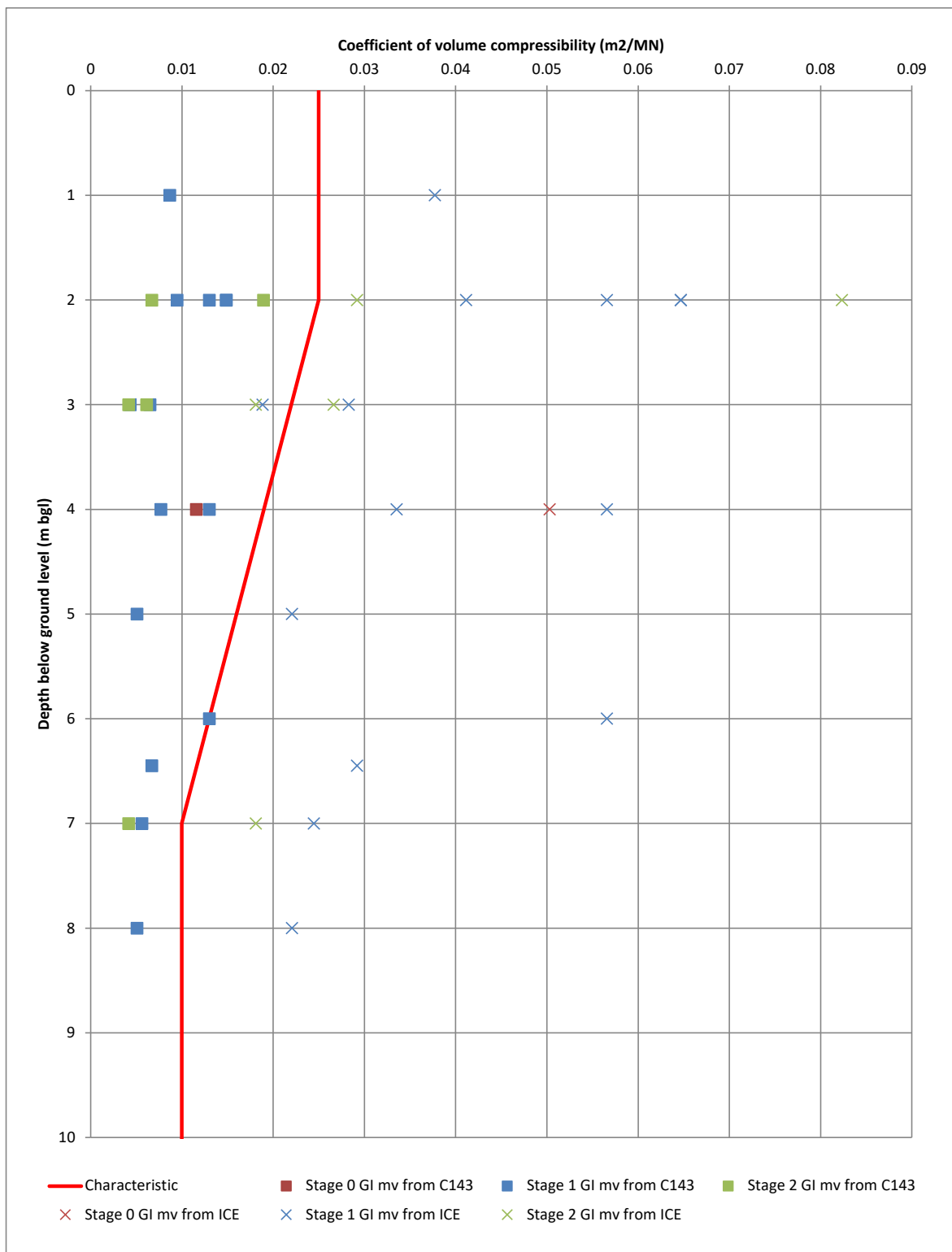


Figure B.21 - Weathered South Wales Coal Measures Coefficient of Volume Compressibility

