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Analytical Report Number : 24-049361

Project / Site name:	Jewson, Huddersfield	Samples received on:	22/10/2024
Your job number:	STW6714	Samples instructed on/ Analysis started on:	23/10/2024
Your order number:	POR020216	Analysis completed by:	06/11/2024
Report Issue Number:	1	Report issued on:	21/11/2024
Samples Analysed:	6 soil samples		

Charlotte Hall
Customer Service Advisor
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-049361
 Project / Site name: Jewson, Huddersfield
 Your Order No: POR020216

Lab Sample Number				356419	356420	356421	356422	356423
Sample Reference				RBH01	RBH01	RBH01	RBH01	WLS05
Sample Number				RBH01-1.5-2	RBH01-2.7-5	RBH01-10.1-10	RBH01-15.7-9	WLS05-0.5-5
Depth (m)				1.50	2.90-3.70	10.10	15.70-15.80	0.50
Date Sampled				09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024
Time Taken				0744	0745	None Supplied	1039	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	25.9
Moisture Content	%	0.01	NONE	24	20	1.8	4.6	13
Total mass of sample received	kg	0.1	NONE	0.5	0.5	0.5	0.5	0.5

General Inorganics

	pH Units	N/A	MCERTS	8	8	7.9	8.3	7.8
pH (L099)								
Total Sulphate as SO ₄	%	0.005	MCERTS	0.062	0.029	0.012	0.01	0.082
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	460	170	71	75	280
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	229	85.5	35.6	37.4	138
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	9.1	11	5.5	3.4	9.6
Total Sulphur	mg/kg	50	MCERTS	190	130	430	35000	590
Total Sulphur	%	0.005	MCERTS	0.019	0.013	0.043	3.47	0.059
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	2.9	< 2.0	< 2.0	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	9.3	3.4	6.2	3.2	14
Magnesium (water soluble)	mg/kg	5	NONE	19	6.9	12	6.4	29

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-049361
 Project / Site name: Jewson, Huddersfield
 Your Order No: POR020216

Lab Sample Number				356424
Sample Reference				WLS05
Sample Number				WLS05-1-2
Depth (m)				1.00-1.50
Date Sampled				07/10/2024
Time Taken				1443
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	15
Total mass of sample received	kg	0.1	NONE	0.5

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	4.8
Total Sulphate as SO ₄	%	0.005	MCERTS	0.335
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	2300
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1170
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	47
Total Sulphur	mg/kg	50	MCERTS	980
Total Sulphur	%	0.005	MCERTS	0.098
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	5.7
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	3.4

Heavy Metals / Metalloids

Magnesium (leachate equivalent)	mg/l	2.5	NONE	61
Magnesium (water soluble)	mg/kg	5	NONE	120

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-049361

Project / Site name: Jewson, Huddersfield

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
356419	RBH01	RBH01-1.5-2	1.5	Brown clay
356420	RBH01	RBH01-2.7-5	2.90-3.70	Brown sandy clay with gravel
356421	RBH01	RBH01-10.1-10	10.1	Brown clay and sand
356422	RBH01	RBH01-15.7-9	15.70-15.80	Brown sand with gravel
356423	WLS05	WLS05-0.5-5	0.5	Brown silt / sediment with gravel and stones ^{*9}
356424	WLS05	WLS05-1-2	1.00-1.50	Brown clay and sand

Analytical Report Number : 24-049361
Project / Site name: Jewson, Huddersfield

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Geotechnical Testing	See attached geotechnical report	See attached geotechnical report	PL		NONE

AGS4 Required (Geotech only)

PL

NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

*g - Unaccredited sample matrix.

Appendix H Geoenvironmental Laboratory Test Results



Final Report

Report No.: 24-34667-1

Initial Date of Issue: 06-Nov-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 STW6714 Jewson, Huddersfield

Quotation No.: **Date Received:** 25-Oct-2024

Order No.: POR020168 **Date Instructed:** 25-Oct-2024

No. of Samples: 13

Turnaround (Wkdays): 5 **Results Due:** 31-Oct-2024

Date Approved: 06-Nov-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: STW6714 Jewson, Huddersfield

Client: Soiltechnics Limited		Chemtest Job No.:										
Quotation No.:		Chemtest Sample ID.:										
Order No.: POR020168		Client Sample Ref.:										
		Client Sample ID.:										
		Sample Location:										
		Sample Type:										
		Top Depth (m):										
		Date Sampled:										
		Time Sampled:										
		Asbestos Lab:										
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
Moisture		N	2030	%	0.020	18	16	19	26	21	13	3.1
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	None	Stones	Stones and	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Loam	Clay	Clay	Clay	Gravel
pH at 20C		M	2010		4.0	8.0	7.3	7.1	7.8	7.4	7.9	9.2
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.88	1.2	< 0.40	1.6	1.1	< 0.40
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010		0.064			0.079	0.16	
Nitrate (Water Soluble)		N	2220	g/l	0.010		< 0.010			< 0.010	< 0.010	
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
Cyanide (Free)		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
Cyanide (Total)		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
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50		3.5			56	4.4	
Arsenic		M	2455	mg/kg	0.5	6.9	27	44	29	39	30	2.6
Beryllium		U	2455	mg/kg	0.5	1.4	2.6	2.6	1.6	2.8	1.8	< 0.5
Cadmium		M	2455	mg/kg	0.10	< 0.10	0.50	0.98	< 0.10	0.58	0.47	1.3
Chromium		M	2455	mg/kg	0.5	31	50	42	28	38	24	6.6
Copper		M	2455	mg/kg	0.50	33	78	110	130	89	280	8.7
Mercury		M	2455	mg/kg	0.05	0.06	0.28	0.62	0.12	0.58	0.16	< 0.05
Nickel		M	2455	mg/kg	0.50	32	56	39	31	49	43	9.9
Lead		M	2455	mg/kg	0.50	29	150	220	42	250	210	50
Selenium		M	2455	mg/kg	0.25	< 0.25	< 0.25	2.1	< 0.25	< 0.25	1.1	0.26
Vanadium		U	2455	mg/kg	0.5	29	56	54	38	50	34	11
Zinc		M	2455	mg/kg	0.50	100	190	260	84	180	110	120
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05			[B] < 0.05	[B] < 0.05	
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05			[B] < 0.05	[B] < 0.05	
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05			[B] < 0.05	[B] < 0.05	
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		[B] < 0.10			[B] < 0.10	[B] < 0.10	
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05			[B] < 0.05	[B] < 0.05	
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		[B] < 0.25			[B] < 0.25	[B] < 0.25	
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		[B] < 2.0			[B] < 2.0	[B] < 2.0	
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00		[B] < 1.0			[B] < 1.0	[B] 5.5	
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		[B] 3.7			[B] 2.2	[B] 3.7	

Results - Soil

Project: STW6714 Jewson, Huddersfield

Client: Soiltechnics Limited		Chemtest Job No.:										
Quotation No.:		Chemtest Sample ID.:										
Order No.: POR020168		Client Sample Ref.:										
		Client Sample ID.:										
		Sample Location:										
		Sample Type:										
		Top Depth (m):										
		Date Sampled:										
		Time Sampled:										
		Asbestos Lab:										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00		[B] 31			[B] 15	[B] 33	
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		[B] < 10			[B] < 10	[B] 12	
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00		[B] 35			[B] 18	[B] 42	
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		[B] 35			[B] 18	[B] 54	
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05			[B] < 0.05	[B] < 0.05	
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05			[B] < 0.05	[B] < 0.05	
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05			[B] < 0.05	[B] < 0.05	
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		[B] < 0.25			[B] < 0.25	[B] < 0.25	
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[B] < 1.0			[B] < 1.0	[B] < 1.0	
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[B] < 1.0			[B] < 1.0	[B] 8.5	
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[B] 2.6			[B] 4.7	[B] 43	
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[B] 7.8			[B] 14	[B] 63	
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00		[B] < 1.0			[B] 1.1	[B] 5.5	
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00		[B] 10			[B] 19	[B] 110	
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00		[B] 10			[B] 20	[B] 120	
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50	
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00		[B] 46			[B] 37	[B] 160	
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00		[B] 46			[B] 38	[B] 170	
Organic Matter		M	2625	%	0.40	1.2	7.7	6.7	26	7.8	26	13
TPH >C5-C6	EH_1D_Total	N	2670	mg/kg	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
TPH >C7-C8	EH_1D_Total	N	2670	mg/kg	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
TPH >C10-C12	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0		[B] 25	[B] < 1.0			[B] < 1.0
TPH >C12-C16	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0		[B] 45	[B] 6.2			[B] 1.1
TPH >C16-C21	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0		[B] 220	[B] 10			[B] 12
TPH >C21-C35	EH_1D_Total	N	2670	mg/kg	1.0	[B] < 1.0		[B] 470	[B] 19			[B] 890
Total TPH >C5-C35		N	2670	mg/kg	10	[B] < 10		[B] 760	[B] 36			[B] 910
Dichlorodifluoromethane		U	2760	µg/kg	1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0	
Chloromethane		M	2760	µg/kg	1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0	
Vinyl Chloride		M	2760	µg/kg	1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0	
Bromomethane		M	2760	µg/kg	20		[B] < 20			[B] < 20	[B] < 20	
Chloroethane		U	2760	µg/kg	2.0		[B] < 2.0			[B] < 2.0	[B] < 2.0	
Trichlorofluoromethane		M	2760	µg/kg	1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0	
1,1-Dichloroethene		M	2760	µg/kg	1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0	
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0		[B] < 1.0			[B] < 1.0	[B] < 1.0	

