

Appendix H Geoenvironmental Laboratory Test Results



2183

Final Report

Report No.: 23-03301-1
Initial Date of Issue: 13-Feb-2023
Client Soiltechnics Limited
Client Address: 1st Floor Unit 9 Westpoint Enterprise
Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project STV5936 Cowm Top, Rochdale

Quotation No.: **Date Received:** 02-Feb-2023

Order No.: POR014612 **Date Instructed:** 02-Feb-2023

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 08-Feb-2023

Date Approved: 13-Feb-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: STV5936 Cowm Top, Rochdale

Client: Soiltechnics Limited	Chemtest Job No.:				23-03301	23-03301	23-03301
Quotation No.:	Chemtest Sample ID.:				1583177	1583178	1583179
Order No.: POR014612	Client Sample Ref.:				01	01	01
	Client Sample ID.:				Spring1_0.00-01	Spring2_0.00-01	Spring3_0.00-01
	Sample Location:				Spring 1	Spring 2	Spring 3
	Sample Type:				WATER	WATER	WATER
	Date Sampled:				30-Jan-2023	30-Jan-2023	30-Jan-2023
Determinand	Accred.	SOP	Units	LOD			
pH	U	1010		N/A	7.7	7.3	7.3
Nitrate as NO3	U	1220	mg/l	0.50	3.7	< 0.50	< 0.50
Phosphate	U	1220	mg/l	0.200	< 0.20	< 0.20	< 0.20
Sulphate	U	1220	mg/l	1.0	13	14	26
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
Cyanide (Complex)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	[B] < 0.050	[B] < 0.050	[B] < 0.050
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.53	3.0	0.94
Boron (Dissolved)	U	1455	µg/l	10.0	35	34	41
Beryllium (Dissolved)	U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.15	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	5.2	5.2	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	18	4.0	2.6
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Nickel (Dissolved)	U	1455	µg/l	0.50	3.4	3.0	1.2
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	1.3	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	2.7	2.3	2.0
Vanadium (Dissolved)	U	1455	µg/l	0.50	1.2	2.3	1.1
Zinc (Dissolved)	U	1455	µg/l	2.5	60	10	2.6
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

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:
1583177	01	Spring1_0.00-01	Spring 1	30-Jan-2023	B	Coloured Winchester 1000ml
1583177	01	Spring1_0.00-01	Spring 1	30-Jan-2023	B	EPA Vial 40ml
1583178	01	Spring2_0.00-01	Spring 2	30-Jan-2023	B	Coloured Winchester 1000ml
1583178	01	Spring2_0.00-01	Spring 2	30-Jan-2023	B	EPA Vial 40ml
1583179	01	Spring3_0.00-01	Spring 3	30-Jan-2023	B	Coloured Winchester 1000ml
1583179	01	Spring3_0.00-01	Spring 3	30-Jan-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.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.
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).
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; Dibenz[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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Final Report

Report No.:	23-06674-1		
Initial Date of Issue:	03-Mar-2023		
Client	Soiltechnics Limited		
Client Address:	Cedar Barn White Lodge Walgrave Northampton Northamptonshire NN6 9PY		
Contact(s):	Admin		
Project	STV5936 Cowm Top, Rochdale		
Quotation No.:		Date Received:	27-Feb-2023
Order No.:	POR014778	Date Instructed:	27-Feb-2023
No. of Samples:	3		
Turnaround (Wkdays):	5	Results Due:	03-Mar-2023
Date Approved:	03-Mar-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Water

Project: STV5936 Cowm Top, Rochdale

Client: Soiltechnics Limited	Chemtest Job No.:				23-06674	23-06674	23-06674
Quotation No.:	Chemtest Sample ID.:				1597962	1597963	1597964
Order No.: POR014778	Client Sample Ref.:				02	02	01
	Client Sample ID.:				Spring1_0.00-02	Spring3_0.00-02	Spring4_0.00-01
	Sample Location:				Spring 1	Spring 3	Spring 4
	Sample Type:				WATER	WATER	WATER
	Date Sampled:				22-Feb-2023	22-Feb-2023	22-Feb-2023
Determinand	Accred.	SOP	Units	LOD			
pH	U	1010		N/A	7.2	7.2	6.9
Nitrate as NO3	U	1220	mg/l	0.50	2.5	1.1	1.1
Phosphate	U	1220	mg/l	0.200	< 0.20	< 0.20	< 0.20
Sulphate	U	1220	mg/l	1.0	14	35	23
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
Cyanide (Complex)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	[B] < 0.050	[B] < 0.050	[B] < 0.050
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.61	0.57	0.45
Boron (Dissolved)	U	1455	µg/l	10.0	57	56	61
Beryllium (Dissolved)	U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.33	0.13	0.20
Chromium (Dissolved)	U	1455	µg/l	0.50	1.2	< 0.50	< 0.50
Copper (Dissolved)	U	1455	µg/l	0.50	30	8.3	3.6
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Nickel (Dissolved)	U	1455	µg/l	0.50	4.6	2.8	2.7
Lead (Dissolved)	U	1455	µg/l	0.50	0.64	0.52	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	2.8	2.6	2.6
Vanadium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	110	9.8	25
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

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:
1597962	02	Spring1_0.00-02	Spring 1	22-Feb-2023	B	Coloured Winchester 1000ml
1597962	02	Spring1_0.00-02	Spring 1	22-Feb-2023	B	EPA Vial 40ml
1597963	02	Spring3_0.00-02	Spring 3	22-Feb-2023	B	Coloured Winchester 1000ml
1597963	02	Spring3_0.00-02	Spring 3	22-Feb-2023	B	EPA Vial 40ml
1597964	01	Spring4_0.00-01	Spring 4	22-Feb-2023	B	Coloured Winchester 1000ml
1597964	01	Spring4_0.00-01	Spring 4	22-Feb-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.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.
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).
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; Dibenz[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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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

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.: 23-09123-1
Initial Date of Issue: 24-Mar-2023
Client Soiltechnics Limited
Client Address: 1st Floor Unit 9 Westpoint Enterprise
Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project STV5936 Cowm Top, Rochdale

Quotation No.: **Date Received:** 17-Mar-2023

Order No.: POR014949 **Date Instructed:** 17-Mar-2023

No. of Samples: 3

Turnaround (Wkdays): 5 **Results Due:** 23-Mar-2023

Date Approved: 24-Mar-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: STV5936 Cowm Top, Rochdale

Client: Soiltechnics Limited	Chemtest Job No.:				23-09123	23-09123	23-09123
Quotation No.:	Chemtest Sample ID.:				1609325	1609326	1609327
Order No.: POR014949	Client Sample Ref.:				03	03	03
	Client Sample ID.:				Spring1_0.00-03	Spring3_0.00-03	Spring4_0.00-02
	Sample Location:				Spring 1	Spring 3	Spring 4
	Sample Type:				WATER	WATER	WATER
	Top Depth (m):				0.00	0.00	0.00
	Date Sampled:				14-Mar-2023	14-Mar-2023	14-Mar-2023
Determinand	Accred.	SOP	Units	LOD			
pH	U	1010		N/A	7.2	7.3	7.3
Nitrate as NO3	U	1220	mg/l	0.50	12	13	7.4
Phosphate	U	1220	mg/l	0.200	< 0.20	< 0.20	< 0.20
Sulphate	U	1220	mg/l	1.0	9.5	18	11
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
Cyanide (Complex)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	[B] 0.20	[B] 0.19	[B] 0.19
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.79	0.34	0.38
Boron (Dissolved)	U	1455	µg/l	10.0	23	31	28
Beryllium (Dissolved)	U	1455	µg/l	1.00	< 1.0	< 1.0	< 1.0
Cadmium (Dissolved)	U	1455	µg/l	0.11	0.21	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	19	2.1	5.0
Copper (Dissolved)	U	1455	µg/l	0.50	19	7.6	3.3
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Nickel (Dissolved)	U	1455	µg/l	0.50	4.0	1.4	1.7
Lead (Dissolved)	U	1455	µg/l	0.50	1.5	< 0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50	< 0.50
Vanadium (Dissolved)	U	1455	µg/l	0.50	0.71	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	77	9.4	16
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

Results - Water

Project: STV5936 Cowm Top, Rochdale

Client: Soiltechnics Limited	Chemtest Job No.:				23-09123	23-09123	23-09123
Quotation No.:	Chemtest Sample ID.:				1609325	1609326	1609327
Order No.: POR014949	Client Sample Ref.:				03	03	03
	Client Sample ID.:				Spring1_0.00-03	Spring3_0.00-03	Spring4_0.00-02
	Sample Location:				Spring 1	Spring 3	Spring 4
	Sample Type:				WATER	WATER	WATER
	Top Depth (m):				0.00	0.00	0.00
	Date Sampled:				14-Mar-2023	14-Mar-2023	14-Mar-2023
Determinand	Accred.	SOP	Units	LOD			
Total Phenols	U	1920	mg/l	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:
1609325	03	Spring1_0.00-03	Spring 1	14-Mar-2023	B	Coloured Winchester 1000ml
1609325	03	Spring1_0.00-03	Spring 1	14-Mar-2023	B	EPA Vial 40ml
1609326	03	Spring3_0.00-03	Spring 3	14-Mar-2023	B	Coloured Winchester 1000ml
1609326	03	Spring3_0.00-03	Spring 3	14-Mar-2023	B	EPA Vial 40ml
1609327	03	Spring4_0.00-02	Spring 4	14-Mar-2023	B	Coloured Winchester 1000ml
1609327	03	Spring4_0.00-02	Spring 4	14-Mar-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.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.
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).
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.: 24-25015-1

Initial Date of Issue: 19-Aug-2024

Re-Issue Details:

Client Soiltechnics Limited

Client Address: 1st Floor Unit 9 Westpoint Enterprise
Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project STV5936 Cowm Top

Quotation No.: **Date Received:** 05-Aug-2024

Order No.: POR019404 **Date Instructed:** 05-Aug-2024

No. of Samples: 49

Turnaround (Wkdays): 5 **Results Due:** 09-Aug-2024

Date Approved: 19-Aug-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846210	1846211	1846212	1846213	1846214	1846215	1846216	1846217
Order No.: POR019404		Client Sample Ref.:					2	6	14	1	1	1	2	1
		Client Sample ID.:					TP03-0.7-2	TP03-0.1-6	BH05-0.1-14	TP04-0.1-1	TP06-0.1-1	TP07-0.1-1	TP07-0.4-2	TP10-0.1-1
		Sample Location:					TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.70	0.10	0.10	0.10	0.10	0.10	0.40	0.10
		Bottom Depth (m):					1.30		0.45					
		Date Sampled:					15-Jul-2024	15-Jul-2024	15-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	18-Jul-2024
		Time Sampled:					15:53	15:54	16:19	10:30	11:30	12:42	12:43	8:43
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	19	12	15	22	15	25	13	24	
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones, Roots and Wood	Roots	Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Sand	
pH at 20C		M	2010		4.0	8.1	8.2	7.9	8.2	8.2	8.3	8.4	8.3	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.64	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] 0.50	[B] 0.50	[B] 0.80	[B] 1.2	[B] 1.0	[B] 0.60	[B] < 0.50	[B] 0.60	
Cyanide (Total)		M	2300	mg/kg	0.50	[B] 0.50	[B] 0.90	[B] 0.90	[B] 1.3	[B] 1.1	[B] 0.70	[B] < 0.50	[B] 0.60	
Arsenic		M	2455	mg/kg	0.5	10	18	10	12	4.2	7.0	5.8	9.3	
Beryllium		U	2455	mg/kg	0.5	< 0.5	3.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.21	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	14	56	7.9	9.2	14	23	16	28	
Copper		M	2455	mg/kg	0.50	19	130	25	25	9.9	17	16	19	
Mercury		M	2455	mg/kg	0.05	0.11	0.12	0.12	0.11	0.05	0.08	< 0.05	0.10	
Nickel		M	2455	mg/kg	0.50	12	55	6.4	7.1	9.4	13	16	11	
Lead		M	2455	mg/kg	0.50	36	120	38	62	19	35	14	46	
Selenium		M	2455	mg/kg	0.25	0.26	0.50	0.37	0.45	< 0.25	0.63	< 0.25	0.37	
Vanadium		U	2455	mg/kg	0.5	19	72	18	17	12	18	15	19	
Zinc		M	2455	mg/kg	0.50	46	140	27	25	27	42	36	49	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	3.6	38	3.1	6.0	3.6	3.6	1.3	3.8	
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 4.3	[B] < 1.0	[B] < 1.0	[B] 3.8	[B] 3.3	

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846210	1846211	1846212	1846213	1846214	1846215	1846216	1846217
Order No.: POR019404		Client Sample Ref.:				2	6	14	1	1	1	2	1
		Client Sample ID.:				TP03-0.7-2	TP03-0.1-6	BH05-0.1-14	TP04-0.1-1	TP06-0.1-1	TP07-0.1-1	TP07-0.4-2	TP10-0.1-1
		Sample Location:				TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.70	0.10	0.10	0.10	0.10	0.10	0.40	0.10
		Bottom Depth (m):				1.30		0.45					
		Date Sampled:				15-Jul-2024	15-Jul-2024	15-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	18-Jul-2024
		Time Sampled:				15:53	15:54	16:19	10:30	11:30	12:42	12:43	8:43
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 10	[B] < 1.0	[B] < 1.0	[B] 9.6	[B] 9.6
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 8.9	[B] 7.9	[B] < 1.0	[B] 11	[B] 9.7
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 9.7	[B] 7.2	[B] < 1.0	[B] 7.3	[B] 7.0
Total TPH >C5-C35		N	2670	mg/kg	10	[B] < 10	[B] < 10	[B] < 10	[B] 33	[B] 15	[B] < 10	[B] 31	[B] 30
Naphthalene		M	2800	mg/kg	0.10	< 0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.46	< 0.10	< 0.10	0.49	< 0.10	< 0.10	0.26
Pyrene		M	2800	mg/kg	0.10	< 0.10	0.57	< 0.10	< 0.10	0.52	< 0.10	< 0.10	0.26
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	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		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	2.9	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846218	1846219	1846220	1846221	1846222	1846223	1846225
Order No.: POR019404		Client Sample Ref.:					2	1	1	1	2	1	2
		Client Sample ID.:					TP10-0.8-2	TP15-0.1-1	TP12-0.1-1	TP09-0.1-1	TP09-1.0--2	TP14-0.1-1	TP11-0.6-2
		Sample Location:					TP10	TP15	TP12	TP09	TP09	TP14	TP11
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.80	0.10	0.10	0.10	1.00	0.10	0.60
		Bottom Depth (m):											
		Date Sampled:					18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024
		Time Sampled:					9:51	10:18	10:32	11:07	11:07	11:55	12:19
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	14	21	22	26	15	27	12	23
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	None	Roots	Roots	Roots	Stones	Roots	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Sand	Sand	Sand	Clay	Sand	Clay	Sand
pH at 20C		M	2010		4.0	8.7	8.8	8.6	8.7	8.6	8.4	8.5	8.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.68	0.45	0.73	< 0.40	1.4	< 0.40	0.45
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] < 0.50	[B] 0.80	[B] 0.80	[B] 0.70	[B] < 0.50	[B] 0.60	[B] < 0.50	[B] < 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] 1.0	[B] 0.90	[B] 0.70	[B] < 0.50	[B] 0.70	[B] < 0.50	[B] 0.50
Arsenic		M	2455	mg/kg	0.5	5.4	11	15	4.4	5.0	4.4	14	12
Beryllium		U	2455	mg/kg	0.5	< 0.5	0.7	< 0.5	< 0.5	0.6	< 0.5	0.7	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.52	0.12	< 0.10	< 0.10	< 0.10	0.11	< 0.10
Chromium		M	2455	mg/kg	0.5	15	19	15	13	19	14	76	17
Copper		M	2455	mg/kg	0.50	16	26	35	13	16	14	31	35
Mercury		M	2455	mg/kg	0.05	< 0.05	0.09	0.12	0.05	< 0.05	0.06	0.10	0.08
Nickel		M	2455	mg/kg	0.50	19	7.3	8.2	7.6	22	9.3	31	17
Lead		M	2455	mg/kg	0.50	16	71	57	24	9.9	29	51	46
Selenium		M	2455	mg/kg	0.25	0.62	2.4	0.55	0.31	0.39	0.36	0.98	0.55
Vanadium		U	2455	mg/kg	0.5	17	15	18	11	19	12	30	23
Zinc		M	2455	mg/kg	0.50	39	39	48	26	39	36	89	55
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	0.83	6.0	5.2	5.9	1.1	7.1	2.2	6.9
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] 3.8	[B] 4.4	[B] 4.4	[B] 4.8	[B] < 1.0	[B] 4.4	[B] < 1.0	[B] 5.4

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846218	1846219	1846220	1846221	1846222	1846223	1846224	1846225
Order No.: POR019404		Client Sample Ref.:				2	1	1	1	2	1	2	3
		Client Sample ID.:				TP10-0.8-2	TP15-0.1-1	TP12-0.1-1	TP09-0.1-1	TP09-1.0--2	TP14-0.1-1	TP11-0.6-2	TP08-0.9-3
		Sample Location:				TP10	TP15	TP12	TP09	TP09	TP14	TP11	TP08
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.80	0.10	0.10	0.10	1.00	0.10	0.60	0.90
		Bottom Depth (m):											
		Date Sampled:				18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024
		Time Sampled:				9:51	10:18	10:32	11:07	11:07	11:55	12:19	12:33
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] 11	[B] 10	[B] 10	[B] 12	[B] < 1.0	[B] 11	[B] < 1.0	[B] 14
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] 9.6	[B] 7.8	[B] 8.4	[B] 8.8	[B] < 1.0	[B] 11	[B] < 1.0	[B] 14
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] 5.3	[B] 6.9	[B] 6.7	[B] 6.3	[B] < 1.0	[B] 7.2	[B] < 1.0	[B] 11
Total TPH >C5-C35		N	2670	mg/kg	10	[B] 30	[B] 29	[B] 30	[B] 32	[B] < 10	[B] 34	[B] < 10	[B] 44
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.23	0.17	0.39	< 0.10	< 0.10	< 0.10	0.21
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.15	0.48	0.33	0.45	< 0.10	< 0.10	< 0.10	0.33
Pyrene		M	2800	mg/kg	0.10	0.18	0.45	0.33	0.39	< 0.10	< 0.10	< 0.10	0.29
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	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		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846226	1846227	1846228	1846229	1846230	1846231	1846233
Order No.: POR019404		Client Sample Ref.:					1	1	4	1	1	1	1
		Client Sample ID.:					TP16-0.1-1	WS04-0.15-1	BH010.104	BH020.101	BH030.101	BH060.101	TP20-0.1-1
		Sample Location:					TP16	WS04	BH01	BH02	BH03	BH06	TP20
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.10	0.15	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):							0.35		0.40		
		Date Sampled:					18-Jul-2024	23-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	25-Jul-2024
		Time Sampled:					15:29	14:50	0:00	0:00	0:00	0:00	12:36
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	19	27	21	22	19	20	30	26
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Roots	Roots	Roots	Roots	Roots	Roots	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH at 20C		M	2010		4.0	8.5	8.7	8.6	8.7	8.8	8.9	8.9	8.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	0.56	0.49	0.41	0.63	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] 0.60	1.1	0.50	0.70	0.80	0.70	0.80	< 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] 0.70	1.3	0.60	0.80	1.4	0.80	1.1	< 0.50
Arsenic		M	2455	mg/kg	0.5	11	10	8.4	14	10	11	9.9	23
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	0.79
Chromium		M	2455	mg/kg	0.5	9.2	8.9	9.8	8.6	6.3	10	12	14
Copper		M	2455	mg/kg	0.50	24	30	13	72	56	23	54	190
Mercury		M	2455	mg/kg	0.05	0.11	0.10	0.05	0.21	0.17	0.11	0.14	0.06
Nickel		M	2455	mg/kg	0.50	6.7	10	7.5	8.0	5.7	7.6	7.5	44
Lead		M	2455	mg/kg	0.50	47	52	24	57	44	51	58	50
Selenium		M	2455	mg/kg	0.25	0.65	0.55	0.63	0.58	0.49	0.44	0.37	1.4
Vanadium		U	2455	mg/kg	0.5	14	17	16	18	14	16	19	55
Zinc		M	2455	mg/kg	0.50	24	35	27	36	25	28	53	160
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	5.0	11	6.7	4.8	9.7	7.9	10	26
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	12
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] 4.3	6.0	4.2	6.1	4.3	4.2	6.2	13

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846226	1846227	1846228	1846229	1846230	1846231	1846232	1846233
Order No.: POR019404		Client Sample Ref.:				1	1	4	1	1	1	1	1
		Client Sample ID.:				TP16-0.1-1	WS04-0.15-1	BH010.104	BH020.101	BH030.101	BH060.101	TP20-0.1-1	TP19-0.1-1
		Sample Location:				TP16	WS04	BH01	BH02	BH03	BH06	TP20	TP19
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.10	0.15	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):							0.35		0.40		
		Date Sampled:				18-Jul-2024	23-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	25-Jul-2024	25-Jul-2024
		Time Sampled:				15:29	14:50	0:00	0:00	0:00	0:00	12:36	12:49
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] 9.5	11	10	11	11	9.6	11	22
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] 8.4	11	8.9	8.5	9.8	11	12	14
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] 6.6	8.1	6.0	5.6	8.3	7.0	9.3	6.1
Total TPH >C5-C35		N	2670	mg/kg	10	[B] 29	36	29	32	33	32	39	67
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.14	< 0.10	< 0.10	0.12	< 0.10	0.14	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.10	0.24	0.13	< 0.10	0.18	0.13	0.24	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.10	0.24	0.11	< 0.10	0.16	0.13	0.22	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	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		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846234	1846235	1846236	1846237	1846238	1846239	1846241
Order No.: POR019404		Client Sample Ref.:					2	1	1	1	1	1	1
		Client Sample ID.:					TP19-1.2-2	TP17-0.1-1	BH08-0.1-1	BH10-0.1-1	TP22-0.1-1	TP24-0.1-1	TP25-0.1-1
		Sample Location:					TP19	TP17	BH08	BH10	TP22	TP24	TP25
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					1.20	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):							0.40	0.40			0.40
		Date Sampled:					25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
		Time Sampled:					12:49	13:05	13:12	13:25	14:47	15:01	15:04
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	52	43	19	19	12	24	17	23
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Clay	Clay	Sand	Clay	Loam	Clay	Loam	Loam
pH at 20C		M	2010		4.0	8.4	7.6	8.3	7.5	8.0	7.9	7.8	7.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	0.56	< 0.40	< 0.40	0.96	< 0.40	0.56
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.60	0.70	0.90	< 0.50	< 0.50	0.60	< 0.50	0.60
Cyanide (Total)		M	2300	mg/kg	0.50	0.70	0.70	1.1	< 0.50	< 0.50	0.60	< 0.50	0.60
Arsenic		M	2455	mg/kg	0.5	1.6	9.1	19	5.9	9.0	8.1	5.9	22
Beryllium		U	2455	mg/kg	0.5	< 0.5	0.6	0.6	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	0.30	0.10	0.22	< 0.10	< 0.10	< 0.10	< 0.10	0.22
Chromium		M	2455	mg/kg	0.5	6.6	13	22	19	10	10	7.4	27
Copper		M	2455	mg/kg	0.50	6.6	35	41	18	21	23	24	67
Mercury		M	2455	mg/kg	0.05	0.07	0.38	0.53	< 0.05	0.06	0.10	0.05	0.49
Nickel		M	2455	mg/kg	0.50	6.2	19	17	22	11	10	7.8	13
Lead		M	2455	mg/kg	0.50	8.0	520	100	18	38	58	20	95
Selenium		M	2455	mg/kg	0.25	0.48	0.62	0.99	0.39	0.29	0.35	< 0.25	0.88
Vanadium		U	2455	mg/kg	0.5	8.6	15	26	18	16	14	12	26
Zinc		M	2455	mg/kg	0.50	24	56	84	47	47	30	31	80
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	21	12	5.3	2.9	2.9	26	4.5	5.7
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	6.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846234	1846235	1846236	1846237	1846238	1846239	1846240	1846241
Order No.: POR019404		Client Sample Ref.:				2	1	1	1	1	1	1	1
		Client Sample ID.:				TP19-1.2-2	TP17-0.1-1	BH08-0.1-1	BH10-0.1-1	TP22-0.1-1	TP24-0.1-1	TP25-0.1-1	BH11-0.1-1
		Sample Location:				TP19	TP17	BH08	BH10	TP22	TP24	TP25	BH11
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):						0.40	0.40				0.40
		Date Sampled:				25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
		Time Sampled:				12:49	13:05	13:12	13:25	14:47	15:01	15:04	15:11
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	16	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	16	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	< 10	48	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.45	< 0.10	< 0.10	< 0.10	< 0.10	0.18
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.22	0.43	< 0.10	< 0.10	0.22	< 0.10	0.40
Pyrene		M	2800	mg/kg	0.10	< 0.10	0.20	0.40	< 0.10	< 0.10	0.20	< 0.10	0.40
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.19	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	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		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846242	1846243	1846244	1846245	1846246	1846247	1846248	1846249
Order No.: POR019404		Client Sample Ref.:					1	1	1	1	1	1	1	1
		Client Sample ID.:					SL01-0.1-1	SL02-0.1-1	SL03-0.1-1	SL04-0.1-1	SL05-0.1-1	SL06-0.1-1	SL07-0.1-1	SL08-0.1-1
		Sample Location:					SL01	SL02	SL03	SL04	SL05	SL06	SL07	SL08
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):												
		Date Sampled:					26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:					9:38	9:39	9:40	9:41	9:42	9:42	9:43	9:44
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
ACM Type		U	2192		N/A	Fibres/Clumps	Fibres/Clumps, Paper Product/ Bitumen	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	Chrysotile	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	18	10	26	19	28	14	22	16	
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots, Glass and	Roots, Stones and	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Loam	Clay	Loam	Clay	Loam	Loam	Loam	Loam
pH at 20C		M	2010		4.0	7.7	7.7	7.6	7.5	7.7	7.6	7.2	7.5	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	0.56	0.54	< 0.40	0.54	0.59	0.42	
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50	1.9	1.5	< 0.50	< 0.50	0.60	< 0.50	< 0.50	0.60	
Cyanide (Total)		M	2300	mg/kg	0.50	1.4	2.3	< 0.50	< 0.50	0.70	< 0.50	< 0.50	0.80	
Arsenic		M	2455	mg/kg	0.5	47	54	9.8	6.8	7.5	11	13	12	
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Cadmium		M	2455	mg/kg	0.10	3.9	50	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chromium		M	2455	mg/kg	0.5	28	24	8.1	14	9.1	8.0	15	11	
Copper		M	2455	mg/kg	0.50	4.9	0.83	18	48	27	31	27	28	
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05	0.08	0.16	0.13	0.14	0.13	0.13	
Nickel		M	2455	mg/kg	0.50	140	340	5.7	4.1	4.7	9.2	11	8.7	
Lead		M	2455	mg/kg	0.50	1.6	1.6	33	37	43	57	62	53	
Selenium		M	2455	mg/kg	0.25	0.57	1.8	0.34	< 0.25	< 0.25	0.29	0.47	0.47	
Vanadium		U	2455	mg/kg	0.5	30	21	11	11	12	16	18	19	
Zinc		M	2455	mg/kg	0.50	6.1	6.4	24	23	29	38	45	44	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Organic Matter		M	2625	%	0.40	47	6.0	5.7	7.6	13	12	7.1	5.5	
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	4.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	9.2	17	7.0	5.4	7.3	5.6	< 1.0	< 1.0	

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:		24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:		1846242	1846243	1846244	1846245	1846246	1846247	1846248	1846249	1846249
Order No.: POR019404		Client Sample Ref.:		1	1	1	1	1	1	1	1	1
		Client Sample ID.:		SL01-0.1-1	SL02-0.1-1	SL03-0.1-1	SL04-0.1-1	SL05-0.1-1	SL06-0.1-1	SL07-0.1-1	SL08-0.1-1	SL08-0.1-1
		Sample Location:		SL01	SL02	SL03	SL04	SL05	SL06	SL07	SL08	SL08
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):										
		Date Sampled:		26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:		9:38	9:39	9:40	9:41	9:42	9:42	9:43	9:44	9:44
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	86	17	14	14	17	13	< 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	500	79	13	13	21	11	< 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	1100	640	5.4	6.2	10	6.8	< 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	1700	760	39	38	56	36	< 10
Naphthalene		M	2800	mg/kg	0.10	0.29	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.51	0.58	< 0.10	0.24	< 0.10	0.21	0.23
Anthracene		M	2800	mg/kg	0.10	0.11	0.17	< 0.10	< 0.10	< 0.10	0.12	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.1	1.1	< 0.10	0.45	0.48	0.30	0.35
Pyrene		M	2800	mg/kg	0.10	0.97	0.89	< 0.10	0.43	0.48	0.29	0.32
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.59	0.64	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.58	0.47	< 0.10	< 0.10	0.37	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	3.5	< 0.10	< 0.10	0.48	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.44	0.98	< 0.10	< 0.10	0.15	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.74	2.2	< 0.10	< 0.10	0.32	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.67	2.2	< 0.10	< 0.10	0.27	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.68	1.9	< 0.10	< 0.10	0.26	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.8	15	< 2.0	< 2.0	3.1	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	0.60	7.7	0.10	< 0.10	0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846250	1846251	1846252	1846253	1846254	1846255	1846256	1846257
Order No.: POR019404		Client Sample Ref.:					1	1	1	1	1	1	1	1
		Client Sample ID.:					SL09-0.1-1	SL10-0.1-1	SL11-0.1-1	SL12-0.1-1	SL13-0.1-1	SL14-0.1-1	SL15-0.1-1	SL16-0.1-1
		Sample Location:					SL09	SL10	SL11	SL12	SL13	SL14	SL15	SL16
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):												0.40
		Date Sampled:					26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:					9:44	9:45	9:45	9:46	9:46	9:46	9:47	9:47
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	22	26	19	25	27	15	23	21	
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and Glass	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Clay	Loam	Clay	Clay	Loam	Loam	Loam	Loam
pH at 20C		M	2010		4.0	7.4	8.0	8.1	8.0	7.9	7.8	7.7	7.7	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.60	0.50	< 0.40	0.47	0.55	0.53	0.59	< 0.40	
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50	0.80	0.70	0.50	0.50	0.80	0.70	0.70	0.60	
Cyanide (Total)		M	2300	mg/kg	0.50	0.90	0.80	0.60	0.60	1.0	1.0	0.90	0.70	
Arsenic		M	2455	mg/kg	0.5	13	14	10	5.2	15	13	11	11	
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.13	< 0.10	< 0.10	0.13	0.20	< 0.10	0.55	
Chromium		M	2455	mg/kg	0.5	9.7	13	7.4	7.1	13	35	14	13	
Copper		M	2455	mg/kg	0.50	29	68	20	22	36	42	36	300	
Mercury		M	2455	mg/kg	0.05	0.22	0.16	0.09	0.08	0.20	0.18	0.27	0.14	
Nickel		M	2455	mg/kg	0.50	8.7	10	7.2	5.5	7.0	9.5	8.4	11	
Lead		M	2455	mg/kg	0.50	56	85	57	31	70	230	63	75	
Selenium		M	2455	mg/kg	0.25	0.37	0.57	< 0.25	< 0.25	0.39	0.45	0.35	0.42	
Vanadium		U	2455	mg/kg	0.5	17	23	12	8.2	13	16	15	16	
Zinc		M	2455	mg/kg	0.50	42	65	22	27	45	66	45	110	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Organic Matter		M	2625	%	0.40	8.1	8.8	3.3	6.2	9.3	4.7	5.5	6.6	
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	6.4	6.9	4.5	8.6	5.8	5.3	6.2	6.5	

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846250	1846251	1846252	1846253	1846254	1846255	1846256	1846257
Order No.: POR019404		Client Sample Ref.:				1	1	1	1	1	1	1	1
		Client Sample ID.:				SL09-0.1-1	SL10-0.1-1	SL11-0.1-1	SL12-0.1-1	SL13-0.1-1	SL14-0.1-1	SL15-0.1-1	SL16-0.1-1
		Sample Location:				SL09	SL10	SL11	SL12	SL13	SL14	SL15	SL16
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):											0.40
		Date Sampled:				26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:				9:44	9:45	9:45	9:46	9:46	9:46	9:47	9:47
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	22	16	14	18	14	13	12	13
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	17	13	10	14	13	11	11	9.6
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	7.8	5.6	4.7	6.2	5.8	6.4	6.0	5.6
Total TPH >C5-C35		N	2670	mg/kg	10	53	41	34	46	39	36	35	35
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.20	0.35	< 0.10	0.16	0.29	0.20	0.38	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.27	0.62	< 0.10	0.29	0.50	0.43	0.50	0.21
Pyrene		M	2800	mg/kg	0.10	0.26	0.61	< 0.10	0.30	0.45	0.42	0.46	0.21
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	0.30	< 0.10	< 0.10	0.24	< 0.10	0.27	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	0.30	< 0.10	< 0.10	0.28	< 0.10	0.26	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.44	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	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		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	2.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.: 24-25015				
Quotation No.:		Chemtest Sample ID.: 1846258				
Order No.: POR019404		Client Sample Ref.: 1				
		Client Sample ID.: SL17-0.1-1				
		Sample Location: SL17				
		Sample Type: SOIL				
		Top Depth (m): 0.10				
		Bottom Depth (m): 0.40				
		Date Sampled: 26-Jul-2024				
		Time Sampled: 9:48				
		Asbestos Lab: DURHAM				
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
ACM Type		U	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	21
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones and Roots
Soil Texture		N	2040		N/A	Loam
pH at 20C		M	2010		4.0	7.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.52
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.70
Cyanide (Total)		M	2300	mg/kg	0.50	0.90
Arsenic		M	2455	mg/kg	0.5	14
Beryllium		U	2455	mg/kg	0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	0.13
Chromium		M	2455	mg/kg	0.5	13
Copper		M	2455	mg/kg	0.50	32
Mercury		M	2455	mg/kg	0.05	0.19
Nickel		M	2455	mg/kg	0.50	8.3
Lead		M	2455	mg/kg	0.50	87
Selenium		M	2455	mg/kg	0.25	0.39
Vanadium		U	2455	mg/kg	0.5	17
Zinc		M	2455	mg/kg	0.50	59
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50
Organic Matter		M	2625	%	0.40	8.1
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	6.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015
Quotation No.:		Chemtest Sample ID.:				1846258
Order No.: POR019404		Client Sample Ref.:				1
		Client Sample ID.:				SL17-0.1-1
		Sample Location:				SL17
		Sample Type:				SOIL
		Top Depth (m):				0.10
		Bottom Depth (m):				0.40
		Date Sampled:				26-Jul-2024
		Time Sampled:				9:48
		Asbestos Lab:				DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	14
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	13
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	5.5
Total TPH >C5-C35		N	2670	mg/kg	10	38
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.70
Anthracene		M	2800	mg/kg	0.10	0.16
Fluoranthene		M	2800	mg/kg	0.10	1.1
Pyrene		M	2800	mg/kg	0.10	0.85
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.45
Chrysene		M	2800	mg/kg	0.10	0.44
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.68
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.24
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.48
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	5.1
Total Phenols		M	2920	mg/kg	0.10	< 0.10

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:
1846210	2	TP03-0.7-2	TP03	15-Jul-2024	B	Amber Glass 250ml
1846210	2	TP03-0.7-2	TP03	15-Jul-2024	B	Plastic Tub 500g
1846211	6	TP03-0.1-6	TP03	15-Jul-2024	B	Amber Glass 250ml
1846211	6	TP03-0.1-6	TP03	15-Jul-2024	B	Plastic Tub 500g
1846212	14	BH05-0.1-14	BH05	15-Jul-2024	B	Amber Glass 250ml
1846212	14	BH05-0.1-14	BH05	15-Jul-2024	B	Plastic Tub 500g
1846213	1	TP04-0.1-1	TP04	16-Jul-2024	B	Amber Glass 250ml
1846213	1	TP04-0.1-1	TP04	16-Jul-2024	B	Plastic Tub 500g
1846214	1	TP06-0.1-1	TP06	16-Jul-2024	B	Amber Glass 250ml
1846214	1	TP06-0.1-1	TP06	16-Jul-2024	B	Plastic Tub 500g
1846215	1	TP07-0.1-1	TP07	16-Jul-2024	B	Amber Glass 250ml
1846215	1	TP07-0.1-1	TP07	16-Jul-2024	B	Plastic Tub 500g
1846216	2	TP07-0.4-2	TP07	16-Jul-2024	B	Amber Glass 250ml
1846216	2	TP07-0.4-2	TP07	16-Jul-2024	B	Plastic Tub 500g
1846217	1	TP10-0.1-1	TP10	18-Jul-2024	B	Amber Glass 250ml
1846217	1	TP10-0.1-1	TP10	18-Jul-2024	B	Plastic Tub 500g
1846218	2	TP10-0.8-2	TP10	18-Jul-2024	B	Amber Glass 250ml
1846218	2	TP10-0.8-2	TP10	18-Jul-2024	B	Plastic Tub 500g
1846219	1	TP15-0.1-1	TP15	18-Jul-2024	B	Amber Glass 250ml
1846219	1	TP15-0.1-1	TP15	18-Jul-2024	B	Plastic Tub 500g
1846220	1	TP12-0.1-1	TP12	18-Jul-2024	B	Amber Glass 250ml
1846220	1	TP12-0.1-1	TP12	18-Jul-2024	B	Plastic Tub 500g

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:
1846221	1	TP09-0.1-1	TP09	18-Jul-2024	B	Amber Glass 250ml
1846221	1	TP09-0.1-1	TP09	18-Jul-2024	B	Plastic Tub 500g
1846222	2	TP09-1.0--2	TP09	18-Jul-2024	B	Amber Glass 250ml
1846222	2	TP09-1.0--2	TP09	18-Jul-2024	B	Plastic Tub 500g
1846223	1	TP14-0.1-1	TP14	18-Jul-2024	B	Amber Glass 250ml
1846223	1	TP14-0.1-1	TP14	18-Jul-2024	B	Plastic Tub 500g
1846224	2	TP11-0.6-2	TP11	18-Jul-2024	B	Amber Glass 250ml
1846224	2	TP11-0.6-2	TP11	18-Jul-2024	B	Plastic Tub 500g
1846225	3	TP08-0.9-3	TP08	18-Jul-2024	B	Amber Glass 250ml
1846225	3	TP08-0.9-3	TP08	18-Jul-2024	B	Plastic Tub 500g
1846226	1	TP16-0.1-1	TP16	18-Jul-2024	B	Amber Glass 250ml
1846226	1	TP16-0.1-1	TP16	18-Jul-2024	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination 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