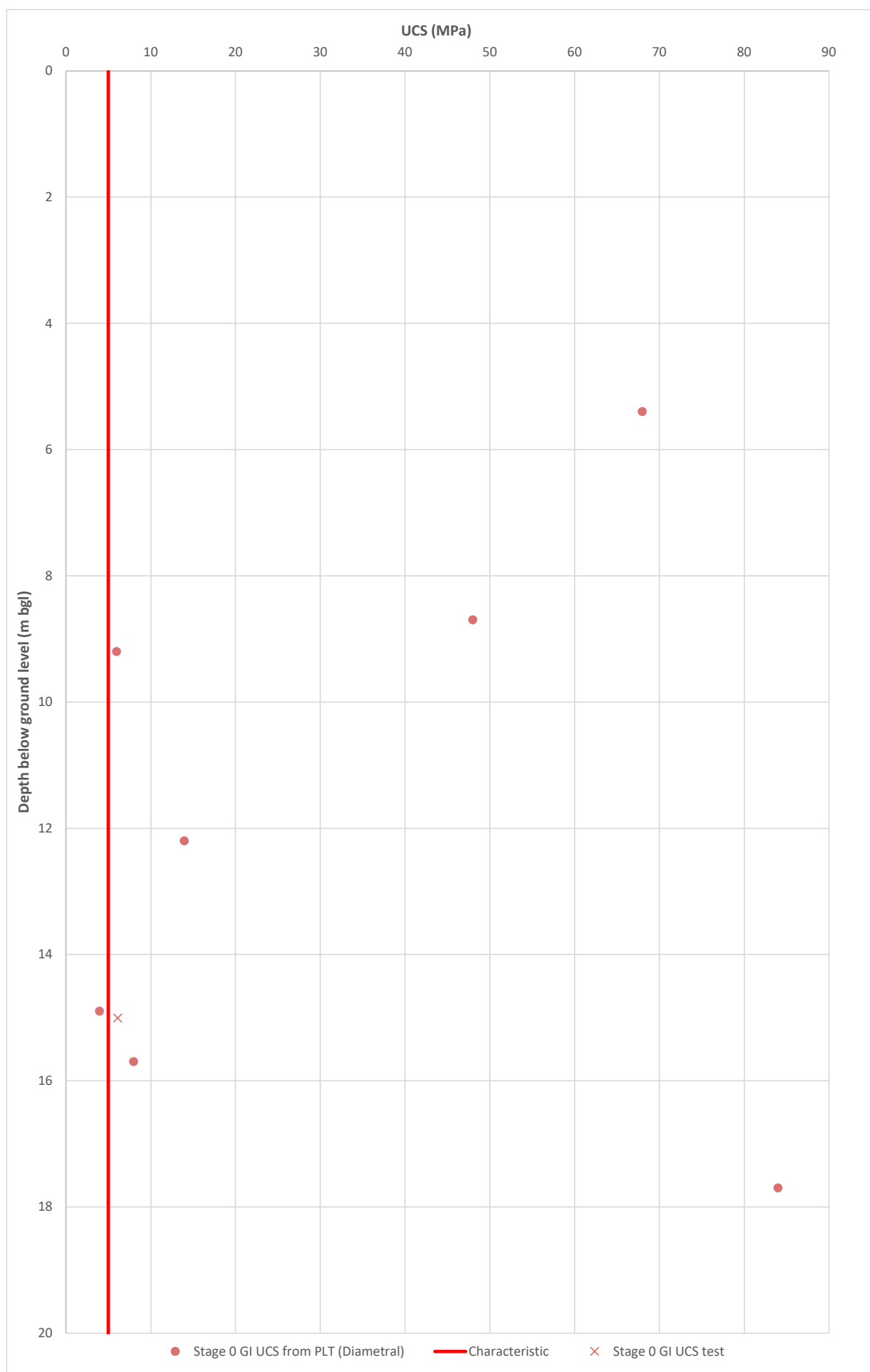


Figure B.22 - South Wales Coal Measures (Mudstone) UCS

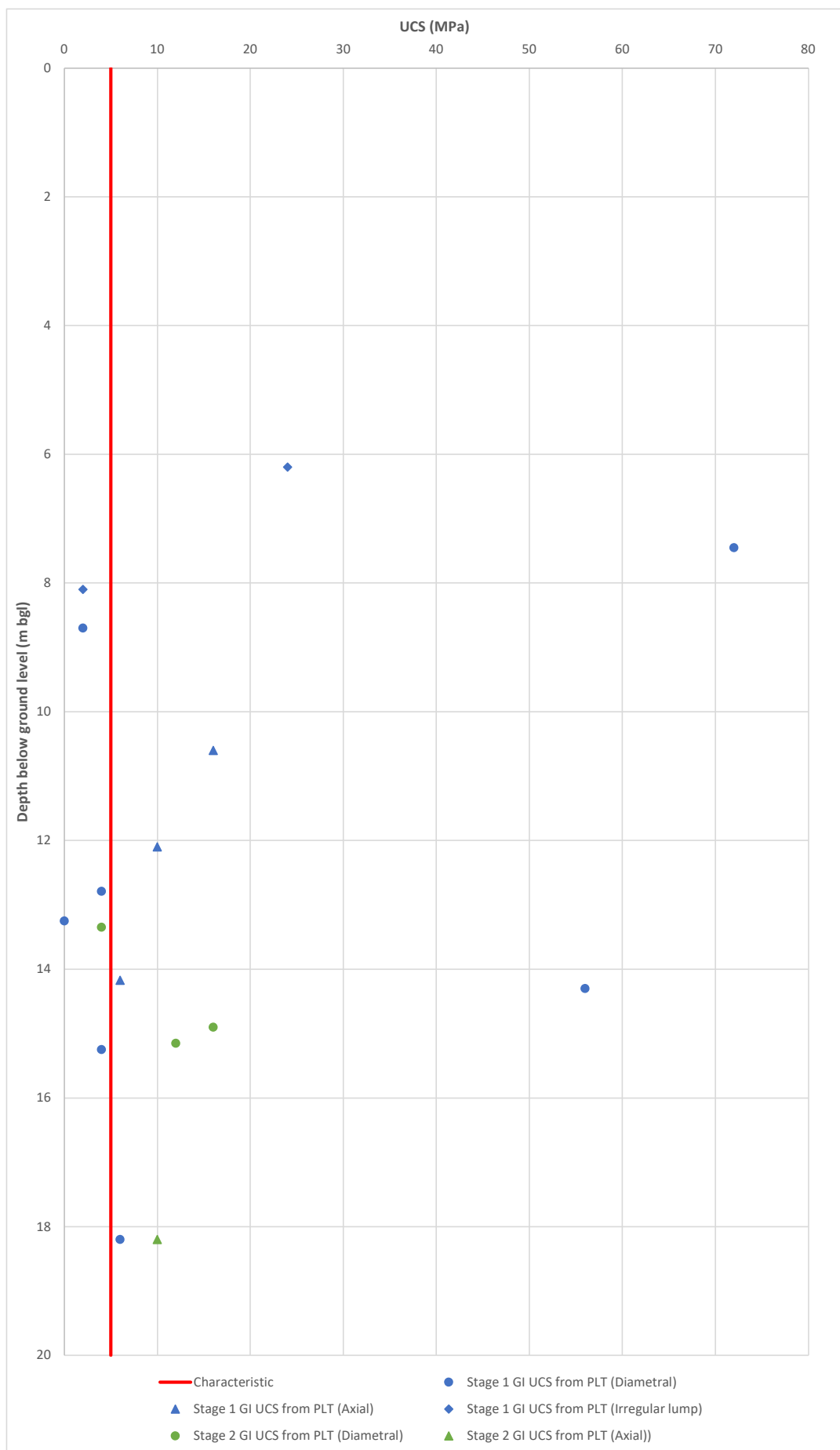


Figure B.23 - South Wales Coal Measures (Siltstone) UCS

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