Results - Soil

Project: STW6714 Jewson, Hudderfield

Client: Soiltechnics Limited		Chemtest Job No.:		24-34667	24-34667	24-34667	24-34667	24-34667	24-34667	24-34667
Quotation No.:		Chemtest Sample ID.:		1885662	1885663	1885664	1885665	1885666	1885667	1885668
Order No.: POR020168		Client Sample Ref.:		1	1	1	1	1	1	1
		Client Sample ID.:		CPT02-0.5-1	CPT04-0.4-1	CPT06-0.4-1	CPT04-0.4-1	CPT01-0.7-1	RBH01-0.5-1	WLS01-0.3-1
		Sample Location:		CPT0 1	CPT0 3	CPT0 4	CPT0 7	CPT0 8	RBH01	WLS01
		Sample Type:		SOIL						
		Top Depth (m):		0.50	0.40	0.40	0.40	0.70	0.50	0.30
		Date Sampled:		08-Oct-2024	09-Oct-2024	09-Oct-2024	08-Oct-2024	07-Oct-2024	09-Oct-2024	07-Oct-2024
		Time Sampled:		12:24	11:25	9:31	13:53	11:02	7:44	9:50
		Asbestos Lab:		DURHAM		DURHAM	DURHAM		DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
1,1-Dichloroethane		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Bromochloromethane		U	2760	µg/kg	5.0		[B] < 5.0		[B] < 5.0	[B] < 5.0
Trichloromethane		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,1,1-Trichloroethane		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Tetrachloromethane		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,1-Dichloropropene		U	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Benzene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,2-Dichloroethane		M	2760	µg/kg	2.0		[B] < 2.0		[B] < 2.0	[B] < 2.0
Trichloroethene		N	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,2-Dichloropropane		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Dibromomethane		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Bromodichloromethane		M	2760	µg/kg	5.0		[B] < 5.0		[B] < 5.0	[B] < 5.0
cis-1,3-Dichloropropene		N	2760	µg/kg	10		[B] < 10		[B] < 10	[B] < 10
Toluene		M	2760	µg/kg	1.0		[B] 4.0		[B] < 1.0	[B] < 1.0
Trans-1,3-Dichloropropene		N	2760	µg/kg	10		[B] < 10		[B] < 10	[B] < 10
1,1,2-Trichloroethane		M	2760	µg/kg	10		[B] < 10		[B] < 10	[B] < 10
Tetrachloroethene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0		[B] < 2.0		[B] < 2.0	[B] < 2.0
Dibromochloromethane		U	2760	µg/kg	10		[B] < 10		[B] < 10	[B] < 10
1,2-Dibromoethane		M	2760	µg/kg	5.0		[B] < 5.0		[B] < 5.0	[B] < 5.0
Chlorobenzene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0		[B] < 2.0		[B] < 2.0	[B] < 2.0
Ethylbenzene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Styrene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Tribromomethane		U	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Isopropylbenzene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Bromobenzene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50		[B] < 50		[B] < 50	[B] < 50
N-Propylbenzene		U	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
2-Chlorotoluene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
4-Chlorotoluene		U	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0

Results - Soil

Project: STW6714 Jewson, Huddersfield

Client: Soiltechnics Limited		Chemtest Job No.:		24-34667	24-34667	24-34667	24-34667	24-34667	24-34667	24-34667
Quotation No.:		Chemtest Sample ID.:		1885662	1885663	1885664	1885665	1885666	1885667	1885668
Order No.: POR020168		Client Sample Ref.:		1	1	1	1	1	1	1
		Client Sample ID.:		CPT02-0.5-1	CPT04-0.4-1	CPT06-0.4-1	CPT04-0.4-1	CPT01-0.7-1	RBH01-0.5-1	WLS01-0.3-1
		Sample Location:		CPT0 1	CPT0 3	CPT0 4	CPT0 7	CPT0 8	RBH01	WLS01
		Sample Type:		SOIL						
		Top Depth (m):		0.50	0.40	0.40	0.40	0.70	0.50	0.30
		Date Sampled:		08-Oct-2024	09-Oct-2024	09-Oct-2024	08-Oct-2024	07-Oct-2024	09-Oct-2024	07-Oct-2024
		Time Sampled:		12:24	11:25	9:31	13:53	11:02	7:44	9:50
		Asbestos Lab:		DURHAM		DURHAM	DURHAM		DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Sec-Butylbenzene		U	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,3-Dichlorobenzene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
4-Isopropyltoluene		U	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,4-Dichlorobenzene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
N-Butylbenzene		U	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,2-Dichlorobenzene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50		[B] < 50		[B] < 50	[B] < 50
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
Hexachlorobutadiene		N	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0		[B] < 2.0		[B] < 2.0	[B] < 2.0
Carbon Disulphide		N	2760	µg/kg	50		[B] < 50		[B] < 50	[B] < 50
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0		[B] < 1.0		[B] < 1.0	[B] < 1.0
N-Nitrosodimethylamine		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Phenol		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
2-Chlorophenol		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
1,3-Dichlorobenzene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
1,4-Dichlorobenzene		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
1,2-Dichlorobenzene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
2-Methylphenol		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Hexachloroethane		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
4-Methylphenol		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Nitrobenzene		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Isophorone		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
2-Nitrophenol		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
2,4-Dimethylphenol		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
2,4-Dichlorophenol		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Naphthalene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] 1.2
4-Chloroaniline		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Hexachlorobutadiene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50

Results - Soil

Project: STW6714 Jewson, Hudderfield

Client: Soiltechnics Limited		Chemtest Job No.:		24-34667	24-34667	24-34667	24-34667	24-34667	24-34667	24-34667
Quotation No.:		Chemtest Sample ID.:		1885662	1885663	1885664	1885665	1885666	1885667	1885668
Order No.: POR020168		Client Sample Ref.:		1	1	1	1	1	1	1
		Client Sample ID.:		CPT02-0.5-1	CPT04-0.4-1	CPT06-0.4-1	CPT04-0.4-1	CPT01-0.7-1	RBH01-0.5-1	WLS01-0.3-1
		Sample Location:		CPT0 1	CPT0 3	CPT0 4	CPT0 7	CPT0 8	RBH01	WLS01
		Sample Type:		SOIL						
		Top Depth (m):		0.50	0.40	0.40	0.40	0.70	0.50	0.30
		Date Sampled:		08-Oct-2024	09-Oct-2024	09-Oct-2024	08-Oct-2024	07-Oct-2024	09-Oct-2024	07-Oct-2024
		Time Sampled:		12:24	11:25	9:31	13:53	11:02	7:44	9:50
		Asbestos Lab:		DURHAM		DURHAM	DURHAM		DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
2-Methylnaphthalene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] 1.2
4-Nitrophenol		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
2-Chloronaphthalene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
2-Nitroaniline		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Acenaphthylene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Dimethylphthalate		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
2,6-Dinitrotoluene		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Acenaphthene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] 0.67
3-Nitroaniline		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Dibenzofuran		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] 0.92
4-Chlorophenylphenylether		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
2,4-Dinitrotoluene		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Fluorene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] 0.67
Diethyl Phthalate		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
4-Nitroaniline		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Azobenzene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Hexachlorobenzene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Phenanthrene		M	2790	mg/kg	0.50		[B] 0.90		[B] < 0.50	[B] 6.3
Anthracene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] 1.1
Carbazole		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] 0.59
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Fluoranthene		M	2790	mg/kg	0.50		[B] 1.6		[B] 0.80	[B] 7.2
Pyrene		M	2790	mg/kg	0.50		[B] 1.4		[B] 0.75	[B] 6.5
Butylbenzyl Phthalate		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Benzo[a]anthracene		M	2790	mg/kg	0.50		[B] 0.79		[B] < 0.50	[B] 3.5
Chrysene		M	2790	mg/kg	0.50		[B] 0.86		[B] < 0.50	[B] 3.5
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50
Benzo[b]fluoranthene		M	2790	mg/kg	0.50		[B] 1.0		[B] < 0.50	[B] 4.0
Benzo[k]fluoranthene		M	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] 1.4
Benzo[a]pyrene		M	2790	mg/kg	0.50		[B] 0.75		[B] < 0.50	[B] 2.9
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] 1.4
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50		[B] < 0.50		[B] < 0.50	[B] < 0.50

Results - Soil

Project: STW6714 Jewson, Huddersfield

Client: Soiltechnics Limited		Chemtest Job No.:													
Quotation No.:		24-34667		24-34667		24-34667		24-34667		24-34667		24-34667		24-34667	
Order No.: POR020168		Chemtest Sample ID.:													
		1885662		1885663		1885664		1885665		1885666		1885667		1885668	
		Client Sample Ref.:													
		1		1		1		1		1		1		1	
		Client Sample ID.:													
		CPT02-0.5-1		CPT04-0.4-1		CPT06-0.4-1		CPT04-0.4-1		CPT01-0.7-1		RBH01-0.5-1		WLS01-0.3-1	
		Sample Location:													
		CPT0 1		CPT0 3		CPT0 4		CPT0 7		CPT0 8		RBH01		WLS01	
		Sample Type:													
		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Top Depth (m):													
		0.50		0.40		0.40		0.40		0.70		0.50		0.30	
		Date Sampled:													
		08-Oct-2024		09-Oct-2024		09-Oct-2024		08-Oct-2024		07-Oct-2024		09-Oct-2024		07-Oct-2024	
		Time Sampled:													
		12:24		11:25		9:31		13:53		11:02		7:44		9:50	
		Asbestos Lab:													
		DURHAM				DURHAM		DURHAM				DURHAM		DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD										
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50			[B] < 0.50			[B] < 0.50		[B] 1.6		
Naphthalene		M	2800	mg/kg	0.10	< 0.10		1.1	3.6	0.54	0.39	0.55	< 0.10		
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	0.14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.46	4.2	< 0.10	0.13	0.17	< 0.10			
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.41	3.0	< 0.10	0.12	0.21	< 0.10			
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	3.2	24	0.55	0.83	1.5	< 0.10			
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.67	5.4	0.10	0.15	0.29	< 0.10			
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	4.3	29	0.46	1.2	1.8	< 0.10			
Pyrene		M	2800	mg/kg	0.10	< 0.10	3.4	24	0.40	0.98	1.4	< 0.10			
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	2.5	13	0.24	0.78	0.97	< 0.10			
Chrysene		M	2800	mg/kg	0.10	< 0.10	1.9	13	0.28	0.64	0.79	< 0.10			
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	2.8	15	< 0.10	0.87	1.2	< 0.10			
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	0.83	5.7	< 0.10	0.24	0.41	< 0.10			
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	2.1	12	< 0.10	0.73	1.0	< 0.10			
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	1.3	6.8	< 0.10	0.43	0.48	< 0.10			
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	1.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	1.0	6.5	< 0.10	0.34	0.39	< 0.10			
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	26	170	2.6	7.8	11	< 2.0			
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	0.28	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
VOC TIC		N	2760	µg/kg	N/A			[B] None Detected			[B] None Detected	[B] None Detected			