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

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 EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ 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.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



Amended Report

Report No.:	24-25015-2		
Initial Date of Issue:	19-Aug-2024	Date of Re-Issue:	27-Aug-2024
Re-Issue Details:	This report has been revised and directly supersedes 24-25015-1 in its entirety		
Client	Soiltechnics Limited		
Client Address:	1st Floor Unit 9 Westpoint Enterprise Park Clarence Avenue Trafford Park Manchester M17 1QS		
Contact(s):	Admin		
Project	STV5936 Cowm Top		
Quotation No.:		Date Received:	05-Aug-2024
Order No.:	POR019404	Date Instructed:	05-Aug-2024
No. of Samples:	49		
Turnaround (Wkdays):	18	Results Due:	29-Aug-2024
Date Approved:	27-Aug-2024		
Approved By:			
Details:	David Smith, Technical Director		

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846210	1846211	1846212	1846213	1846214	1846215	1846216	1846217
Order No.: POR019404		Client Sample Ref.:				2	6	14	1	1	1	2	1
		Client Sample ID.:				TP03-0.7-2	TP03-0.1-6	BH05-0.1-14	TP04-0.1-1	TP06-0.1-1	TP07-0.1-1	TP07-0.4-2	TP10-0.1-1
		Sample Location:				TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.70	0.10	0.10	0.10	0.10	0.10	0.40	0.10
		Bottom Depth (m):				1.30		0.45					
		Date Sampled:				15-Jul-2024	15-Jul-2024	15-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	18-Jul-2024
		Time Sampled:				15:53	15:54	16:19	10:30	11:30	12:42	12:43	8:43
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	19	12	15	22	15	25	13	24
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones, Roots and Wood	Roots	Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Sand
pH at 20C		M	2010		4.0	8.1	8.2	7.9	8.2	8.2	8.3	8.4	8.3
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.64	0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] 0.50	[B] 0.50	[B] 0.80	[B] 1.2	[B] 1.0	[B] 0.60	[B] < 0.50	[B] 0.60
Cyanide (Total)		M	2300	mg/kg	0.50	[B] 0.50	[B] 0.90	[B] 0.90	[B] 1.3	[B] 1.1	[B] 0.70	[B] < 0.50	[B] 0.60
Arsenic		M	2455	mg/kg	0.5	10	18	10	12	4.2	7.0	5.8	9.3
Beryllium		U	2455	mg/kg	0.5	< 0.5	3.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.21	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	14	56	7.9	9.2	14	23	16	28
Copper		M	2455	mg/kg	0.50	19	130	25	25	9.9	17	16	19
Mercury		M	2455	mg/kg	0.05	0.11	0.12	0.12	0.11	0.05	0.08	< 0.05	0.10
Nickel		M	2455	mg/kg	0.50	12	55	6.4	7.1	9.4	13	16	11
Lead		M	2455	mg/kg	0.50	36	120	38	62	19	35	14	46
Selenium		M	2455	mg/kg	0.25	0.26	0.50	0.37	0.45	< 0.25	0.63	< 0.25	0.37
Vanadium		U	2455	mg/kg	0.5	19	72	18	17	12	18	15	19
Zinc		M	2455	mg/kg	0.50	46	140	27	25	27	42	36	49
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	3.6	38	3.1	6.0	3.6	3.6	1.3	3.8
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:	1846210	1846211	1846212	1846213	1846214	1846215	1846216	1846217	
Order No.: POR019404		Client Sample Ref.:	2	6	14	1	1	1	2	1	
		Client Sample ID.:	TP03-0.7-2	TP03-0.1-6	BH05-0.1-14	TP04-0.1-1	TP06-0.1-1	TP07-0.1-1	TP07-0.4-2	TP10-0.1-1	
		Sample Location:	TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10	
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):	0.70	0.10	0.10	0.10	0.10	0.10	0.40	0.10	
		Bottom Depth (m):	1.30		0.45						
		Date Sampled:	15-Jul-2024	15-Jul-2024	15-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	16-Jul-2024	18-Jul-2024	
		Time Sampled:	15:53	15:54	16:19	10:30	11:30	12:42	12:43	8:43	
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 4.3	[B] < 1.0	[B] 3.8
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 10	[B] < 1.0	[B] 9.6
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 8.9	[B] 7.9	[B] 11
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] 9.7	[B] 7.2	[B] 7.3
Total TPH >C5-C35		N	2670	mg/kg	10	[B] < 10	[B] < 10	[B] < 10	[B] 33	[B] 15	[B] 31
Naphthalene		M	2800	mg/kg	0.10	< 0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.46	< 0.10	< 0.10	0.49	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	0.57	< 0.10	< 0.10	0.52	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	2.9	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846218	1846219	1846220	1846221	1846222	1846223	1846225
Order No.: POR019404		Client Sample Ref.:					2	1	1	1	2	1	2
		Client Sample ID.:					TP10-0.8-2	TP15-0.1-1	TP12-0.1-1	TP09-0.1-1	TP09-1.0--2	TP14-0.1-1	TP11-0.6-2
		Sample Location:					TP10	TP15	TP12	TP09	TP09	TP14	TP11
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.80	0.10	0.10	0.10	1.00	0.10	0.60
		Bottom Depth (m):											
		Date Sampled:					18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024
		Time Sampled:					9:51	10:18	10:32	11:07	11:07	11:55	12:19
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	14	21	22	26	15	27	12	23
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	None	Roots	Roots	Roots	Stones	Roots	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Sand	Sand	Sand	Clay	Sand	Clay	Sand
pH at 20C		M	2010		4.0	8.7	8.8	8.6	8.7	8.6	8.4	8.5	8.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.68	0.45	0.73	< 0.40	1.4	< 0.40	0.45
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] < 0.50	[B] 0.80	[B] 0.80	[B] 0.70	[B] < 0.50	[B] 0.60	[B] < 0.50	[B] < 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] 1.0	[B] 0.90	[B] 0.70	[B] < 0.50	[B] 0.70	[B] < 0.50	[B] 0.50
Arsenic		M	2455	mg/kg	0.5	5.4	11	15	4.4	5.0	4.4	14	12
Beryllium		U	2455	mg/kg	0.5	< 0.5	0.7	< 0.5	< 0.5	0.6	< 0.5	0.7	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.52	0.12	< 0.10	< 0.10	< 0.10	0.11	< 0.10
Chromium		M	2455	mg/kg	0.5	15	19	15	13	19	14	76	17
Copper		M	2455	mg/kg	0.50	16	26	35	13	16	14	31	35
Mercury		M	2455	mg/kg	0.05	< 0.05	0.09	0.12	0.05	< 0.05	0.06	0.10	0.08
Nickel		M	2455	mg/kg	0.50	19	7.3	8.2	7.6	22	9.3	31	17
Lead		M	2455	mg/kg	0.50	16	71	57	24	9.9	29	51	46
Selenium		M	2455	mg/kg	0.25	0.62	2.4	0.55	0.31	0.39	0.36	0.98	0.55
Vanadium		U	2455	mg/kg	0.5	17	15	18	11	19	12	30	23
Zinc		M	2455	mg/kg	0.50	39	39	48	26	39	36	89	55
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	0.83	6.0	5.2	5.9	1.1	7.1	2.2	6.9
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:	1846218	1846219	1846220	1846221	1846222	1846223	1846224	1846225
Order No.: POR019404		Client Sample Ref.:	2	1	1	1	2	1	2	3
		Client Sample ID.:	TP10-0.8-2	TP15-0.1-1	TP12-0.1-1	TP09-0.1-1	TP09-1.0--2	TP14-0.1-1	TP11-0.6-2	TP08-0.9-3
		Sample Location:	TP10	TP15	TP12	TP09	TP09	TP14	TP11	TP08
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.80	0.10	0.10	0.10	1.00	0.10	0.60	0.90
		Bottom Depth (m):								
		Date Sampled:	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024	18-Jul-2024
		Time Sampled:	9:51	10:18	10:32	11:07	11:07	11:55	12:19	12:33
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] 3.8	[B] 4.4	[B] 4.4	[B] 4.8	[B] < 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] 11	[B] 10	[B] 10	[B] 12	[B] < 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] 9.6	[B] 7.8	[B] 8.4	[B] 8.8	[B] < 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] 5.3	[B] 6.9	[B] 6.7	[B] 6.3	[B] < 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	[B] 30	[B] 29	[B] 30	[B] 32	[B] < 10
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.23	0.17	0.39	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.15	0.48	0.33	0.45	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.18	0.45	0.33	0.39	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846226	1846227	1846228	1846229	1846230	1846231	1846232	1846233
Order No.: POR019404		Client Sample Ref.:				1	1	4	1	1	1	1	1
		Client Sample ID.:				TP16-0.1-1	WS04-0.15-1	BH010.104	BH020.101	BH030.101	BH060.101	TP20-0.1-1	TP19-0.1-1
		Sample Location:				TP16	WS04	BH01	BH02	BH03	BH06	TP20	TP19
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.10	0.15	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):							0.35		0.40		
		Date Sampled:				18-Jul-2024	23-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	25-Jul-2024	25-Jul-2024
		Time Sampled:				15:29	14:50	0:00	0:00	0:00	0:00	12:36	12:49
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	19	27	21	22	19	20	30	26
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Roots	Roots	Roots	Roots	Roots	Roots	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH at 20C		M	2010		4.0	8.5	8.7	8.6	8.7	8.8	8.9	8.9	8.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40	0.56	0.49	0.41	0.63	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50	< 0.50	< 0.50	< 0.50	0.60	< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] 0.60	1.1	0.50	0.70	0.80	0.70	0.80	< 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] 0.70	1.3	0.60	0.80	1.4	0.80	1.1	< 0.50
Arsenic		M	2455	mg/kg	0.5	11	10	8.4	14	10	11	9.9	23
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.4
Cadmium		M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	0.79
Chromium		M	2455	mg/kg	0.5	9.2	8.9	9.8	8.6	6.3	10	12	14
Copper		M	2455	mg/kg	0.50	24	30	13	72	56	23	54	190
Mercury		M	2455	mg/kg	0.05	0.11	0.10	0.05	0.21	0.17	0.11	0.14	0.06
Nickel		M	2455	mg/kg	0.50	6.7	10	7.5	8.0	5.7	7.6	7.5	44
Lead		M	2455	mg/kg	0.50	47	52	24	57	44	51	58	50
Selenium		M	2455	mg/kg	0.25	0.65	0.55	0.63	0.58	0.49	0.44	0.37	1.4
Vanadium		U	2455	mg/kg	0.5	14	17	16	18	14	16	19	55
Zinc		M	2455	mg/kg	0.50	24	35	27	36	25	28	53	160
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	5.0	11	6.7	4.8	9.7	7.9	10	26
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:	1846226	1846227	1846228	1846229	1846230	1846231	1846232	1846233		
Order No.: POR019404		Client Sample Ref.:	1	1	4	1	1	1	1	1		
		Client Sample ID.:	TP16-0.1-1	WS04-0.15-1	BH010.104	BH020.101	BH030.101	BH060.101	TP20-0.1-1	TP19-0.1-1		
		Sample Location:	TP16	WS04	BH01	BH02	BH03	BH06	TP20	TP19		
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):	0.10	0.15	0.10	0.10	0.10	0.10	0.10	0.10		
		Bottom Depth (m):				0.35		0.40				
		Date Sampled:	18-Jul-2024	23-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	30-Jul-2024	25-Jul-2024	25-Jul-2024		
		Time Sampled:	15:29	14:50	0:00	0:00	0:00	0:00	12:36	12:49		
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	12
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] 4.3	6.0	4.2	6.1	4.3	4.2	13
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] 9.5	11	10	11	11	9.6	22
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] 8.4	11	8.9	8.5	9.8	11	14
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] 6.6	8.1	6.0	5.6	8.3	7.0	6.1
Total TPH >C5-C35		N	2670	mg/kg	10	[B] 29	36	29	32	33	32	67
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	0.14	< 0.10	< 0.10	0.12	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.10	0.24	0.13	< 0.10	0.18	0.13	< 0.10
Pyrene		M	2800	mg/kg	0.10	0.10	0.24	0.11	< 0.10	0.16	0.13	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846234	1846235	1846236	1846237	1846238	1846239	1846240	1846241
Order No.: POR019404		Client Sample Ref.:					2	1	1	1	1	1	1	1
		Client Sample ID.:					TP19-1.2-2	TP17-0.1-1	BH08-0.1-1	BH10-0.1-1	TP22-0.1-1	TP24-0.1-1	TP25-0.1-1	BH11-0.1-1
		Sample Location:					TP19	TP17	BH08	BH10	TP22	TP24	TP25	BH11
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					1.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):							0.40	0.40				0.40
		Date Sampled:					25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
		Time Sampled:					12:49	13:05	13:12	13:25	14:47	15:01	15:04	15:11
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001									
Total Asbestos		U	2192	%	0.001									
Moisture		N	2030	%	0.020	52	43	19	19	12	24	17	23	
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Clay	Clay	Sand	Clay	Loam	Clay	Loam	Loam	Loam
pH at 20C		M	2010		4.0	8.4	7.6	8.3	7.5	8.0	7.9	7.8	7.8	7.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	0.56	< 0.40	< 0.40	0.96	< 0.40	0.56	
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.60	0.70	0.90	< 0.50	< 0.50	0.60	< 0.50	0.60	
Cyanide (Total)		M	2300	mg/kg	0.50	0.70	0.70	1.1	< 0.50	< 0.50	0.60	< 0.50	0.60	
Arsenic		M	2455	mg/kg	0.5	1.6	9.1	19	5.9	9.0	8.1	5.9	22	
Beryllium		U	2455	mg/kg	0.5	< 0.5	0.6	0.6	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	0.30	0.10	0.22	< 0.10	< 0.10	< 0.10	< 0.10	0.22	
Chromium		M	2455	mg/kg	0.5	6.6	13	22	19	10	10	7.4	27	
Copper		M	2455	mg/kg	0.50	6.6	35	41	18	21	23	24	67	
Mercury		M	2455	mg/kg	0.05	0.07	0.38	0.53	< 0.05	0.06	0.10	0.05	0.49	
Nickel		M	2455	mg/kg	0.50	6.2	19	17	22	11	10	7.8	13	
Lead		M	2455	mg/kg	0.50	8.0	520	100	18	38	58	20	95	
Selenium		M	2455	mg/kg	0.25	0.48	0.62	0.99	0.39	0.29	0.35	< 0.25	0.88	
Vanadium		U	2455	mg/kg	0.5	8.6	15	26	18	16	14	12	26	
Zinc		M	2455	mg/kg	0.50	24	56	84	47	47	30	31	80	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	21	12	5.3	2.9	2.9	26	4.5	5.7	
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:	1846234	1846235	1846236	1846237	1846238	1846239	1846240	1846241
Order No.: POR019404		Client Sample Ref.:	2	1	1	1	1	1	1	1
		Client Sample ID.:	TP19-1.2-2	TP17-0.1-1	BH08-0.1-1	BH10-0.1-1	TP22-0.1-1	TP24-0.1-1	TP25-0.1-1	BH11-0.1-1
		Sample Location:	TP19	TP17	BH08	BH10	TP22	TP24	TP25	BH11
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):			0.40	0.40				0.40
		Date Sampled:	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024	25-Jul-2024
		Time Sampled:	12:49	13:05	13:12	13:25	14:47	15:01	15:04	15:11
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	6.2	< 1.0	< 1.0	< 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	16	< 1.0	< 1.0	< 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	16	< 1.0	< 1.0	< 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	10	< 1.0	< 1.0	< 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	< 10	48	< 10	< 10	< 10
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.45	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.22	0.43	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	0.20	0.40	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.21	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.19	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:					24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:					1846242	1846243	1846244	1846245	1846246	1846247	1846248	1846249
Order No.: POR019404		Client Sample Ref.:					1	1	1	1	1	1	1	1
		Client Sample ID.:					SL01-0.1-1	SL02-0.1-1	SL03-0.1-1	SL04-0.1-1	SL05-0.1-1	SL06-0.1-1	SL07-0.1-1	SL08-0.1-1
		Sample Location:					SL01	SL02	SL03	SL04	SL05	SL06	SL07	SL08
		Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):					0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):												
		Date Sampled:					26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:					9:38	9:39	9:40	9:41	9:42	9:42	9:43	9:44
		Asbestos Lab:					DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
ACM Type		U	2192		N/A	Fibres/Clumps	Fibres/Clumps, Paper Product/ Bitumen	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	Chrysotile	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001		0.008	1.8						
Total Asbestos		U	2192	%	0.001		0.008	1.8						
Moisture		N	2030	%	0.020	18	10	26	19	28	14	22	16	
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots, Glass and	Roots, Stones and	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Loam	Clay	Loam	Clay	Loam	Loam	Loam	Loam
pH at 20C		M	2010		4.0	7.7	7.7	7.6	7.5	7.7	7.6	7.2	7.5	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	< 0.40	0.56	0.54	< 0.40	0.54	0.59	0.42	
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50	1.9	1.5	< 0.50	< 0.50	0.60	< 0.50	< 0.50	0.60	
Cyanide (Total)		M	2300	mg/kg	0.50	1.4	2.3	< 0.50	< 0.50	0.70	< 0.50	< 0.50	0.80	
Arsenic		M	2455	mg/kg	0.5	47	54	9.8	6.8	7.5	11	13	12	
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Cadmium		M	2455	mg/kg	0.10	3.9	50	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chromium		M	2455	mg/kg	0.5	28	24	8.1	14	9.1	8.0	15	11	
Copper		M	2455	mg/kg	0.50	4.9	0.83	18	48	27	31	27	28	
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05	0.08	0.16	0.13	0.14	0.13	0.13	
Nickel		M	2455	mg/kg	0.50	140	340	5.7	4.1	4.7	9.2	11	8.7	
Lead		M	2455	mg/kg	0.50	1.6	1.6	33	37	43	57	62	53	
Selenium		M	2455	mg/kg	0.25	0.57	1.8	0.34	< 0.25	< 0.25	0.29	0.47	0.47	
Vanadium		U	2455	mg/kg	0.5	30	21	11	11	12	16	18	19	
Zinc		M	2455	mg/kg	0.50	6.1	6.4	24	23	29	38	45	44	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Organic Matter		M	2625	%	0.40	47	6.0	5.7	7.6	13	12	7.1	5.5	
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:		24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:		1846242	1846243	1846244	1846245	1846246	1846247	1846248	1846249	1846249
Order No.: POR019404		Client Sample Ref.:		1	1	1	1	1	1	1	1	1
		Client Sample ID.:		SL01-0.1-1	SL02-0.1-1	SL03-0.1-1	SL04-0.1-1	SL05-0.1-1	SL06-0.1-1	SL07-0.1-1	SL08-0.1-1	SL08-0.1-1
		Sample Location:		SL01	SL02	SL03	SL04	SL05	SL06	SL07	SL08	SL08
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):										
		Date Sampled:		26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:		9:38	9:39	9:40	9:41	9:42	9:42	9:43	9:44	9:44
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	4.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	9.2	17	7.0	5.4	7.3	5.6	< 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	86	17	14	14	17	13	< 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	500	79	13	13	21	11	< 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	1100	640	5.4	6.2	10	6.8	< 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	1700	760	39	38	56	36	< 10
Naphthalene		M	2800	mg/kg	0.10	0.29	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.51	0.58	< 0.10	0.24	< 0.10	0.21	0.23
Anthracene		M	2800	mg/kg	0.10	0.11	0.17	< 0.10	< 0.10	< 0.10	0.12	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	1.1	1.1	< 0.10	0.45	0.48	0.30	0.35
Pyrene		M	2800	mg/kg	0.10	0.97	0.89	< 0.10	0.43	0.48	0.29	0.32
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.59	0.64	< 0.10	< 0.10	0.25	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	0.58	0.47	< 0.10	< 0.10	0.37	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	1.1	3.5	< 0.10	< 0.10	0.48	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.44	0.98	< 0.10	< 0.10	0.15	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.74	2.2	< 0.10	< 0.10	0.32	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.67	2.2	< 0.10	< 0.10	0.27	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.68	1.9	< 0.10	< 0.10	0.26	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	7.8	15	< 2.0	< 2.0	3.1	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	0.60	7.7	0.10	< 0.10	0.10	< 0.10	< 0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:				1846250	1846251	1846252	1846253	1846254	1846255	1846256	1846257
Order No.: POR019404		Client Sample Ref.:				1	1	1	1	1	1	1	1
		Client Sample ID.:				SL09-0.1-1	SL10-0.1-1	SL11-0.1-1	SL12-0.1-1	SL13-0.1-1	SL14-0.1-1	SL15-0.1-1	SL16-0.1-1
		Sample Location:				SL09	SL10	SL11	SL12	SL13	SL14	SL15	SL16
		Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		Bottom Depth (m):											0.40
		Date Sampled:				26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024
		Time Sampled:				9:44	9:45	9:45	9:46	9:46	9:46	9:47	9:47
		Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		U	2192		N/A	-	-	-	-	-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001								
Total Asbestos		U	2192	%	0.001								
Moisture		N	2030	%	0.020	22	26	19	25	27	15	23	21
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, Roots and Glass	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Clay	Loam	Clay	Clay	Loam	Loam	Loam
pH at 20C		M	2010		4.0	7.4	8.0	8.1	8.0	7.9	7.8	7.7	7.7
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.60	0.50	< 0.40	0.47	0.55	0.53	0.59	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.80	0.70	0.50	0.50	0.80	0.70	0.70	0.60
Cyanide (Total)		M	2300	mg/kg	0.50	0.90	0.80	0.60	0.60	1.0	1.0	0.90	0.70
Arsenic		M	2455	mg/kg	0.5	13	14	10	5.2	15	13	11	11
Beryllium		U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.13	< 0.10	< 0.10	0.13	0.20	< 0.10	0.55
Chromium		M	2455	mg/kg	0.5	9.7	13	7.4	7.1	13	35	14	13
Copper		M	2455	mg/kg	0.50	29	68	20	22	36	42	36	300
Mercury		M	2455	mg/kg	0.05	0.22	0.16	0.09	0.08	0.20	0.18	0.27	0.14
Nickel		M	2455	mg/kg	0.50	8.7	10	7.2	5.5	7.0	9.5	8.4	11
Lead		M	2455	mg/kg	0.50	56	85	57	31	70	230	63	75
Selenium		M	2455	mg/kg	0.25	0.37	0.57	< 0.25	< 0.25	0.39	0.45	0.35	0.42
Vanadium		U	2455	mg/kg	0.5	17	23	12	8.2	13	16	15	16
Zinc		M	2455	mg/kg	0.50	42	65	22	27	45	66	45	110
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter		M	2625	%	0.40	8.1	8.8	3.3	6.2	9.3	4.7	5.5	6.6
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:		24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015	24-25015
Quotation No.:		Chemtest Sample ID.:		1846250	1846251	1846252	1846253	1846254	1846255	1846256	1846257	
Order No.: POR019404		Client Sample Ref.:		1	1	1	1	1	1	1	1	1
		Client Sample ID.:		SL09-0.1-1	SL10-0.1-1	SL11-0.1-1	SL12-0.1-1	SL13-0.1-1	SL14-0.1-1	SL15-0.1-1	SL16-0.1-1	
		Sample Location:		SL09	SL10	SL11	SL12	SL13	SL14	SL15	SL16	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
		Bottom Depth (m):									0.40	
		Date Sampled:		26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	26-Jul-2024	
		Time Sampled:		9:44	9:45	9:45	9:46	9:46	9:46	9:47	9:47	
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	6.4	6.9	4.5	8.6	5.8	5.3	6.2
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	22	16	14	18	14	13	12
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	17	13	10	14	13	11	11
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	7.8	5.6	4.7	6.2	5.8	6.4	6.0
Total TPH >C5-C35		N	2670	mg/kg	10	53	41	34	46	39	36	35
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.20	0.35	< 0.10	0.16	0.29	0.20	0.38
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.27	0.62	< 0.10	0.29	0.50	0.43	0.50
Pyrene		M	2800	mg/kg	0.10	0.26	0.61	< 0.10	0.30	0.45	0.42	0.46
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	0.30	< 0.10	< 0.10	0.24	< 0.10	0.27
Chrysene		M	2800	mg/kg	0.10	< 0.10	0.30	< 0.10	< 0.10	0.28	< 0.10	0.26
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.44	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	2.8	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.10

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015
Quotation No.:		Chemtest Sample ID.:				1846258
Order No.: POR019404		Client Sample Ref.:				1
		Client Sample ID.:				SL17-0.1-1
		Sample Location:				SL17
		Sample Type:				SOIL
		Top Depth (m):				0.10
		Bottom Depth (m):				0.40
		Date Sampled:				26-Jul-2024
		Time Sampled:				9:48
		Asbestos Lab:				DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
ACM Type		U	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001	
Total Asbestos		U	2192	%	0.001	
Moisture		N	2030	%	0.020	21
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones and Roots
Soil Texture		N	2040		N/A	Loam
pH at 20C		M	2010		4.0	7.8
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.52
Cyanide (Complex)		M	2300	mg/kg	0.50	< 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	0.70
Cyanide (Total)		M	2300	mg/kg	0.50	0.90
Arsenic		M	2455	mg/kg	0.5	14
Beryllium		U	2455	mg/kg	0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	0.13
Chromium		M	2455	mg/kg	0.5	13
Copper		M	2455	mg/kg	0.50	32
Mercury		M	2455	mg/kg	0.05	0.19
Nickel		M	2455	mg/kg	0.50	8.3
Lead		M	2455	mg/kg	0.50	87
Selenium		M	2455	mg/kg	0.25	0.39
Vanadium		U	2455	mg/kg	0.5	17
Zinc		M	2455	mg/kg	0.50	59
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50
Organic Matter		M	2625	%	0.40	8.1
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25015
Quotation No.:		Chemtest Sample ID.:				1846258
Order No.: POR019404		Client Sample Ref.:				1
		Client Sample ID.:				SL17-0.1-1
		Sample Location:				SL17
		Sample Type:				SOIL
		Top Depth (m):				0.10
		Bottom Depth (m):				0.40
		Date Sampled:				26-Jul-2024
		Time Sampled:				9:48
		Asbestos Lab:				DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	< 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	6.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	14
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	13
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	5.5
Total TPH >C5-C35		N	2670	mg/kg	10	38
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.70
Anthracene		M	2800	mg/kg	0.10	0.16
Fluoranthene		M	2800	mg/kg	0.10	1.1
Pyrene		M	2800	mg/kg	0.10	0.85
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.45
Chrysene		M	2800	mg/kg	0.10	0.44
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.68
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.24
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.48
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	5.1
Total Phenols		M	2920	mg/kg	0.10	< 0.10

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:
1846210	2	TP03-0.7-2	TP03	15-Jul-2024	B	Amber Glass 250ml
1846210	2	TP03-0.7-2	TP03	15-Jul-2024	B	Plastic Tub 500g
1846211	6	TP03-0.1-6	TP03	15-Jul-2024	B	Amber Glass 250ml
1846211	6	TP03-0.1-6	TP03	15-Jul-2024	B	Plastic Tub 500g
1846212	14	BH05-0.1-14	BH05	15-Jul-2024	B	Amber Glass 250ml
1846212	14	BH05-0.1-14	BH05	15-Jul-2024	B	Plastic Tub 500g
1846213	1	TP04-0.1-1	TP04	16-Jul-2024	B	Amber Glass 250ml
1846213	1	TP04-0.1-1	TP04	16-Jul-2024	B	Plastic Tub 500g
1846214	1	TP06-0.1-1	TP06	16-Jul-2024	B	Amber Glass 250ml
1846214	1	TP06-0.1-1	TP06	16-Jul-2024	B	Plastic Tub 500g
1846215	1	TP07-0.1-1	TP07	16-Jul-2024	B	Amber Glass 250ml
1846215	1	TP07-0.1-1	TP07	16-Jul-2024	B	Plastic Tub 500g
1846216	2	TP07-0.4-2	TP07	16-Jul-2024	B	Amber Glass 250ml
1846216	2	TP07-0.4-2	TP07	16-Jul-2024	B	Plastic Tub 500g
1846217	1	TP10-0.1-1	TP10	18-Jul-2024	B	Amber Glass 250ml
1846217	1	TP10-0.1-1	TP10	18-Jul-2024	B	Plastic Tub 500g
1846218	2	TP10-0.8-2	TP10	18-Jul-2024	B	Amber Glass 250ml
1846218	2	TP10-0.8-2	TP10	18-Jul-2024	B	Plastic Tub 500g
1846219	1	TP15-0.1-1	TP15	18-Jul-2024	B	Amber Glass 250ml
1846219	1	TP15-0.1-1	TP15	18-Jul-2024	B	Plastic Tub 500g
1846220	1	TP12-0.1-1	TP12	18-Jul-2024	B	Amber Glass 250ml
1846220	1	TP12-0.1-1	TP12	18-Jul-2024	B	Plastic Tub 500g

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:
1846221	1	TP09-0.1-1	TP09	18-Jul-2024	B	Amber Glass 250ml
1846221	1	TP09-0.1-1	TP09	18-Jul-2024	B	Plastic Tub 500g
1846222	2	TP09-1.0--2	TP09	18-Jul-2024	B	Amber Glass 250ml
1846222	2	TP09-1.0--2	TP09	18-Jul-2024	B	Plastic Tub 500g
1846223	1	TP14-0.1-1	TP14	18-Jul-2024	B	Amber Glass 250ml
1846223	1	TP14-0.1-1	TP14	18-Jul-2024	B	Plastic Tub 500g
1846224	2	TP11-0.6-2	TP11	18-Jul-2024	B	Amber Glass 250ml
1846224	2	TP11-0.6-2	TP11	18-Jul-2024	B	Plastic Tub 500g
1846225	3	TP08-0.9-3	TP08	18-Jul-2024	B	Amber Glass 250ml
1846225	3	TP08-0.9-3	TP08	18-Jul-2024	B	Plastic Tub 500g
1846226	1	TP16-0.1-1	TP16	18-Jul-2024	B	Amber Glass 250ml
1846226	1	TP16-0.1-1	TP16	18-Jul-2024	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	

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<	"less than"
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- DW - Drinking Water
- GW - Ground Water
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PL - Prepared Leachate
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RE - Recreational Water
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HWOL Acronym System

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CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

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



Final Report

Report No.: 24-25441-1

Initial Date of Issue: 15-Aug-2024

Re-Issue Details:

Client Soiltechnics Limited

Client Address: 1st Floor Unit 9 Westpoint Enterprise
Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS

Contact(s): Admin

Project STV5936 Cowm Top

Quotation No.: **Date Received:** 09-Aug-2024

Order No.: POR019404 **Date Instructed:** 09-Aug-2024

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 15-Aug-2024

Date Approved: 15-Aug-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:				24-25441
Quotation No.:		Chemtest Sample ID.:				1848327
Order No.: POR019404		Client Sample Ref.:				2
		Client Sample ID.:				BH04-0.1-2
		Sample Location:				BH04
		Sample Type:				SOIL
		Top Depth (m):				0.10
		Date Sampled:				25-Jul-2024
		Time Sampled:				15:19
		Asbestos Lab:				DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
ACM Type		U	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	19
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones and Roots
Soil Texture		N	2040		N/A	Loam
pH at 20C		M	2010		4.0	8.3
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] 10
Cyanide (Total)		M	2300	mg/kg	0.50	[B] 10
Arsenic		M	2455	mg/kg	0.5	15
Beryllium		U	2455	mg/kg	0.5	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10
Chromium		M	2455	mg/kg	0.5	20
Copper		M	2455	mg/kg	0.50	81
Mercury		M	2455	mg/kg	0.05	0.15
Nickel		M	2455	mg/kg	0.50	12
Lead		M	2455	mg/kg	0.50	150
Selenium		M	2455	mg/kg	0.25	0.68
Vanadium		U	2455	mg/kg	0.5	21
Zinc		M	2455	mg/kg	0.50	41
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50
Organic Matter		M	2625	%	0.40	5.9
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C6-C7	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C8-C10	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0
Total TPH >C5-C35		N	2670	mg/kg	10	[B] < 10
Naphthalene		M	2800	mg/kg	0.10	0.80

Results - Soil

Project: STV5936 Cowm Top

Client: Soiltechnics Limited		Chemtest Job No.:	24-25441			
Quotation No.:		Chemtest Sample ID.:	1848327			
Order No.: POR019404		Client Sample Ref.:	2			
		Client Sample ID.:	BH04-0.1-2			
		Sample Location:	BH04			
		Sample Type:	SOIL			
		Top Depth (m):	0.10			
		Date Sampled:	25-Jul-2024			
		Time Sampled:	15:19			
		Asbestos Lab:	DURHAM			
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	0.32
Anthracene		M	2800	mg/kg	0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.47
Pyrene		M	2800	mg/kg	0.10	0.46
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	2.1
Total Phenols		M	2920	mg/kg	0.10	< 0.10

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:
1848327	2	BH04-0.1-2	BH04	25-Jul-2024	B	Amber Glass 250ml
1848327	2	BH04-0.1-2	BH04	25-Jul-2024	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	
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Appendix I Contamination Assessment Screening

GQRA Screening

Assessments	Status	Date	Created by	Reviewed By
Acute human health risk - Soils	Completed	20.08.2024	TT	DH
Chronic human health risk - Soils	Completed	20.08.2024	TT	DH
<i>Chronic human health risk - Groundwater vapour</i>	<i>Not undertaken</i>			
<i>Controlled waters risk - Surface water</i>	<i>Not undertaken</i>			
<i>Controlled waters risk - Drinking water</i>	<i>Not undertaken</i>			
<i>Controlled waters - Free phase indicator</i>	<i>Not undertaken</i>			
<i>Phytotoxicity</i>	<i>Not undertaken</i>			
<i>Ecotoxicity</i>	<i>Not undertaken</i>			

Key

Assessment	Abbr.	GQRA Source (in order of preference)	Last Update
All	NGA	No guideline value available	-
Acute human health risk - Soils	AGAC	Acute Generic Assessment Criteria (SoBRA)	April 2019
	sat.	Contaminant poses a low acute risk unless the soil saturation limit is exceeded and a free oil phase is present.	April 2019
Chronic human health risk - Soils	C4SL	Category 4 Screening Levels (DEFRA)	May 2021
	S4UL	Suitable 4 Use Levels (LQM)	August 2015
	ATK	Atrisk Soil Screening Values (Atkins)	June 2017
	CL:AIRE	Generic Assessment Criteria (CL:AIRE)	Jan 2010
Phytotoxicity	BSI	BS 3882 - Specification for Topsoil (u = upper limit, l = lower limit for multipurpose topsoil) (British Standards Institute)	April 2015
	SSIA	Potentially Toxic Element. Sewage Sludge in Agriculture: Code of Practice (Environment Agency)	May 2018

Chronic human health risk (soils)

Scenario														
End user		Current and proposed site user												
Receptor		Residential with homegrown produce												
SOM		1.00%												
GAC Preference		C4SLs over S4ULs												
Unspeciated TPH GAC		Worst-case aliphatic/aromatic												
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH04	TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10	TP10
				Depth (m)	0.10	0.70 - 1.30	0.10	0.10 - 0.45	0.10	0.10	0.10	0.40	0.10	0.80
				Date	J24-07-25T15: J24-07-15T15: J24-07-15T15: J24-07-15T16: J24-07-16T10: J24-07-16T11: J24-07-16T12: J24-07-16T12: J24-07-18T08: J24-07-18T09:									
Inorganics - Metals														
Arsenic	C4SL	37	54		15	10	18	10	12	4.2	7	5.8	9.3	5.4
Beryllium	S4UL	1.7	3.3		< 0.5	< 0.5	3.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Boron	S4UL	290	1.4		< 0.40	0.64	0.4	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Cadmium	C4SL	22	50		< 0.10	< 0.10	0.21	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium (III)	S4UL	910	76		20	14	56	7.9	9.2	14	23	16	28	15
Chromium (VI)	C4SL	21	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper	S4UL	2400	300		81	19	130	25	25	9.9	17	16	19	16
Cyanide - Free	ATK	34	10		10	0.5	0.5	0.8	1.2	1	0.6	< 0.50	0.6	< 0.50
Lead	C4SL	200	520		150	36	120	38	62	19	35	14	46	16
Mercury	S4UL	40	0.53		0.15	0.11	0.12	0.12	0.11	0.05	0.08	< 0.05	0.1	< 0.05
Nickel	S4UL	130	340		12	12	55	6.4	7.1	9.4	13	16	11	19
Selenium	S4UL	250	2.4		0.68	0.26	0.5	0.37	0.45	< 0.25	0.63	< 0.25	0.37	0.62
Vanadium	S4UL	410	72		21	19	72	18	17	12	18	15	19	17
Zinc	S4UL	3700	160		41	46	140	27	25	27	42	36	49	39
Inorganics - Asbestos														
Asbestos Type				-										
Asbestos Screen				No Asbestos Detected										
Asbestos Quantification (%)														
Inorganics - Soil Parameters														
Organic matter		N/A												
Organics - PAH & Phenol														
Acenaphthene	S4UL	210	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	S4UL	170	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	S4UL	2400	0.17		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	S4UL	7.2	0.64		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	C4SL	5	2.2		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	S4UL	2.6	3.5		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	S4UL	320	1.9		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	S4UL	77	0.98		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	S4UL	15	0.58		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	S4UL	0.24	0.48		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	S4UL	280	1.1		0.47	< 0.10	0.46	< 0.10	< 0.10	0.49	< 0.10	< 0.10	0.26	0.15
Fluorene	S4UL	170	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	S4UL	27	2.2		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthalene	C4SL	15	1.4		0.8	< 0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	S4UL	95	0.7		0.32	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	S4UL	120	7.7		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	S4UL	620	0.97		0.46	< 0.10	0.57	< 0.10	< 0.10	0.52	< 0.10	< 0.10	0.26	0.18
Organics - Banded TPH (unspeciated)														
EC >5-EC6 (unspeciated)	S4UL	42	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >6-EC7 (unspeciated)	S4UL	70	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >7-EC8 (unspeciated)	S4UL	100	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >08-EC10 (unspeciated)	S4UL	27	12		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >10-EC12 (unspeciated)	S4UL	74	17		< 1.0	< 1.0	< 1.0	< 1.0	4.3	< 1.0	< 1.0	3.8	3.3	3.8
EC >12-EC16 (unspeciated)	S4UL	140	86		< 1.0	< 1.0	< 1.0	< 1.0	10	< 1.0	< 1.0	9.6	9.6	11
EC >16-EC21 (unspeciated)	S4UL	260	500		< 1.0	< 1.0	< 1.0	< 1.0	8.9	7.9	< 1.0	11	9.7	9.6
EC >21-EC35 (unspeciated)	S4UL	1100	1100		< 1.0	< 1.0	< 1.0	< 1.0	9.7	7.2	< 1.0	7.3	7	5.3