Results - Soil

Project: STW6714 Jewson, Huddersfield

Client: Soiltechnics Limited		Chemtest Job No.:											
Quotation No.:		24-34667		24-34667		24-34667		24-34667		24-34667		24-34667	
Order No.: POR020168		Chemtest Sample ID.:											
Client Sample Ref.:		1885669		1885670		1885671		1885672		1885673		1885674	
Client Sample ID.:		1		1		1		1		1		1	
Sample Location:		WLS02-0.5-1		WLS04-0.2-1		WLS05-0.5-1		WLS06-0.5-1		WLS07-0.2-1		WLS08-0.5-1	
Sample Type:		WLS02		WLS04		WLS05		WLS06		WLS07		WLS08	
Top Depth (m):		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
Date Sampled:		0.50		0.20		0.50		0.50		0.20		0.50	
Time Sampled:		07-Oct-2024		07-Oct-2024		07-Oct-2024		08-Oct-2024		08-Oct-2024		08-Oct-2024	
Asbestos Lab:		11:52		13:43		14:43		8:19		9:33		11:03	
Determindand		Asbestos Lab:								DURHAM		DURHAM	
Determindand	HWOL Code	Accred.	SOP	Units	LOD								
ACM Type		U	2192		N/A							-	-
Asbestos Identification		U	2192		N/A							No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	24	3.0	16	18	3.7	20		
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Black		
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones		
Soil Texture		N	2040		N/A	Clay	Gravel	Loam	Loam	Gravel	Clay		
pH at 20C		M	2010		4.0			6.9		9.0	7.2		
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40			0.96		< 0.40	2.1		
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010			0.46					
Nitrate (Water Soluble)		N	2220	g/l	0.010			< 0.010					
Cyanide (Complex)		M	2300	mg/kg	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] < 0.50		
Cyanide (Total)		M	2300	mg/kg	0.50			[B] < 0.50		[B] < 0.50	[B] < 0.50		
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50			3.7					
Arsenic		M	2455	mg/kg	0.5			36		1.9	29		
Beryllium		U	2455	mg/kg	0.5			1.9		< 0.5	1.7		
Cadmium		M	2455	mg/kg	0.10			0.37		1.2	0.88		
Chromium		M	2455	mg/kg	0.5			36		4.3	27		
Copper		M	2455	mg/kg	0.50			61		7.3	91		
Mercury		M	2455	mg/kg	0.05			0.32		< 0.05	0.24		
Nickel		M	2455	mg/kg	0.50			35		8.2	47		
Lead		M	2455	mg/kg	0.50			100		32	150		
Selenium		M	2455	mg/kg	0.25			1.3		< 0.25	2.0		
Vanadium		U	2455	mg/kg	0.5			47		7.3	37		
Zinc		M	2455	mg/kg	0.50			140		86	150		
Chromium (Hexavalent)		N	2490	mg/kg	0.50			< 0.50		< 0.50	< 0.50		
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05			
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05			
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05			
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10			
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05			
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25			
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 2.9	[B] < 2.0	[B] < 2.0	[B] < 2.0	[B] < 2.0			
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] 12	[B] 4.6	[B] 4.6	[B] < 1.0	[B] < 1.0			
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 6.8	[B] 2.6	[B] 3.5	[B] < 2.0	[B] < 2.0			

Results - Soil

Project: STW6714 Jewson, Huddersfield

Client: Soiltechnics Limited		Chemtest Job No.:		24-34667	24-34667	24-34667	24-34667	24-34667	24-34667
Quotation No.:		Chemtest Sample ID.:		1885669	1885670	1885671	1885672	1885673	1885674
Order No.: POR020168		Client Sample Ref.:		1	1	1	1	1	1
		Client Sample ID.:		WLS02-0.5-1	WLS04-0.2-1	WLS05-0.5-1	WLS06-0.5-1	WLS07-0.2-1	WLS08-0.5-1
		Sample Location:		WLS02	WLS04	WLS05	WLS06	WLS07	WLS08
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	0.20	0.50	0.50	0.20	0.50
		Date Sampled:		07-Oct-2024	07-Oct-2024	07-Oct-2024	08-Oct-2024	08-Oct-2024	08-Oct-2024
		Time Sampled:		11:52	13:43	14:43	8:19	9:33	11:03
		Asbestos Lab:						DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 30	[B] 4.1	[B] 33	[B] 5.1
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10	[B] < 10	[B] 16	[B] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 51	[B] 12	[B] 41	[B] 5.9
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 51	[B] 12	[B] 58	[B] < 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] 2.9	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 31	[B] < 2.0	[B] 15	[B] 3.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 47	[B] < 2.0	[B] 33	[B] 10
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 9.0	[B] 2.1	[B] 4.7	[B] 1.5
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 81	[B] < 5.0	[B] 48	[B] 13
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 89	[B] < 10	[B] 53	[B] 15
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 130	[B] 12	[B] 89	[B] 19
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 140	[B] 14	[B] 110	[B] 21
Organic Matter		M	2625	%	0.40			5.3	11
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
Dichlorodifluoromethane		U	2760	µg/kg	1.0			[B] < 1.0	
Chloromethane		M	2760	µg/kg	1.0			[B] < 1.0	
Vinyl Chloride		M	2760	µg/kg	1.0			[B] < 1.0	
Bromomethane		M	2760	µg/kg	20			[B] < 20	
Chloroethane		U	2760	µg/kg	2.0			[B] < 2.0	
Trichlorofluoromethane		M	2760	µg/kg	1.0			[B] < 1.0	
1,1-Dichloroethene		M	2760	µg/kg	1.0			[B] < 1.0	
Trans 1,2-Dichloroethene		M	2760	µg/kg	1.0			[B] < 1.0	

Results - Soil

Project: STW6714 Jewson, Huddersfield

Client: Soiltechnics Limited		Chemtest Job No.:					
Quotation No.:		24-34667		24-34667		24-34667	
Order No.: POR020168		Chemtest Sample ID.:		1885669		1885670	
		Client Sample Ref.:		1		1	
		Client Sample ID.:		WLS02-0.5-1		WLS04-0.2-1	
		Sample Location:		WLS02		WLS04	
		Sample Type:		SOIL		SOIL	
		Top Depth (m):		0.50		0.20	
		Date Sampled:		07-Oct-2024		07-Oct-2024	
		Time Sampled:		11:52		13:43	
		Asbestos Lab:				DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
1,1-Dichloroethane		M	2760	µg/kg	1.0		[B] < 1.0
cis 1,2-Dichloroethene		M	2760	µg/kg	1.0		[B] < 1.0
Bromochloromethane		U	2760	µg/kg	5.0		[B] < 5.0
Trichloromethane		M	2760	µg/kg	1.0		[B] < 1.0
1,1,1-Trichloroethane		M	2760	µg/kg	1.0		[B] < 1.0
Tetrachloromethane		M	2760	µg/kg	1.0		[B] < 1.0
1,1-Dichloropropene		U	2760	µg/kg	1.0		[B] < 1.0
Benzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0
1,2-Dichloroethane		M	2760	µg/kg	2.0		[B] < 2.0
Trichloroethene		N	2760	µg/kg	1.0		[B] < 1.0
1,2-Dichloropropane		M	2760	µg/kg	1.0		[B] < 1.0
Dibromomethane		M	2760	µg/kg	1.0		[B] < 1.0
Bromodichloromethane		M	2760	µg/kg	5.0		[B] < 5.0
cis-1,3-Dichloropropene		N	2760	µg/kg	10		[B] < 10
Toluene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0
Trans-1,3-Dichloropropene		N	2760	µg/kg	10		[B] < 10
1,1,2-Trichloroethane		M	2760	µg/kg	10		[B] < 10
Tetrachloroethene		M	2760	µg/kg	1.0		[B] < 1.0
1,3-Dichloropropane		U	2760	µg/kg	2.0		[B] < 2.0
Dibromochloromethane		U	2760	µg/kg	10		[B] < 10
1,2-Dibromoethane		M	2760	µg/kg	5.0		[B] < 5.0
Chlorobenzene		M	2760	µg/kg	1.0		[B] < 1.0
1,1,1,2-Tetrachloroethane		M	2760	µg/kg	2.0		[B] < 2.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0
Styrene		M	2760	µg/kg	1.0		[B] < 1.0
Tribromomethane		U	2760	µg/kg	1.0		[B] < 1.0
Isopropylbenzene		M	2760	µg/kg	1.0		[B] < 1.0
Bromobenzene		M	2760	µg/kg	1.0		[B] < 1.0
1,2,3-Trichloropropane		N	2760	µg/kg	50		[B] < 50
N-Propylbenzene		U	2760	µg/kg	1.0		[B] < 1.0
2-Chlorotoluene		M	2760	µg/kg	1.0		[B] < 1.0
1,3,5-Trimethylbenzene		M	2760	µg/kg	1.0		[B] < 1.0
4-Chlorotoluene		U	2760	µg/kg	1.0		[B] < 1.0
Tert-Butylbenzene		U	2760	µg/kg	1.0		[B] < 1.0