Chronic human health risk (soils)

Scenario															
End user		Current and proposed site user													
Receptor		Residential with homegrown produce													
SOM		1.00%													
GAC Preference		C4SLs over S4ULs													
Unspeciated TPH GAC		Worst-case aliphatic/aromatic													
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)												
				Location		TP15	TP12	TP09	TP14	TP11	TP08	TP16	WS04	BH01	BH02
				Depth (m)		0.10	0.10	0.10	0.10	0.60	0.90	0.10	0.15	0.10	0.10 - 0.35
				Date		J24-07-18T10: J24-07-18T10: J24-07-18T11: J24-07-18T11: J24-07-18T12: J24-07-18T12: J24-07-18T15: J24-07-23T14: J24-07-30T00: J24-07-30T00:									
Inorganics - Metals															
Arsenic	C4SL	37	54	11	15	4.4	4.4	14	12	11	10	8.4	14		
Beryllium	S4UL	1.7	3.3	0.7	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
Boron	S4UL	290	1.4	0.68	0.45	0.73	1.4	< 0.40	0.45	< 0.40	< 0.40	< 0.40	0.56		
Cadmium	C4SL	22	50	0.52	0.12	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Chromium (III)	S4UL	910	76	19	15	13	14	76	17	9.2	8.9	9.8	8.6		
Chromium (VI)	C4SL	21	<LoD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		
Copper	S4UL	2400	300	26	35	13	14	31	35	24	30	13	72		
Cyanide - Free	ATK	34	10	0.8	0.8	0.7	0.6	< 0.50	< 0.50	0.6	1.1	0.5	0.7		
Lead	C4SL	200	520	71	57	24	29	51	46	47	52	24	57		
Mercury	S4UL	40	0.53	0.09	0.12	0.05	0.06	0.1	0.08	0.11	0.1	0.05	0.21		
Nickel	S4UL	130	340	7.3	8.2	7.6	9.3	31	17	6.7	10	7.5	8		
Selenium	S4UL	250	2.4	2.4	0.55	0.31	0.36	0.98	0.55	0.65	0.55	0.63	0.58		
Vanadium	S4UL	410	72	15	18	11	12	30	23	14	17	16	18		
Zinc	S4UL	3700	160	39	48	26	36	89	55	24	35	27	36		
Inorganics - Asbestos															
Asbestos Type															
Asbestos Screen															
Asbestos Quantification (%)															
Inorganics - Soil Parameters															
Organic matter		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		
Organics - PAH & Phenol															
Acenaphthene	S4UL	210	<LoD	6	5.2	5.9	7.1	2.2	6.9	5	11	6.7	4.8		
Acenaphthylene	S4UL	170	<LoD	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Anthracene	S4UL	2400	0.17	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Benzo(a)anthracene	S4UL	7.2	0.64	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Benzo(a)pyrene	C4SL	5	2.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Benzo(b)fluoranthene	S4UL	2.6	3.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Benzo(ghi)perylene	S4UL	320	1.9	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Benzo(k)fluoranthene	S4UL	77	0.98	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Chrysene	S4UL	15	0.58	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Dibenz(a,h)anthracene	S4UL	0.24	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Fluoranthene	S4UL	280	1.1	0.48	0.33	0.45	< 0.10	< 0.10	0.33	0.1	0.24	0.13	< 0.10		
Fluorene	S4UL	170	<LoD	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Indeno(1,2,3-cd)pyrene	S4UL	27	2.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Naphthalene	C4SL	15	1.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Phenanthrene	S4UL	95	0.7	0.23	0.17	0.39	< 0.10	< 0.10	0.21	< 0.10	0.14	< 0.10	< 0.10		
Phenol	S4UL	120	7.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Pyrene	S4UL	620	0.97	0.45	0.33	0.39	< 0.10	< 0.10	0.29	0.1	0.24	0.11	< 0.10		
Organics - Banded TPH (unspeciated)															
EC >5-EC6 (unspeciated)	S4UL	42	<LoD	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
EC >6-EC7 (unspeciated)	S4UL	70	<LoD	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
EC >7-EC8 (unspeciated)	S4UL	100	<LoD	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
EC >08-EC10 (unspeciated)	S4UL	27	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3		
EC >10-EC12 (unspeciated)	S4UL	74	17	4.4	4.4	4.8	4.4	< 1.0	5.4	4.3	6	4.2	6.1		
EC >12-EC16 (unspeciated)	S4UL	140	86	10	10	12	11	< 1.0	14	9.5	11	10	11		
EC >16-EC21 (unspeciated)	S4UL	260	500	7.8	8.4	8.8	11	< 1.0	14	8.4	11	8.9	8.5		
EC >21-EC35 (unspeciated)	S4UL	1100	1100	6.9	6.7	6.3	7.2	< 1.0	11	6.6	8.1	6	5.6		

Chronic human health risk (soils)

Scenario																	
End user		Current and proposed site user															
Receptor		Residential with homegrown produce															
SOM		1.00%															
GAC Preference		CASLs over S4ULs															
Unspeciated TPH GAC		Worst-case aliphatic/aromatic															
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH03	BH06	TP20	TP19	TP19	TP17	BH08	BH10	TP22	TP24			
				Depth (m)	0.10	0.10 - 0.40	0.10	0.10	1.20	0.10	0.10 - 0.40	0.10 - 0.40	0.10	0.10			
				Date	J24-07-30T00:J24-07-30T00:J24-07-25T12:J24-07-25T12:J24-07-25T12:J24-07-25T13:J24-07-25T13:J24-07-25T13:J24-07-25T14:J24-07-25T15:												
Inorganics - Metals																	
Arsenic	C4SL	37	54		10	11	9.9	23	1.6	9.1	19	5.9	9	8.1			
Beryllium	S4UL	1.7	3.3		< 0.5	< 0.5	< 0.5	2.4	< 0.5	0.6	0.6	0.5	< 0.5	< 0.5			
Boron	S4UL	290	1.4		0.49	0.41	0.63	< 0.40	< 0.40	< 0.40	0.56	< 0.40	< 0.40	0.96			
Cadmium	C4SL	22	50		< 0.10	< 0.10	0.13	0.79	0.3	0.1	0.22	< 0.10	< 0.10	< 0.10			
Chromium (III)	S4UL	910	76		6.3	10	12	14	6.6	13	22	19	10	10			
Chromium (VI)	C4SL	21	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			
Copper	S4UL	2400	300		56	23	54	190	6.6	35	41	18	21	23			
Cyanide - Free	ATK	34	10		0.8	0.7	0.8	< 0.50	0.6	0.7	0.9	< 0.50	< 0.50	0.6			
Lead	C4SL	200	520		44	51	58	50	8	520	100	18	38	58			
Mercury	S4UL	40	0.53		0.17	0.11	0.14	0.06	0.07	0.38	0.53	< 0.05	0.06	0.1			
Nickel	S4UL	130	340		5.7	7.6	7.5	44	6.2	19	17	22	11	10			
Selenium	S4UL	250	2.4		0.49	0.44	0.37	1.4	0.48	0.62	0.99	0.39	0.29	0.35			
Vanadium	S4UL	410	72		14	16	19	55	8.6	15	26	18	16	14			
Zinc	S4UL	3700	160		25	28	53	160	24	56	84	47	47	30			
Inorganics - Asbestos																	
Asbestos Type		N/A															
Asbestos Screen		N/A															
Asbestos Quantification (%)																	
Inorganics - Soil Parameters																	
Organic matter		N/A															
Organics - PAH & Phenol																	
Acenaphthene	S4UL	210	<LoD				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthylene	S4UL	170	<LoD				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Anthracene	S4UL	2400	0.17				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(a)anthracene	S4UL	7.2	0.64				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.21	< 0.10	< 0.10	< 0.10	
Benzo(a)pyrene	C4SL	5	2.2				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(b)fluoranthene	S4UL	2.6	3.5				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(ghi)perylene	S4UL	320	1.9				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo(k)fluoranthene	S4UL	77	0.98				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chrysene	S4UL	15	0.58				0.12	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.19	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)anthracene	S4UL	0.24	0.48				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluoranthene	S4UL	280	1.1				0.18	0.13	0.24	< 0.10	< 0.10	0.22	0.43	< 0.10	< 0.10	0.22	
Fluorene	S4UL	170	<LoD				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Indeno[1,2,3-cd]pyrene	S4UL	27	2.2				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Naphthalene	C4SL	15	1.4				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	
Phenanthrene	S4UL	95	0.7				0.12	< 0.10	0.14	< 0.10	< 0.10	< 0.10	0.45	< 0.10	< 0.10	< 0.10	
Phenol	S4UL	120	7.7				< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Pyrene	S4UL	620	0.97				0.16	0.13	0.22	< 0.10	< 0.10	0.2	0.4	< 0.10	< 0.10	0.2	
Organics - Banded TPH (unspeciated)																	
EC >5-EC6 (unspeciated)	S4UL	42	<LoD					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >6-EC7 (unspeciated)	S4UL	70	<LoD					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >7-EC8 (unspeciated)	S4UL	100	<LoD					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >08-EC10 (unspeciated)	S4UL	27	12					< 1.0	< 1.0	< 1.0	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >10-EC12 (unspeciated)	S4UL	74	17					4.3	4.2	6.2	13	< 1.0	6.2	< 1.0	< 1.0	< 1.0	< 1.0
EC >12-EC16 (unspeciated)	S4UL	140	86					11	9.6	11	22	< 1.0	16	< 1.0	< 1.0	< 1.0	< 1.0
EC >16-EC21 (unspeciated)	S4UL	260	500					9.8	11	12	14	< 1.0	16	< 1.0	< 1.0	< 1.0	< 1.0
EC >21-EC35 (unspeciated)	S4UL	1100	1100					8.3	7	9.3	6.1	< 1.0	10	< 1.0	< 1.0	< 1.0	< 1.0

Scenario	
End user	Current and proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs
Unspecified TPH GAC	Worst-case aliphatic/aromatic

Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	TP25	BH11	SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	SLO7	SLO8	
				Depth (m)	0.10	0.10 - 0.40	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
				Date	J24-07-25T15>J24-07-25T15 : J24-07-26T09>J24-07-26T09 : J24-07-26T09 : J24-07-26T09 : J24-07-26T09 : J24-07-26T09 : J24-07-26T09 : J24-07-26T09 : J24-07-26T09 :										
Inorganics - Metals					5.9	22	47	54	9.8	6.8	7.5	11	13	12	
Arsenic	C4SL	37	54		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Beryllium	S4UL	1.7	3.3		< 0.40	0.56	< 0.40	< 0.40	0.56	0.54	< 0.40	0.54	0.59	0.42	
Boron	S4UL	290	1.4		< 0.10	0.22	3.9	50	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Cadmium	C4SL	22	50		7.4	27	28	24	8.1	14	9.1	8	15	11	
Chromium (III)	S4UL	910	76		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chromium (VI)	C4SL	21	<LoD		24	67	4.9	0.83	18	48	27	31	27	28	
Copper	S4UL	2400	300		< 0.50	0.6	1.9	1.5	< 0.50	< 0.50	0.6	< 0.50	< 0.50	0.6	
Cyanide - Free	ATK	34	10		20	95	1.6	1.6	33	37	43	57	62	53	
Lead	C4SL	200	520		0.05	0.49	< 0.05	< 0.05	0.08	0.16	0.13	0.14	0.13	0.13	
Mercury	S4UL	40	0.53		7.8	13	140	340	5.7	4.1	4.7	9.2	11	8.7	
Nickel	S4UL	130	340		< 0.25	0.88	0.57	1.8	0.34	< 0.25	< 0.25	0.29	0.47	0.47	
Selenium	S4UL	250	2.4		12	26	30	21	11	11	12	16	18	19	
Vanadium	S4UL	410	72		31	80	6.1	6.4	24	23	29	38	45	44	
Zinc	S4UL	3700	160												
Inorganics - Asbestos															
Asbestos Type	N/A				Fibres/Clump s Fibres/Clump s, Paper Product/ Bitumen										
Asbestos Screen	N/A				No Asbestos Detected	No Asbestos Detected	Chrysotile	Chrysotile	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos Quantification (%)					0.008 1.8										
Inorganics - Soil Parameters															
Organic matter	N/A				4.5	5.7	47	6	SLO3	7.6	13	12	7.1	5.5	
Organics - PAH & Phenol															
Acenaphthene	S4UL	210	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	S4UL	170	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	S4UL	2400	0.17		< 0.10	< 0.10	0.11	0.17	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10	
Benzo(a)anthracene	S4UL	7.2	0.64		< 0.10	< 0.10	0.59	0.64	< 0.10	< 0.10	0.25	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	C4SL	5	2.2		< 0.10	< 0.10	0.74	2.2	< 0.10	< 0.10	0.32	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	S4UL	2.6	3.5		< 0.10	< 0.10	1.1	3.5	< 0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	S4UL	320	1.9		< 0.10	< 0.10	0.68	1.9	< 0.10	< 0.10	0.26	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	S4UL	77	0.98		< 0.10	< 0.10	0.44	0.98	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	S4UL	15	0.58		< 0.10	< 0.10	0.58	0.47	< 0.10	< 0.10	0.37	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	S4UL	0.24	0.48		< 0.10	< 0.10	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	S4UL	280	1.1		< 0.10	0.4	1.1	1.1	< 0.10	0.45	0.48	0.3	0.35	0.19	
Fluorene	S4UL	170	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	S4UL	27	2.2		< 0.10	< 0.10	0.67	2.2	< 0.10	< 0.10	0.27	< 0.10	< 0.10	< 0.10	< 0.10
Naphthalene	C4SL	15	1.4		< 0.10	< 0.10	0.29	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	S4UL	95	0.7		< 0.10	0.18	0.51	0.58	< 0.10	0.24	< 0.10	0.21	0.23	0.19	
Phenol	S4UL	120	7.7		< 0.10	< 0.10	0.6	7.7	0.1	< 0.10	0.1	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	S4UL	620	0.97		< 0.10	0.4	0.97	0.89	< 0.10	0.43	0.48	0.29	0.32	0.21	
Organics - Banded TPH (unspecified)															
EC >5-EC6 (unspecified)	S4UL	42	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >6-EC7 (unspecified)	S4UL	70	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >7-EC8 (unspecified)	S4UL	100	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >8-EC10 (unspecified)	S4UL	27	12		< 1.0	< 1.0	< 1.0	4.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >10-EC12 (unspecified)	S4UL	74	17		< 1.0	< 1.0	9.2	7	7	5.4	7.3	5.6	< 1.0	< 1.0	< 1.0
EC >12-EC16 (unspecified)	S4UL	140	86		< 1.0	< 1.0	86	17	14	14	17	13	< 1.0	< 1.0	< 1.0
EC >16-EC21 (unspecified)	S4UL	260	500		< 1.0	< 1.0	500	79	13	13	21	11	< 1.0	< 1.0	< 1.0
EC >21-EC35 (unspecified)	S4UL	1100	1100		< 1.0	< 1.0	1100	640	5.4	6.2	10	6.8	< 1.0	< 1.0	< 1.0

Chronic human health risk (soils)

Scenario														
End user		Current and proposed site user												
Receptor		Residential with homegrown produce												
SOM		1.00%												
GAC Preference		C4SLs over S4ULs												
Unspeciated TPH GAC		Worst-case aliphatic/aromatic												
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	SL09	SL10	SL11	SL12	SL13	SL14	SL15	SL16	SL17	TP09
				Depth (m)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10 - 0.40	0.10 - 0.40	1.00
				Date	124-07-26T09:124-07-26T09:124-07-26T09:124-07-26T09:124-07-26T09:124-07-26T09:124-07-26T09:124-07-18T11:14									
Inorganics - Metals					13	14	10	5.2	15	13	11	11	14	5
Arsenic	C4SL	37	54		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
Beryllium	S4UL	1.7	3.3		0.6	0.5	<0.40	0.47	0.55	0.53	0.59	<0.40	0.52	<0.40
Boron	S4UL	290	1.4		<0.10	0.13	<0.10	<0.10	0.13	0.2	<0.10	0.55	0.13	<0.10
Cadmium	C4SL	22	50		9.7	13	7.4	7.1	13	35	14	13	13	19
Chromium (III)	S4UL	910	76		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium (VI)	C4SL	21	<LoD		29	68	20	22	36	42	36	300	32	16
Copper	S4UL	2400	300		0.8	0.7	0.5	0.5	0.8	0.7	0.7	0.6	0.7	<0.50
Cyanide - Free	ATK	34	10		56	85	57	31	70	230	63	75	87	9.9
Lead	C4SL	200	520		0.22	0.16	0.09	0.08	0.2	0.18	0.27	0.14	0.19	<0.05
Mercury	S4UL	40	0.53		8.7	10	7.2	5.5	7	9.5	8.4	11	8.3	22
Nickel	S4UL	130	340		0.37	0.57	<0.25	<0.25	0.39	0.45	0.35	0.42	0.39	0.39
Selenium	S4UL	250	2.4		17	23	12	8.2	13	16	15	16	17	19
Vanadium	S4UL	410	72		42	65	22	27	45	66	45	110	59	39
Zinc	S4UL	3700	160											
Inorganics - Asbestos														
Asbestos Type				N/A										
Asbestos Screen				N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Asbestos Quantification (%)														
Inorganics - Soil Parameters														
Organic matter		N/A		8.1	8.8	3.3	6.2	9.3	4.7	5.5	6.6	8.1	1.1	
Organics - PAH & Phenol														
Acenaphthene	S4UL	210	<LoD	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Acenaphthylene	S4UL	170	<LoD	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Anthracene	S4UL	2400	0.17	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.16	<0.10	
Benzo(a)anthracene	S4UL	7.2	0.64	<0.10	0.3	<0.10	<0.10	0.24	<0.10	0.27	<0.10	0.45	<0.10	
Benzo(a)pyrene	C4SL	5	2.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.48	<0.10	
Benzo(b)fluoranthene	S4UL	2.6	3.5	<0.10	0.44	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.68	<0.10	
Benzo(ghi)perylene	S4UL	320	1.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Benzo(k)fluoranthene	S4UL	77	0.98	<0.10	0.15	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.24	<0.10	
Chrysene	S4UL	15	0.58	<0.10	0.3	<0.10	<0.10	0.28	<0.10	0.26	<0.10	0.44	<0.10	
Dibenz(a,h)anthracene	S4UL	0.24	0.48	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Fluoranthene	S4UL	280	1.1	0.27	0.62	<0.10	0.29	0.5	0.43	0.5	0.21	1.1	<0.10	
Fluorene	S4UL	170	<LoD	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Indeno(1,2,3-cd)pyrene	S4UL	27	2.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Naphthalene	C4SL	15	1.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Phenanthrene	S4UL	95	0.7	0.2	0.35	<0.10	0.16	0.29	0.2	0.38	<0.10	0.7	<0.10	
Phenol	S4UL	120	7.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.1	<0.10	<0.10	
Pyrene	S4UL	620	0.97	0.26	0.61	<0.10	0.3	0.45	0.42	0.46	0.21	0.85	<0.10	
Organics - Banded TPH (unspeciated)														
EC >5-EC6 (unspeciated)	S4UL	42	<LoD	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
EC >6-EC7 (unspeciated)	S4UL	70	<LoD	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
EC >7-EC8 (unspeciated)	S4UL	100	<LoD	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
EC >08-EC10 (unspeciated)	S4UL	27	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
EC >10-EC12 (unspeciated)	S4UL	74	17	6.4	6.9	4.5	8.6	5.8	5.3	6.2	6.5	6	<1.0	
EC >12-EC16 (unspeciated)	S4UL	140	86	22	16	14	18	14	13	12	13	14	<1.0	
EC >16-EC21 (unspeciated)	S4UL	260	500	17	13	10	14	13	11	11	9.6	13	<1.0	
EC >21-EC35 (unspeciated)	S4UL	1100	1100	7.8	5.6	4.7	6.2	5.8	6.4	6	5.6	5.5	<1.0	

Acute human health risk (soils)

Scenario	Public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	Ingestion of a single 5g bolus of soil whilst playing on site
Demal exposure	Soil being left on the skin for several hours
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH04	TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10	TP10	TP15
					Depth (m)	0.10	0.70 - 1.30	0.10	0.10 - 0.45	0.10	0.10	0.10	0.40	0.10	0.80	0.10
					Date	024-07-25T15:00:00	024-07-15T15:00:00	024-07-15T15:00:00	024-07-15T16:00:00	024-07-16T10:00:00	024-07-16T11:00:00	024-07-16T12:00:00	024-07-16T12:00:00	024-07-18T08:00:00	024-07-18T09:00:00	024-07-18T10:00:00
Inorganics																
Arsenic	AGAC	Oral	80	54		15	10	18	10	12	4.2	7	5.8	9.3	5.4	11
Cadmium	AGAC	Oral	140	50		< 0.10	< 0.10			< 0.10	< 0.10		< 0.10		< 0.10	0.52
Cyanide - Free	AGAC	Oral	24	10		10	0.5	0.5	0.8	1.2	1	0.6	< 0.50	0.6	< 0.50	0.8
Organics																
Benzene	AGAC	Oral & Inhalation	47													
Phenol	AGAC	Oral	2,000	7.7		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	8,000													
Vinyl Chloride	AGAC	Inhalation	98													

Acute human health risk (soils)

Scenario	Public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	Ingestion of a single 5g bolus of soil whilst playing on site
Demal exposure	Soil being left on the skin for several hours
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	TP12	TP09	TP09	TP14	TP11	TP08	TP16	WS04	BH01	BH02	BH03
					Depth (m)	0.10	0.10	0.10	0.60	0.90	0.10	0.15	0.10	0.10 - 0.35	0.10	
					Date	024-07-18T10:00:00Z	024-07-18T11:00:00Z	024-07-18T11:00:00Z	024-07-18T12:00:00Z	024-07-18T12:00:00Z	024-07-18T15:00:00Z	024-07-23T14:00:00Z	024-07-30T00:00:00Z	024-07-30T00:00:00Z	024-07-30T00:00:00Z	
Inorganics																
Arsenic	AGAC	Oral	80	54		15	4.4	5	4.4	14		10	8.4	14	10	
Cadmium	AGAC	Oral	140	50		0.12	< 0.10	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Cyanide - Free	AGAC	Oral	24	10		0.8	0.7	< 0.50	0.6	< 0.50	< 0.50	0.6	1.1	0.5	0.7	0.8
Organics																
Benzene	AGAC	Oral & Inhalation	47													
Phenol	AGAC	Oral	2,000	7.7		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	8,000													
Vinyl Chloride	AGAC	Inhalation	98													

Acute human health risk (soils)

Scenario	Public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	Ingestion of a single 5g bolus of soil whilst playing on site
Demal exposure	Soil being left on the skin for several hours
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH06	TP20	TP19	TP19	TP17	BH08	BH10	TP22	TP24	TP25	BH11	
					Depth (m)	0.10 - 0.40	0.10	0.10	1.20	0.10	0.10 - 0.40	0.10 - 0.40	0.10	0.10	0.10	0.10 - 0.40	
					Date	024-07-30T00:00:00	024-07-25T12:00:00	024-07-25T12:00:00	024-07-25T12:00:00	024-07-25T13:00:00	024-07-25T13:00:00	024-07-25T13:00:00	024-07-25T14:00:00	024-07-25T15:00:00	024-07-25T15:00:00	024-07-25T15:00:00	
Inorganics																	
Arsenic	AGAC	Oral	80	54			9.9	23	1.6		19	5.9	9	8.1	5.9		
Cadmium	AGAC	Oral	140	50		< 0.10	0.13	0.79	0.3	0.1	0.22	< 0.10	< 0.10		< 0.10	0.22	
Cyanide - Free	AGAC	Oral	24	10		0.7	0.8	< 0.50	0.6	0.7	0.9	< 0.50	< 0.50	0.6	< 0.50	0.6	
Organics																	
Benzene	AGAC	Oral & Inhalation	47														
Phenol	AGAC	Oral	2,000	7.7		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	8,000														
Vinyl Chloride	AGAC	Inhalation	98														

Acute human health risk (soils)

Scenario	Public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	Ingestion of a single 5g bolus of soil whilst playing on site
Demal exposure	Soil being left on the skin for several hours
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	SL01	SL02	SL03	SL04	SL05	SL06	SL07	SL08	SL09	SL10	SL11
					Depth (m)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
					Date	024-07-26T09:30:00Z	024-07-26T09:30:00Z	024-07-26T09:30:00Z	024-07-26T09:30:00Z	024-07-26T09:30:00Z	024-07-26T09:30:00Z	024-07-26T09:30:00Z	024-07-26T09:30:00Z	024-07-26T09:30:00Z	024-07-26T09:30:00Z	024-07-26T09:30:00Z
Inorganics																
Arsenic	AGAC	Oral	80	54			54	9.8	6.8	7.5	11	13	12	13	14	
Cadmium	AGAC	Oral	140	50		3.9	50	< 0.10				< 0.10	< 0.10	< 0.10	0.13	< 0.10
Cyanide - Free	AGAC	Oral	24	10		1.9	1.5	< 0.50	< 0.50	0.6	< 0.50	< 0.50	0.6	0.8	0.7	0.5
Organics																
Benzene	AGAC	Oral & Inhalation	47													
Phenol	AGAC	Oral	2,000	7.7		0.6	7.7	0.1	< 0.10	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	8,000													
Vinyl Chloride	AGAC	Inhalation	98													

Acute human health risk (soils)

Scenario	Public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	Ingestion of a single 5g bolus of soil whilst playing on site
Demal exposure	Soil being left on the skin for several hours
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	SL12	SL13	SL14	SL15	SL16	SL17	TP09
					Depth (m)	0.10	0.10	0.10	0.10	0.10 - 0.40	0.10 - 0.40	1.00
					Date	024-07-26T09:00:00	024-07-26T09:00:00	024-07-26T09:00:00	024-07-26T09:00:00	024-07-26T09:00:00	024-07-26T09:00:00	024-07-18T11:00:00
Inorganics												
Arsenic	AGAC	Oral	80	54		13			11	5		
Cadmium	AGAC	Oral	140	50		< 0.10	0.13			0.55	0.13	< 0.10
Cyanide - Free	AGAC	Oral	24	10		0.5	0.8	0.7	0.7	0.6	0.7	< 0.50
Organics												
Benzene	AGAC	Oral & Inhalation	47									
Phenol	AGAC	Oral	2,000	7.7		< 0.10	< 0.10	< 0.10	< 0.10	0.1	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	8,000									
Vinyl Chloride	AGAC	Inhalation	98									

Phytotoxicity

Scenario													
Land use				Planting									
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH04	TP03	BH05	TP04	TP06	TP07	TP07	TP10	TP15
				Depth (m)	0.10	0.10	0.10 - 0.45	0.10	0.10	0.10	0.40	0.10	0.10
				Date	024-07-25T15:1	024-07-15T15:5	024-07-15T16:1	024-07-16T10:3	024-07-16T11:3	024-07-16T12:4	024-07-16T12:4	024-07-18T08:4	024-07-18T10:1
Soil parameters													
pH	BSI-u	8.5	8.9		8.3	8.2	7.9	8.2	8.2	8.3	8.4	8.3	8.8
pH	BSI-l	5.5	7.2		8.3	8.2	7.9	8.2	8.2	8.3	8.4	8.3	8.8
Potentially toxic element													
Arsenic	SSIA	50			15	18	10	12	4.2	7	5.8	9.3	11
Cadmium	SSIA	3	0.79		< 0.10			< 0.10	< 0.10		< 0.10		0.52
Chromium (III)	SSIA	400	56		20	56	7.9		14	23		28	
Lead	SSIA	300	520		150	120	38	62	19	35	14	46	71
Mercury	SSIA	1	0.53		0.15	0.12	0.12	0.11	0.05	0.08	< 0.05	0.1	0.09
Selenium	SSIA	3	2.4		0.68	0.5	0.37	0.45	< 0.25	0.63	< 0.25	0.37	2.4
Potentially toxic element (pH >7.0)													
Copper	SSIA	200	300		81	130	25	25	9.9	17	16	19	26
Nickel	SSIA	110	55		12	55	6.4	7.1	9.4	13	16	11	7.3
Zinc	SSIA	300	160		41	140	27	25	27	42	36	49	39

Phytotoxicity

Scenario													
Land use				Planting									
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	TP12	TP09	TP09	TP14	TP11	TP08	TP16	WS04	BH01
				Depth (m)	0.10	0.10	0.10	0.60	0.90	0.10	0.15	0.10	
				Date	!024-07-18T10:3	!024-07-18T11:0	!024-07-18T11:5	!024-07-18T12:1	!024-07-18T12:3	!024-07-18T15:2	!024-07-23T14:5	!024-07-30T00:0	
Soil parameters													
pH	BSI-u	8.5	8.9		8.6	8.7	8.6	8.4	8.5	8.6	8.5	8.7	8.6
pH	BSI-l	5.5	7.2		8.6	8.7	8.6	8.4	8.5	8.6	8.5	8.7	8.6
Potentially toxic element													
Arsenic	SSIA	50			15	4.4	5	4.4	14			10	8.4
Cadmium	SSIA	3	0.79		0.12	< 0.10	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	
Chromium (III)	SSIA	400	56		15	13	19	14		17	9.2		9.8
Lead	SSIA	300	520		57	24	9.9	29	51	46	47	52	24
Mercury	SSIA	1	0.53		0.12	0.05	< 0.05	0.06	0.1	0.08	0.11	0.1	0.05
Selenium	SSIA	3	2.4		0.55	0.31	0.39	0.36	0.98	0.55	0.65	0.55	0.63
Potentially toxic element (pH >7.0)													
Copper	SSIA	200	300		35	13	16	14	31	35	24	30	13
Nickel	SSIA	110	55		8.2	7.6	22	9.3	31	17	6.7	10	7.5
Zinc	SSIA	300	160		48	26	39	36	89	55	24	35	27

Phytotoxicity

Scenario													
Land use				Planting									
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH02	BH03	BH06	TP20	TP19	TP19	TP17	BH08	BH10
				Depth (m)	0.10 - 0.35	0.10	0.10 - 0.40	0.10	0.10	1.20	0.10	0.10 - 0.40	0.10 - 0.40
				Date	024-07-30T00:00:00	024-07-30T00:00:00	024-07-30T00:00:00	024-07-25T12:30:00	024-07-25T12:40:00	024-07-25T12:40:00	024-07-25T13:00:00	024-07-25T13:10:00	024-07-25T13:20:00
Soil parameters													
pH	BSI-u	8.5	8.9		8.7	8.8	8.9	8.9	8.6	8.4	7.6	8.3	7.5
pH	BSI-l	5.5	7.2		8.7	8.8	8.9	8.9	8.6	8.4	7.6	8.3	7.5
Potentially toxic element													
Arsenic	SSIA	50			14	10		9.9	23	1.6		19	5.9
Cadmium	SSIA	3	0.79		< 0.10	< 0.10	< 0.10	0.13	0.79	0.3	0.1	0.22	< 0.10
Chromium (III)	SSIA	400	56		8.6		10	12			13	22	19
Lead	SSIA	300	520		57	44	51	58	50	8	520	100	18
Mercury	SSIA	1	0.53		0.21	0.17	0.11	0.14	0.06	0.07	0.38	0.53	< 0.05
Selenium	SSIA	3	2.4		0.58	0.49	0.44	0.37	1.4	0.48	0.62	0.99	0.39
Potentially toxic element (pH >7.0)													
Copper	SSIA	200	300		72	56	23	54	190	6.6	35	41	18
Nickel	SSIA	110	55		8	5.7	7.6	7.5	44	6.2	19	17	22
Zinc	SSIA	300	160		36	25	28	53	160	24	56	84	47

Phytotoxicity

Scenario													
Land use				Planting									
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	TP22	TP24	TP25	BH11	SL03	SL04	SL05	SL06	SL07
				Depth (m)	0.10	0.10	0.10	0.10 - 0.40	0.10	0.10	0.10	0.10	0.10
				Date	024-07-25T14:4	024-07-25T15:0	024-07-25T15:0	024-07-25T15:1	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4
Soil parameters													
pH	BSI-u	8.5	8.9		8	7.9	7.8	7.8	7.6	7.5	7.7	7.6	7.2
pH	BSI-l	5.5	7.2		8	7.9	7.8	7.8	7.6	7.5	7.7	7.6	7.2
Potentially toxic element													
Arsenic	SSIA	50			9	8.1	5.9		9.8	6.8	7.5	11	13
Cadmium	SSIA	3	0.79		< 0.10		< 0.10	0.22	< 0.10				< 0.10
Chromium (III)	SSIA	400	56		10	10	7.4	27		14	9.1	8	15
Lead	SSIA	300	520		38	58	20	95	33	37	43	57	62
Mercury	SSIA	1	0.53		0.06	0.1	0.05	0.49	0.08	0.16	0.13	0.14	0.13
Selenium	SSIA	3	2.4		0.29	0.35	< 0.25	0.88	0.34	< 0.25	< 0.25	0.29	0.47
Potentially toxic element (pH >7.0)													
Copper	SSIA	200	300		21	23	24	67	18	48	27	31	27
Nickel	SSIA	110	55		11	10	7.8	13	5.7	4.1	4.7	9.2	11
Zinc	SSIA	300	160		47	30	31	80	24	23	29	38	45

Phytotoxicity

Scenario														
Land use				Planting										
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	SL08	SL09	SL10	SL11	SL12	SL13	SL14	SL15	SL16	
				Depth (m)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10 - 0.40
				Date	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4
Soil parameters														
pH	BSI-u	8.5	8.9		7.5	7.4	8	8.1	8	7.9	7.8	7.7	7.7	
pH	BSI-l	5.5	7.2		7.5	7.4	8	8.1	8	7.9	7.8	7.7	7.7	
Potentially toxic element														
Arsenic	SSIA	50			12	13	14				13	11		
Cadmium	SSIA	3	0.79		< 0.10	< 0.10	0.13	< 0.10	< 0.10	0.13			0.55	
Chromium (III)	SSIA	400	56			9.7	13	7.4	7.1	13	35	14	13	
Lead	SSIA	300	520		53	56	85	57	31	70	230	63	75	
Mercury	SSIA	1	0.53		0.13	0.22	0.16	0.09	0.08	0.2	0.18	0.27	0.14	
Selenium	SSIA	3	2.4		0.47	0.37	0.57	< 0.25	< 0.25	0.39	0.45	0.35	0.42	
Potentially toxic element (pH >7.0)														
Copper	SSIA	200	300		28	29	68	20	22	36	42	36	300	
Nickel	SSIA	110	55		8.7	8.7	10	7.2	5.5	7	9.5	8.4	11	
Zinc	SSIA	300	160		44	42	65	22	27	45	66	45	110	

Phytotoxicity

Scenario						
Land use		Planting				
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	SL17	TP09
				Depth (m)	0.10 - 0.40	1.00
				Date	2024-07-26T09:40:00	2024-07-18T11:00:00
Soil parameters						
pH	BSI-u	8.5	8.9		7.8	8.6
pH	BSI-l	5.5	7.2		7.8	8.6
Potentially toxic element						
Arsenic	SSIA	50			5	
Cadmium	SSIA	3	0.79		0.13	< 0.10
Chromium (III)	SSIA	400	56		13	19
Lead	SSIA	300	520		87	9.9
Mercury	SSIA	1	0.53		0.19	< 0.05
Selenium	SSIA	3	2.4		0.39	0.39
Potentially toxic element (pH >7.0)						
Copper	SSIA	200	300		32	16
Nickel	SSIA	110	55		8.3	22
Zinc	SSIA	300	160		59	39

GQRA Screening

Assessments	Status	Date	Created by	Reviewed By
Acute human health risk - Soils	Not undertaken			
Chronic human health risk - Soils	Not undertaken			
Chronic human health risk - Groundwater vapour	Not undertaken			
Controlled waters risk - Surface water	Complete	Mar 2023	JT	SCD
Controlled waters risk - Drinking water	Not undertaken			
Controlled waters - Free phase indicator	Not undertaken			
Phytotoxicity	Not undertaken			
Ecotoxicity	Not undertaken			

Key

Assessment	Abbr.	GQRA Source (in order of preference)	Last Update
All	NGA	No guideline value available	-
Controlled waters risk - Surface water	PNEC	Predicted no effect concentration. Derived from the Metals Bioavaililtiy Assessment Tools (M-BAT) (UK TAG)	Nov. 2013 (Cu,Ni,Mn,Zn) March 2015 (Pb)
	AA-EQS	Environmental Quality Standards AA = Annual average (Environment Agency)	August 2021
	EA	Petroleum Hydrocarbons in Groundwater: Supplementary Guidance for Hydrogeological Risk Assessment (Environment Agency)	April 2009
	MAC-EQS	Environmental Quality Standards MAC = Maximum Allowable Concentration (Environment Agency)	August 2021

Controlled waters risk

Scenario	
Receptor	Surface water - Inland freshwater
Hydrometric area	English and Welsh freshwaters
Are bioavailability parameters known?	No

Contaminant	Guideline source	Guideline value (µg/l)	Max value (µg/l)	Location	Spring 1	Spring 1	Spring 1	Spring 2	Spring 3	Spring 3
				Depth (m)	0.00	0.00	0.00	0.00	0.00	0.00
				Type	EW	EW	EW	EW	EW	EW
				Date	30/01/23	22/02/23	14/03/23	30/01/23	30/01/23	22/02/23
Inorganics - Metals										
Arsenic	AA-EQS	50	3		0.53	0.61	0.79	3	0.94	0.57
Boron	AA-EQS	2000	61		35	57	23	34	41	56
Cadmium	AA-EQS	0.08	0.33		0.15	0.33	0.21	< 0.11	< 0.11	0.13
Chromium (total)	NGA	NGA	19		5.2	1.2	19	5.2	<LoD	<LoD
Chromium (III)	AA-EQS	4.7	19		5.2	1.2	19	5.2	< 0.50	< 0.50
Copper	AA-EQS	1	30		18	30	19	4	2.6	8.3
Lead	AA-EQS	1.2	1.5		< 0.50	0.64	1.5	1.3	< 0.50	0.52
Mercury	MAC-EQS	0.07	<LoD		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	AA-EQS	4	4.6		3.4	4.6	4	3	1.2	2.8
Selenium	NGA	NGA	2.8		2.7	2.8	< 0.50	2.3	2	2.6
Vanadium	AA-EQS	20	2.3		1.2	< 0.50	0.71	2.3	1.1	< 0.50
Zinc	NGA	12.3	110		60	110	77	10	2.6	9.8
Inorganics - Miscellaneous										
pH	NGA	NGA	7.7		7.7	7.2	7.2	7.3	7.3	7.2
Cyanide - Total	NGA	NGA	<LoD		< 50	< 50	< 50	< 50	< 50	< 50
Cyanide - Free	AA-EQS	1	<LoD		< 50	< 50	< 50	< 50	< 50	< 50
Nitrate (as NO3)	NGA	NGA	13000		3700	2500	12000	< 500	< 500	1100
Sulphate	AA-EQS	400000	35000		13000	14000	9500	14000	26000	35000
Phosphate	NGA	NGA	<LoD		<20	<20	<20	<20	<20	<20
Organics - PAH & Phenol										
Naphthalene	AA-EQS	2	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	AA-EQS	0.1	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	AA-EQS	0.0063	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	AA-EQS	0.00017	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PAH (sum of 4)	NGA	NGA	<LoD		<LoD	<LoD	<LoD	<LoD	<LoD	<LoD
Phenol	AA-EQS	7.7	<LoD		< 30	< 30	< 30	< 30	< 30	< 30
Organics - SVOCs										
Phenol	AA-EQS	7.7	<LoD		< 30	< 30	< 30	< 30	< 30	< 30

Controlled waters risk

Scenario	
Receptor	Surface water - Inland freshwater
Hydrometric area	English and Welsh freshwaters
Are bioavailability parameters known?	No

Contaminant	Guideline source	Guideline value (µg/l)	Max value (µg/l)	Location	Spring 3	Spring 4	Spring 4
				Depth (m)	0.00	0.00	0.00
				Type	EW	EW	EW
				Date	14/03/23	22/02/23	14/03/23
Inorganics - Metals							
Arsenic	AA-EQS	50	3		0.34	0.45	0.38
Boron	AA-EQS	2000	61		31	61	28
Cadmium	AA-EQS	0.08	0.33		< 0.11	0.2	< 0.11
Chromium (total)	NGA	NGA	19		2.1	<LoD	5
Chromium (III)	AA-EQS	4.7	19		2.1	< 0.50	5
Copper	AA-EQS	1	30		7.6	3.6	3.3
Lead	AA-EQS	1.2	1.5		< 0.50	< 0.50	< 0.50
Mercury	MAC-EQS	0.07	<LoD		< 0.05	< 0.05	< 0.05
Nickel	AA-EQS	4	4.6		1.4	2.7	1.7
Selenium	NGA	NGA	2.8		< 0.50	2.6	< 0.50
Vanadium	AA-EQS	20	2.3		< 0.50	< 0.50	< 0.50
Zinc	NGA	12.3	110		9.4	25	16
Inorganics - Miscellaneous							
pH	NGA	NGA	7.7		7.3	6.9	7.3
Cyanide - Total	NGA	NGA	<LoD		< 50	< 50	< 50
Cyanide - Free	AA-EQS	1	<LoD		< 50	< 50	< 50
Nitrate (as NO3)	NGA	NGA	13000		13000	1100	7400
Sulphate	AA-EQS	400000	35000		18000	23000	11000
Phosphate	NGA	NGA	<LoD		<20	<20	<20
Organics - PAH & Phenol							
Naphthalene	AA-EQS	2	<LoD		< 0.10	< 0.10	< 0.10
Acenaphthylene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Acenaphthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Fluorene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Phenanthrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Anthracene	AA-EQS	0.1	<LoD		< 0.10	< 0.10	< 0.10
Fluoranthene	AA-EQS	0.0063	<LoD		< 0.10	< 0.10	< 0.10
Pyrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Chrysene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	AA-EQS	0.00017	<LoD		< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
PAH (sum of 4)	NGA	NGA	<LoD		<LoD	<LoD	<LoD
Phenol	AA-EQS	7.7	<LoD		< 30	< 30	< 30
Organics - SVOCs							
Phenol	AA-EQS	7.7	<LoD		< 30	< 30	< 30

Project Reference

STV5936

Site Name

Cowm Top, Rochdale

Client

Barratt Homes Manchester

Run by

TT

Date

10-Dec-24

Scenario details

Decision Support Tool for CAR2012 Work Categories

Stage 1

Hazard Factors

Score

Select ACM type (run model for each type to generate 'Worst Case' output)

Extent of degradation of ACMs at outset of work

Friability and degree of bonding by matrix (ACM matrix, not ground materials)

Distribution of Visible Asbestos Across Affected Area

Amount of asbestos fibre in selected ACM/fibre type as % of host material

Free dispersed fibres/fibre bundles

2

Disaggregated (dominated by loose fibrous material; extreme degradation in ACM and/or free asbestos fibres/fibre bundles)

4

Friable ACM or ACM with fibres not linked in any matrix (free dispersed fibres/fibre bundles)

4

No visible ACMs/fibre bundles

0

Large quantities - >0.1 %wt/wt

4

Sub-total

14

Note: the asbestos licensing regime is unaffected by the type of asbestos fibre present in ACMs

Hazard ranking

Medium

No warranty, expressed or implied, or reliance, is provided in relation to the use of this tool.

It is contingent on users to satisfy themselves that the output from the tool is relevant and appropriate to the assessment being made.

Stage 2

Exposure Factors

Score

Anticipated airborne fibre concentration - Control Limit or SALI?
 Anticipated duration of exposure to asbestos
 Activity type and effect on deterioration of ACMs during work
 Best description of primary host material matrix (soil/made ground)
 Respirable fibre index for ACM - RIVM report 711701034 (2003)

<0.01 fibres/ml	1
> 2 hours in a 7 day period and Up to 10 hours in a day (e.g. full time occupational exposure)	4
Sampling, manual or mechanical (no or minimal deterioration expected)	0
Made Ground - Recycled Aggregate, Track Ballast	4
High	4

Sub-total

13

Exposure ranking

Medium

Combined hazard and exposure ranking

27

Medium

Stage 3

Risk Assessment Outputs

Probable Licensing Status	Non-Licensed Work
RPE*	EN140 with P3 filter half mask
Dust Suppression**	Localised mechanical dust suppression
Hygiene/Decontamination***	Localised and enhanced personal decontamination facilities

*Where RPE has to be worn continuously for long periods (e.g. more than 1-hour), then powered RPE may be necessary.

**Reduction in control measures possible if natural mitigation factors are present (e.g. raining, wet ground)

***Guide only; suitability of selected personal hygiene measures may be reviewed on a site/contamination-specific basis

Appendix J Utility Service Plans

Soiltechnics

**Soiltechnics
Cedar Barn,
Walgrave,
NN6 9PY**

FAO:

How to contact us:

**United Utilities Water Limited
Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP**

Telephone: 0370 7510101

E-mail: propertysearches@uuplc.co.uk

**Your Ref: STV5936
Our Ref: UUPS-ORD-583056
Date: 02/07/2024**

Dear Sirs**Location: COWM TOP HOUSE COWM TOP LANE, ROCHDALE, OL11 2PU**

I acknowledge with thanks your request dated 01/07/2024 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. <http://www.unitedutilities.com/work-near-asset.aspx>.

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,



Karen McCormack
Property Searches Manager

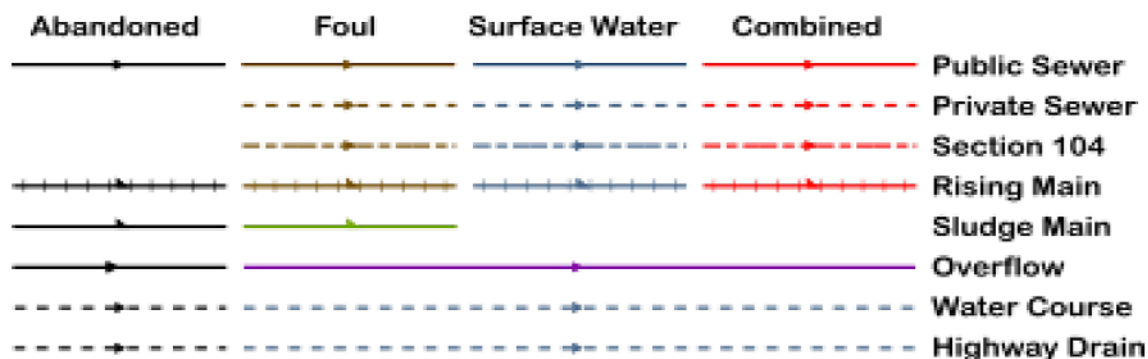
TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

TERMS AND CONDITIONS:

- This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
- The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

Wastewater Symbolology



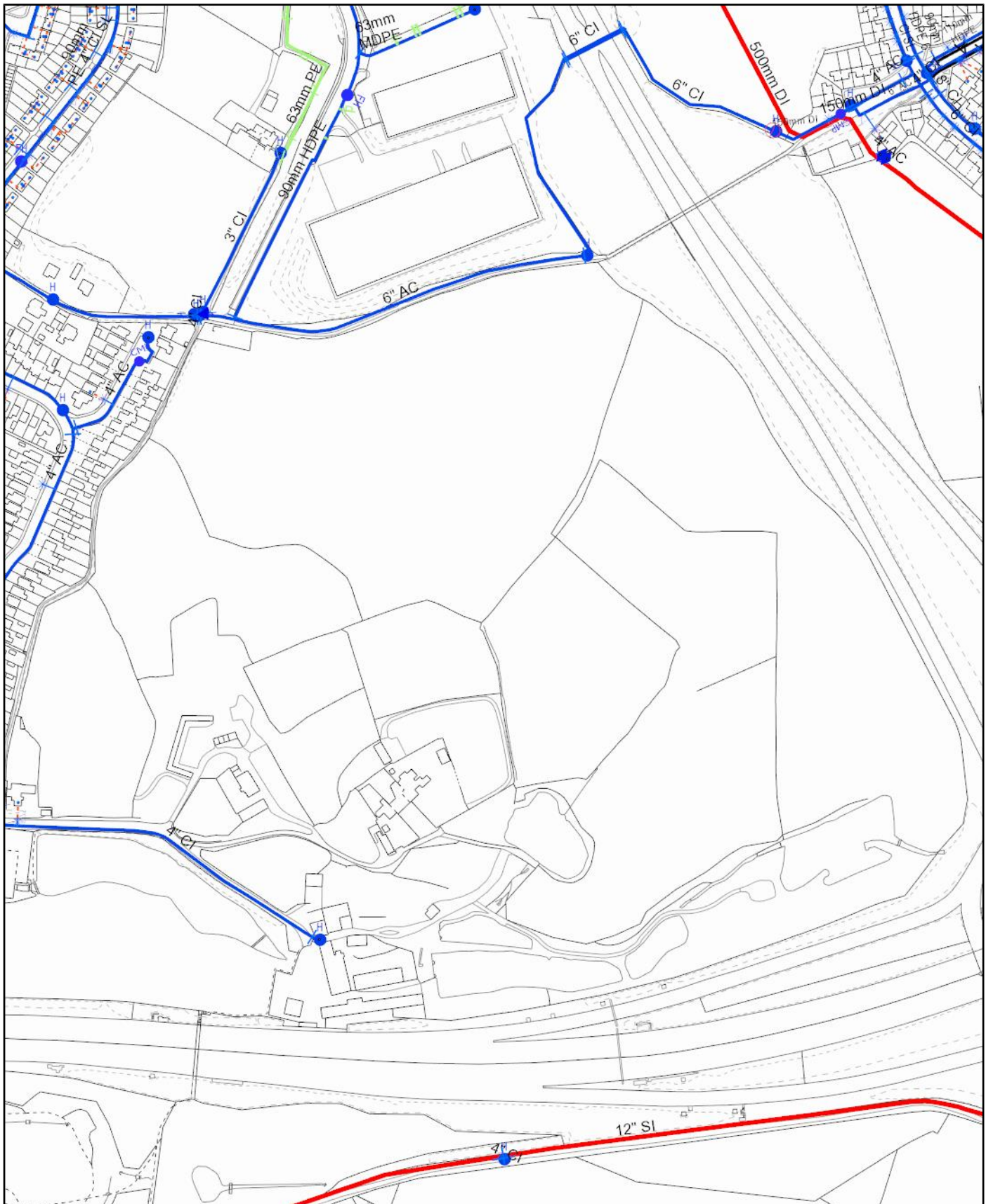
All point assets follow the standard colour convention: **red** – combined **brown** - foul
blue – surface water **purple** - overflow

Manhole	Side Entry Manhole
Head of System	Outfall
Extent of Survey	Screen Chamber
Rodding Eye	Inspection Chamber
Inlet	Bifurcation Chamber
Discharge Point	Lamp Hole
Vortex	T Junction / Saddle
Penstock	Catchpit
Washout Chamber	Valve Chamber
Valve	Vent Column
Air Valve	Vortex Chamber
Non Return Valve	Penstock Chamber
Soakaway	Network Storage Tank
Gully	Sewer Overflow
Cascade	Ww Treatment Works
Flow Meter	Ww Pumping Station
Hatch Box	Septic Tank
Oil Interceptor	Control Kiosk
Summit	DNM Network Monitoring Point
Drop Shaft	Change of Characteristic
Orifice Plate	

Clean Water Symbolology

Proposed	Abandoned	Live	
			Distribution Main
			Trunk Main
			Comms Pipe
			Private Pipe
			Concessionary Service
			Raw Water
			LDTM Raw Water
			LDTM Treated Water
			Air Valve
			AC Valve, open
			AC Valve, closed
			CC Valve, open
			CC Valve, closed
			Non Return Valve
			Pressure Management Valve
			OMS Valve
			Stop Tap
			Flow Meter
			Domestic Meter
			Commercial Meter
			Pump
			Hydrant
			Fire Hydrant
			Anode
			Chlorination Point
			De-chlorination Point
			Strainer Point
			Access Point
			Hatch Box
			IP Point
			Sampling Station
			Logger Box
			Bore Hole
			Inlet Point
			Bulk Supply Point
			End Cap
			Site Termination
			Change of Characteristic
			Condition Report
			<u>Property Types</u>
			Water Tower
			Valve House
			Booster Pumping Station
			Intake Pumping Station
			Water Treatment Works
			Supply Reservoir
			Service Reservoir
			Impounding Reservoir
			Pipe Bridge

Symbology for proposed assets is the same as above, but shown in **green**
 Symbology for abandoned assets is the same as above, but shown in **black**



Scale: 1:3869
Date: 02/07/2024

WATER MAINS RECORDS

Address or Site Reference: COWM TOP HOUSE COWM TOP LANE,
ROCHDALE, OL11 2PU

Printed by: Property Searches



The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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DRAWING 1 of 1



National Grid Polygon Report

1 of 2

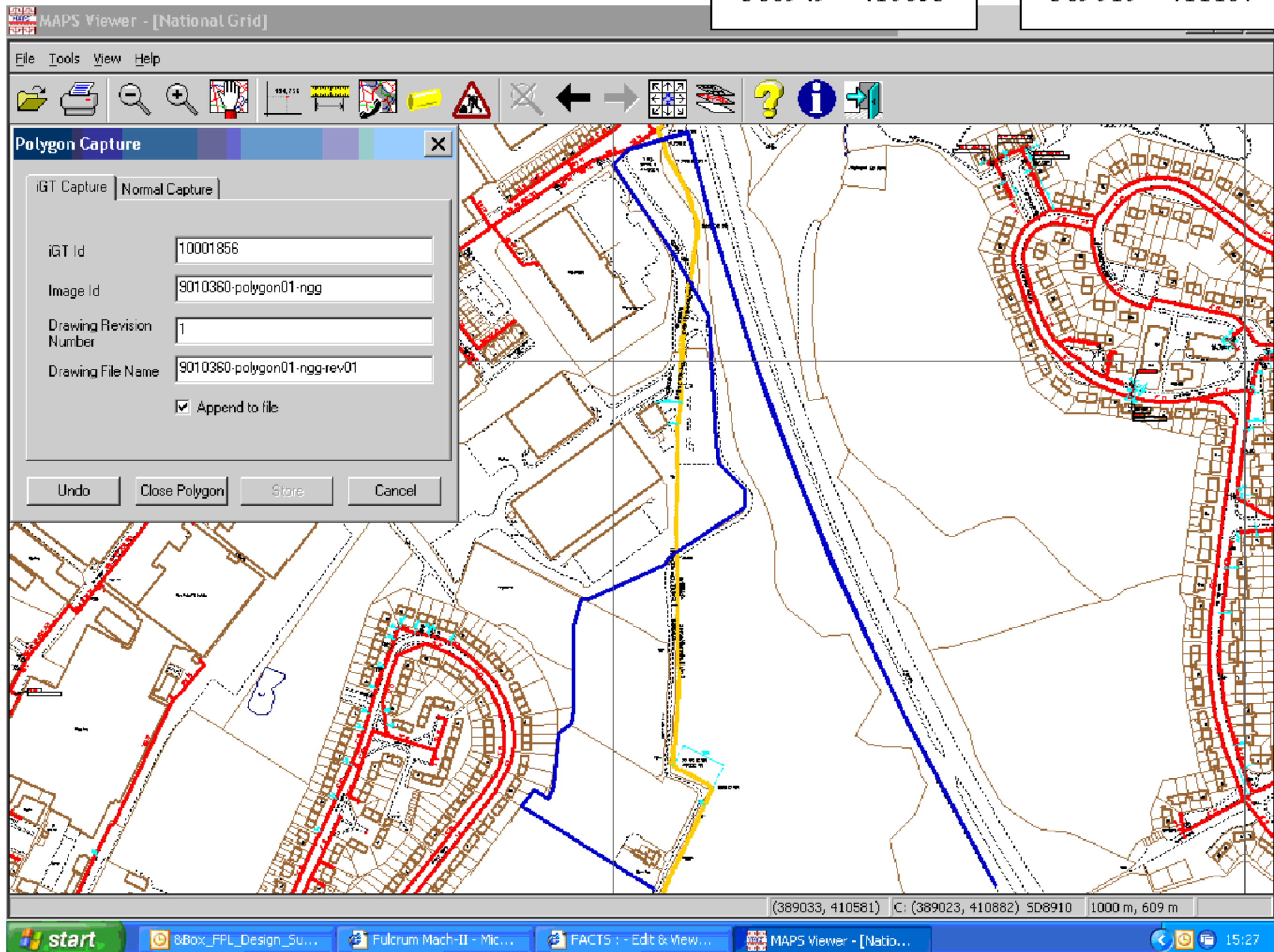
FPL Ref No.: 9010360

NGG Ref No.: 15276101

Site Address:
Crown Business Park
Cowm Top Lane
Rochdale
Lancashire
OL11 2PU

389010 – 411167
389001 – 411154
389049 – 411082
389076 – 411035
389082 – 410935
389084 – 410919
389104 – 410898
389104 – 410884
389044 – 410845
389039 – 410839
388982 – 410810
388975 – 410811
388969 – 410790
388969 – 410724
388967 – 410712
388957 – 410705
388953 – 410633
388949 – 410653

388937 – 410660
388927 – 410647
389033 – 410581
388991 – 410482
389036 – 410470
389058 – 410469
389115 – 410482
389189 – 410510
389256 – 410522
389278 – 410523
389322 – 410547
389303 – 410584
389251 – 410679
389197 – 410789
389143 – 410911
389102 – 411027
389059 – 411182
389010 – 411167



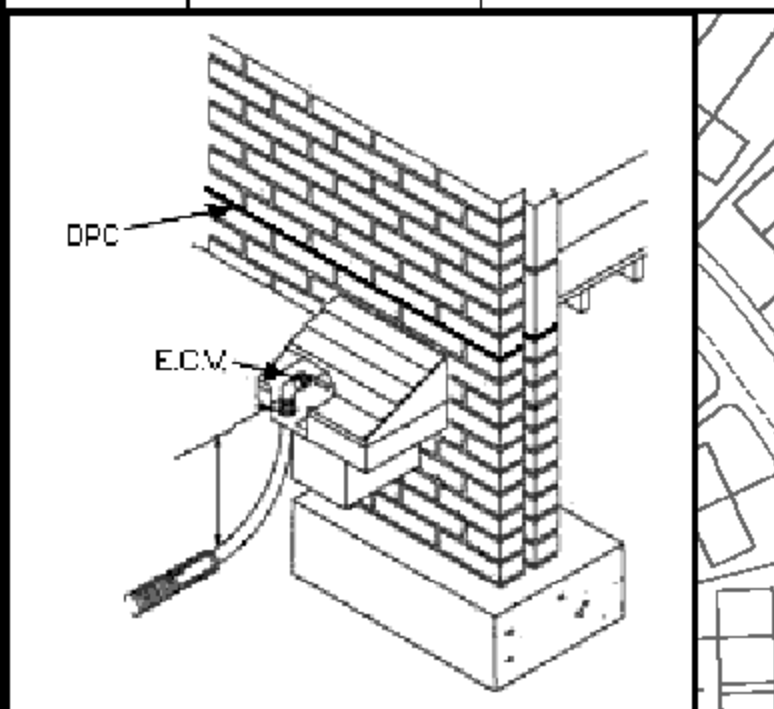
TRENCH DEPTH GUIDELINES

All ducts (if used) must conform to BS4962, Yellow in colour, convoluted and perforated.

MINIMUM PROXIMITY DISTANCES

The permissible proximities to normally occupied buildings vary depending upon construction material and operating pressure show in the tables below

PE MAINS		Maximum Operating Pressure	
O.D (mm)	Material PE Grade	<=75mbar (LP)	>75mbar (HP)
		Minimum Proximity to Premises (m)	
<=140	PE80 SDR17.6	0.25	3
	PE80 SDR11	0.25	3
	PE100 SDR11	0.25	3
160 to 250	PE80 SDR17.6	1	3
	PE80 SDR11	1	3
	PE100 SDR11	1	3
315	PE80 SDR17.6	1	3
	PE80 SDR11	1	3
	PE100 SDR11	1	3



LOAD SCHEDULE				
Unit No.	HQ (kW)	AQ (kWh)	Termination	ECV size
A1	11	11,000	Semi concealed meter box	1"
A2	15	15,000	Semi concealed meter box	1"
A3	15	15,000	Semi concealed meter box	1"
A4	11	11,000	Semi concealed meter box	1"
B1	9	9,000	Semi concealed meter box	1"
B2	9	9,000	Internal 1st floor	1"
B3	9	9,000	Internal 1st floor	1"
B4	9	9,000	Semi concealed meter box	1"
1A	110	110,000	GC2 wall mounted kiosk	2"
1B	110	110,000	GC2 wall mounted kiosk	2"
1C	110	110,000	GC2 wall mounted kiosk	2"
1D	110	110,000	GC2 wall mounted kiosk	2"
1E	220	220,000	GC4 kiosk & concrete base	2"

Connection Point
E: 389010
N: 411167
Existing main - 150mm
DI CTMR 0311534398

Fulcrum to cross
the HP main at
this point

Existing 12"
HP steel main
in situ

Revised site boundary at node 45, developer to excavate beyond this point, please see assumption sheets for surface categories

Route of overhead power cables running through site

Existing 12"
HP steel main
in situ

The mains and service have been designed in accordance with IGE/TD/3 & IGE/TD/4. The service terminations are in accordance with IGE/GM6 & 8 and IGE/G/5. Any electrical equipment to comply with IGE/GM 7. Meter room/kiosk must be equally ventilated at high and low level to a minimum 3% of total floor area.

Fire valves are to be installed on each service although they are not clearly shown due to the drawing scale.

****IMPORTANT CUSTOMER INFORMATION****
All GRP kiosks are to be protected from traffic damage, this can be ensured by installing crash barriers or concrete bollards.

FINAL

"VERY IMPORTANT - INFORMATION FOR CUSTOMER"

TRENCH DEPTH GUIDELINES

All trenches to be in accordance with N.J.U.G. guidelines

MINIMUM DEPTHS OF COVER:-

MAINS: (a) Carriageway - 750mm (b) Other ground - 600mm

SERVICES: (a) >63mm - As above (b) <=63mm - 450mm

*All pipes laid in agricultural land - 1.1m

All ducts (if used) must conform to BS4962, Yellow in colour, convoluted and perforated.

VERY IMPORTANT - INFORMATION FOR CUSTOMER

MINIMUM PROXIMITY DISTANCES

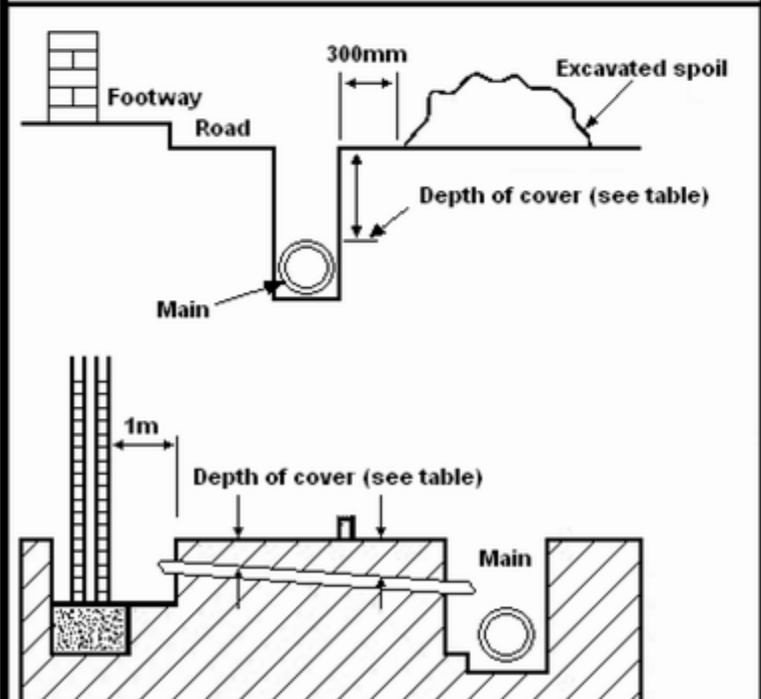
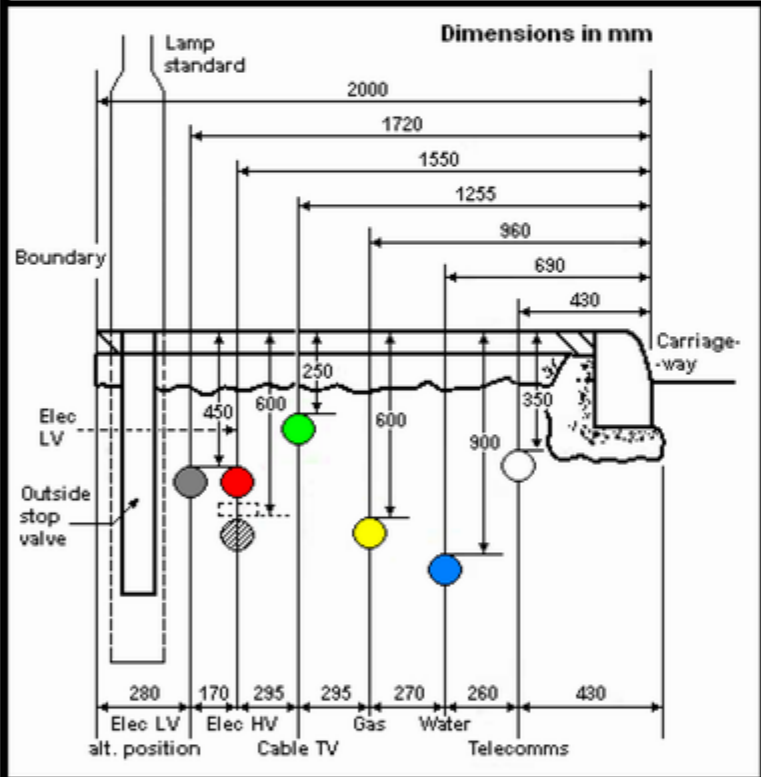
The permissible proximities to normally occupied buildings vary depending upon construction material and operating pressure show in the tables below

STEEL MAINS

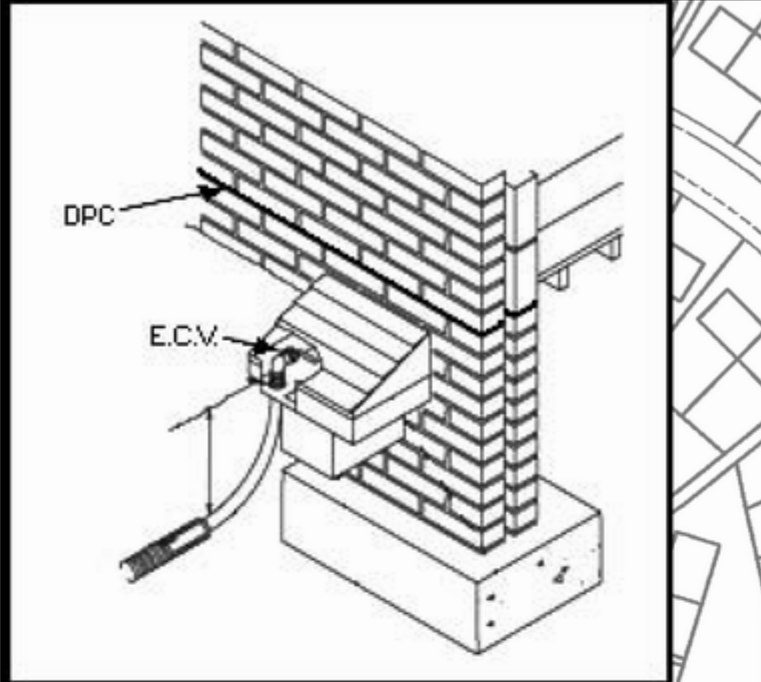
Operating Pressure	Minimum Proximity to Premises (m)
LP	0.25
MP	1
IP	3

PE MAINS

O.D (mm)	Material PE Grade	Maximum Operating Pressure	
		<=75mbar (LP)	>75mbar <=2Bar (MP)
<=140	PE80 SDR17.6	0.25	3
	PE80 SDR11	0.25	3
	PE100 SDR11	0.25	3
160 to 250	PE80 SDR17.6	1	3
	PE80 SDR11	1	3
	PE100 SDR11	1	3
315	PE80 SDR17.6	1	3
	PE80 SDR11	1	3
	PE100 SDR11	1	3



NOTE	
Valves with levers must fall to close	
Pressure Tier	LP / MP
Dim A Minimum Distance	2xDiameter
Dim B Minimum Distance	300mm
Dim H Tolerance	± 25mm
Service Valve Size	Up to 50mm
Valve Type	SCREWED
No. Bolts	N/A
Bolt Size	N/A



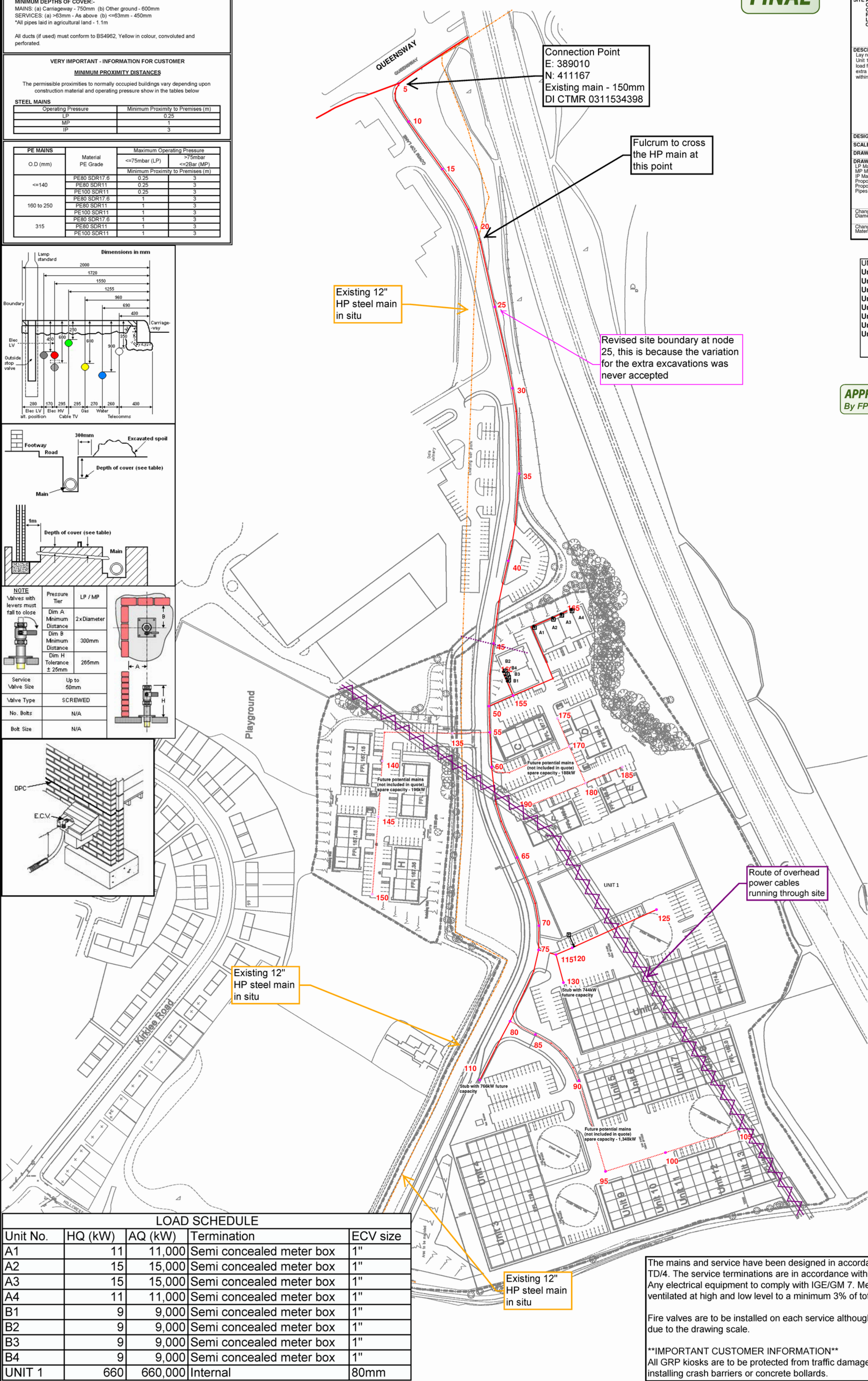
LOAD SCHEDULE				
Unit No.	HQ (kW)	AQ (kW)	Termination	ECV size
A1	11	11,000	Semi concealed meter box	1"
A2	15	15,000	Semi concealed meter box	1"
A3	15	15,000	Semi concealed meter box	1"
A4	11	11,000	Semi concealed meter box	1"
B1	9	9,000	Semi concealed meter box	1"
B2	9	9,000	Semi concealed meter box	1"
B3	9	9,000	Semi concealed meter box	1"
B4	9	9,000	Semi concealed meter box	1"
UNIT 1	660	660,000	Internal	80mm

****REINFORCEMENTS REQUIRED - THIS WILL NOT AFFECT PHASE 1 OF WORKS****

FINAL

Fulcrum Pipelines Limited 2 Europa View Sheffield Business Park Sheffield, S9 1XH	
QUOTE REF: 9010360 VARIATION (4179297)	
SITE ADDRESS: CROWN BUSINESS PARK CROWN TOP LANE ROCHDALE LANCASHIRE OL11 2PU	
DESCRIPTION OF WORKS: Lay new mains and services to 9 units at Block A, B and Unit 1. Mains sized for future potential development. Total load for site must not exceed 4000kW. Variation design 4 - 2 extra supplies, revised site boundary, developer to excavate within site boundary.	
DESIGNED BY: Lee Buttery	
SCALE: 1:1000 @ A1	DATE: 22/02/2012
DRAWING: E: 389010 N: 411167	
DRAWING KEY: LP Main MP Main IP Main Proposed Service Proposed Meter Position Pipes To Be Abandoned	
Change Of Diameter	Governor
Change Of Material	Valve
UNIT	MPRN
Unit A1	7678319105
Unit A2	7678319206
Unit A3	7678319307
Unit A4	7678319408
Unit B1	7678319509
Unit B2	7678319610
Unit B3	7678319700
Unit B4	7678319801

APPROVED
By FPL at 9:39 am, May 09, 12



The mains and service have been designed in accordance with IGE/TD/3 & IGE/TD/4. The service terminations are in accordance with IGE/GM6 & 8 and IGE/G/5. Any electrical equipment to comply with IGE/GM 7. Meter room/kiosk must be equally ventilated at high and low level to a minimum 3% of total floor area.

Fire valves are to be installed on each service although they are not clearly shown due to the drawing scale.

****IMPORTANT CUSTOMER INFORMATION****
All GRP kiosks are to be protected from traffic damage, this can be ensured by installing crash barriers or concrete bollards.

"VERY IMPORTANT - INFORMATION FOR CUSTOMER"

TRENCH DEPTH GUIDELINES

All trenches to be in accordance with N.J.U.G. guidelines

MINIMUM DEPTHS OF COVER:

MAINS: (a) Carriageway - 750mm (b) Other ground - 600mm

SERVICES: (a) >63mm - As above (b) <=63mm - 450mm

*All pipes laid in agricultural land - 1.1m

All ducts (if used) must conform to BS4962, Yellow in colour, convoluted and perforated.