Results - Soil

Project: STW6714 Jewson, Huddersfield

Client: Soiltechnics Limited		Chemtest Job No.:		24-34667	24-34667	24-34667	24-34667	24-34667	24-34667
Quotation No.:		Chemtest Sample ID.:		1885669	1885670	1885671	1885672	1885673	1885674
Order No.: POR020168		Client Sample Ref.:		1	1	1	1	1	1
		Client Sample ID.:		WLS02-0.5-1	WLS04-0.2-1	WLS05-0.5-1	WLS06-0.5-1	WLS07-0.2-1	WLS08-0.5-1
		Sample Location:		WLS02	WLS04	WLS05	WLS06	WLS07	WLS08
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	0.20	0.50	0.50	0.20	0.50
		Date Sampled:		07-Oct-2024	07-Oct-2024	07-Oct-2024	08-Oct-2024	08-Oct-2024	08-Oct-2024
		Time Sampled:		11:52	13:43	14:43	8:19	9:33	11:03
		Asbestos Lab:						DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
1,2,4-Trimethylbenzene		M	2760	µg/kg	1.0			[B] < 1.0	
Sec-Butylbenzene		U	2760	µg/kg	1.0			[B] < 1.0	
1,3-Dichlorobenzene		M	2760	µg/kg	1.0			[B] < 1.0	
4-Isopropyltoluene		U	2760	µg/kg	1.0			[B] < 1.0	
1,4-Dichlorobenzene		M	2760	µg/kg	1.0			[B] < 1.0	
N-Butylbenzene		U	2760	µg/kg	1.0			[B] < 1.0	
1,2-Dichlorobenzene		M	2760	µg/kg	1.0			[B] < 1.0	
1,2-Dibromo-3-Chloropropane		U	2760	µg/kg	50			[B] < 50	
1,2,4-Trichlorobenzene		M	2760	µg/kg	1.0			[B] < 1.0	
Hexachlorobutadiene		N	2760	µg/kg	1.0			[B] < 1.0	
1,2,3-Trichlorobenzene		U	2760	µg/kg	2.0			[B] < 2.0	
Carbon Disulphide		N	2760	µg/kg	50			[B] < 50	
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0			[B] < 1.0	
N-Nitrosodimethylamine		M	2790	mg/kg	0.50			[B] < 0.50	
Phenol		M	2790	mg/kg	0.50			[B] < 0.50	
2-Chlorophenol		N	2790	mg/kg	0.50			[B] < 0.50	
Bis-(2-Chloroethyl)Ether		M	2790	mg/kg	0.50			[B] < 0.50	
1,3-Dichlorobenzene		M	2790	mg/kg	0.50			[B] < 0.50	
1,4-Dichlorobenzene		N	2790	mg/kg	0.50			[B] < 0.50	
1,2-Dichlorobenzene		M	2790	mg/kg	0.50			[B] < 0.50	
2-Methylphenol		M	2790	mg/kg	0.50			[B] < 0.50	
Bis(2-Chloroisopropyl)Ether		M	2790	mg/kg	0.50			[B] < 0.50	
Hexachloroethane		N	2790	mg/kg	0.50			[B] < 0.50	
N-Nitrosodi-n-propylamine		M	2790	mg/kg	0.50			[B] < 0.50	
4-Methylphenol		M	2790	mg/kg	0.50			[B] < 0.50	
Nitrobenzene		N	2790	mg/kg	0.50			[B] < 0.50	
Isophorone		M	2790	mg/kg	0.50			[B] < 0.50	
2-Nitrophenol		N	2790	mg/kg	0.50			[B] < 0.50	
2,4-Dimethylphenol		N	2790	mg/kg	0.50			[B] < 0.50	
Bis(2-Chloroethoxy)Methane		M	2790	mg/kg	0.50			[B] < 0.50	
2,4-Dichlorophenol		N	2790	mg/kg	0.50			[B] < 0.50	
1,2,4-Trichlorobenzene		M	2790	mg/kg	0.50			[B] < 0.50	
Naphthalene		M	2790	mg/kg	0.50			[B] < 0.50	
4-Chloroaniline		N	2790	mg/kg	0.50			[B] < 0.50	
Hexachlorobutadiene		M	2790	mg/kg	0.50			[B] < 0.50	
4-Chloro-3-Methylphenol		N	2790	mg/kg	0.50			[B] < 0.50	

Results - Soil

Project: STW6714 Jewson, Huddersfield

Client: Soiltechnics Limited		Chemtest Job No.:					
Quotation No.:		24-34667		24-34667		24-34667	
Order No.:	POR020168	Chemtest Sample ID.:					
		1885669		1885670		1885671	
		Client Sample Ref.:		1		1	
		Client Sample ID.:		WLS02-0.5-1		WLS04-0.2-1	
		Sample Location:		WLS02		WLS04	
		Sample Type:		SOIL		SOIL	
		Top Depth (m):		0.50		0.20	
		Date Sampled:		07-Oct-2024		07-Oct-2024	
		Time Sampled:		11:52		13:43	
		Asbestos Lab:				DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
2-Methylnaphthalene		M	2790	mg/kg	0.50		[B] < 0.50
4-Nitrophenol		N	2790	mg/kg	0.50		[B] < 0.50
2,4,6-Trichlorophenol		N	2790	mg/kg	0.50		[B] < 0.50
2,4,5-Trichlorophenol		N	2790	mg/kg	0.50		[B] < 0.50
2-Chloronaphthalene		M	2790	mg/kg	0.50		[B] < 0.50
2-Nitroaniline		N	2790	mg/kg	0.50		[B] < 0.50
Acenaphthylene		M	2790	mg/kg	0.50		[B] < 0.50
Dimethylphthalate		M	2790	mg/kg	0.50		[B] < 0.50
2,6-Dinitrotoluene		N	2790	mg/kg	0.50		[B] < 0.50
Acenaphthene		M	2790	mg/kg	0.50		[B] < 0.50
3-Nitroaniline		N	2790	mg/kg	0.50		[B] < 0.50
Dibenzofuran		M	2790	mg/kg	0.50		[B] < 0.50
4-Chlorophenylphenylether		M	2790	mg/kg	0.50		[B] < 0.50
2,4-Dinitrotoluene		N	2790	mg/kg	0.50		[B] < 0.50
Fluorene		M	2790	mg/kg	0.50		[B] < 0.50
Diethyl Phthalate		M	2790	mg/kg	0.50		[B] < 0.50
4-Nitroaniline		N	2790	mg/kg	0.50		[B] < 0.50
Azobenzene		M	2790	mg/kg	0.50		[B] < 0.50
4-Bromophenylphenyl Ether		M	2790	mg/kg	0.50		[B] < 0.50
Hexachlorobenzene		M	2790	mg/kg	0.50		[B] < 0.50
Phenanthrene		M	2790	mg/kg	0.50		[B] 1.2
Anthracene		M	2790	mg/kg	0.50		[B] < 0.50
Carbazole		M	2790	mg/kg	0.50		[B] < 0.50
Di-N-Butyl Phthalate		N	2790	mg/kg	0.50		[B] < 0.50
Fluoranthene		M	2790	mg/kg	0.50		[B] 1.6
Pyrene		M	2790	mg/kg	0.50		[B] 1.5
Butylbenzyl Phthalate		N	2790	mg/kg	0.50		[B] < 0.50
Benzo[a]anthracene		M	2790	mg/kg	0.50		[B] 0.77
Chrysene		M	2790	mg/kg	0.50		[B] 0.87
Bis(2-Ethylhexyl)Phthalate		N	2790	mg/kg	0.50		[B] < 0.50
Di-N-Octyl Phthalate		N	2790	mg/kg	0.50		[B] < 0.50
Benzo[b]fluoranthene		M	2790	mg/kg	0.50		[B] 0.94
Benzo[k]fluoranthene		M	2790	mg/kg	0.50		[B] < 0.50
Benzo[a]pyrene		M	2790	mg/kg	0.50		[B] 0.71
Indeno(1,2,3-c,d)Pyrene		N	2790	mg/kg	0.50		[B] < 0.50
Dibenz(a,h)Anthracene		N	2790	mg/kg	0.50		[B] < 0.50

Results - Soil

Project: STW6714 Jewson, Huddersfield

Client: Soiltechnics Limited		Chemtest Job No.:						24-34667	24-34667	24-34667	24-34667	24-34667	24-34667
Quotation No.:		Chemtest Sample ID.:						1885669	1885670	1885671	1885672	1885673	1885674
Order No.: POR020168		Client Sample Ref.:						1	1	1	1	1	1
		Client Sample ID.:						WLS02-0.5-1	WLS04-0.2-1	WLS05-0.5-1	WLS06-0.5-1	WLS07-0.2-1	WLS08-0.5-1
		Sample Location:						WLS02	WLS04	WLS05	WLS06	WLS07	WLS08
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						0.50	0.20	0.50	0.50	0.20	0.50
		Date Sampled:						07-Oct-2024	07-Oct-2024	07-Oct-2024	08-Oct-2024	08-Oct-2024	08-Oct-2024
		Time Sampled:						11:52	13:43	14:43	8:19	9:33	11:03
		Asbestos Lab:										DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Benzo[g,h,i]perylene		M	2790	mg/kg	0.50			[B] < 0.50					
Naphthalene		M	2800	mg/kg	0.10			0.44		< 0.10		0.88	
Acenaphthylene		N	2800	mg/kg	0.10			< 0.10		< 0.10		< 0.10	
Acenaphthene		M	2800	mg/kg	0.10			0.17		< 0.10		0.50	
Fluorene		M	2800	mg/kg	0.10			0.15		< 0.10		0.40	
Phenanthrene		M	2800	mg/kg	0.10			0.86		< 0.10		3.2	
Anthracene		M	2800	mg/kg	0.10			0.16		< 0.10		0.57	
Fluoranthene		M	2800	mg/kg	0.10			0.96		< 0.10		4.1	
Pyrene		M	2800	mg/kg	0.10			0.96		< 0.10		3.5	
Benzo[a]anthracene		M	2800	mg/kg	0.10			0.48		< 0.10		1.8	
Chrysene		M	2800	mg/kg	0.10			0.44		< 0.10		2.0	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10			0.56		< 0.10		2.1	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10			0.20		< 0.10		0.74	
Benzo[a]pyrene		M	2800	mg/kg	0.10			0.50		< 0.10		1.6	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10			0.30		< 0.10		1.0	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10			< 0.10		< 0.10		< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10			0.34		< 0.10		0.98	
Total Of 16 PAH's		N	2800	mg/kg	2.0			6.5		< 2.0		23	
Total Phenols		M	2920	mg/kg	0.10			< 0.10		< 0.10		< 0.10	
VOC TIC		N	2760	µg/kg	N/A			[B] None Detected					