VERY IMPORTANT - INFORMATION FOR CUSTOMER

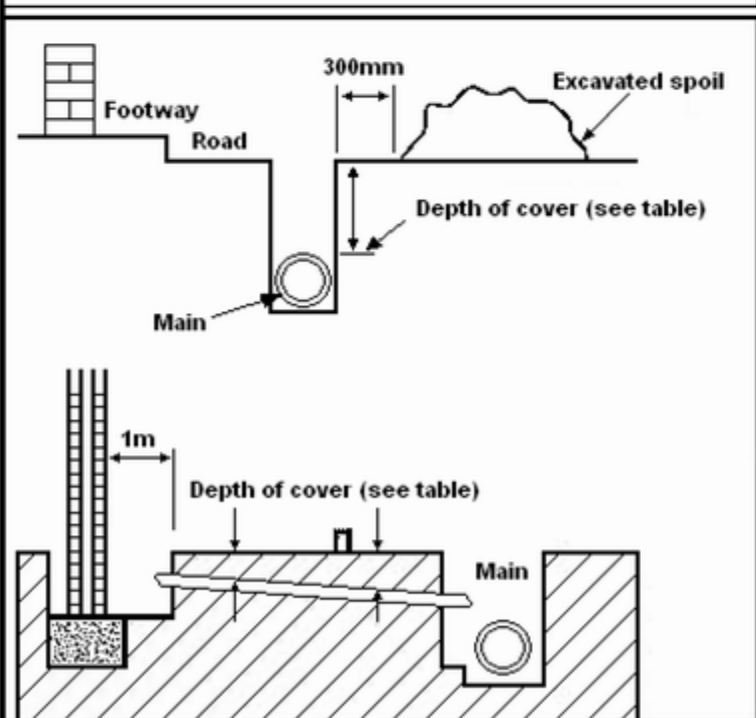
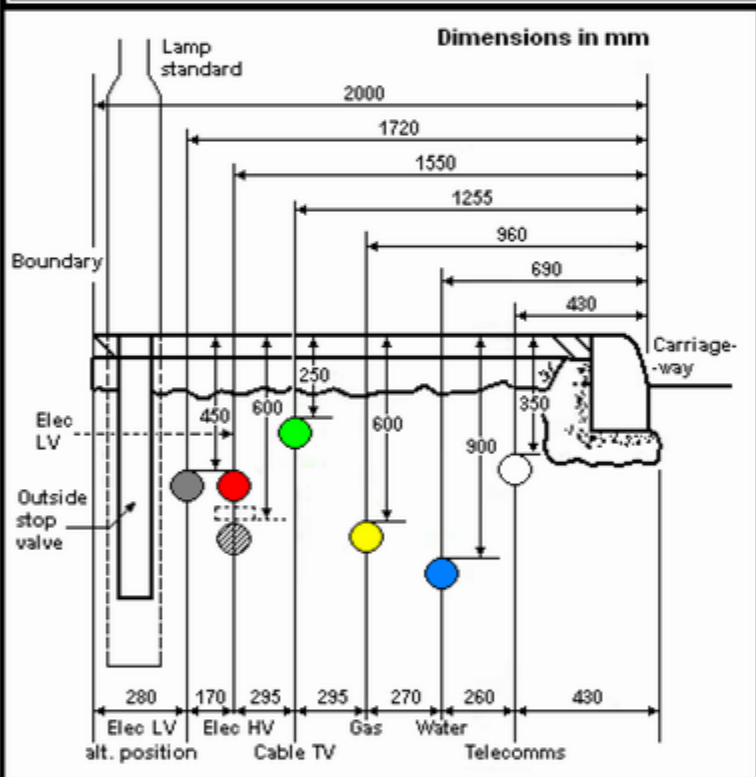
MINIMUM PROXIMITY DISTANCES

The permissible proximities to normally occupied buildings vary depending upon construction material and operating pressure show in the tables below

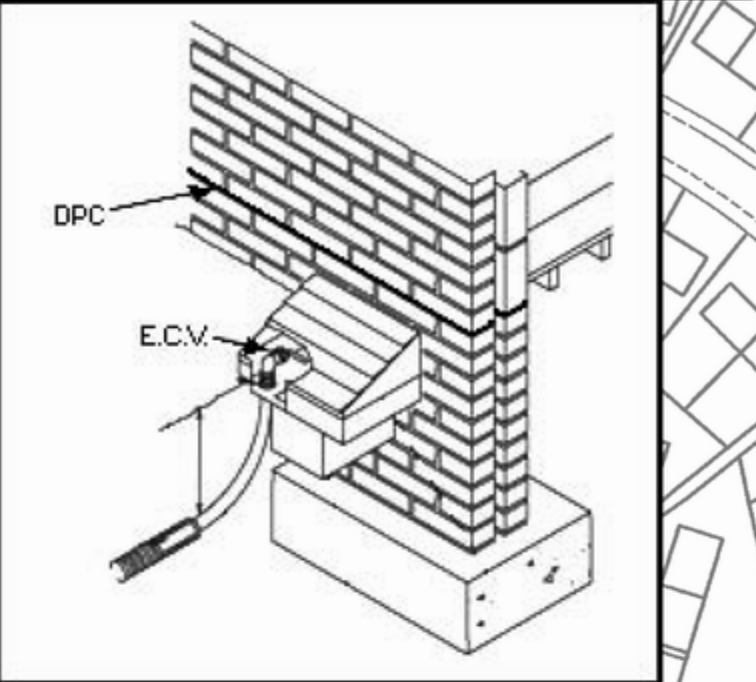
STEEL MAINS

Operating Pressure	Minimum Proximity to Premises (m)
LP	0.25
MP	1
IP	3

PE MAINS		Maximum Operating Pressure	
O.D (mm)	Material PE Grade	<=75mbar (LP)	>75mbar <=2Bar (MP)
		Minimum Proximity to Premises (m)	
<=140	PE80 SDR17.6	0.25	3
	PE80 SDR11	0.25	3
	PE100 SDR11	0.25	3
160 to 250	PE80 SDR17.6	1	3
	PE80 SDR11	1	3
	PE100 SDR11	1	3
315	PE80 SDR17.6	1	3
	PE80 SDR11	1	3
	PE100 SDR11	1	3



NOTE	
Valves with levers must fall to close	
	Pressure Tier
	Dim A Minimum Distance
	Dim B Minimum Distance
	Dim H Tolerance ± 25mm
Service Valve Size	Up to 50mm
Valve Type	SCREWED
No. Bolts	N/A
Bolt Size	N/A



UNIT	MPRN
Unit 1	7678319902
Unit A1	7678319105
Unit A2	7678319206
Unit A3	7678319307
Unit A4	7678319408
Unit B1	7678319509
Unit B2	7678319610
Unit B3	7678319700
Unit B4	7678319801

LOAD SCHEDULE				
Unit No.	HQ (kW)	AQ (kW)	Termination	ECV size
A1	11	11,000	Semi concealed meter box	1"
A2	15	15,000	Semi concealed meter box	1"
A3	15	15,000	Semi concealed meter box	1"
A4	11	11,000	Semi concealed meter box	1"
B1	9	9,000	Semi concealed meter box	1"
B2	9	9,000	Semi concealed meter box	1"
B3	9	9,000	Semi concealed meter box	1"
B4	9	9,000	Semi concealed meter box	1"
UNIT 1	660	660,000	Internal	80mm

****REINFORCEMENTS REQUIRED - THIS WILL NOT AFFECT PHASE 1 OF WORKS****

APPROVED
By Fulcrum Pipelines Ltd at 11:50 am, Jul 17, 2012

VARIATION 2 APPROVAL

Fulcrum Pipelines Limited
2 Europa View
Sheffield Business Park
Sheffield, S9 1XH

QUOTE REF: 9010360 VARIATION 2 (4179297)

SITE ADDRESS:
CROWN BUSINESS PARK
CROWN TOP LANE
ROCHDALE
LANCASHIRE
OL11 2PU

DESCRIPTION OF WORKS:
Lay new mains and services to 9 units at Block A, B and Unit 1. Mains sized for future potential development. Total load for site must not exceed 4000kW. Variation design 4 - 2 extra supplies, revised site boundary, developer to excavate within site boundary.

DESIGNED BY: Lee Buttery

SCALE: 1:1000 @ A1 DATE: 16/07/2012

DRAWING: E: 389010 N: 411167

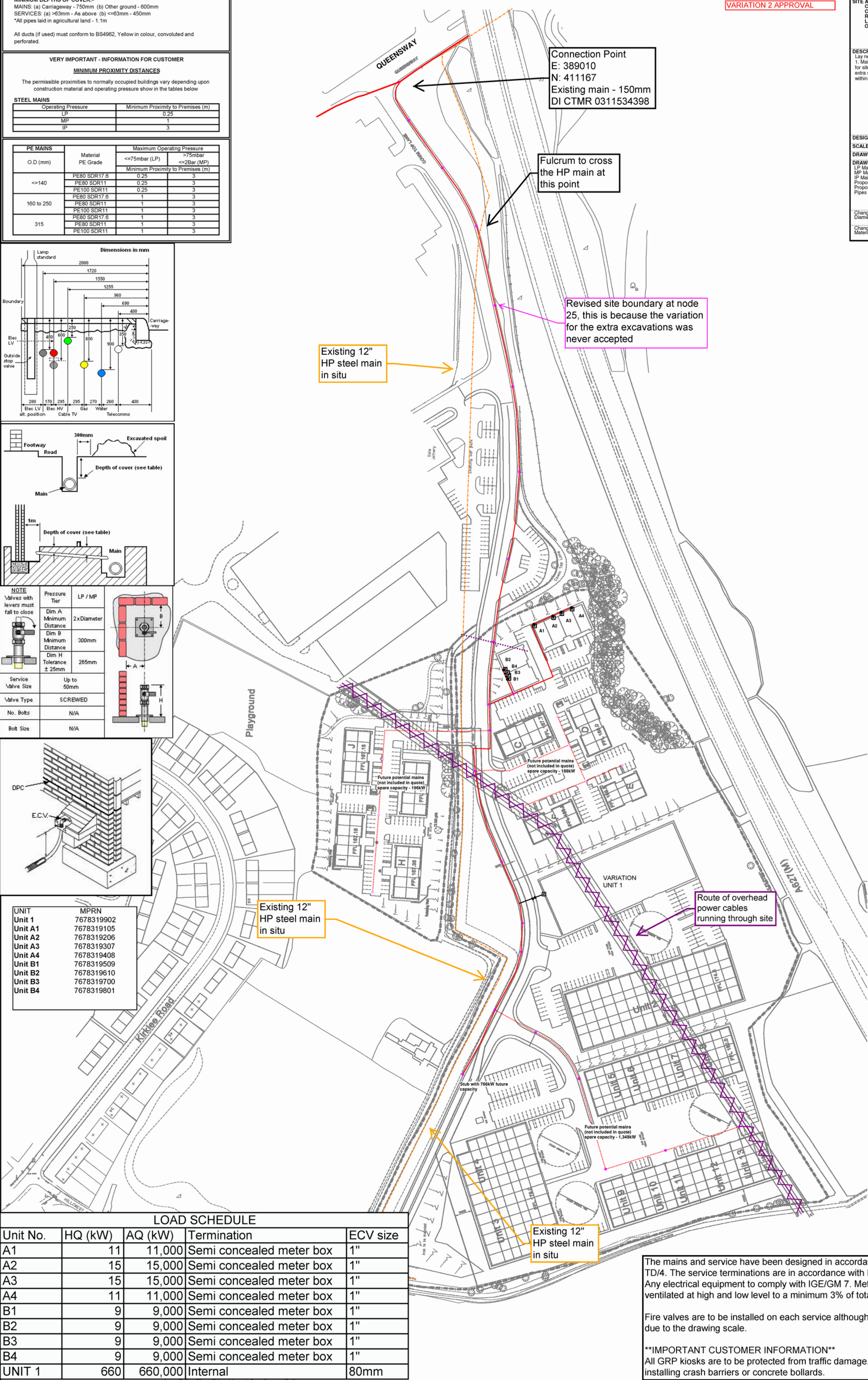
DRAWING KEY:
LP Main
MP Main
IP Main
Proposed Service
Proposed Meter Position
Pipes To Be Abandoned

Change Of Diameter

Change Of Material

Governor

Valve



The mains and service have been designed in accordance with IGE/TD/3 & IGE/TD/4. The service terminations are in accordance with IGE/GM6 & 8 and IGE/G/5. Any electrical equipment to comply with IGE/GM 7. Meter room/kiosk must be equally ventilated at high and low level to a minimum 3% of total floor area.

Fire valves are to be installed on each service although they are not clearly shown due to the drawing scale.

****IMPORTANT CUSTOMER INFORMATION****
All GRP kiosks are to be protected from traffic damage, this can be ensured by installing crash barriers or concrete bollards.

"VERY IMPORTANT - INFORMATION FOR CUSTOMER"

TRENCH DEPTH GUIDELINES

All trenches to be in accordance with IGE/TD/4 guidelines

Location of Service	Minimum Depth of Cover
Carriageway	750mm
Paved Footways	600mm
Verges	750mm
Open Fields & Agricultural Land	1100mm
Other Private Ground	600mm

All ducts (if used) must conform to BS4962, Yellow in colour, convoluted and perforated.

VERY IMPORTANT - INFORMATION FOR CUSTOMER

MINIMUM PROXIMITY DISTANCES

The permissible proximities to normally occupied buildings vary depending upon construction material and operating pressure show in the tables below

STEEL MAINS

Operating Pressure	Minimum Proximity to Premises (m)
LP	0.25
MP	1
IP	3

PE MAINS

O.D (mm)	Material PE Grade	Maximum Operating Pressure		Minimum Proximity to Premises (m)
		<=75mbar (LP)	>75mbar <=2Bar (MP)	
<=140	PE80 SDR17.6	0.25	3	0.25
	PE80 SDR11	0.25	3	0.25
	PE100 SDR11	0.25	3	0.25
160 to 250	PE80 SDR17.6	1	3	1
	PE80 SDR11	1	3	1
	PE100 SDR11	1	3	1
315	PE80 SDR17.6	1	3	1
	PE80 SDR11	1	3	1
	PE100 SDR11	1	3	1

ALL SERVICES LAID ON THIS PROJECT
COMPLY WITH THE LATEST EDITION OF
IGE / TD / 4



Fulcrum Pipelines Limited
2 Europa View
Sheffield Business Park
Sheffield, S9 1XH

QUOTE REF: 9010360 (4202266)

SCALE: 1:500 @ A3

DATE: 06/06/2012

SITE ADDRESS:

UNIT 2 CROWN BUSINESS PARK
COWM TOP LANE
ROCHDALE LANCASHIRE
OL11 2PU

DESIGNED BY: Ian Wilson

DESCRIPTION OF WORKS:

Lay new 90mm PE LP service to terminate with an 3" ECV within a GC5 kiosk, provided and installed by Fulcrum. Fulcrum to connect to 90mm PE LP FPL main laid under reference 4179297 (9010360). Fulcrum to excavate at the connection point and the customer to carry out remaining excavation.

DRAWING: V1

DRAWING KEY:

LP Main
MP Main
IP Main
Proposed Service
Proposed Meter Position
Pipes To Be Abandoned

Change Of
Diameter

Change Of
Material

Governor

Valve

This plan shows the location of those pipes owned by Scotia Gas Networks plc by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs, or third parties, may also be present in this area and are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Scotia Gas Networks plc or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

APPROVED

By FPL at 11:57 am, Jun 25, 2012

90mm Service Isolation Valve

Unit 2 MPRN7676830406

Connection Point
E389104, N410650
SHQ = 500 kW
AQ = 500,000 kWh
3" ECV

Stub with 766kW future
capacity

GIRS ACCREDITED DESIGNER

DATE 06/06/2012

SIGNATURE

[Signature]

"VERY IMPORTANT - INFORMATION FOR CUSTOMER"

TRENCH DEPTH GUIDELINES

All trenches to be in accordance with IGE/TD/4 guidelines

Location of Service	Minimum Depth of Cover
Carriageway	750mm
Paved Footways	600mm
Verges	750mm
Open Fields & Agricultural Land	1100mm
Other Private Ground	600mm

All ducts (if used) must conform to BS4962, Yellow in colour, convoluted and perforated.

"VERY IMPORTANT - INFORMATION FOR CUSTOMER"

MINIMUM PROXIMITY DISTANCES

The permissible proximities to normally occupied buildings vary depending upon construction material and operating pressure show in the tables below

STEEL MAINS

Operating Pressure	Minimum Proximity to Premises (m)
LP	0.25
MP	1
SP	3

PE MAINS O.D. (mm)	Material PE Grade	Maximum Operating Pressure		Minimum Proximity to Premises (m)	
		<=75mbar (LP)	>75mbar <=2Bar (MP)		
<=140	PE80 SDR17.6	0.25	3	0.25	3
	PE80 SDR11	0.25	3		
	PE100 SDR11	0.25	3		
160 to 250	PE80 SDR17.6	1	3	1	3
	PE80 SDR11	1	3		
	PE100 SDR11	1	3		
315	PE80 SDR17.6	1	3	1	3
	PE80 SDR11	1	3		
	PE100 SDR11	1	3		

ALL SERVICES LAID ON THIS PROJECT
COMPLY WITH THE LATEST EDITION OF
IGE / TD / 4



Fulcrum Pipelines Limited
2 Europa View
Sheffield Business Park
Sheffield, S9 1XH

QUOTE REF: 9010360 2nd proj variation (4202266)

SCALE: 1:500 @ A3

DATE: 16/07/2012

SITE ADDRESS:

UNIT 2 CROWN BUSINESS PARK
COWM TOP LANE
ROCHDALE LANCASHIRE
OL11 2PU

DESIGNED BY: Ian Wilson

DESCRIPTION OF WORKS:

Lay new 90mm PE LP service to terminate with an 3" ECV to internal position, provided and installed by Fulcrum. Fulcrum to connect to 90mm PE LP FPL main laid under reference 4179297 (9010360). Fulcrum to excavate at the connection point and the customer to carry out remaining excavation.

DRAWING: V1

DRAWING KEY:

LP Main
MP Main
IP Main
Proposed Service
Proposed Meter Position
Pipes To Be Abandoned

Change Of
Diameter

Change Of
Material

Governor

Valve

APPROVED

By Fulcrum Pipelines Ltd at 12:41 pm, Jul 17, 2012

Unit 2 MPRN 7676830406

Connection Point
E389104, N410650
SHQ = 500 kW
AQ = 500,000 kWh
3" ECV

Stub with 766kW future
capacity

Future potential mains
(not included in quote)
spare capacity - 1,348kW

GIRS ACCREDITED DESIGNER

DATE

SIGNATURE

[Signature]

APPROVED

By Fulcrum Pipelines Limited at 10:08 am, Jun 24, 2015



2 Europa View,
Sheffield
Business Park,
Sheffield, S9 1XH

QUOTE REF: 9010360 (5040535)

SCALE: 1:2500 @ A3

DATE: 23/04/2015

SITE ADDRESS:

Crown Business Park
Unit 3 Cowm Top Lane
Rochdale
OL11 2PU

DESIGNED BY: Simon Parks

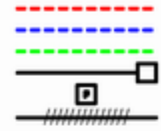
DESCRIPTION OF WORKS:

Lay a suitably sized LP service to a new commercial property terminating externally within a Fulcrum supplied and installed GC2 free standing kiosk. Fulcrum to excavate in public only, developer to excavate within the site boundary. Fulcrum to install the U16 meter.

DRAWING:

DRAWING KEY:

Proposed LP Main
Proposed MP Main
Proposed IP Main
Proposed Service
Proposed Meter Position
Pipes To Be Abandoned



Change Of
Diameter

Change Of
Material

Governor

Valve



Existing main may only extend to this point. Investigation on site required.

Lay new 63mm LP service to terminate externally within a GC2 free standing kiosk.
Hourly load = 173kwh
Annual load = 173000AQ

Unit 3 7679770407

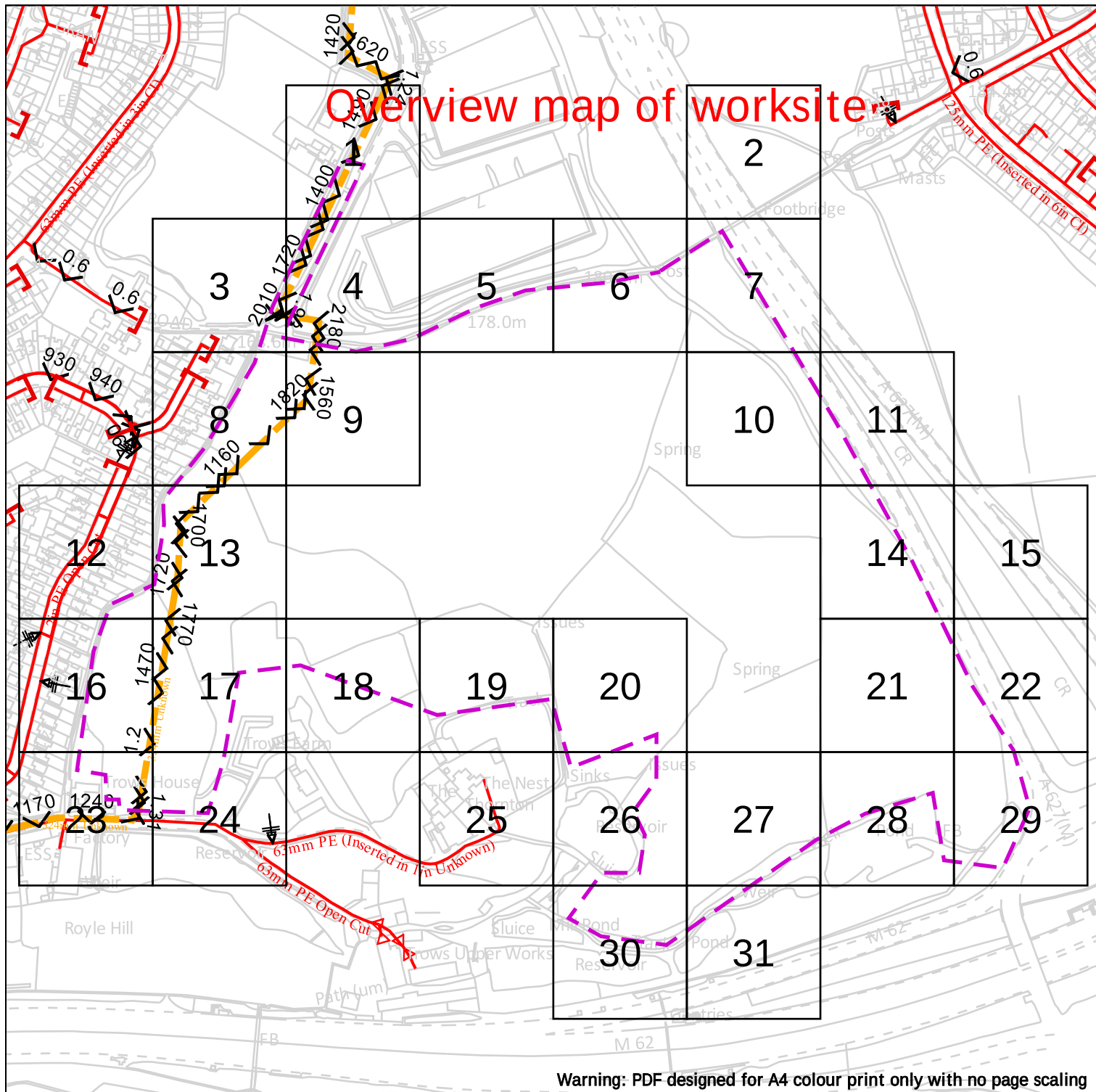
Existing 90mm PE LP main laid under FPL reference: 9010360

Connection point E-389056 N-410602

UNIT 7

GIRTS ACCREDITED DESIGNER		DATE: 11/05/2015	
SIGNATURE: <i>S. Parks</i>		FULCRUM	
MINIMUM COVER REQUIREMENTS FOR PIPE INSTALLATIONS			
All trenches to be provided in accordance with BS5400 (Metric) and BS5400 (Imperial)			
Location Of Service	Minimum Depth Of Cover		
Carriageway	750mm		
Paved Footway	600mm		
Gravel	750mm		
Open Field & Agricultural Land	1000mm		
Other Private Ground	600mm		
All ducting (if used) must conform to BS483, be yellow in colour, constructed and performed			
MINIMUM COVER REQUIREMENTS FOR PIPE INSTALLATIONS			
The permissible proximity to normally occupied buildings varies depending on the pipe material and operating pressures shown in the table below			
All proximities are provided in accordance with BS5400 (Metric) and BS5400 (Imperial)			
PE Mains - BS4753 Edition 3			
Type Of Main	Diameter Of Main (mm)	Minimum Building Proximity (Metres)	Minimum Building Proximity (Metres)
PE	Up to 110mm	0.25	0.25
	110mm to 160mm	0.25	0.25
	160mm to 225mm	0.25	0.25
	225mm to 300mm	0.25	0.25
Steel Mains - BS4753 Edition 3			
Type Of Main	Wall Thickness Of Main (mm)	Minimum Building Proximity (Metres)	Minimum Building Proximity (Metres)
Steel	6.35 to 11	0.25	0.25
	11 to 13.8	0.25	0.25
	13.8 to 15.8	0.25	0.25
	15.8 to 19.0	0.25	0.25
PE Services - BS4753 Edition 3			
Size (mm)	Minimum Building Proximity (Metres)	Minimum Building Proximity (Metres)	Minimum Building Proximity (Metres)
150mm	0.25	0.25	0.25
225mm	0.25	0.25	0.25
300mm	0.25	0.25	0.25
450mm	0.25	0.25	0.25
600mm	0.25	0.25	0.25
For all steel services please refer to BS4753 Edition 3			
Notes:			
Mains on this project are designed to the latest edition of BS4753			
Services on this project are designed to the latest edition of BS4753			
All Non-Domestic Services will be installed with a service isolation valve			
Manufactured systems on this project are designed to the latest edition of BS4753			
Low pressure systems are designed and installed to comply with BS4753 - 1			
Medium pressure systems are designed and installed to comply with BS4753 - 2			
High pressure systems are designed and installed to the latest edition of BS4753 - 3			
Ventilation and flue extraction are designed and installed to the latest edition of BS4753 - 4			
All services are designed and installed to the latest edition of BS4753 - 5			

Overview map of worksite



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Cadent
Your Gas Network

Dig Sites

Area:

Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve
Depth of cover
Syphon



Diameter Change
Material Change
Out of Standard Service

Where an out-of-standard service is present please contact plant protection 0800 688 588 for further information.

Out-of-standard service symbology may be used to indicate one or more of the following:

- Identification of shallow services
 - Identification of dual services
 - Recording of non-perpendicular services
- A perpendicular service/connection is laid in a straight line from the entry point at the property to the connection at the main – this includes a pipe that has a perpendicular connection and is not straight but does not deviate more than 1m off centre line.

Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

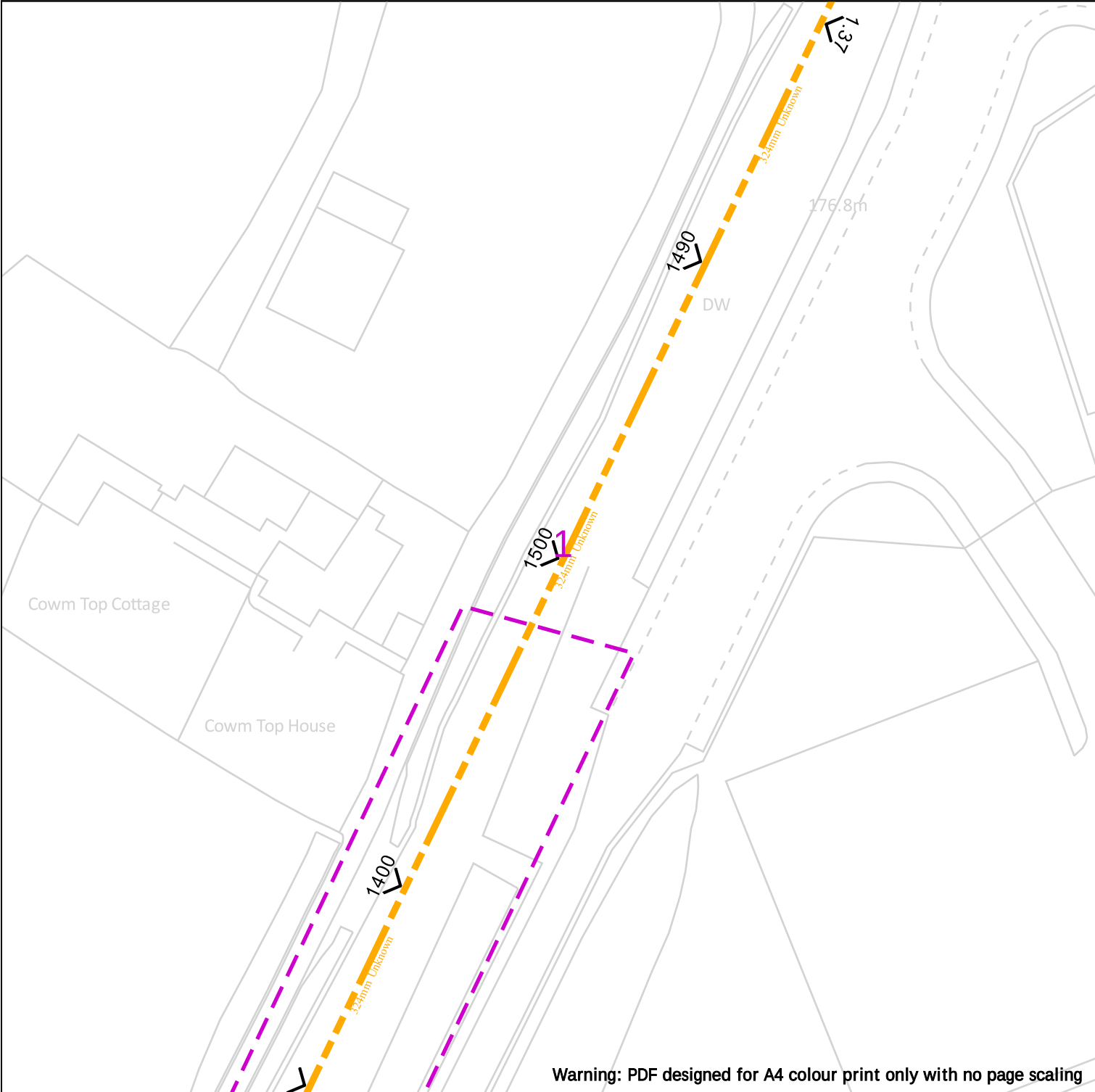
Scale: 1:4100 (When plotted at A4)

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Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

Dig Sites	Area:	Line:
	LP Mains	Valve
	MP Mains	Depth of cover
	IP Mains	Syphon
	LHP Mains	Out of Standard Service
		Diameter Change
		Material Change

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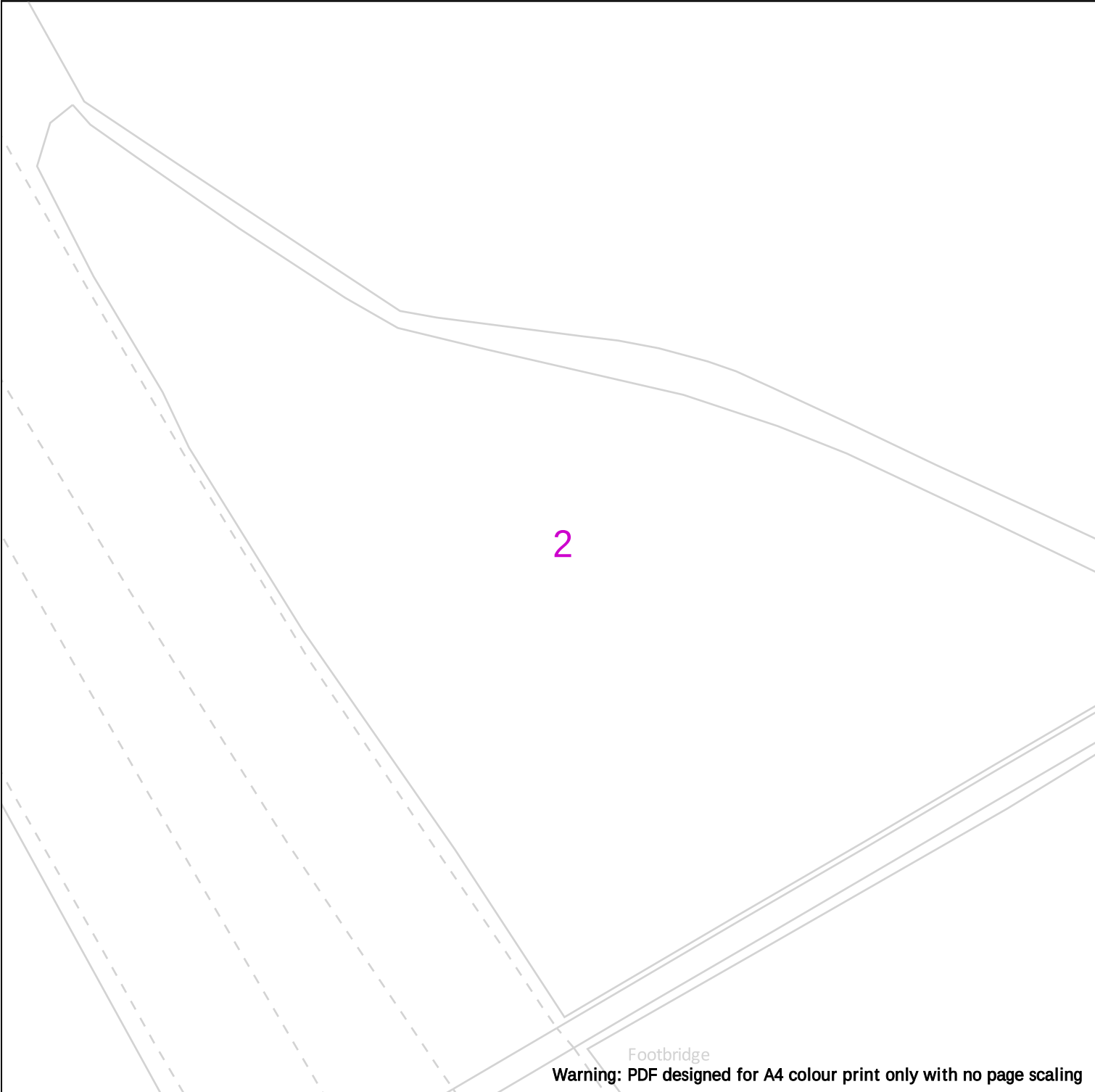
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Footbridge
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Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

Dig Sites

Area:

Line:

LP Mains

MP Mains

IP Mains

LHP Mains

Valve

Depth of cover

Syphon

Diameter Change

Material Change

Out of Standard Service

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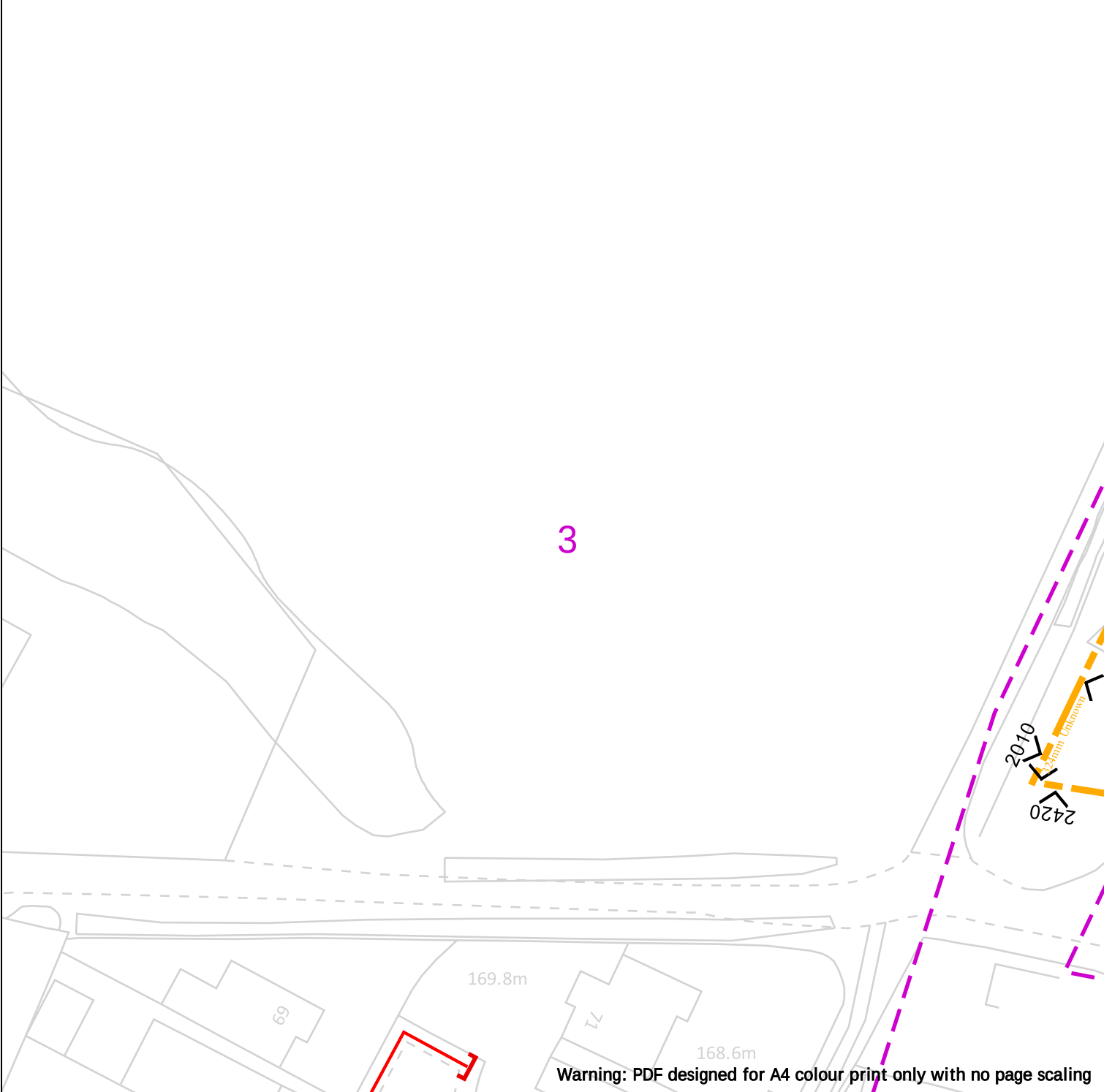
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Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