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:
1885662	1	CPT02-0.5-1	CPT0 1	08-Oct-2024	B	Amber Glass 250ml
1885662	1	CPT02-0.5-1	CPT0 1	08-Oct-2024	B	Plastic Tub 500g
1885663	1	CPT04-0.4-1	CPT0 3	09-Oct-2024	B	Amber Glass 250ml
1885663	1	CPT04-0.4-1	CPT0 3	09-Oct-2024	B	Plastic Tub 500g
1885664	1	CPT06-0.4-1	CPT0 4	09-Oct-2024	B	Amber Glass 250ml
1885664	1	CPT06-0.4-1	CPT0 4	09-Oct-2024	B	Plastic Tub 500g
1885665	1	CPT04-0.4-1	CPT0 7	08-Oct-2024	B	Amber Glass 250ml
1885665	1	CPT04-0.4-1	CPT0 7	08-Oct-2024	B	Plastic Tub 500g
1885666	1	CPT01-0.7-1	CPT0 8	07-Oct-2024	B	Amber Glass 250ml
1885666	1	CPT01-0.7-1	CPT0 8	07-Oct-2024	B	Plastic Tub 500g
1885667	1	RBH01-0.5-1	RBH01	09-Oct-2024	B	Amber Glass 250ml
1885667	1	RBH01-0.5-1	RBH01	09-Oct-2024	B	Amber Glass 60ml
1885667	1	RBH01-0.5-1	RBH01	09-Oct-2024	B	Plastic Tub 500g
1885668	1	WLS01-0.3-1	WLS01	07-Oct-2024	B	Amber Glass 250ml
1885668	1	WLS01-0.3-1	WLS01	07-Oct-2024	B	Plastic Tub 500g
1885669	1	WLS02-0.5-1	WLS02	07-Oct-2024	B	Amber Glass 250ml
1885669	1	WLS02-0.5-1	WLS02	07-Oct-2024	B	Plastic Tub 500g
1885670	1	WLS04-0.2-1	WLS04	07-Oct-2024	B	Amber Glass 250ml
1885670	1	WLS04-0.2-1	WLS04	07-Oct-2024	B	Plastic Tub 500g
1885671	1	WLS05-0.5-1	WLS05	07-Oct-2024	B	Amber Glass 250ml
1885671	1	WLS05-0.5-1	WLS05	07-Oct-2024	B	Plastic Tub 500g
1885672	1	WLS06-0.5-1	WLS06	08-Oct-2024	B	Amber Glass 250ml
1885672	1	WLS06-0.5-1	WLS06	08-Oct-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:
1885673	1	WLS07-0.2-1	WLS07	08-Oct-2024	B	Amber Glass 250ml
1885673	1	WLS07-0.2-1	WLS07	08-Oct-2024	B	Plastic Tub 500g
1885674	1	WLS08-0.5-1	WLS08	08-Oct-2024	B	Amber Glass 250ml
1885674	1	WLS08-0.5-1	WLS08	08-Oct-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	
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.	
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.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
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	
2690	EPH A/A Split	Aliphatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40 Aromatics: >C10-C12, >C12-C16, >C16-C21, >C21- C35, >C35- C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5-C6, >C6-C7,>C7-C8,>C8-C10 Aromatics: >C5-C7,>C7-C8,>C8-C10	Water extraction / Headspace GCxGC FID detection	
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS	
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 Trimethylphenols>Note: 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



Final Report

Report No.: 24-34673-1

Initial Date of Issue: 01-Nov-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 STW6714 Jewson, Huddersfield

Quotation No.: **Date Received:** 25-Oct-2024

Order No.: POR020168 **Date Instructed:** 25-Oct-2024

No. of Samples: 2

Turnaround (Wkdays): 7 **Results Due:** 04-Nov-2024

Date Approved: 01-Nov-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: STW6714 Jewson, Huddersfield

Client: Soiltechnics Limited		Chemtest Job No.:	24-34673	24-34673	
Quotation No.:		Chemtest Sample ID.:	1885689	1885690	
Order No.: POR020168		Client Sample Ref.:	1	1	
		Client Sample ID.:	CPT02-0.5-1	RBH01-0.5-1	
		Sample Location:	CPT0 1	RBH01	
		Sample Type:	SOIL	SOIL	
		Top Depth (m):	0.50	0.50	
		Date Sampled:	08-Oct-2024	09-Oct-2024	
		Time Sampled:	12:24	7:44	
Determinand	HWOL Code	Accred.	SOP	Units	LOD
Moisture		N	2030	%	0.020
					29
					13

Results - 2 Stage WAC

Project: STW6714 Jewson, Huddersfield

Chemtest Job No: 24-34673 Chemtest Sample ID: 1885689 Sample Ref: 1 Sample ID: CPT02-0.5-1 Sample Location: CPT0 1 Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 08-Oct-2024							Landfill Waste Acceptance Criteria Limits			
							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	M	%				0.64	3	5	6
Loss On Ignition	2610	M	%				3.6	--	--	10
Total BTEX	2760	M	mg/kg				[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg				[B] < 10	500	--	--
Total (Of 17) PAH's	2800	N	mg/kg				< 2.0	100	--	--
pH at 20C	2010	M					8.0	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg				0.0040	--	To evaluate	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1455	U	< 0.0002	0.0004	< 0.0002	0.0040	0.5	2	25	
Barium	1455	U	< 0.005	< 0.005	< 0.0005	< 0.0005	20	100	300	
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5	
Chromium	1455	U	< 0.0005	0.0005	< 0.0005	0.0048	0.5	10	70	
Copper	1455	U	0.0017	0.0020	0.0034	0.0013	2	50	100	
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2	
Molybdenum	1455	U	0.0002	0.0005	0.0004	0.0048	0.5	10	30	
Nickel	1455	U	0.0005	< 0.0005	0.0011	< 0.0005	0.4	10	40	
Lead	1455	U	< 0.0005	0.0009	< 0.0005	0.0086	0.5	10	50	
Antimony	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.06	0.7	5	
Selenium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.1	0.5	7	
Zinc	1455	U	0.006	0.006	0.012	0.058	4	50	200	
Chloride	1220	U	12	3.0	24	37	800	15000	25000	
Fluoride	1220	U	0.16	0.21	< 1.0	2.1	10	150	500	
Sulphate	1220	U	14	3.5	28	43	1000	20000	50000	
Total Dissolved Solids	1020	N	94	33	190	370	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	5.0	5.7	< 50	57	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	14

Leachate Test Information	
Leachant volume 1st extract/l	0.322
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.132

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - 2 Stage WAC

Project: STW6714 Jewson, Huddersfield

Chemtest Job No: 24-34673 Chemtest Sample ID: 1885690 Sample Ref: 1 Sample ID: RBH01-0.5-1 Sample Location: RBH01 Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 09-Oct-2024										Landfill Waste Acceptance Criteria Limits		
							Inert Waste Landfill	Stable, Non- reactive hazardous waste in non- hazardous Landfill	Hazardous Waste Landfill			
Determinand	SOP	Accred.	Units									
Total Organic Carbon	2625	M	%				9.5	3	5	6		
Loss On Ignition	2610	M	%				4.2	--	--	10		
Total BTEX	2760	M	mg/kg				[B] < 0.010	6	--	--		
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--		
TPH Total WAC	2670	M	mg/kg				[B] 31	500	--	--		
Total (Of 17) PAH's	2800	N	mg/kg				23	100	--	--		
pH at 20C	2010	M					7.9	--	>6	--		
Acid Neutralisation Capacity	2015	N	mol/kg				0.0090	--	To evaluate	To evaluate		
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg					
Arsenic	1455	U	0.0025	0.0015	0.0051	0.016	0.5	2	25			
Barium	1455	U	0.029	0.026	0.059	0.27	20	100	300			
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5			
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70			
Copper	1455	U	0.023	0.011	0.046	0.027	2	50	100			
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2			
Molybdenum	1455	U	0.0063	0.0055	0.013	0.055	0.5	10	30			
Nickel	1455	U	0.0025	< 0.0005	0.0049	0.0029	0.4	10	40			
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50			
Antimony	1455	U	0.0061	0.0025	0.012	0.029	0.06	0.7	5			
Selenium	1455	U	0.0010	< 0.0005	0.0019	0.0011	0.1	0.5	7			
Zinc	1455	U	0.006	0.006	0.013	0.060	4	50	200			
Chloride	1220	U	7.4	< 1.0	15	< 10	800	15000	25000			
Fluoride	1220	U	0.18	0.23	< 1.0	2.2	10	150	500			
Sulphate	1220	U	250	26	490	520	1000	20000	50000			
Total Dissolved Solids	1020	N	490	140	980	1800	4000	60000	100000			
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-			
Dissolved Organic Carbon	1610	U	16	6.5	< 50	76	500	800	1000			

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	4.8

Leachate Test Information	
Leachant volume 1st extract/l	0.341
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.206