Dig Sites	Area:	Line:	
	LP Mains		
	MP Mains		
	IP Mains		
	LHP Mains		

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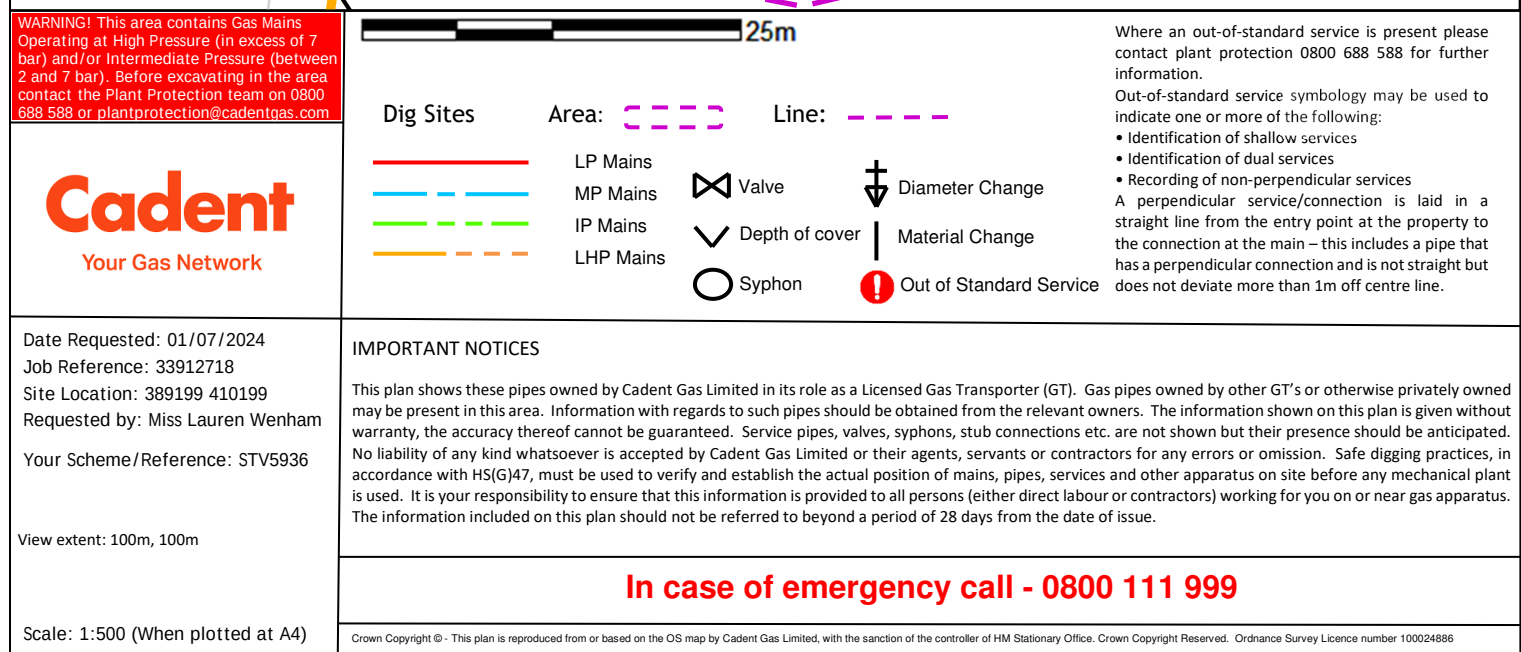
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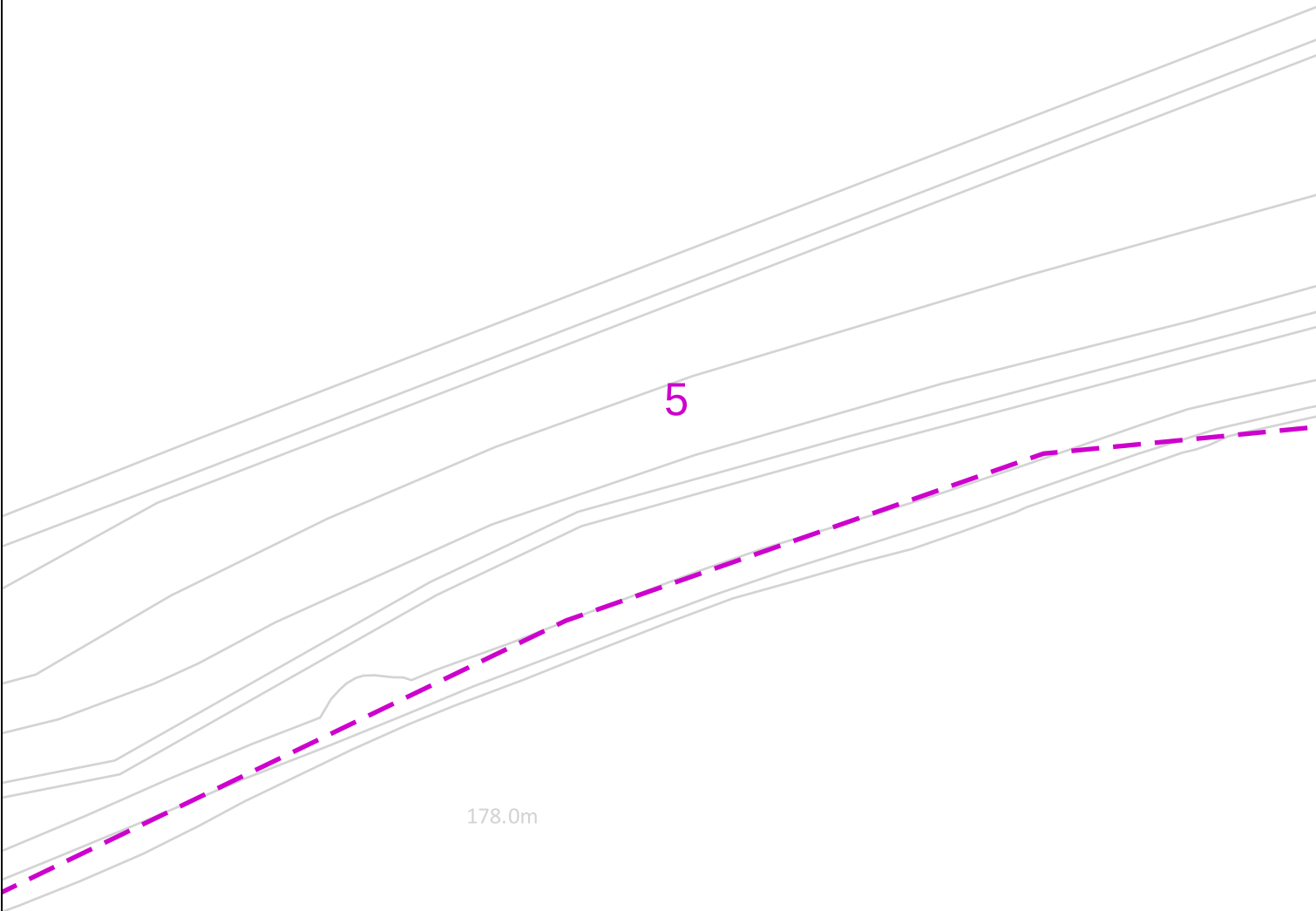
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Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

Dig Sites	Area:	Line:
	LP Mains	Valve
	MP Mains	Diameter Change
	IP Mains	Depth of cover
	LHP Mains	Material Change
		Syphon
		Out of Standard Service

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Dig Sites

Area: 

Line: 



LP Mains



MP Mains



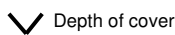
IP Mains



LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

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View extent: 100m, 100m

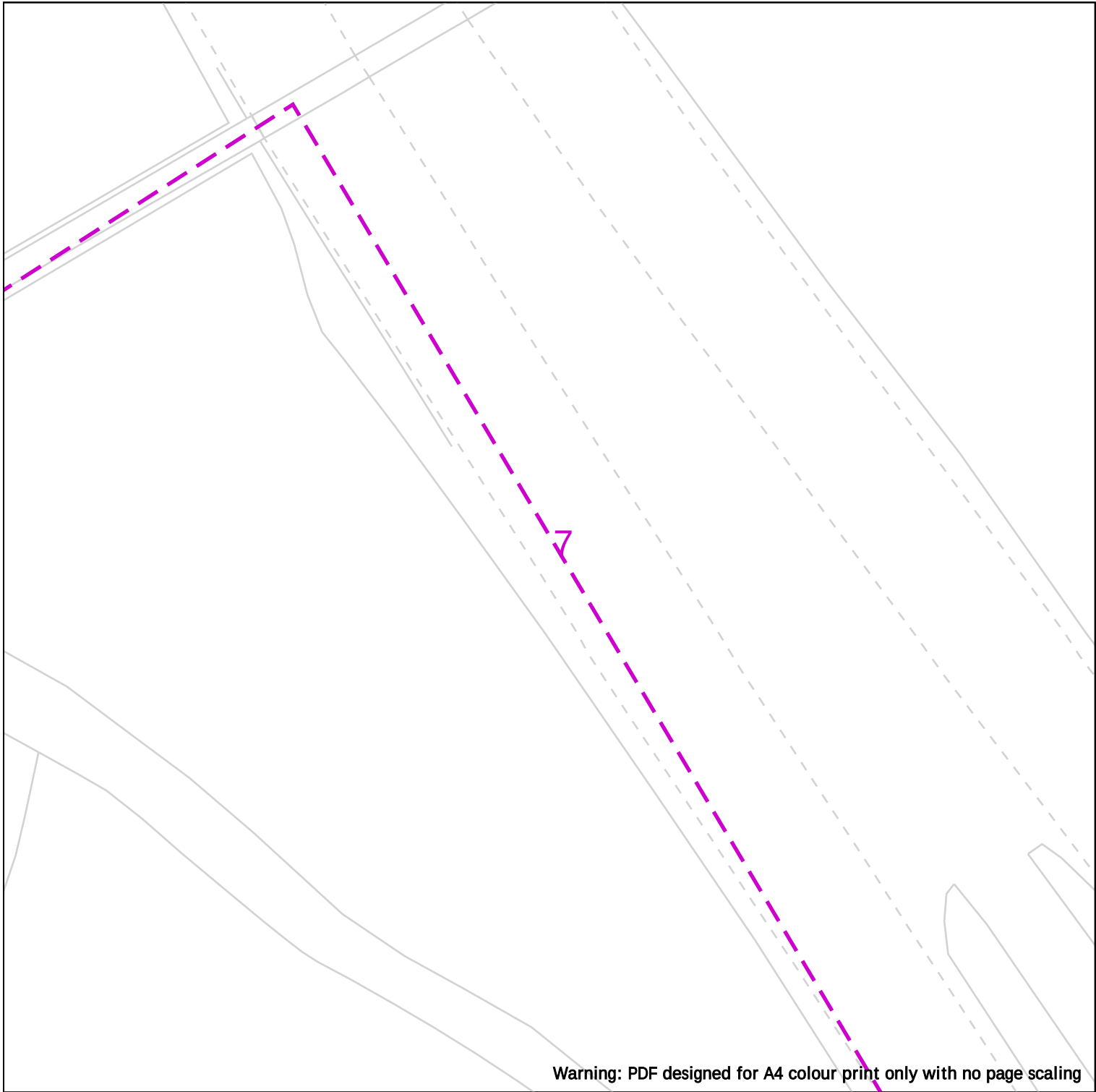
Scale: 1:500 (When plotted at A4)

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 25m

Dig Sites

Area: 

Line: 



LP Mains



MP Mains



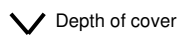
IP Mains



LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

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Site Location: 389199 410199
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View extent: 100m, 100m

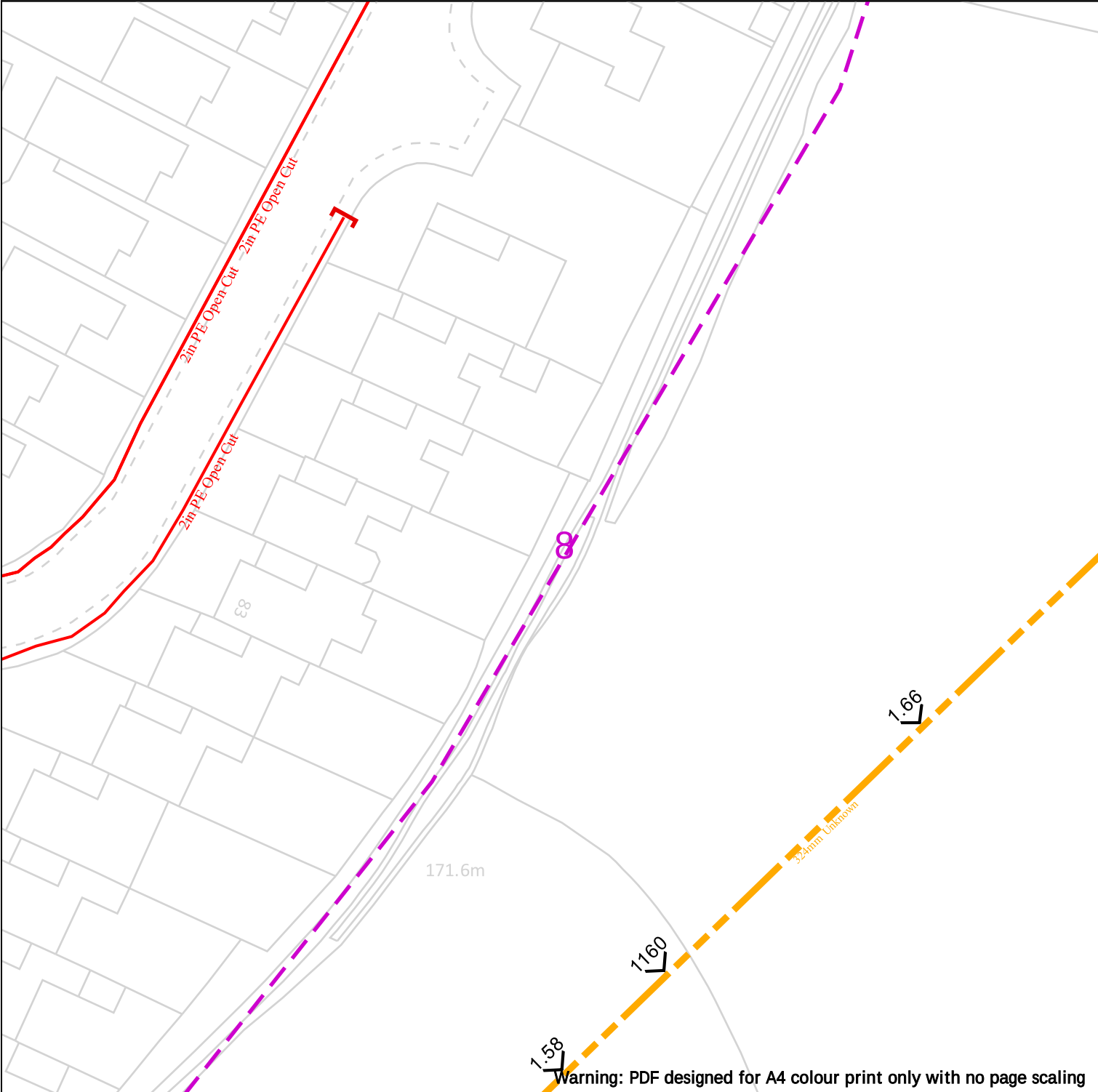
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View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)



Dig Sites

Area:

Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Depth of cover

Syphon



Diameter Change



Material Change



Out of Standard Service

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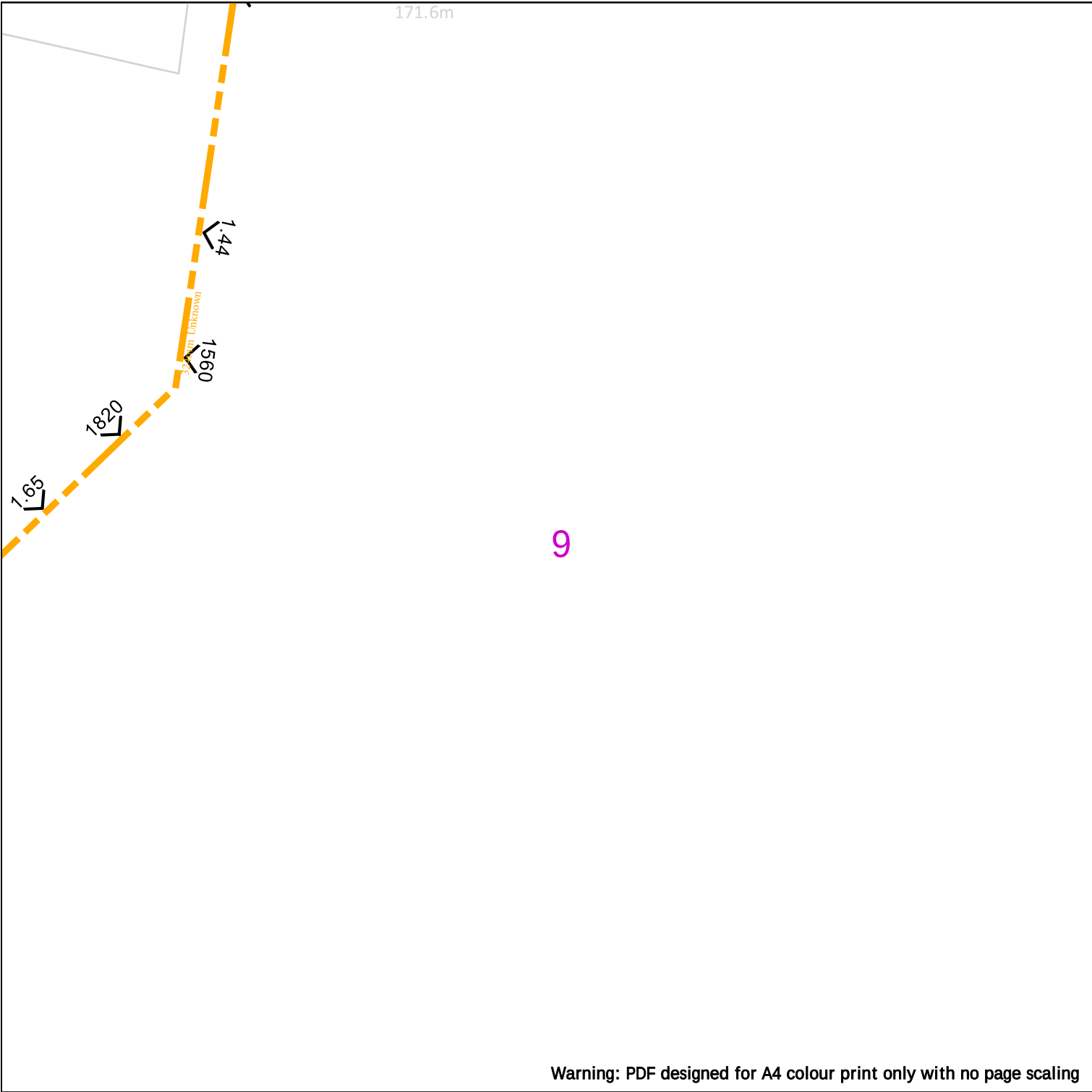
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Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

25m

Dig Sites

Area:

Line:

LP Mains

MP Mains

IP Mains

LHP Mains

Valve

Depth of cover

Syphon

Diameter Change

Material Change

Out of Standard Service

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10

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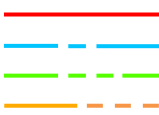
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Dig Sites

Area:

Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve

Depth of cover

Syphon



Diameter Change



Material Change



Out of Standard Service

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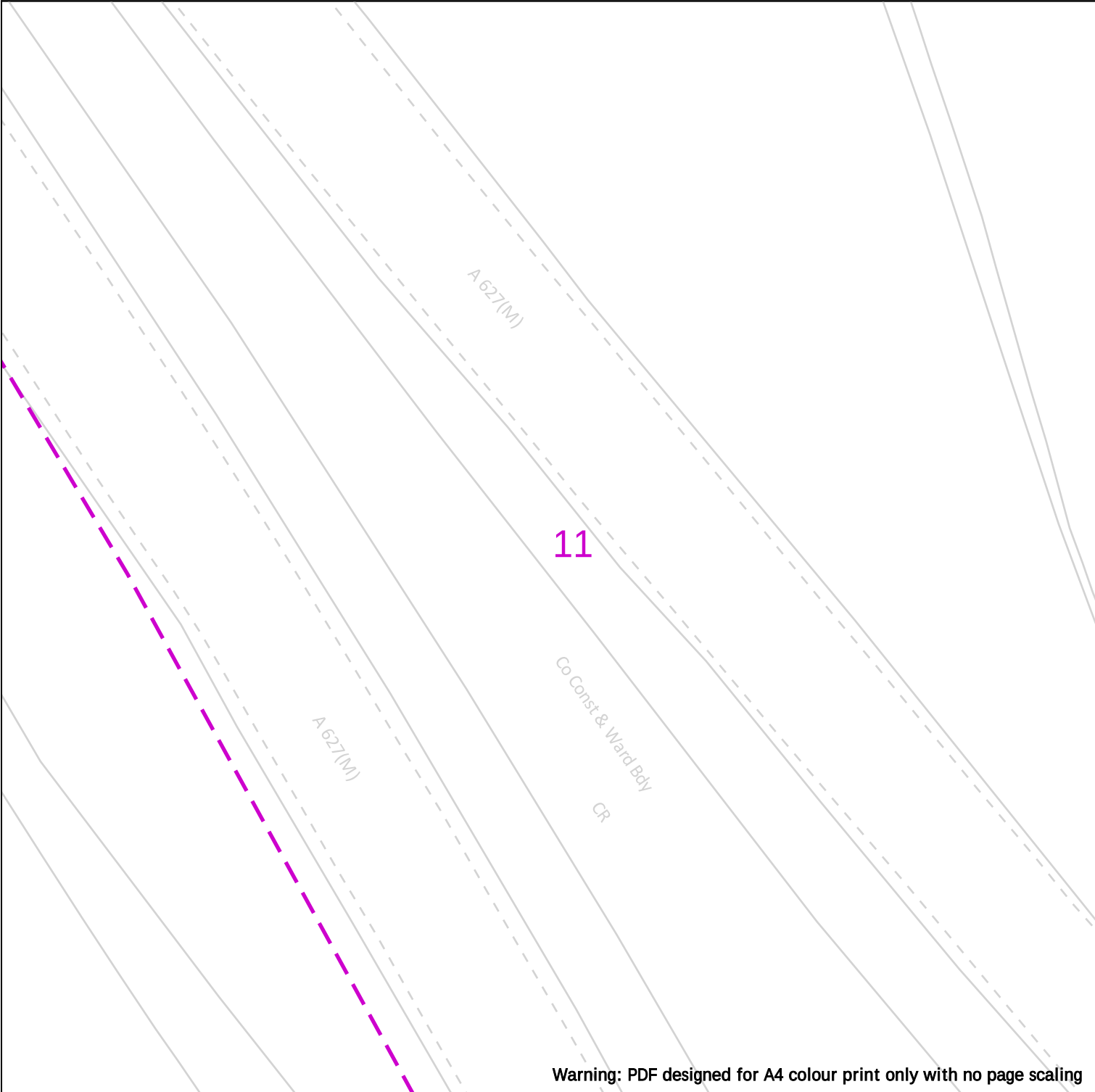
View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

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View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

Dig Sites	Area:	Line:
	LP Mains	Valve
	MP Mains	Depth of cover
	IP Mains	Syphon
	LHP Mains	Out of Standard Service
		Diameter Change
		Material Change

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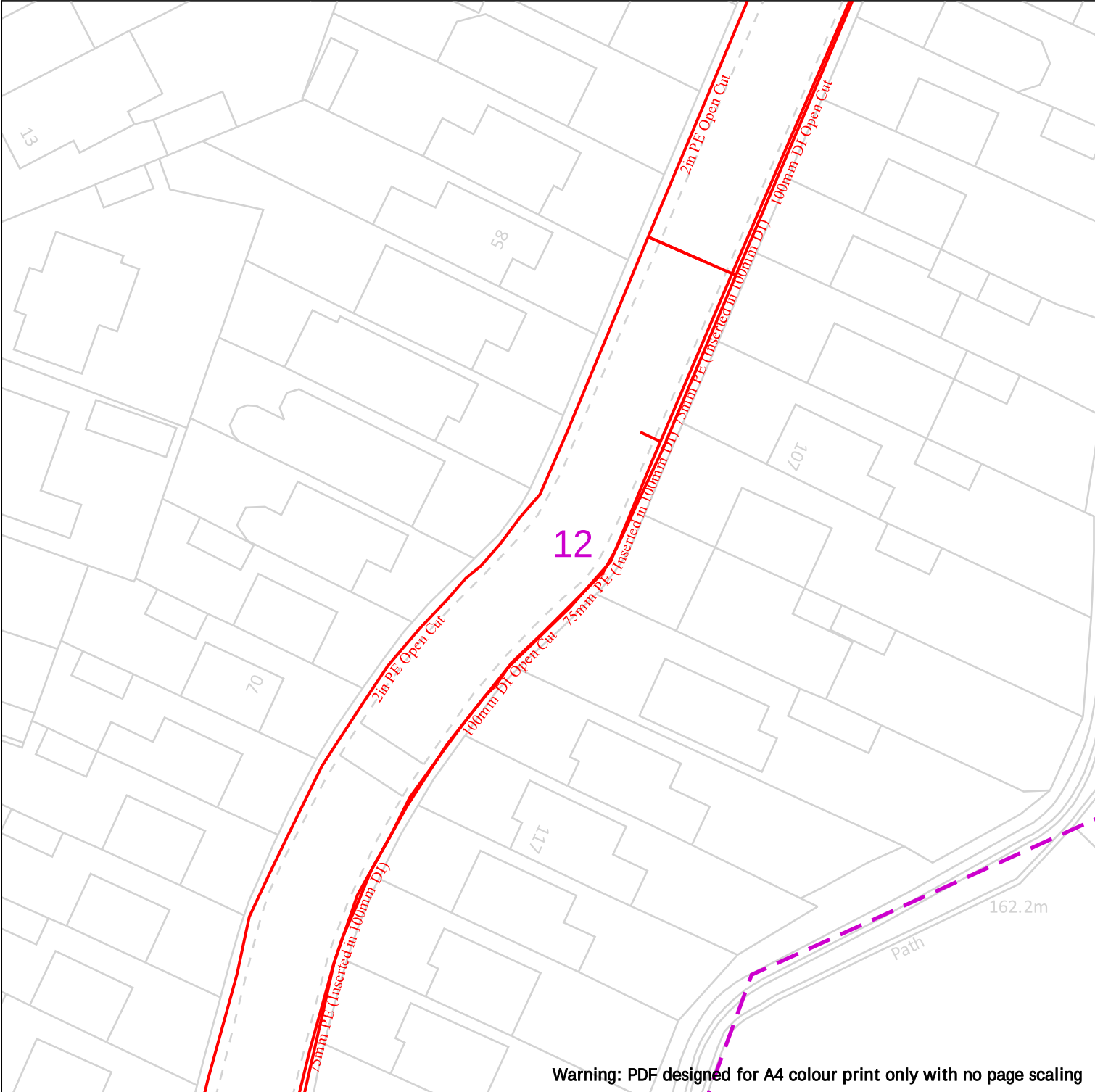
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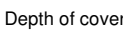
Dig Sites

Area:

Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve

Depth of cover

Syphon



Diameter Change

Material Change

Out of Standard Service

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- Identification of dual services
- Recording of non-perpendicular services

A perpendicular service/connection is laid in a straight line from the entry point at the property to the connection at the main – this includes a pipe that has a perpendicular connection and is not straight but does not deviate more than 1m off centre line.

Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

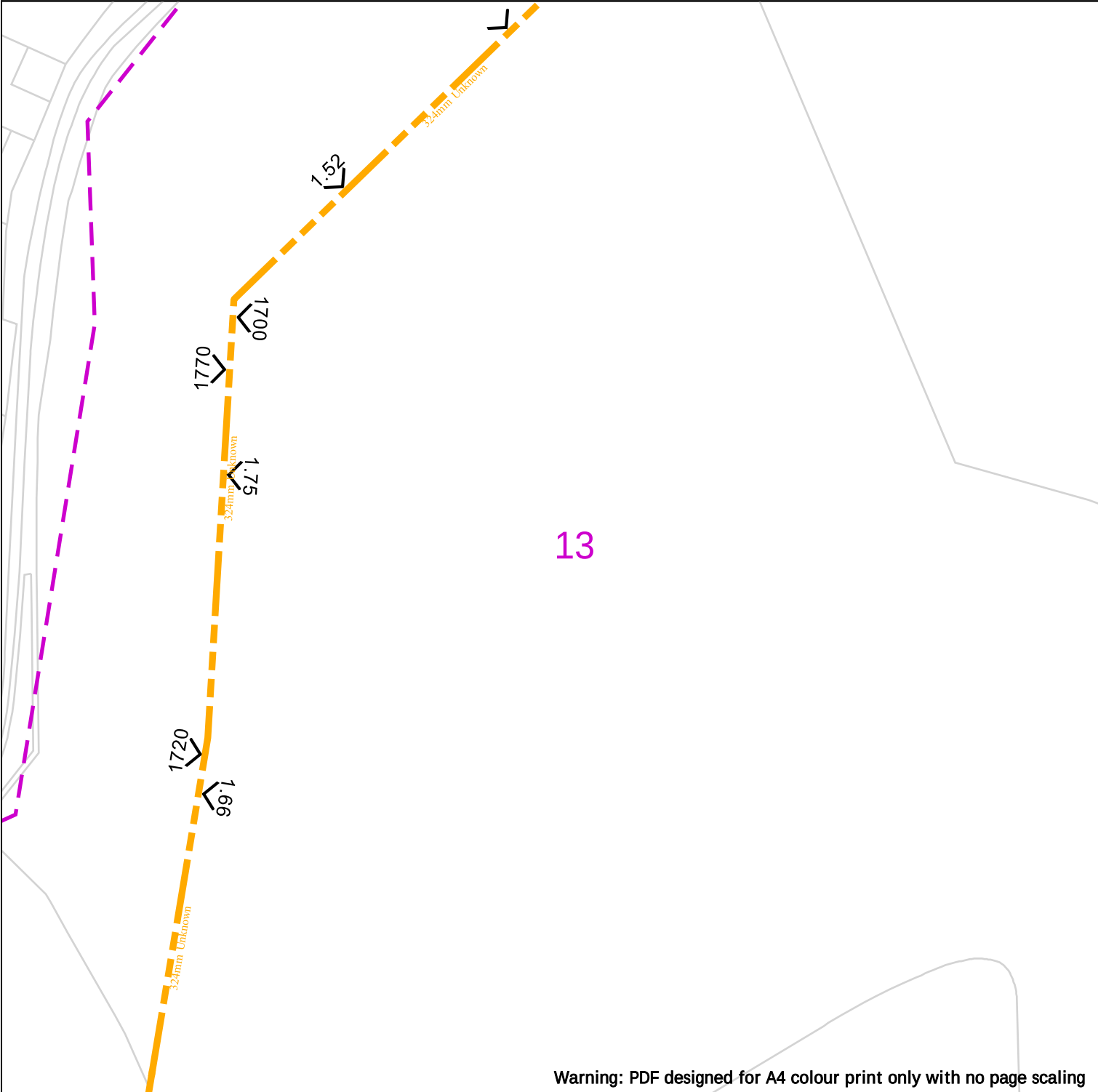
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View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

In case of emergency call - 0800 111 999



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Dig Sites

Area:

Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve
Depth of cover
Syphon



Diameter Change
Material Change
Out of Standard Service

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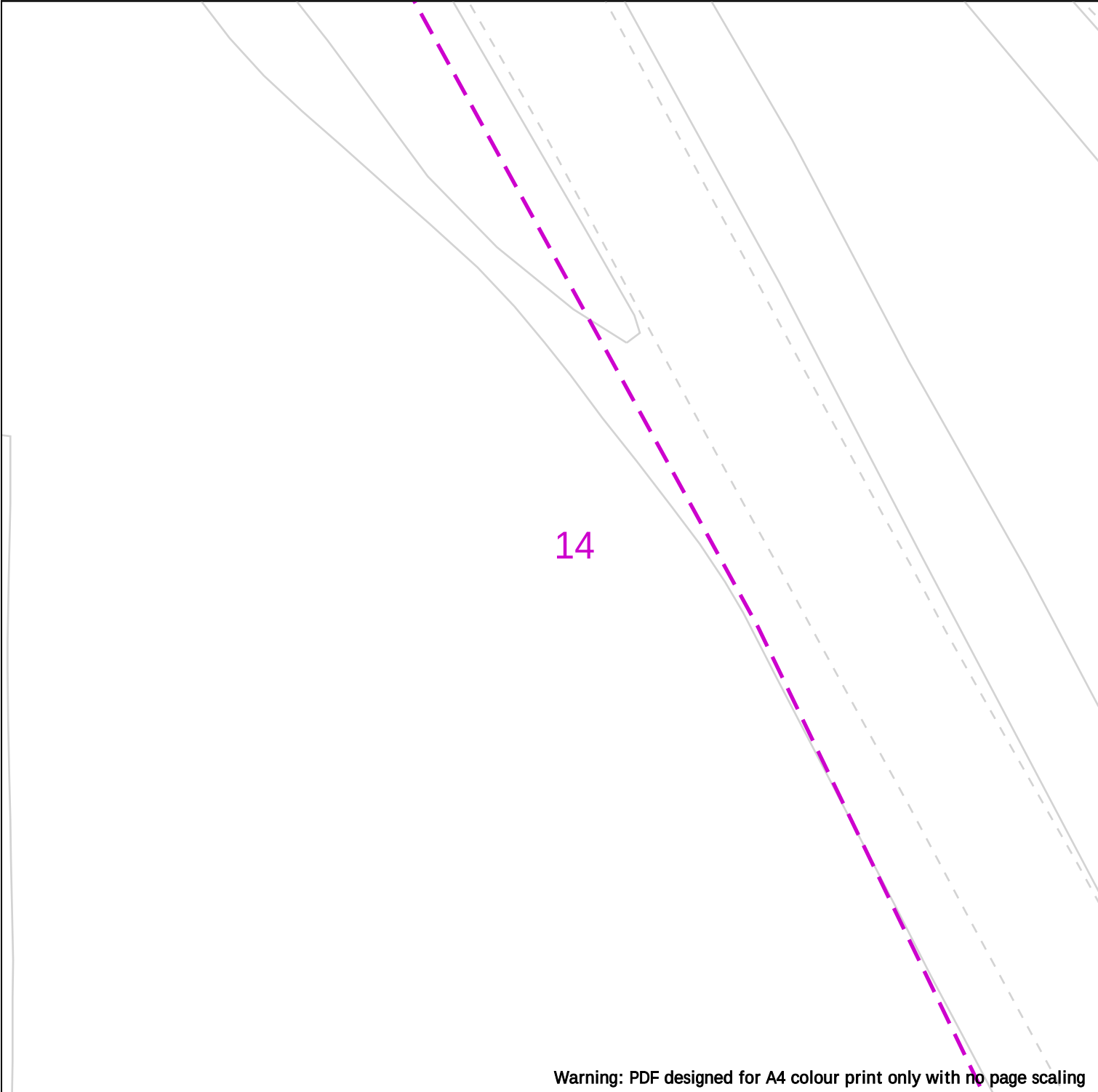
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Dig Sites	Area:	Line:	
	LP Mains		
	MP Mains		
	IP Mains		
	LHP Mains		

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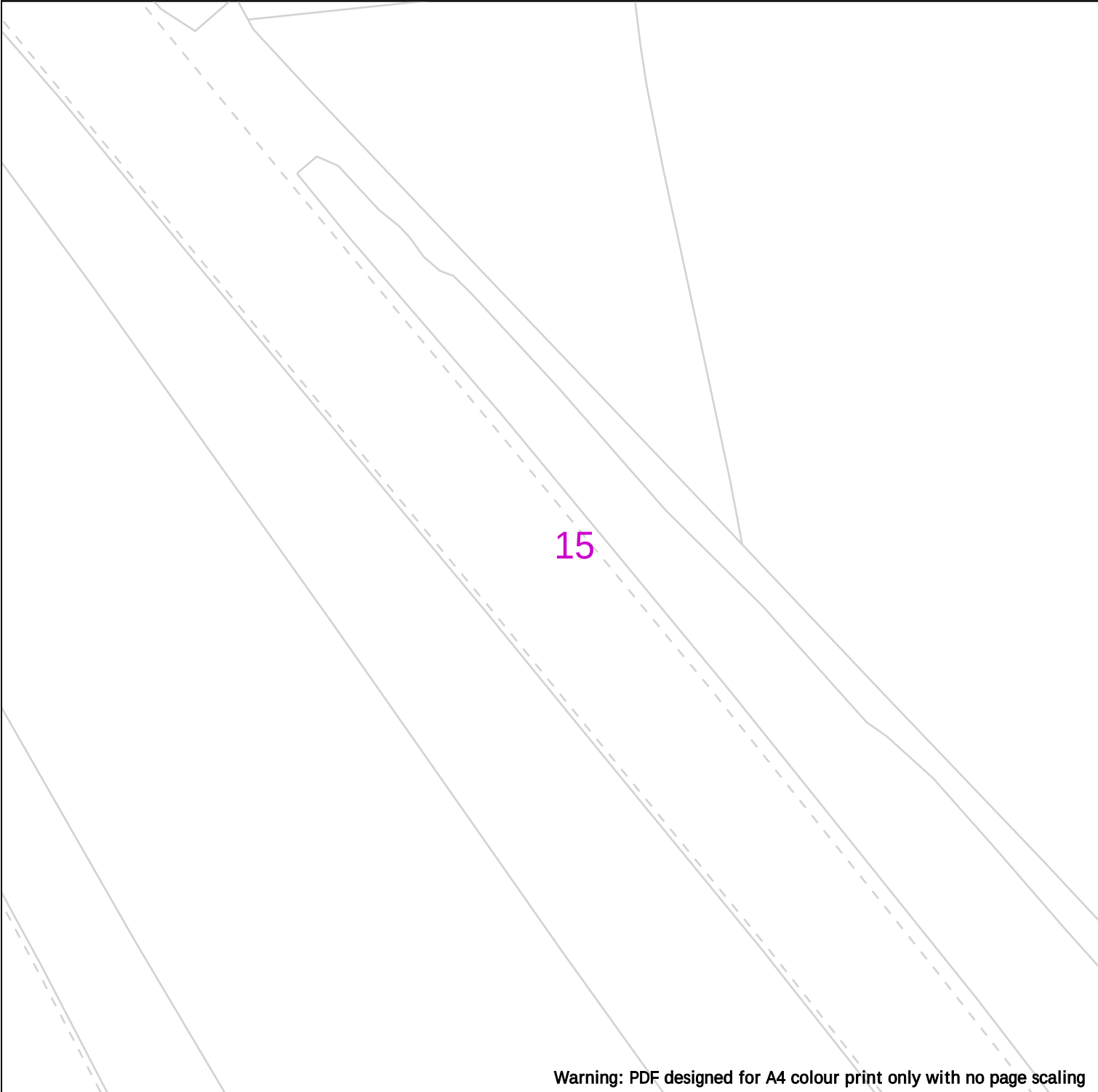
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Dig Sites	Area:	Line:
	LP Mains	Valve
	MP Mains	Diameter Change
	IP Mains	Depth of cover
	LHP Mains	Material Change
	Syphon	Out of Standard Service