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

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:
1885689	1	CPT02-0.5-1	CPT0 1	08-Oct-2024	B	Amber Glass 250ml
1885689	1	CPT02-0.5-1	CPT0 1	08-Oct-2024	B	Plastic Tub 500g
1885690	1	RBH01-0.5-1	RBH01	09-Oct-2024	B	Amber Glass 250ml
1885690	1	RBH01-0.5-1	RBH01	09-Oct-2024	B	Amber Glass 60ml
1885690	1	RBH01-0.5-1	RBH01	09-Oct-2024	B	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	
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).	RE PW PL SW DW FW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
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.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
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	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
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	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
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	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

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

Appendix I Contamination Assessment Screening

GQRA Screening

Assessments	Status	Date	Created by	Reviewed By
Acute human health risk - Soils	Completed	25/11/2024	JT	DH
Chronic human health risk - Soils	Completed	25/11/2024	JT	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

Chronic human health risk (soils)

Scenario	
End user	Current and proposed site user
Receptor	Industrial/Commercial
SOM	1.00%
GAC Preference	C4SLs over S4ULs
Unspciated TPH GAC	Worst-case aliphatic/aromatic

Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	CPT01	CPT03	CPT04	CPT07	CPT08	RBH01	WLS01	WLS02	WLS04	WLS05
				Depth (m)	0.50	0.40	0.40	0.40	0.70	0.50	0.30	0.50	0.20	0.50
				Date	J24-10-08T12:J24-10-09T11:J24-10-09T09:J24-10-08T13:J24-10-07T11:J24-10-09T07:J24-10-07T09:J24-10-07T11:J24-10-07T13:J24-10-07T14									
Inorganics - Metals														
Arsenic	C4SL	640	44		6.9	27	44	29	39	30	2.6			36
Beryllium	S4UL	12	2.8		1.4	2.6	2.6	1.6	2.8	1.8	<0.5			1.9
Boron	S4UL	240000	2.1		<0.40	0.88	1.2	<0.40	1.6	1.1	<0.40			0.96
Cadmium	C4SL	410	1.3		<0.10	0.5	0.98	<0.10	0.58	0.47	1.3			0.37
Chromium (III)	S4UL	8600	50		31	50	42	28	38	24	6.6			36
Chromium (VI)	C4SL	49	<LoD		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			<0.50
Copper	S4UL	68000	280		33	78	110	130	89	280	8.7			61
Cyanide - Free	ATK	34	<LoD		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			<0.50
Lead	C4SL	2300	250		29	150	220	42	250	210	50			100
Mercury	S4UL	1100	0.62		0.06	0.28	0.62	0.12	0.58	0.16	<0.05			0.32
Nickel	S4UL	980	56		32	56	39	31	49	43	9.9			35
Selenium	S4UL	12000	2.1		<0.25	<0.25	2.1	<0.25	<0.25	1.1	0.26			1.3
Vanadium	S4UL	9000	56		29	56	54	38	50	34	11			47
Zinc	S4UL	730000	260		100	190	260	84	180	110	120			140
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			
Inorganics - Soil Parameters														
Organic matter		N/A			1.2	7.7	6.7	26	7.8	26	13			5.3
Organics - PAH & Phenol														
Acenaphthene	S4UL	84000	4.2		<0.10	<0.50	4.2	<0.10	0.13	0.17	<0.10			<0.50
Acenaphthylene	S4UL	83000	0.14		<0.10	<0.10	0.14	<0.10	<0.10	<0.50	<0.10			<0.50
Anthracene	S4UL	520000	5.4		<0.10	<0.50	5.4	0.1	<0.50	1.1	<0.10			<0.50
Benzo(a)anthracene	S4UL	170	13		<0.10	0.79	13	0.24	0.78	3.5	<0.10			0.77
Benzo(a)pyrene	C4SL	77	12		<0.10	0.75	12	<0.10	0.73	2.9	<0.10			0.71
Benzo(b)fluoranthene	S4UL	44	15		<0.10	1	15	<0.10	<0.50	4	<0.10			0.94
Benzo(ghi)perylene	S4UL	3900	6.5		<0.10	<0.50	6.5	<0.10	<0.50	0.39	<0.10			<0.50
Benzo(k)fluoranthene	S4UL	1200	5.7		<0.10	0.83	5.7	<0.10	0.24	0.41	<0.10			<0.50
Chrysene	S4UL	350	13		<0.10	0.86	13	0.28	0.64	0.79	<0.10			0.87
Dibenz(a,h)anthracene	S4UL	3.5	1.5		<0.10	<0.50	1.5	<0.10	<0.50	<0.50	<0.10			<0.50
Fluoranthene	S4UL	23000	29		<0.10	4.3	29	0.46	1.2	7.2	<0.10			1.6
Fluorene	S4UL	63000	3		<0.10	<0.50	3	<0.10	<0.50	0.67	<0.10			<0.50
Indeno(1,2,3-cd)pyrene	S4UL	500	6.8		<0.10	<0.50	6.8	<0.10	<0.50	0.48	<0.10			<0.50
Naphthalene	C4SL	1600	3.6		<0.10	<0.50	3.6	0.54	<0.50	1.2	<0.10			<0.50
Phenanthrene	S4UL	22000	24		<0.10	0.9	24	0.55	0.83	6.3	<0.10			1.2
Phenol	S4UL	440	0.28		<0.10	<0.50	0.28	<0.10	<0.50	<0.50	<0.10			<0.50
Pyrene	S4UL	54000	24		<0.10	3.4	24	0.4	0.75	1.4	<0.10			1.5
Organics - TPH CWG and BTEX														
Benzene	C4SL	98	<LoD		<0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	S4UL	56000	0.004		0.004				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	S4UL	5700	<LoD		<0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
o-Xylene	S4UL	6600	<LoD		<0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
m & p-xylene	S4UL	5900	<LoD		<0.001				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes (sum of)	S4UL	5900	<LoD		<LoD				<LoD	<LoD	<LoD	<LoD	<LoD	<LoD
EC05 - EC06 Aliphatic	S4UL	3200	<LoD		<0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EC>06 - EC08 Aliphatic	S4UL	7800	<LoD		<0.10				<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
EC>08 - EC10 Aliphatic	S4UL	2000	<LoD		<0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EC>10 - EC12 Aliphatic	S4UL	9700	2.9		<2.0				<2.0	<2.0	2.9	<2.0	<2.0	<2.0
EC>12 - EC16 Aliphatic	S4UL	59000	12		<1.0				<1.0	5.5	12	4.6	4.6	4.6
EC>16 - EC21 Aliphatic	S4UL	1600000	6.8		3.7				2.2	3.7	6.8	2.6	3.5	3.5
EC>21 - EC35 Aliphatic	S4UL	1600000	33		31				15	33	30	4.1	33	33
EC>35 - EC40 Aliphatic	ERROR	ERROR	16		<10				<10	12	<10	<10	16	16
EC5 - EC7 (benzene)	S4UL	26000	<LoD		<0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EC7 - >EC8 (toluene)	S4UL	56000	<LoD		<0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EC>08 - EC10 Aromatic	S4UL	3500	<LoD		<0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EC>10 - EC12 Aromatic	S4UL	16000	<LoD		<1.0				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
EC>12 - EC16 Aromatic	S4UL	36000	8.5		<1.0				<1.0	8.5	2.9	<1.0	<1.0	<1.0
EC>16 - EC21 Aromatic	S4UL	28000	43		2.6				4.7	43	31	<2.0	15	15
EC>21 - EC35 Aromatic	S4UL	28000	63		7.8				14	63	47	<2.0	33	33
EC>35 - EC44 Aromatic	S4UL	28000	9		<1.0				1.1	5.5	9	2.1	4.7	4.7
Organics - Banded TPH (unspciated)														
EC>5-EC6 (unspciated)	S4UL	3200	<LoD		<1.0						<1.0			
EC>6-EC7 (unspciated)	S4UL	7800	<LoD		<1.0						<1.0			
EC>7-EC8 (unspciated)	S4UL	7800	<LoD		<1.0						<1.0			
EC>08-EC10 (unspciated)	S4UL	2000	<LoD		<1.0						<1.0			
EC>10-EC12 (unspciated)	S4UL	9700	25		<1.0		25	<1.0			<1.0			
EC>12-EC16 (unspciated)	S4UL	36000	45		<1.0		45	6.2			1.1			
EC>16-EC21 (unspciated)	S4UL	28000	220		<1.0		220	10			12			
EC>21-EC35 (unspciated)	S4UL	28000	890		<1.0		470	19			890			

Chronic human health risk (soils)

Scenario	
End user	Current and proposed site user
Receptor	Industrial/Commercial
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	WLS06	WLS07	WLS08
				Depth (m)	0.50	0.20	0.50
				Date	J24-10-08T08:J24-10-08T09:J24-10-08T11		
Inorganics - Metals							
Arsenic	C4SL	640	44			1.9	29
Beryllium	S4UL	12	2.8		< 0.5		1.7
Boron	S4UL	240000	2.1		< 0.40		2.1
Cadmium	C4SL	410	1.3			1.2	0.88
Chromium (III)	S4UL	8600	50			4.3	27
Chromium (VI)	C4SL	49	<LoD		< 0.50	< 0.50	
Copper	S4UL	68000	280			7.3	91
Cyanide - Free	ATK	34	<LoD		< 0.50	< 0.50	
Lead	C4SL	2300	250			32	150
Mercury	S4UL	1100	0.62			< 0.05	0.24
Nickel	S4UL	980	56			8.2	47
Selenium	S4UL	12000	2.1		< 0.25		2
Vanadium	S4UL	9000	56			7.3	37
Zinc	S4UL	730000	260			86	150
Inorganics - Asbestos							
Asbestos Type		N/A				-	-
Asbestos Screen		N/A			No Asbestos Detected	No Asbestos Detected	
Inorganics - Soil Parameters							
Organic matter		N/A			11	7.8	
Organics - PAH & Phenol							
Acenaphthene	S4UL	84000	4.2		< 0.10		0.5
Acenaphthylene	S4UL	83000	0.14		< 0.10	< 0.10	
Anthracene	S4UL	520000	5.4		< 0.10		0.57
Benzo(a)anthracene	S4UL	170	13		< 0.10		1.8
Benzo(a)pyrene	C4SL	77	12		< 0.10		1.6
Benzo(b)fluoranthene	S4UL	44	15		< 0.10		2.1
Benzo(ghi)perylene	S4UL	3900	6.5		< 0.10		0.98
Benzo(k)fluoranthene	S4UL	1200	5.7		< 0.10		0.74
Chrysene	S4UL	350	13		< 0.10		2
Dibenz(a,h)anthracene	S4UL	3.5	1.5		< 0.10	< 0.10	
Fluoranthene	S4UL	23000	29		< 0.10		4.1
Fluorene	S4UL	63000	3		< 0.10		0.4
Indeno(1,2,3-cd)pyrene	S4UL	500	6.8		< 0.10		1
Naphthalene	C4SL	1600	3.6		< 0.10		0.88
Phenanthrene	S4UL	22000	24		< 0.10		3.2
Phenol	S4UL	440	0.28		< 0.10	< 0.10	
Pyrene	S4UL	54000	24		< 0.10		3.5
Organics - TPH CWG and BTEX							
Benzene	C4SL	98	<LoD		< 0.001		
Toluene	S4UL	56000	0.004		< 0.001		
Ethylbenzene	S4UL	5700	<LoD		< 0.001		
o-Xylene	S4UL	6600	<LoD		< 0.001		
m & p-xylene	S4UL	5900	<LoD		< 0.001		
Xylenes (sum of)	S4UL	5900	<LoD		< LoD		
EC05 - EC06 Aliphatic	S4UL	3200	<LoD		< 0.05		
EC>06 - EC08 Aliphatic	S4UL	7800	<LoD		< 0.10		
EC>08 - EC10 Aliphatic	S4UL	2000	<LoD		< 0.05		
EC>10 - EC12 Aliphatic	S4UL	9700	2.9		< 2.0		
EC>12 - EC16 Aliphatic	S4UL	59000	12		< 1.0		
EC>16 - EC21 Aliphatic	S4UL	1600000	6.8		< 2.0		
EC>21 - EC35 Aliphatic	S4UL	1600000	33		5.1		
EC>35 - EC40 Aliphatic	ERROR	ERROR	16		< 10		
EC5 - EC7 (benzene)	S4UL	26000	<LoD		< 0.05		
EC7 - >EC8 (toluene)	S4UL	56000	<LoD		< 0.05		
EC>08 - EC10 Aromatic	S4UL	3500	<LoD		< 0.05		
EC>10 - EC12 Aromatic	S4UL	16000	<LoD		< 1.0		
EC>12 - EC16 Aromatic	S4UL	36000	8.5		< 1.0		
EC>16 - EC21 Aromatic	S4UL	28000	43		3		
EC>21 - EC35 Aromatic	S4UL	28000	63		10		
EC>35 - EC44 Aromatic	S4UL	28000	9		1.5		
Organics - Banded TPH (unspeciated)							
EC>5-EC6 (unspeciated)	S4UL	3200	<LoD		< 1.0	< 1.0	
EC>6-EC7 (unspeciated)	S4UL	7800	<LoD		< 1.0	< 1.0	
EC>7-EC8 (unspeciated)	S4UL	7800	<LoD		< 1.0	< 1.0	
EC>08-EC10 (unspeciated)	S4UL	2000	<LoD		< 1.0	< 1.0	
EC>10-EC12 (unspeciated)	S4UL	9700	25		< 1.0	< 1.0	
EC>12-EC16 (unspeciated)	S4UL	36000	45		< 1.0	12	
EC>16-EC21 (unspeciated)	S4UL	28000	220		< 1.0	26	
EC>21-EC35 (unspeciated)	S4UL	28000	890		< 1.0	54	

Chronic human health risk (soils)

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

Contaminant	Guideline source	Guideline value	Max value	Location Depth (m)	CPT01	CPT03	CPT04	CPT07	CPT08	RBH01	WLS01	WLS02	WLS04	WLS05
					0.50	0.40	0.40	0.40	0.70	0.50	0.30	0.50	0.20	0.50
Organics - Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	S4UL	110	< LoD		< 0.002				< 0.002	< 0.002				< 0.002
1,1,1-Trichloroethane	S4UL	660	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
1,1,2-Trichloroethane	CL:AIRE	94	< LoD		< 0.01				< 0.01	< 0.01				< 0.01
1,1-Dichloroethane	CL:AIRE	280	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
1,1-Dichloroethene	CL:AIRE	26	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
1,1-Dichloropropene	NGA	NGA	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
1,2,3-Trichloropropane	NGA	NGA	< LoD		< 0.05				< 0.05	< 0.05				< 0.05
1,2,4-Trimethylbenzene	CL:AIRE	42	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
1,2-Dibromo-3-chloropropane	NGA	NGA	< LoD		< 0.05				< 0.05	< 0.05				< 0.05
1,2-Dibromoethane	NGA	NGA	< LoD		< 0.005				< 0.005	< 0.005				< 0.005
1,2-Dichloroethane	C4SL	12	< LoD		< 0.002				< 0.002	< 0.002				< 0.002
1,2-Dichloropropane	CL:AIRE	3.3	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
1,3,5-Trimethylbenzene	NGA	NGA	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
1,3-Dichloropropane	NGA	NGA	< LoD		< 0.002				< 0.002	< 0.002				< 0.002
2-Chlorotoluene	NGA	NGA	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
4-Chlorotoluene	NGA	NGA	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Bromobenzene	CL:AIRE	97	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Bromochloromethane	NGA	NGA	< LoD		< 0.005				< 0.005	< 0.005				< 0.005
Bromodichloromethane	CL:AIRE	2.1	< LoD		< 0.005				< 0.005	< 0.005				< 0.005
Bromoform	CL:AIRE	760	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Bromomethane	NGA	NGA	< LoD		< 0.02				< 0.02	< 0.02				< 0.02
Carbon Tetrachloride	S4UL	2.9	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Chlorobenzene	S4UL	56	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Chloroethane	CL:AIRE	960	< LoD		< 0.002				< 0.002	< 0.002				< 0.002
Chloroform	S4UL	99	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Chloromethane	CL:AIRE	1	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
cis-1,2-Dichloroethene	CL:AIRE	14	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
cis-1,3-Dichloropropene	NGA	NGA	< LoD		< 0.01				< 0.01	< 0.01				< 0.01
Dibromochloromethane	ATK	9.27	< LoD		< 0.01				< 0.01	< 0.01				< 0.01
Dibromomethane	NGA	NGA	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Dichlorodifluoromethane	NGA	NGA	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Isopropylbenzene	CL:AIRE	1400	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
MTBE	CL:AIRE	7900	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
n-Butylbenzene	NGA	NGA	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
n-Propylbenzene	CL:AIRE	4100	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
p-Isopropyltoluene	NGA	NGA	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
sec-Butylbenzene	NGA	NGA	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Styrene	CL:AIRE	3300	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
tert-Butylbenzene	NGA	NGA	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Tetrachloroethene	C4SL	24	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
trans-1,2-Dichloroethene	CL:AIRE	22	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
trans-1,3-Dichloropropene	NGA	NGA	< LoD		< 0.01				< 0.01	< 0.01				< 0.01
Trichloroethene	C4SL	0.73	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Trichlorofluoromethane	NGA	NGA	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Vinyl Chloride	C4SL	1.1	< LoD		< 0.001				< 0.001	< 0.001				< 0.001

Chronic human health risk (soils)

Scenario	
End user	Current and proposed site user
Receptor	Industrial/Commercial
SOM	1.00%
GAC Preference	C4SLs over S4ULs
Unspeciated TPH GAC	Worst-case aliphatic/aromatic

Contaminant	Guideline source	Guideline value	Max value	Location	WLS06	WLS07	WLS08
				Depth (m)	0.50	0.20	0.50
Organics - Volatile Organic Compounds (VOCs)							
1,1,1,2-Tetrachloroethane	S4UL	110	< LoD				
1,1,1-Trichloroethane	S4UL	660	< LoD				
1,1,2-Trichloroethane	CL:AIRE	94	< LoD				
1,1-Dichloroethane	CL:AIRE	280	< LoD				
1,1-Dichloroethene	CL:AIRE	26	< LoD				
1,1-Dichloropropene	NGA	NGA	< LoD				
1,2,3-Trichloropropane	NGA	NGA	< LoD				
1,2,4-Trimethylbenzene	CL:AIRE	42	< LoD				
1,2-Dibromo-3-chloropropane	NGA	NGA	< LoD				
1,2-Dibromoethane	NGA	NGA	< LoD				
1,2-Dichloroethane	C4SL	12	< LoD				
1,2-Dichloropropane	CL:AIRE	3.3	< LoD				
1,3,5-Trimethylbenzene	NGA	NGA	< LoD				
1,3-Dichloropropane	NGA	NGA	< LoD				
2-Chlorotoluene	NGA	NGA	< LoD				
4-Chlorotoluene	NGA	NGA	< LoD				
Bromobenzene	CL:AIRE	97	< LoD				
Bromochloromethane	NGA	NGA	< LoD				
Bromodichloromethane	CL:AIRE	2.1	< LoD				
Bromoform	CL:AIRE	760	< LoD				
Bromomethane	NGA	NGA	< LoD				
Carbon Tetrachloride	S4UL	2.9	< LoD				
Chlorobenzene	S4UL	56	< LoD				
Chloroethane	CL:AIRE	960	< LoD				
Chloroform	S4UL	99	< LoD				
Chloromethane	CL:AIRE	1	< LoD				
cis-1,2-Dichloroethene	CL:AIRE	14	< LoD				
cis-1,3-Dichloropropene	NGA	NGA	< LoD				
Dibromochloromethane	ATK	9.27	< LoD				
Dibromomethane	NGA	NGA	< LoD				
Dichlorodifluoromethane	NGA	NGA	< LoD				
Isopropylbenzene	CL:AIRE	1400	< LoD				
MTBE	CL:AIRE	7900	< LoD				
n-Butylbenzene	NGA	NGA	< LoD				
n-Propylbenzene	CL:AIRE	4100	< LoD				
p-Isopropyltoluene	NGA	NGA	< LoD				
sec-Butylbenzene	NGA	NGA	< LoD				
Styrene	CL:AIRE	3300	< LoD				
tert-Butylbenzene	NGA	NGA	< LoD				
Tetrachloroethene	C4SL	24	< LoD				
trans-1,2-Dichloroethene	CL:AIRE	22	< LoD				
trans-1,3-Dichloropropene	NGA	NGA	< LoD				
Trichloroethene	C4SL	0.73	< LoD				
Trichlorofluoromethane	NGA	NGA	< LoD				
Vinyl Chloride	C4SL	1.1	< LoD				