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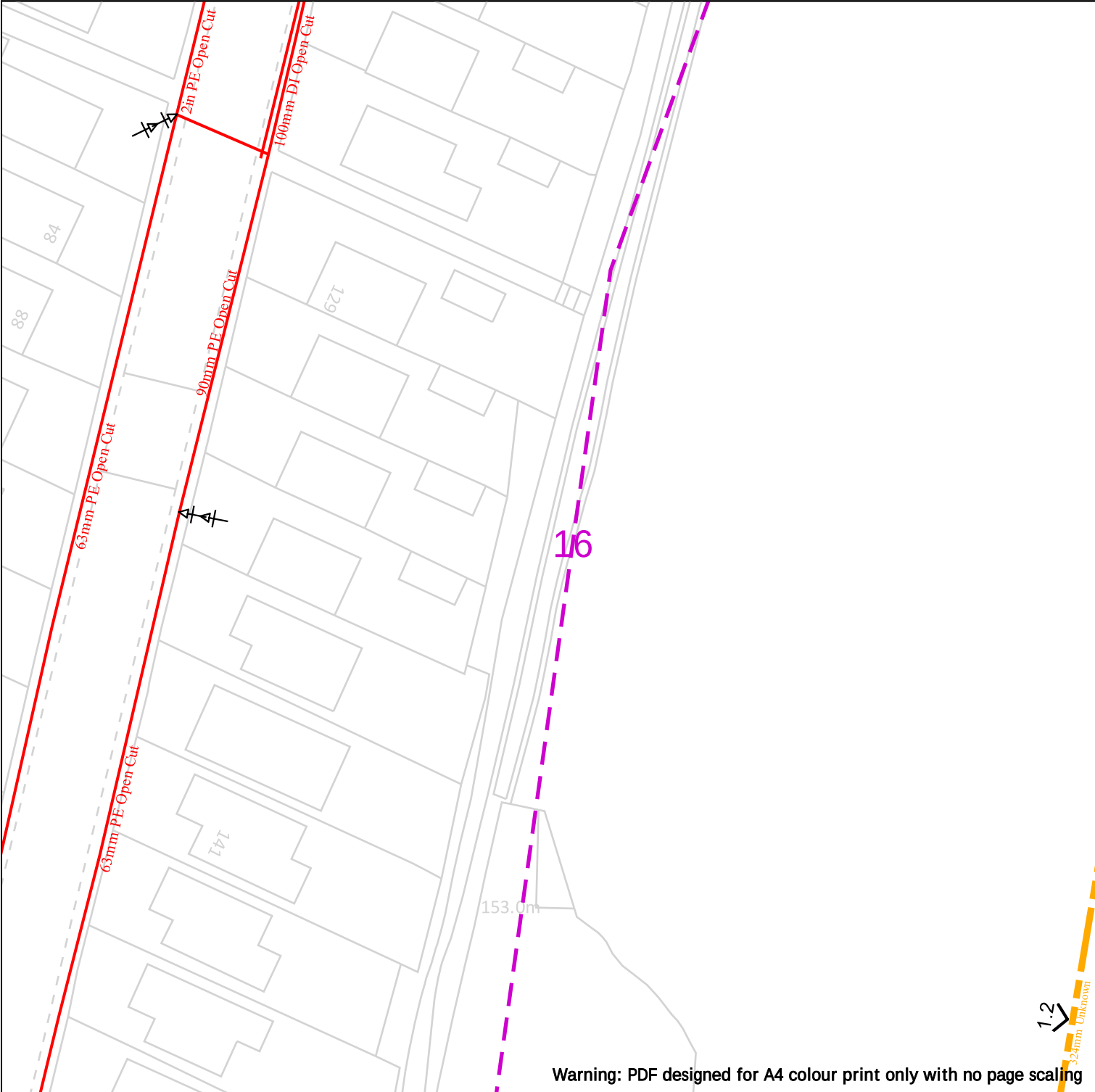
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Dig Sites	Area:
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	MP Mains
	IP Mains
	LHP Mains
	Valve
	Depth of cover
	Syphon
	Diameter Change
	Material Change
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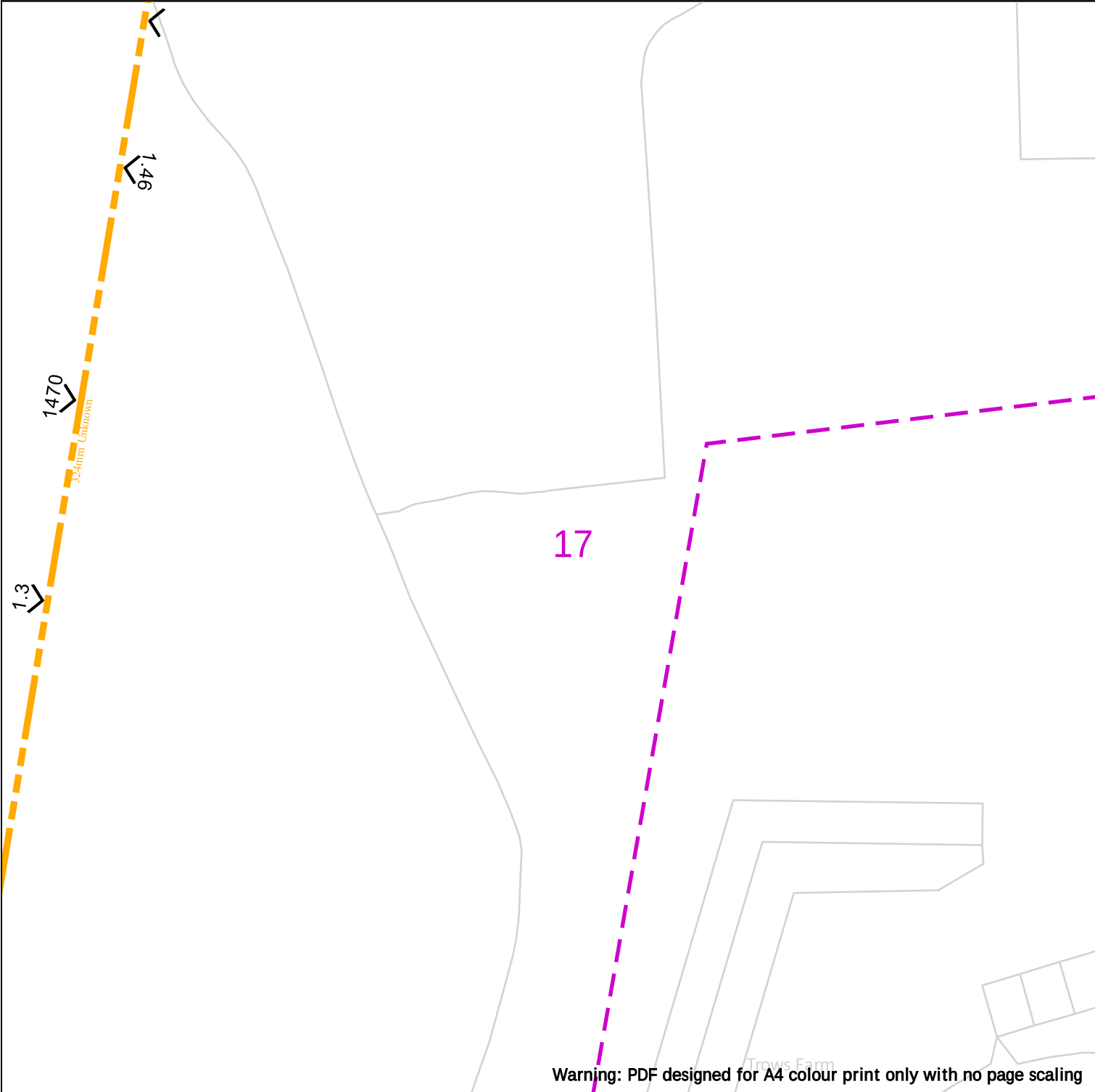
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Dig Sites

Area:

Line:

LP Mains

MP Mains

IP Mains

LHP Mains

Valve

Depth of cover

Syphon

Diameter Change

Material Change

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Dig Sites	Area:	Line:
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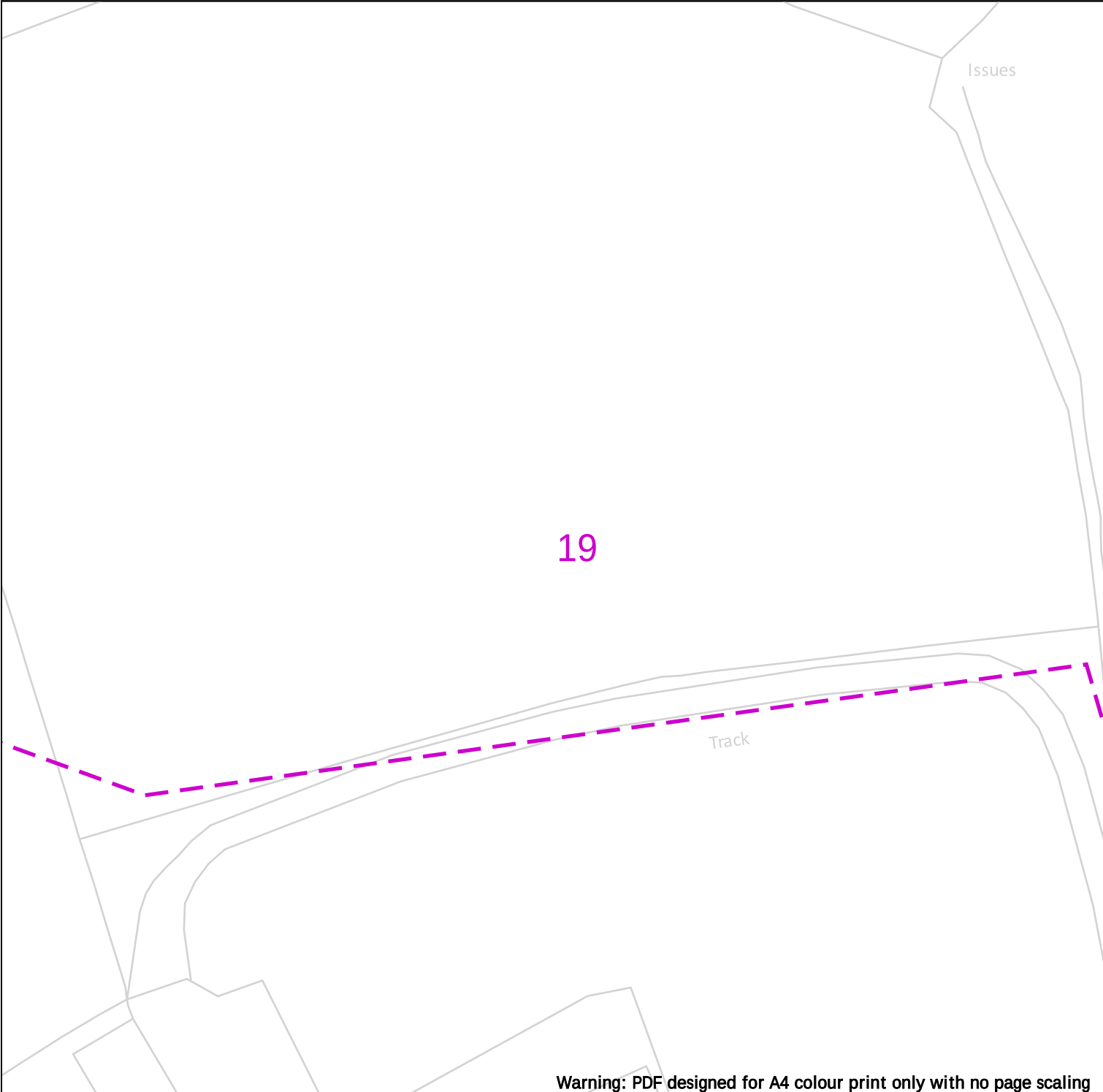
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Dig Sites

Area:

Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



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Dig Sites

Area:

Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve
Depth of cover
Syphon



Diameter Change



Material Change



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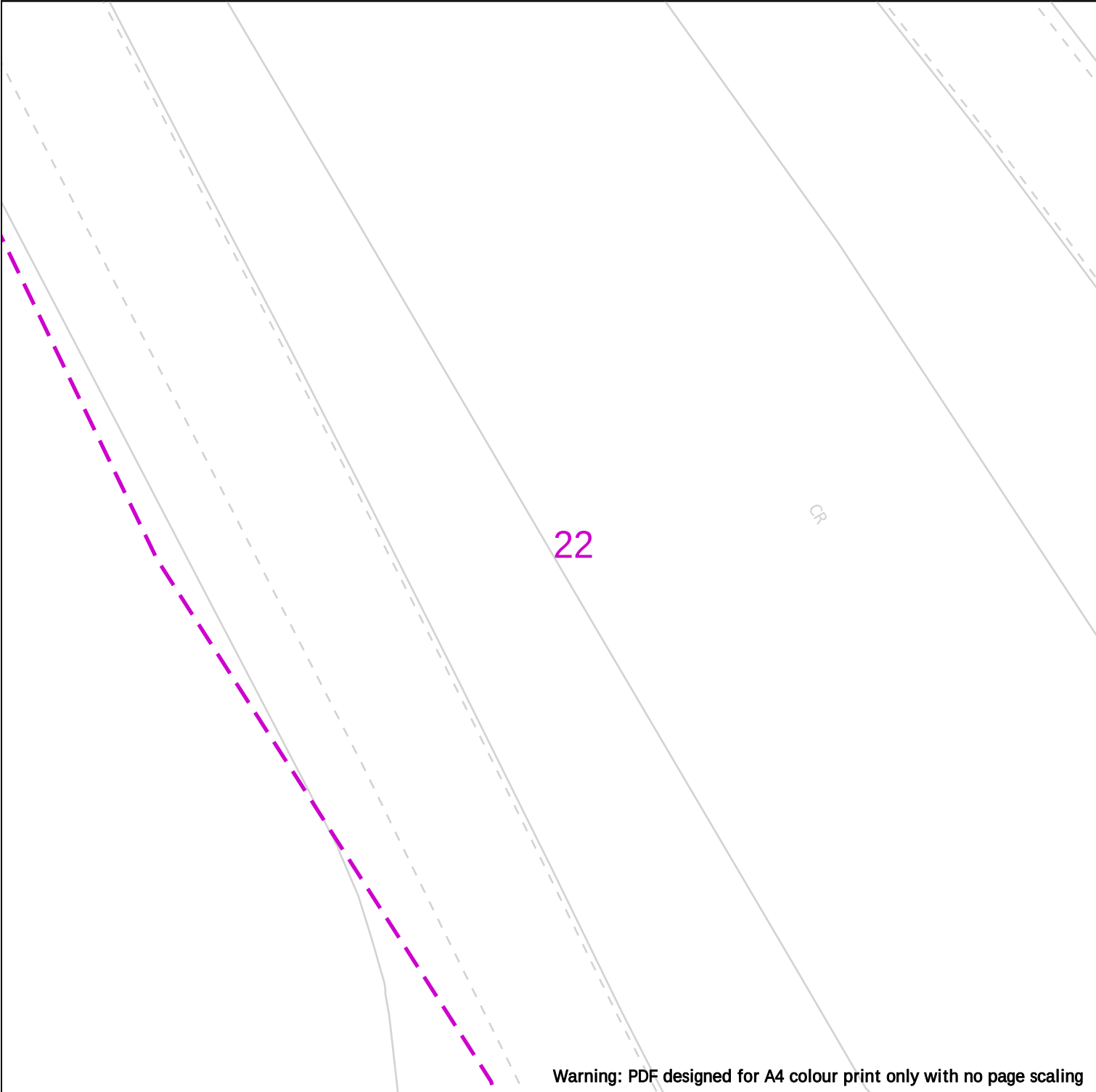
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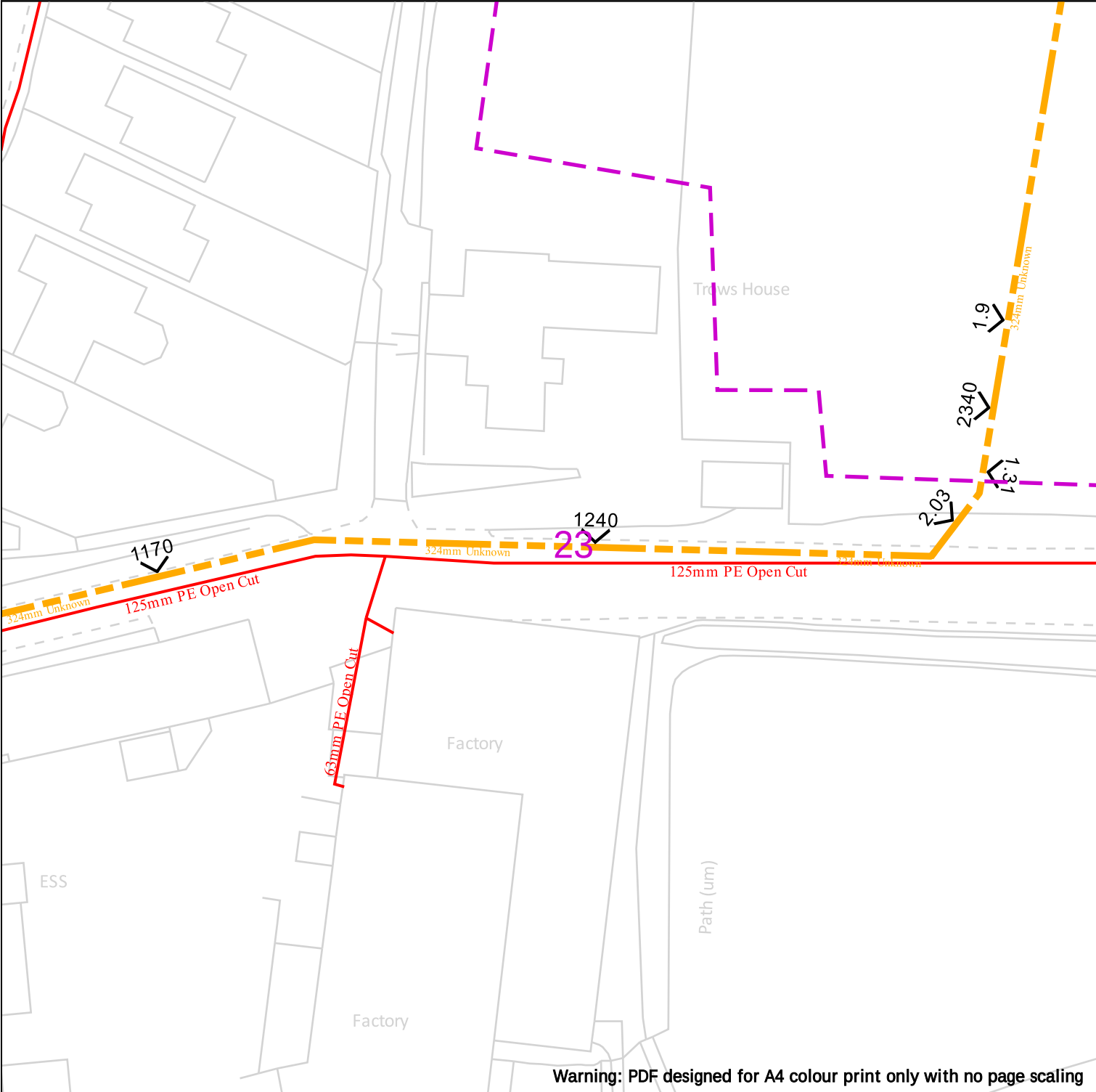
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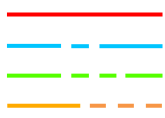
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Dig Sites

Area:

Line:



LP Mains
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Valve

Depth of cover

Syphon



Diameter Change



Material Change



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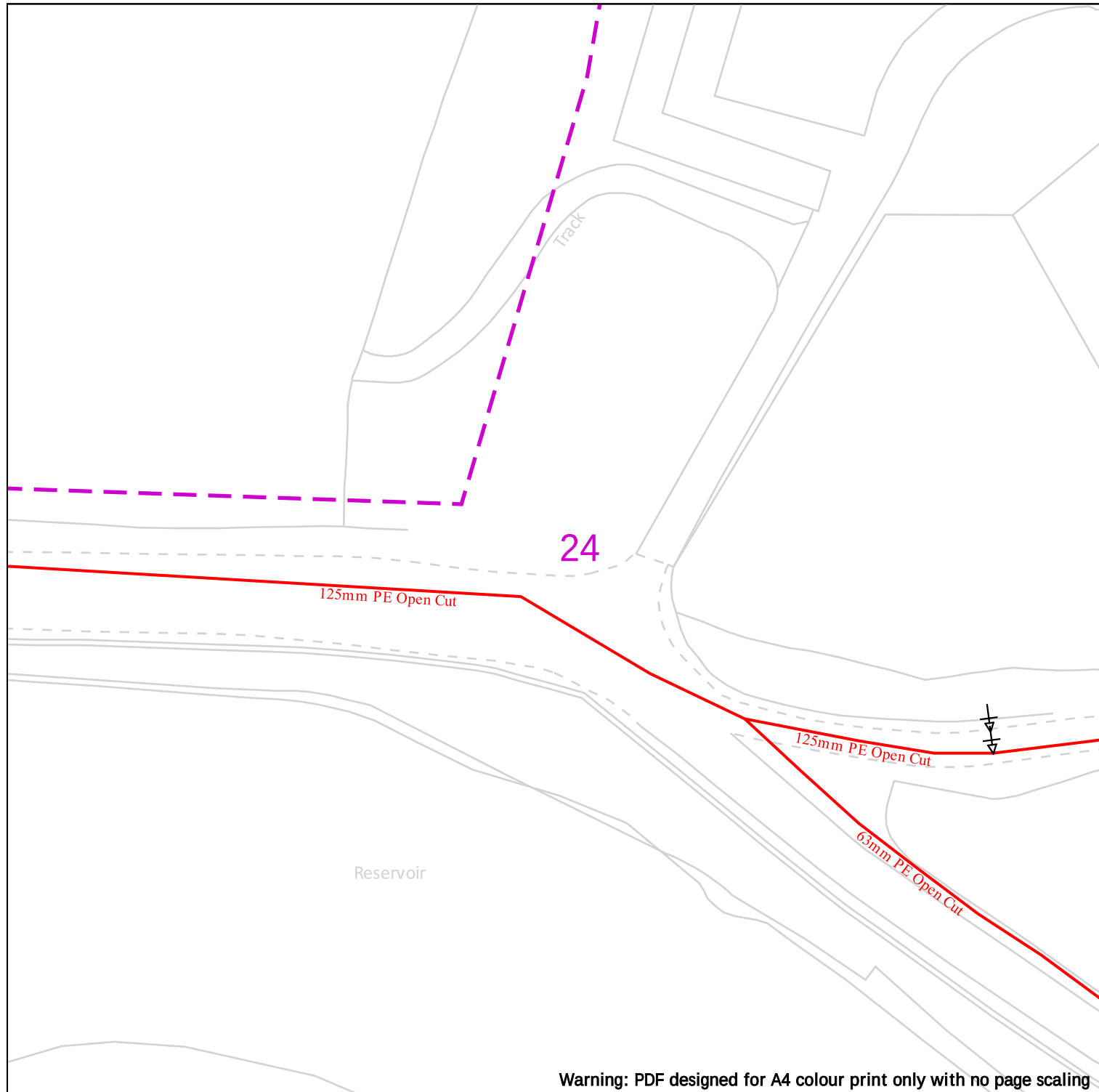
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Cadent
Your Gas Network

25m

Dig Sites

Area:

Line:



LP Mains

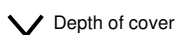
MP Mains

IP Mains

LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



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IMPORTANT NOTICES

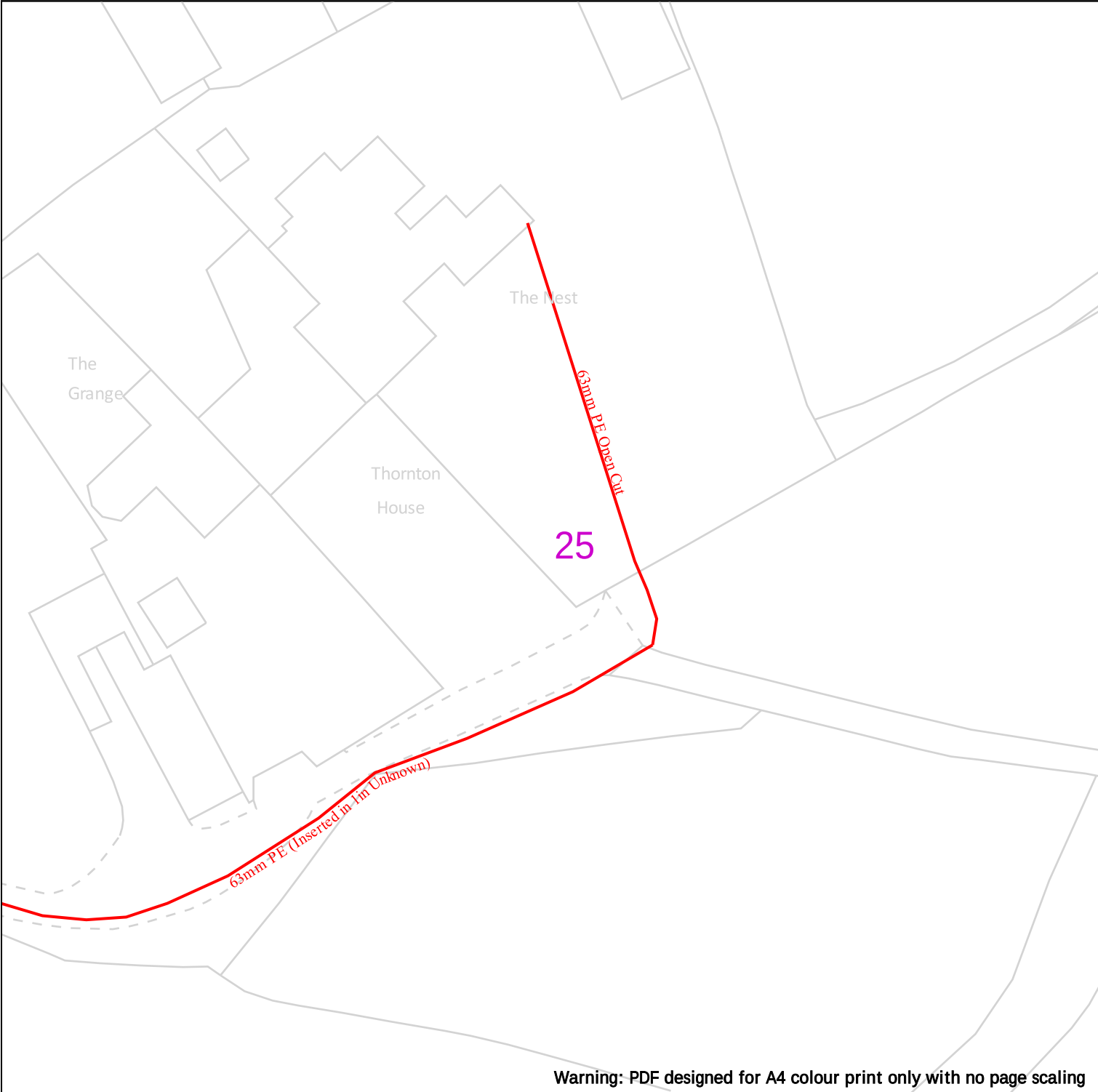
This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

View extent: 100m, 100m

In case of emergency call - 0800 111 999

Scale: 1:500 (When plotted at A4)

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WARNING! This area contains Gas Mains Operating at High Pressure (in excess of 7 bar) and/or Intermediate Pressure (between 2 and 7 bar). Before excavating in the area contact the Plant Protection team on 0800 688 588 or plantprotection@cadentgas.com

 25m



Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

Dig Sites	Area:		Line:	
	LP Mains			
	MP Mains		Valve	 Diameter Change
	IP Mains		Depth of cover	 Material Change
	LHP Mains		Syphon	 Out of Standard Service

Where an out-of-standard service is present please contact plant protection 0800 688 588 for further information.

Out-of-standard service symbology may be used to indicate one or more of the following:

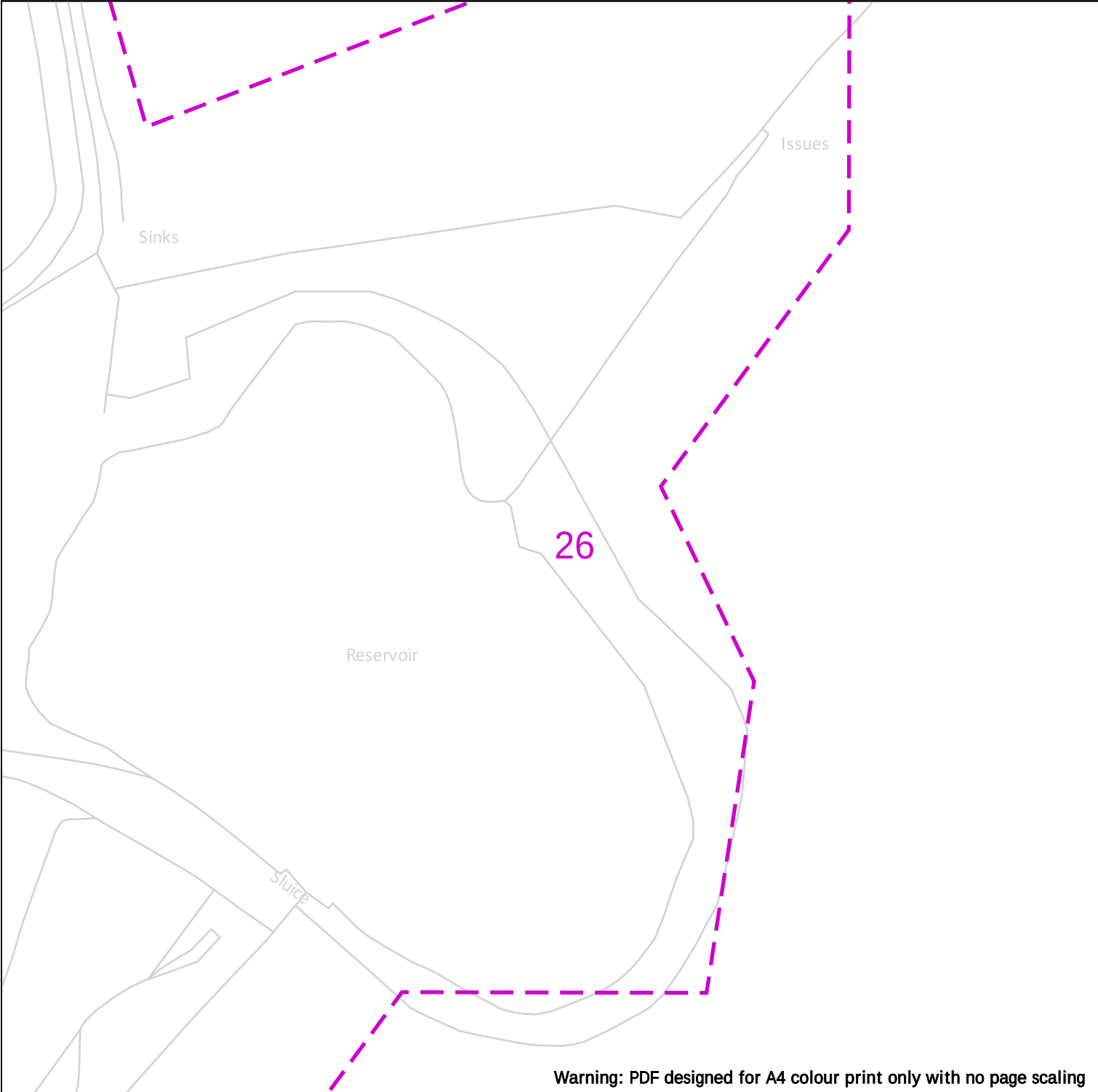
- Identification of shallow services
- Identification of dual services
- Recording of non-perpendicular services

A perpendicular service/connection is laid in a straight line from the entry point at the property to the connection at the main – this includes a pipe that has a perpendicular connection and is not straight but does not deviate more than 1m off centre line.

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Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)



Dig Sites	Area:	Line:
	LP Mains	Valve
	MP Mains	Depth of cover
	IP Mains	Syphon
	LHP Mains	Diameter Change
		Material Change
		Out of Standard Service

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Dig Sites	Area:	Line:	
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View extent: 100m, 100m

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Dig Sites	Area:	Line:
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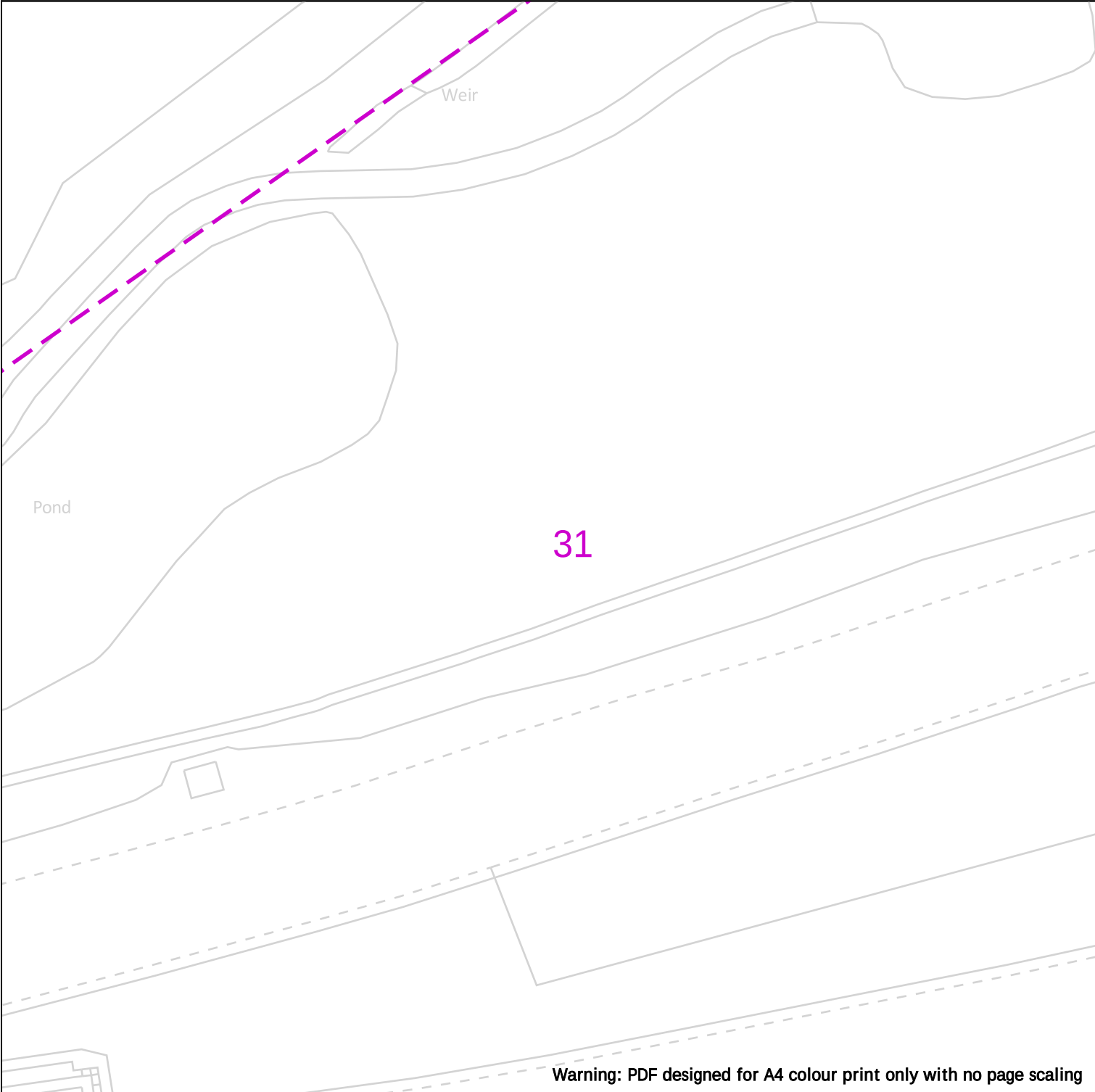


Cadent
Your Gas Network

View extent: 100m, 100m

A perpendicular service connection is said to be a straight line from the entry point at the property to the connection at the main – this includes a pipe that has a perpendicular connection and is not straight but does not deviate more than 1m off centre line.

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Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)



Dig Sites	Area:	Line:	
	LP Mains		 Diameter Change
	MP Mains		 Material Change
	IP Mains		 Out of Standard Service
	LHP Mains		

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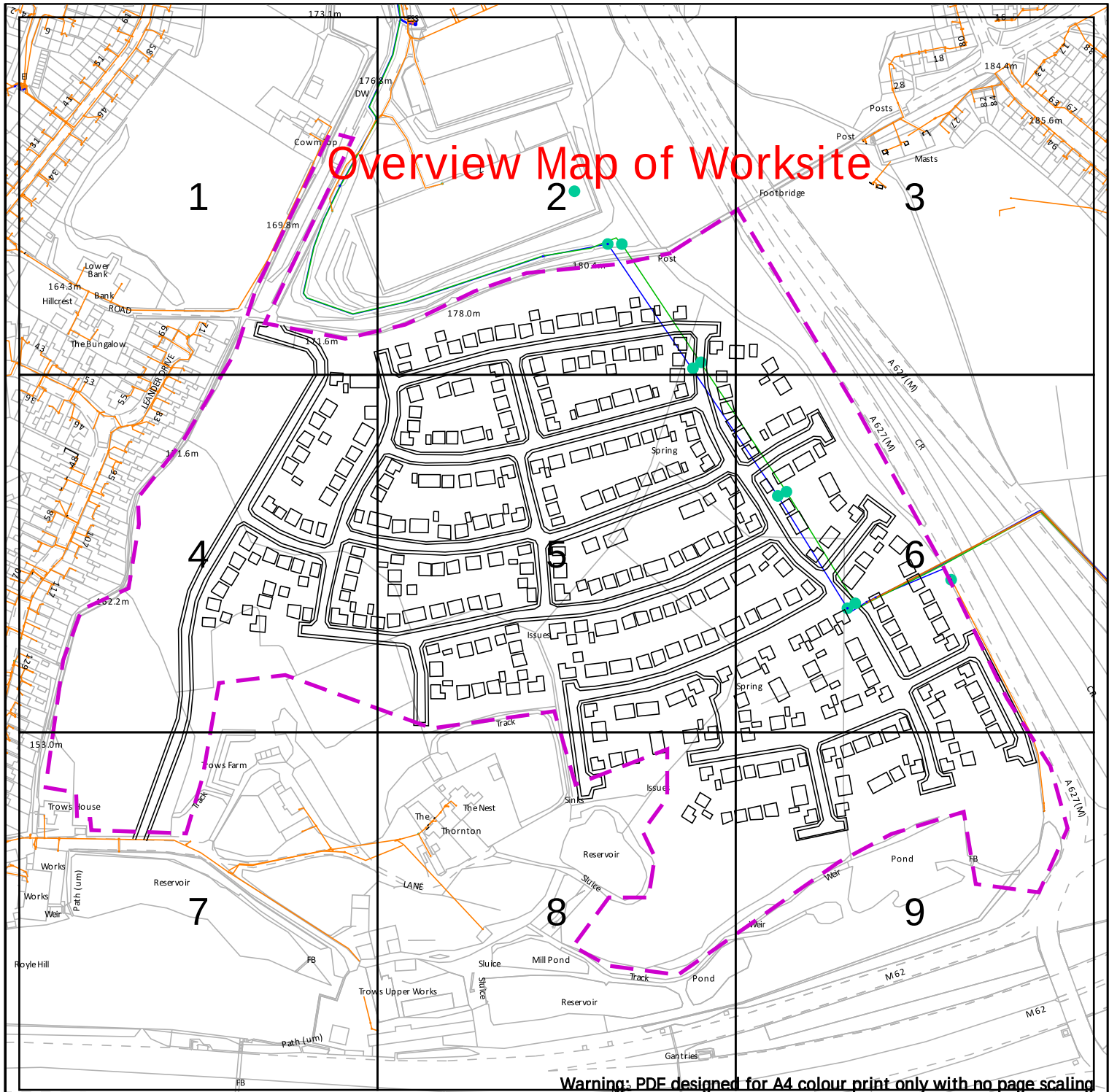
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In case of emergency call - 0800 111 999

Overview Map of Worksite



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Electricity North West
Borron Street
Portwood, Stockport
Cheshire, SK1 2 JD
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk

Operating Voltage

132kV
33kV
22kV-25kV
11kV
6kV-6.6kV
1kV-6kV
LV

Unknown Voltage

Colour Code

Black
Green
Yellow
Red
Blue
Violet
Orange
Brown

Line Colour



In an emergency call 105,
24 hours a day

Dig Sites

Line: ---

Area: []

Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

Scale: 1:3844 (When plotted at A4)

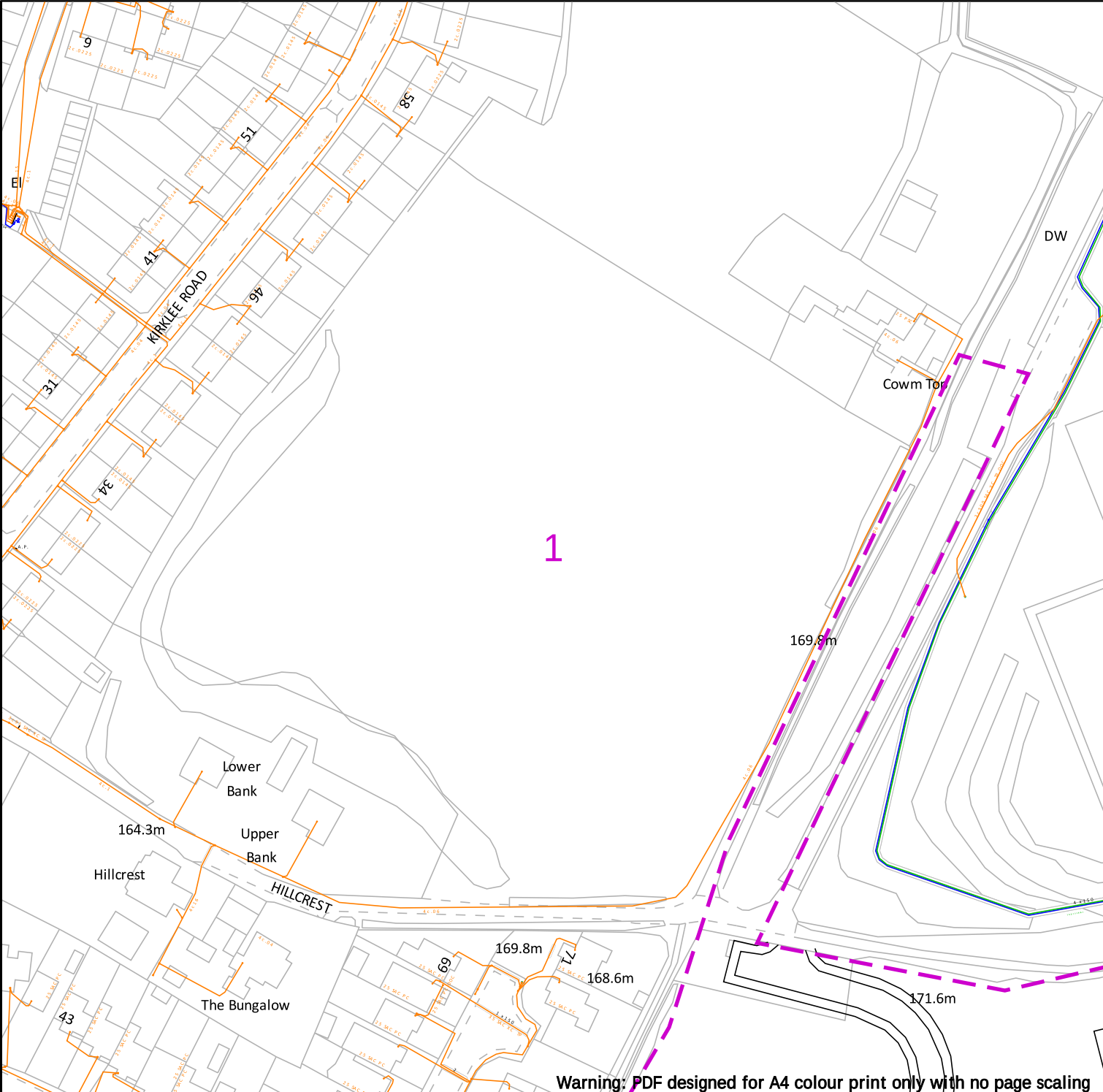
IMPORTANT INFO

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Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoiding Danger from Overhead Power Lines".

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 Bringing energy to your door Electricity North West Borron Street Portwood, Stockport Cheshire, SK1 2 JD Phone: 0800 195 4141 Email: planrequest@enwl.co.uk Date Requested: 01/07/2024 Job Reference: 33912718 Site Location: 389199 410199 Requested by: Miss Lauren Wenham Your Scheme/Reference: STV5936 Scale: 1:1250 (When plotted at A4)	Operating Voltage 132kV 33kV 22kV-25kV 11kV 6kV-6.6kV 1kV-6kV LV Unknown Voltage Colour Code Black Green Yellow Red Blue Violet Orange Brown Line Colour        	In an emergency call 105, 24 hours a day Dig Sites Line:  Area:  IMPORTANT INFO Unless otherwise indicated the depth of Electricity North West Limited cables are in accordance with NJUG (450mm for Low Voltage & 600mm for 11kV cables) 33kV and 132kV cables are laid at depths as marked. The depth and positions of Electricity North West Limited equipment was accurate as shown when the equipment was installed. However third parties may have altered the level & other reference data. Therefore Electricity North West Limited accept no responsibility for the position of Electricity North West Limited equipment being different from shown. No person, body or company, shall be relieved from liability for damage caused to Electricity North West Limited equipment by reason of being located differently to the indications on this drawing or from any regulatory loss of income or incentive, or expense, which may be suffered by Electricity North West Limited and which is caused or contributed to by any loss of supply as a result of any damage caused to Electricity North West Limited's equipment. Service cables are not necessarily shown but must be assumed to exist to all premises, streetlights and signs. There may be other Electricity North West Limited apparatus in the vicinity which is not indicated on the cable records. Other apparatus may also be present which is owned by a third party other than Electricity North West Limited. Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoiding Danger from Overhead Power Lines". Electricity North West Limited, Borron Street, Portwood, Stockport, Cheshire, SK1 2JD Registered in England and Wales. Registered No 02366949 Reproduced from or based upon Ordnance Survey's map with the permission of His Majesty's Stationary Office. Crown Copyright Reserved. LICENCE No. 100017892. Unauthorised reproduction may lead to Prosecution or Civil Proceedings.
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Dig Sites

Line:

Area: 

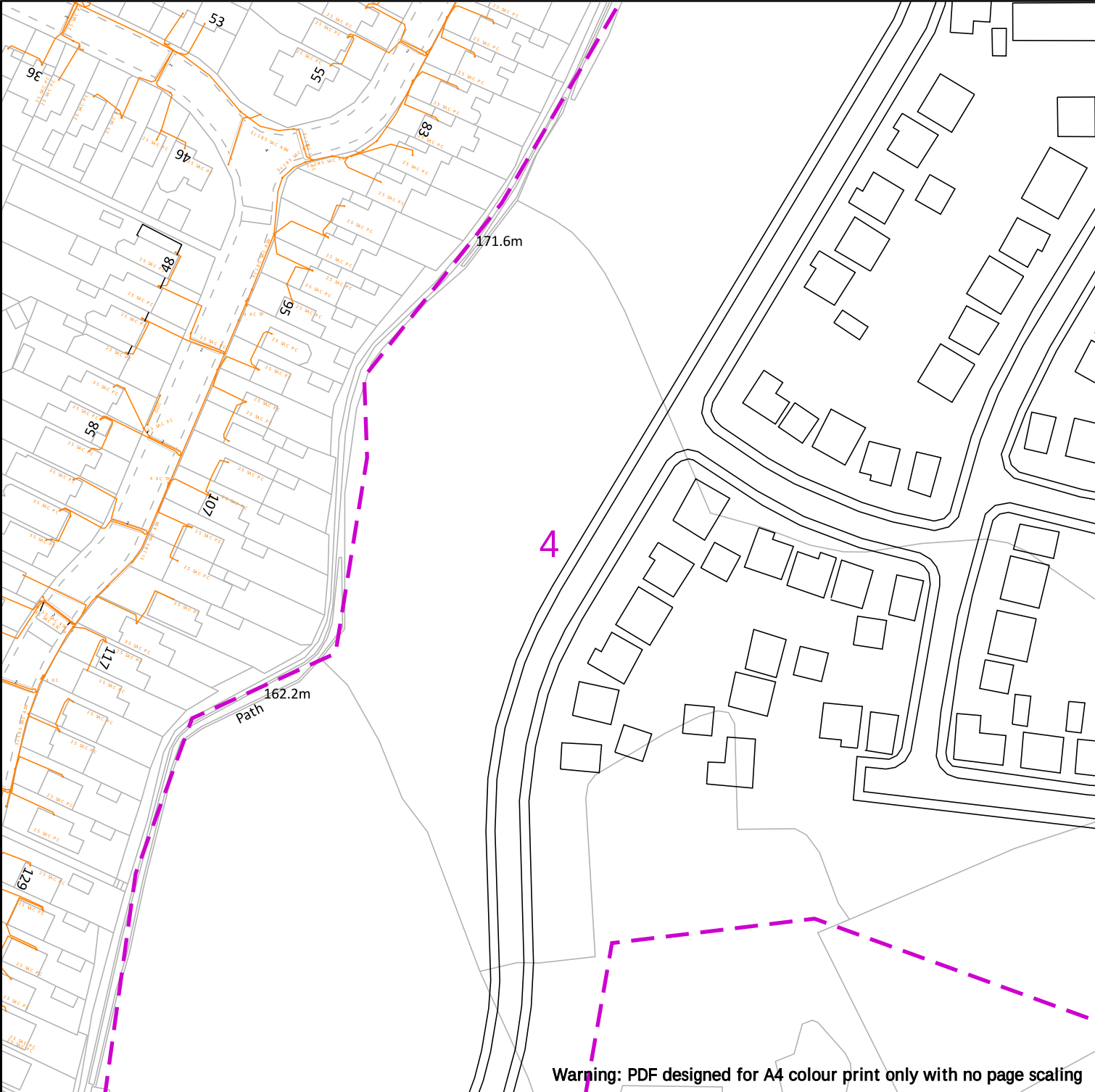
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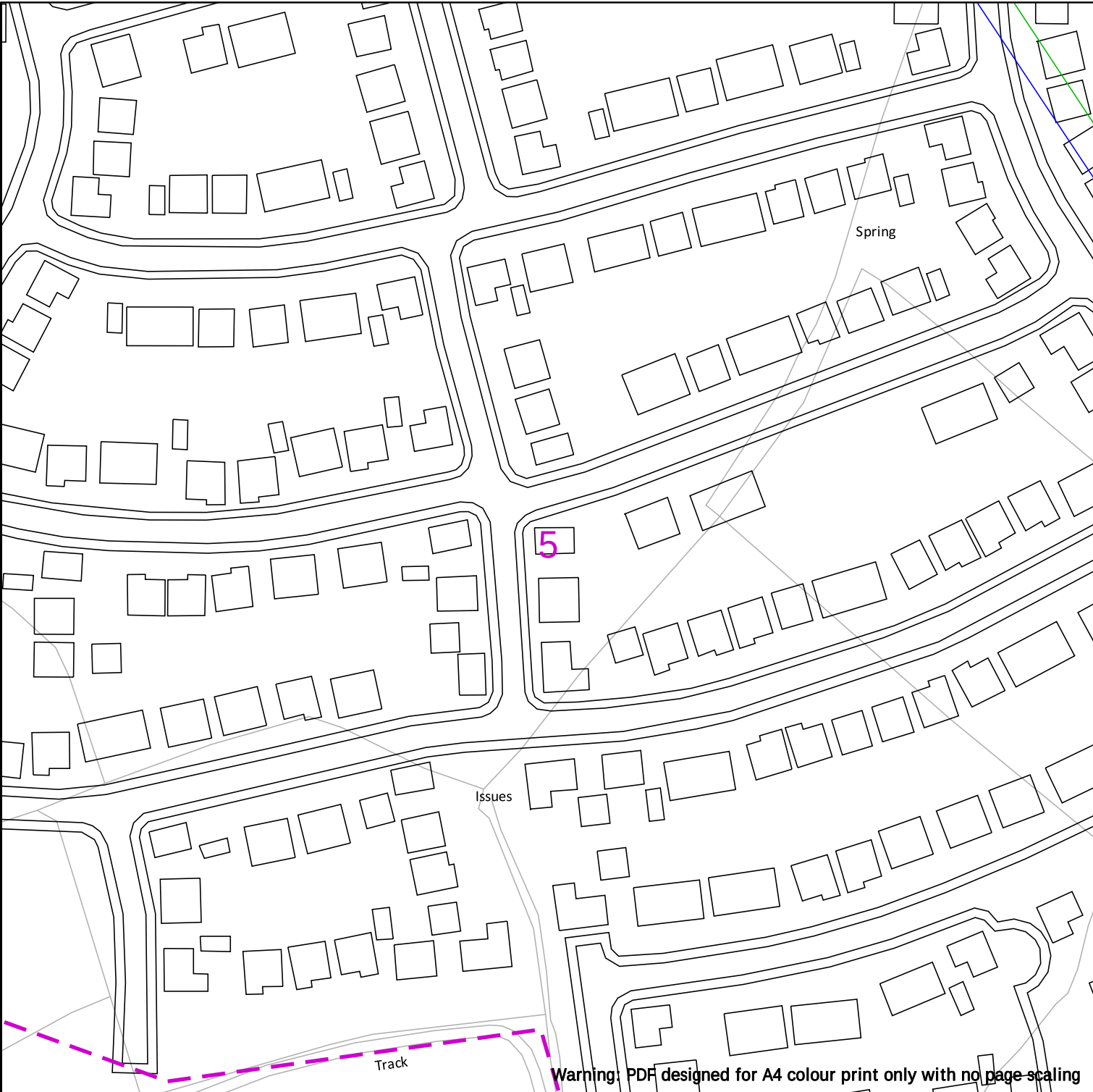
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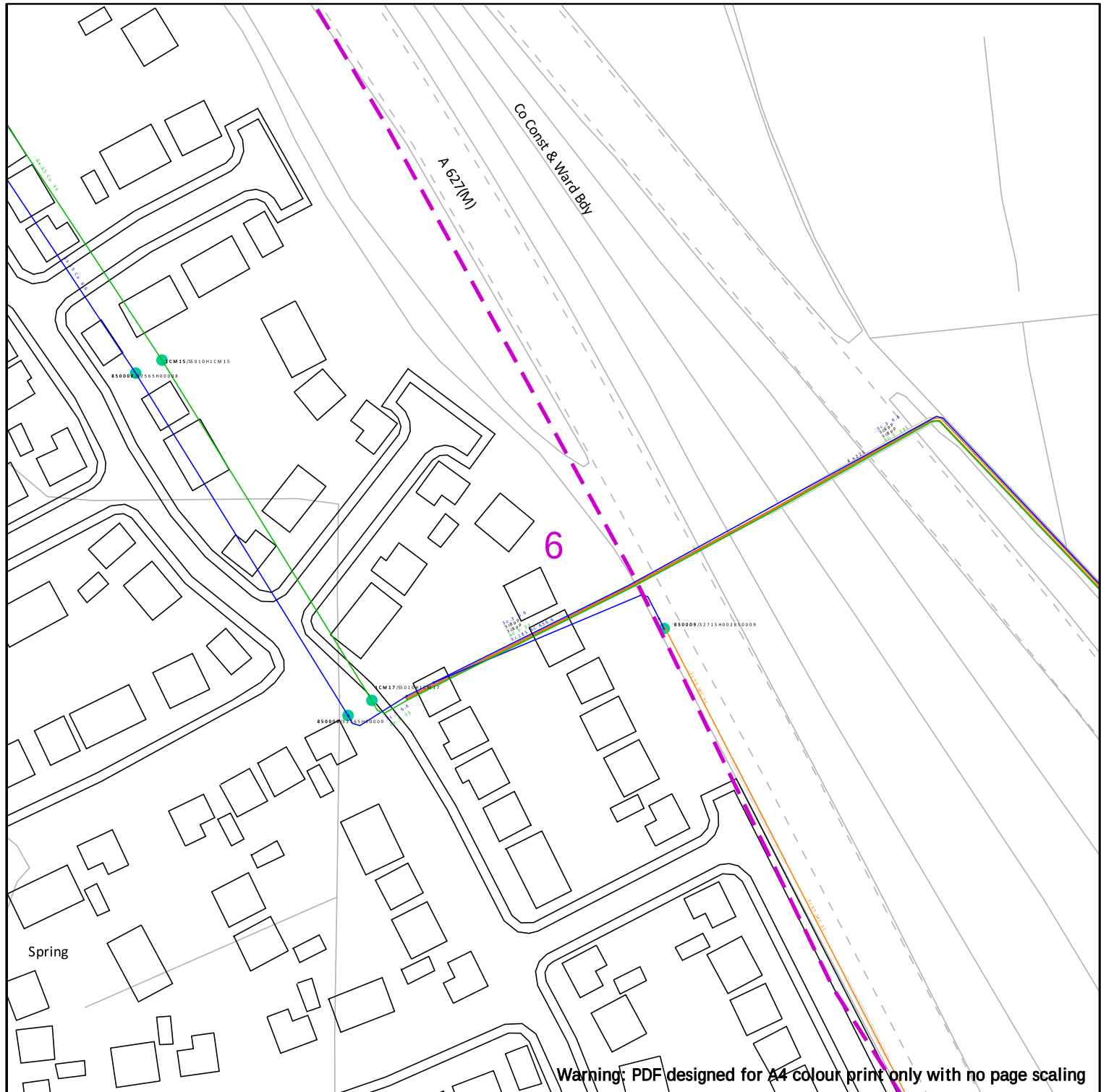


 Bringing energy to your door Electricity North West Borron Street Portwood, Stockport Cheshire, SK1 2 JD Phone: 0800 195 4141 Email: planrequest@enwl.co.uk	<table><tr><th>Operating Voltage</th><th>Colour Code</th><th>Line Colour</th></tr><tr><td>132kV</td><td>Black</td><td></td></tr><tr><td>33kV</td><td>Green</td><td></td></tr><tr><td>22kV-25kV</td><td>Yellow</td><td></td></tr><tr><td>11kV</td><td>Red</td><td></td></tr><tr><td>6kV-6.6kV</td><td>Blue</td><td></td></tr><tr><td>1kV-6kV</td><td>Violet</td><td></td></tr><tr><td>LV</td><td>Orange</td><td></td></tr><tr><td>Unknown Voltage</td><td>Brown</td><td></td></tr></table>	Operating Voltage	Colour Code	Line Colour	132kV	Black		33kV	Green		22kV-25kV	Yellow		11kV	Red		6kV-6.6kV	Blue		1kV-6kV	Violet		LV	Orange		Unknown Voltage	Brown		In an emergency call 105, 24 hours a day Dig Sites Line:  Area: 
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 Bringing energy to your door Electricity North West Borron Street Portwood, Stockport Cheshire, SK1 2 JD Phone: 0800 195 4141 Email: planrequest@enwl.co.uk Date Requested: 01/07/2024 Job Reference: 33912718 Site Location: 389199 410199 Requested by: Miss Lauren Wenham Your Scheme/Reference: STV5936 Scale: 1:1250 (When plotted at A4)	Operating Voltage 132kV 33kV 22kV-25kV 11kV 6kV-6.6kV 1kV-6kV LV Unknown Voltage	Colour Code Black Green Yellow Red Blue Violet Orange Brown	Line Colour        	In an emergency call 105, 24 hours a day	Dig Sites Line:  Area: 
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Borron Street
Portwood, Stockport
Cheshire, SK1 2 JD
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk

Date Requested: 01/07/2024
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Site Location: 389199 410199
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Scale: 1:1250 (When plotted at A4)

Operating Voltage

132kV

33kV

22kV-25kV

11kV

6kV-6.6kV

1kV-6kV

LV

Unknown Voltage

Colour Code

Black

Green

Yellow

Red

Blue

Violet

Orange

Brown

Line Colour



In an emergency call 105,
24 hours a day

Dig Sites

Line:

Area:

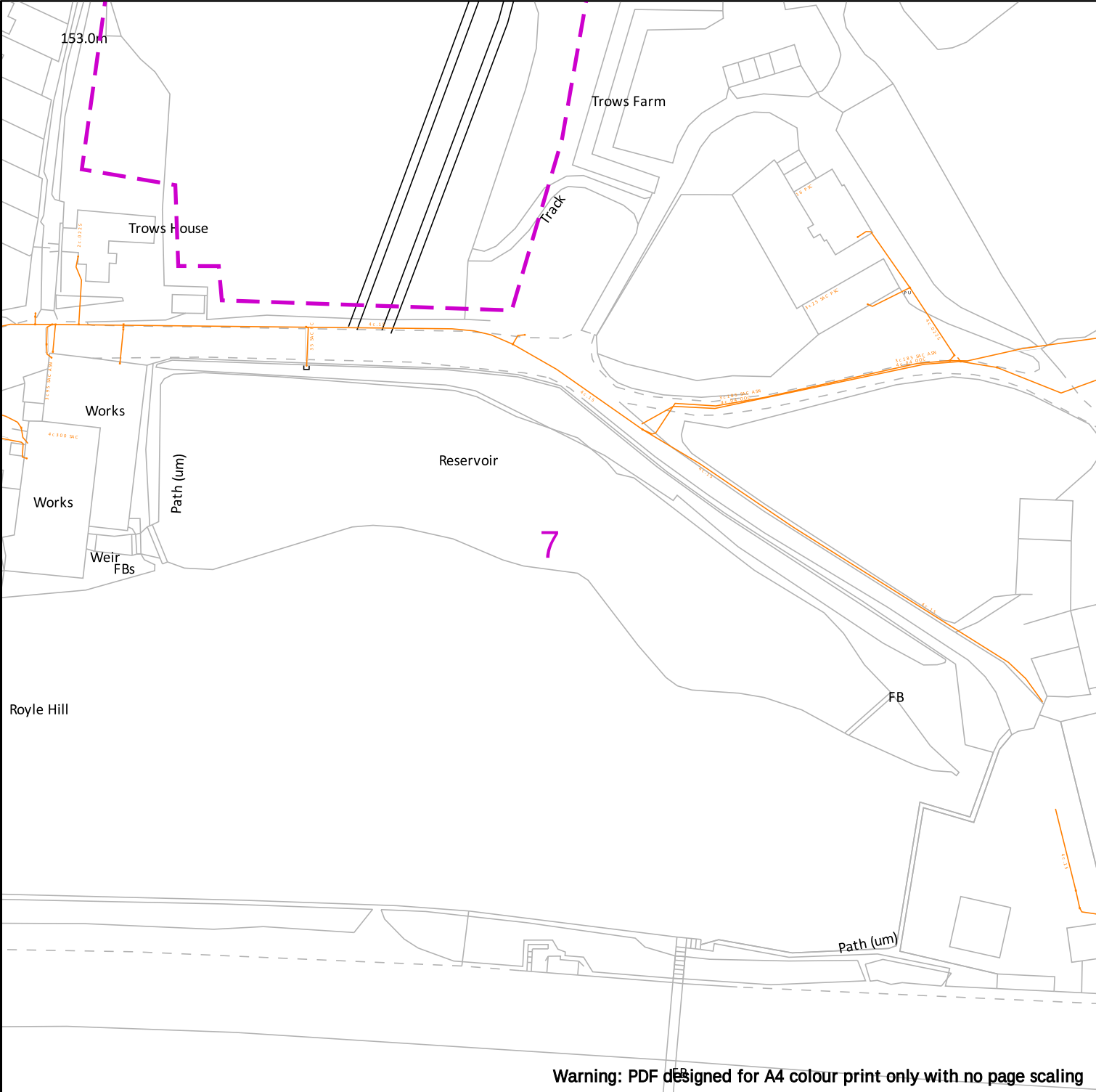
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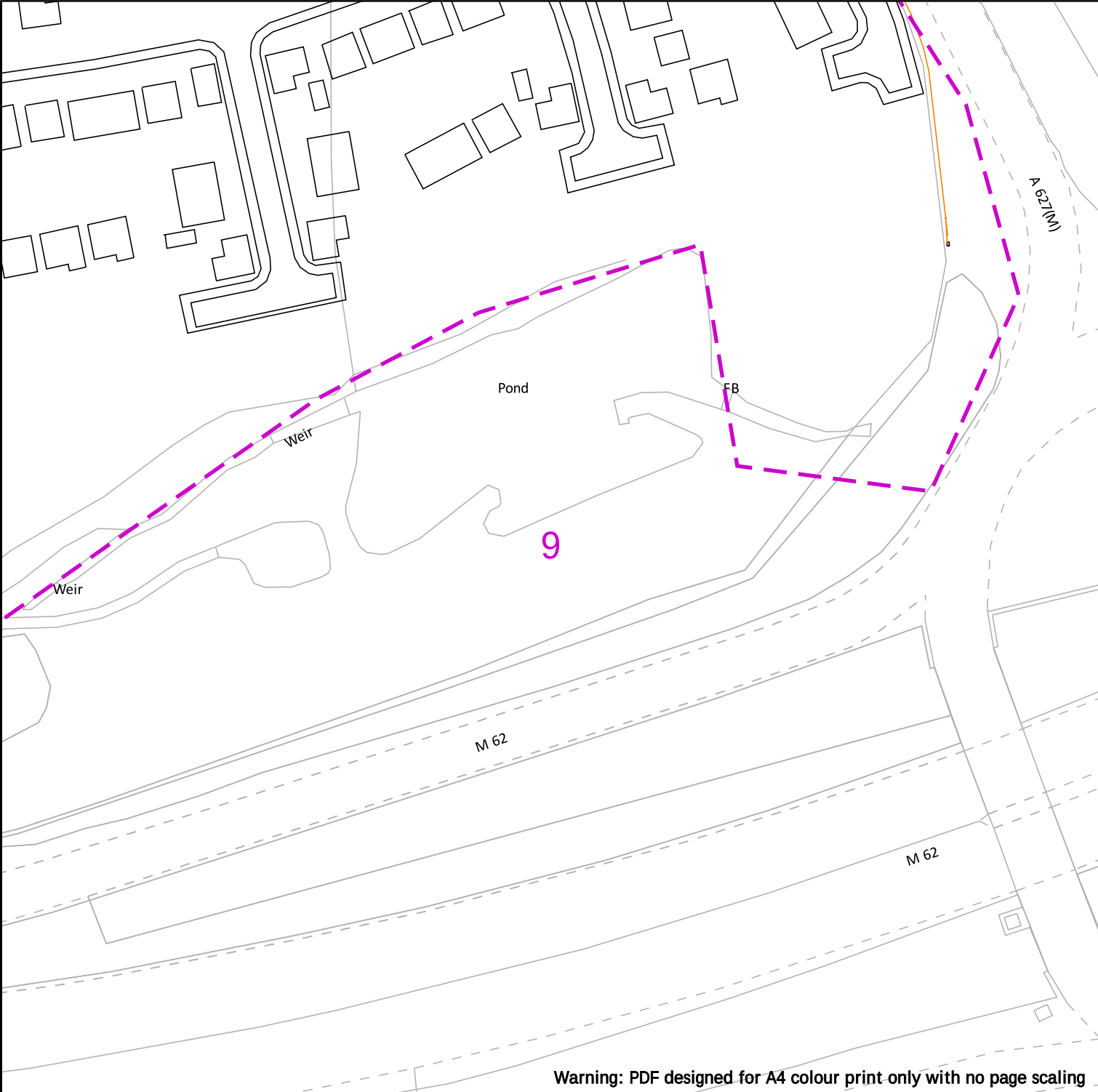
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electricity north west Bringing energy to your door Electricity North West Borron Street Portwood, Stockport Cheshire, SK1 2 JD Phone: 0800 195 4141 Email: planrequest@enwl.co.uk Date Requested: 01/07/2024 Job Reference: 33912718 Site Location: 389199 410199 Requested by: Miss Lauren Wenham Your Scheme/Reference: STV5936 Scale: 1:1250 (When plotted at A4)	Operating Voltage 132kV 33kV 22kV-25kV 11kV 6kV-6.6kV 1kV-6kV LV Unknown Voltage Colour Code Black Green Yellow Red Blue Violet Orange Brown Line Colour In an emergency call 105, 24 hours a day Dig Sites Line: Area:				
	IMPORTANT INFO Unless otherwise indicated the depth of Electricity North West Limited cables are in accordance with NJUG (450mm for Low Voltage & 600mm for 11kV cables) 33kV and 132kV cables are laid at depths as marked. The depth and positions of Electricity North West Limited equipment was accurate as shown when the equipment was installed. However third parties may have altered the level & other reference data. Therefore Electricity North West Limited accept no responsibility for the position of Electricity North West Limited equipment being different from shown. No person, body or company, shall be relieved from liability for damage caused to Electricity North West Limited equipment by reason of being located differently to the indications on this drawing or from any regulatory loss of income or incentive, or expense, which may be suffered by Electricity North West Limited and which is caused or contributed to by any loss of supply as a result of any damage caused to Electricity North West Limited's equipment. Service cables are not necessarily shown but must be assumed to exist to all premises, streetlights and signs. There may be other Electricity North West Limited apparatus in the vicinity which is not indicated on the cable records. Other apparatus may also be present which is owned by a third party other than Electricity North West Limited. Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoiding Danger from Overhead Power Lines". Electricity North West Limited, Borron Street, Portwood, Stockport, Cheshire, SK1 2JD Registered in England and Wales. Registered No 02366949 Reproduced from or based upon Ordnance Survey's map with the permission of His Majesty's Stationary Office. Crown Copyright Reserved. LICENCE No. 100017892. Unauthorised reproduction may lead to Prosecution or Civil Proceedings.				



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Enquirer

Name	Miss Lauren Wenham	Phone	01604 781877
Company	Soiltechnics Ltd	Mobile	Not Supplied
Address	Cedar Barn White Lodge Walgrave NTH NN6 9PY		
Email	admin@soiltechnics.net		

Enquiry Details

Enquiry type	Planned Works
Work category	Development Projects
Work type	Piling
Work type buffer*	150 metres
Start date	02/07/2024
End date	02/07/2024
Scheme/Reference	STV5936
Search location	OL112PU
Confirmed location	-02 54
Site size	0 metres square
Site Contact Name	Admin Soiltechnics
Site Phone No.	01604781877
Description of Works	Boreholes

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map



Please note that the above map only displays the location of the proposed work site and will not display any of the Members' pipes and cables. It is imperative that this area accurately reflects the proposed work site.

Affected LSBUD members

(LSBUD Members who have assets registered on LSBUD within the vicinity of your search area.)

Do not proceed until all Members listed below have confirmed that your works can continue.

Asset Owner	Phone/Email	Emergency Only	Status
Cadent Gas	0800688588	0800111999	Await response
Electricity North West Limited	08001954141	08001954141	Await response
Fulcrum Pipelines Limited	03330146455	0800111999	Await response

Status explanation

Await Response means that the asset owner will contact you. This is typically by sending the plan response but they may ask for further information before being able to do so, particularly if any payments or authorisations are required.

Email Additional Info means that the asset owner needs further information about your works to assess your enquiry before providing a response. Please provide any details you have available including plans, method statements etc. if available.

Important notices

It is very important that you correctly understand what the service does and the procedures in order for you to work safely. Please refer to the LSBUD Support Page (www.lsbud.co.uk/lineasearchbeforeudig-support) for further guidance.

This information includes how to provide additional information to the LSBUD Members who request it to provide a response to your enquiry.

Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date and time of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LineasearchbeforeUdig (LSBUD) accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lsbud.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

List of not affected LSBUD members (LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area.)

Angus Energy	AWE Pipeline	B & D Energy Limited
Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)	Box Broadband
BP Exploration Operating Company Limited	BPA	Cambridge Water
Cambridgeshire County Council Climate Change and Energy Services	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	D.S.Smith	Diamond Transmission Corporation
DIO (MOD Live Pipelines)	Drax Power Limited	E.ON UK CHP Limited
EDF Energy Renewables Ltd	EirGrid	Eleclink Limited
Energy Assets Networks	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langage Limited	ESB CCGT Power station (Carrington Gas Pipeline)	ESP Utilities Group
ESSAR	Esso Petroleum Company Limited	euNetworks Fiber UK Ltd
EXA Infrastructure	Exolum Pipeline System	Fulcrum Electricity Assets Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Harbour Energy	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOBYN ChlorVinyls Limited	INOBYN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd	Kensa Utilities
Last Mile	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
MUA Group Limited	National Gas Transmission	National Grid Electricity Distribution
National Grid Electricity Transmission	National Grid Ventures	Neos Networks
Northern Gas Networks Limited	Northumbrian Water Group	NPower CHP Pipelines
NTT Global Data Centers EMEA UK Ltd	NYnet Ltd	Ogi
Oikos Storage Limited	Ørsted	Palm Paper Ltd
Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos	Phillips 66
Portsmouth Water	Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA
RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals
SAS Utility Services Ltd	Scottish and Southern Electricity Networks	Scottish Power Generation
Seabank Power Ltd	SES Water	SGN
Shell	Shell NOP	South Staffs Water
SP Energy Networks	Spring Fibre Limited	Squire Energy Networks
SSE Generation Ltd	SSE Transmission	SSE Utility Solutions Limited

Storengy	Tata Communications (c/o JSM Construction Ltd)	TfL – London Underground HV Cables (Road Side Cables)
toob Limited	Total Colnbrook Pipelines	Total Finaline Pipelines
Transmission Capital	Trojan Energy Limited	UK Power Networks
Uniper UK Ltd	University of Cambridge Granta Backbone Network	Vattenfall
Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd	Voneus Limited
VPI Power Limited	Wales and West Utilities	Welsh Power
West of Duddon Sands Transmission Ltd	West Sussex OpenNetwork (Cooperative National Infrastructure)	Westminster City Council
Zayo Group UK Ltd c/o JSM Group Ltd		

Non-LSBUD members (Asset owners not registered on LSBUD)

(The following Non-LSBUD Members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding.

Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.)

Asset Owner	Preferred contact method	Phone	Status
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Equans	nrsua.uk@equans.com	0800 130 3600	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Lumen Technologies	plantenquiries@ocugroup.com	02087314613	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Sky UK Limited	nrsua@sky.uk	02070323234	Not Notified
Sota	sota.plantenquiries@ocugroup.com		Not Notified
United Utilities	WastewaterDeveloperServices@uuplc.co.uk	08707510101	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified

Disclaimer

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The results of this Enquiry are personal to the Enquirer and shall not be shared with or relied upon by any other party. The asset information on which the Enquiry results are based has been provided by LSBUD Members, therefore LSBUD will provide no guarantee that such information is accurate or reliable nor does it monitor such asset information for accuracy and reliability going forward. There may also be asset owners which do not participate in the enquiry service operated by LSBUD, including but not exclusively those set out above. Therefore, LSBUD cannot make any representation or give any guarantee or warranty as to the completeness of the information contained in the enquiry results or accept any responsibility for the accuracy of the mapping images used. LSBUD and its employees, agents and consultants accept no liability (save that nothing in this Enquiry Confirmation excludes or limits our liability for death or personal injury arising from our negligence, or our fraud or fraudulent misrepresentation, or any other liability that cannot be excluded or limited by English law) arising in respect thereof or in any other way for errors or omissions including responsibility to any person by reason of negligence.