Chronic human health risk (soils)

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

Contaminant	Guideline source	Guideline value	Max value	Location Depth (m)	CPT01	CPT03	CPT04	CPT07	CPT08	RBH01	WLS01	WLS02	WLS04	WLS05
					0.50	0.40	0.40	0.40	0.70	0.50	0.30	0.50	0.20	0.50
Organics - Semi-Volatile Organic Compounds (SVOCs)														
Chlorophenols (sum of)	S4UL	3500	< LoD			< LoD			< LoD	< LoD				< LoD
Cresols (sum of)	CL:AIRE	16000	< LoD		0				0	0				0
o-Cresol	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
1,2,4-Trichlorobenzene	S4UL	220	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
1,2-Dichlorobenzene	S4UL	2000	< LoD		< 0.50				< 0.001	< 0.001				< 0.001
1,3-Dichlorobenzene	S4UL	30	< LoD		< 0.001				< 0.50	< 0.50				< 0.001
1,4-Dichlorobenzene	S4UL	4400	< LoD		< 0.001				< 0.001	< 0.50				< 0.001
2,4,5-Trichlorophenol	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
2,4,6-Trichlorophenol	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
2,4-Dichlorophenol	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
2,4-Dimethylphenol	CL:AIRE	16000	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
2,4-Dinitrotoluene	CL:AIRE	3700	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
2,6-Dinitrotoluene	CL:AIRE	1900	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
2-Chloronaphthalene	CL:AIRE	390	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
2-Chlorophenol	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
2-Methylnaphthalene	NGA	NGA	1.2		< 0.50				< 0.50	1.2				< 0.50
2-Nitroaniline	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
2-Nitrophenol	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
3-Nitroaniline	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
4-Bromophenyl phenyl ether	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
4-Chloro-3-methylphenol	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
4-Chloroaniline	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
4-Chlorophenyl phenyl ether	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
4-Nitroaniline	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
4-Nitrophenol	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
Azobenzene	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
Benzyl butyl phthalate	CL:AIRE	940000	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
bis(2-chloroethoxy)methane	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
bis(2-chloroethyl)ether	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
bis(2-ethylhexyl)phthalate	CL:AIRE	85000	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
Carbazole	NGA	NGA	0.59		< 0.50				< 0.50	0.59				< 0.50
Dibenzofuran	NGA	NGA	0.92		< 0.50				< 0.50	0.92				< 0.50
Dibutyl phthalate	CL:AIRE	15000	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
Diethyl phthalate	CL:AIRE	150000	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
Dimethyl phthalate	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
Di-n-octyl phthalate	CL:AIRE	89000	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
Hexachlorobenzene	S4UL	110	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
Hexachlorobutadiene	S4UL	31	< LoD		< 0.001				< 0.001	< 0.001				< 0.001
Hexachloroethane	CL:AIRE	22	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
Isophorone	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
Nitrobenzene	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50
p-Cresol	NGA	NGA	< LoD		< 0.50				< 0.50	< 0.50				< 0.50

Chronic human health risk (soils)

Scenario	
End user	Current and proposed site user
Receptor	Industrial/Commercial
SOM	1.00%
GAC Preference	CASLs over S4ULs
Unspeciated TPH GAC	Worst-case aliphatic/aromatic

Contaminant	Guideline source	Guideline value	Max value	Location	WLS06	WLS07	WLS08
				Depth (m)	0.50	0.20	0.50
Organics - Semi-Volatile Organic Compounds (SVOCs)							
Chlorophenols (sum of)	S4UL	3500	< LoD				
Cresols (sum of)	CL:AIRE	16000	< LoD				
o-Cresol	NGA	NGA	< LoD				
1,2,4-Trichlorobenzene	S4UL	220	< LoD				
1,2-Dichlorobenzene	S4UL	2000	< LoD				
1,3-Dichlorobenzene	S4UL	30	< LoD				
1,4-Dichlorobenzene	S4UL	4400	< LoD				
2,4,5-Trichlorophenol	NGA	NGA	< LoD				
2,4,6-Trichlorophenol	NGA	NGA	< LoD				
2,4-Dichlorophenol	NGA	NGA	< LoD				
2,4-Dimethylphenol	CL:AIRE	16000	< LoD				
2,4-Dinitrotoluene	CL:AIRE	3700	< LoD				
2,6-Dinitrotoluene	CL:AIRE	1900	< LoD				
2-Chloronaphthalene	CL:AIRE	390	< LoD				
2-Chlorophenol	NGA	NGA	< LoD				
2-Methylnaphthalene	NGA	NGA	1.2				
2-Nitroaniline	NGA	NGA	< LoD				
2-Nitrophenol	NGA	NGA	< LoD				
3-Nitroaniline	NGA	NGA	< LoD				
4-Bromophenyl phenyl ether	NGA	NGA	< LoD				
4-Chloro-3-methylphenol	NGA	NGA	< LoD				
4-Chloroaniline	NGA	NGA	< LoD				
4-Chlorophenyl phenyl ether	NGA	NGA	< LoD				
4-Nitroaniline	NGA	NGA	< LoD				
4-Nitrophenol	NGA	NGA	< LoD				
Azobenzene	NGA	NGA	< LoD				
Benzyl butyl phthalate	CL:AIRE	940000	< LoD				
bis(2-chloroethoxy)methane	NGA	NGA	< LoD				
bis(2-chloroethyl)ether	NGA	NGA	< LoD				
bis(2-ethylhexyl)phthalate	CL:AIRE	85000	< LoD				
Carbazole	NGA	NGA	0.59				
Dibenzofuran	NGA	NGA	0.92				
Dibutyl phthalate	CL:AIRE	15000	< LoD				
Diethyl phthalate	CL:AIRE	150000	< LoD				
Dimethyl phthalate	NGA	NGA	< LoD				
Di-n-octyl phthalate	CL:AIRE	89000	< LoD				
Hexachlorobenzene	S4UL	110	< LoD				
Hexachlorobutadiene	S4UL	31	< LoD				
Hexachloroethane	CL:AIRE	22	< LoD				
Isophorone	NGA	NGA	< LoD				
Nitrobenzene	NGA	NGA	< LoD				
p-Cresol	NGA	NGA	< LoD				

Acute human health risk (soils)

Scenario	Occupational exposure (construction worker)
Critical receptor	Adult female worker
Oral exposure	Ingestion of soil and dusts over a single working day
Demal exposure	Soil being left on the skin for several hours, assumed no PPE worn
Inhalation exposure	30 mins exposure - worker standing adjacent to active excavation (assumed no RPE)

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	CPT01	CPT03	CPT04	CPT07	CPT08	RBH01	WLS01	WLS02	WLS04	WLS05	WLS06
					Depth (m)	0.50	0.40	0.40	0.40	0.70	0.50	0.30	0.50	0.20	0.50	0.50
					Date	24-10-08T12:00:00	24-10-09T11:00:00	24-10-09T09:00:00	24-10-08T13:00:00	24-10-07T11:00:00	24-10-09T07:00:00	24-10-07T09:00:00	24-10-07T11:00:00	24-10-07T13:00:00	24-10-07T14:00:00	24-10-08T08:00:00
Inorganics																
Arsenic	AGAC	Oral	7,000	44		6.9	27	44	29	39	30	2.6			36	
Cadmium	AGAC	Oral	12,000	1.3		< 0.10	0.5	0.98	< 0.10	0.58	0.47	1.3			0.37	
Cyanide - Free	AGAC	Oral & Inhalation	1,400	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	
Organics																
Benzene	AGAC	Inhalation	240	<LoD			< 0.001			< 0.001	< 0.001		< 0.001	< 0.001	< 0.001	< 0.001
Phenol	AGAC	**sat.**	**sat.**	0.28		< 0.10	< 0.50	0.28	< 0.10	< 0.50	< 0.50	< 0.10			< 0.50	
Trichloroethene	AGAC	Inhalation	16,000	<LoD			< 0.001			< 0.001	< 0.001				< 0.001	
Vinyl Chloride	AGAC	Inhalation	220	<LoD			< 0.001			< 0.001	< 0.001				< 0.001	

Acute human health risk (soils)

Scenario	Occupational exposure (construction worker)
Critical receptor	Adult female worker
Oral exposure	Ingestion of soil and dusts over a single working day
Demal exposure	Soil being left on the skin for several hours, assumed no PPE worn
Inhalation exposure	30 mins exposure - worker standing adjacent to active excavation (assumed no RPE)

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	WLS07	WLS08
					Depth (m)	0.20	0.50
					Date	24-10-08T09:00:00	24-10-08T11:00:00
Inorganics							
Arsenic	AGAC	Oral	7,000	44		1.9	29
Cadmium	AGAC	Oral	12,000	1.3		1.2	0.88
Cyanide - Free	AGAC	Oral & Inhalation	1,400	<LoD		< 0.50	< 0.50
Organics							
Benzene	AGAC	Inhalation	240	<LoD			
Phenol	AGAC	**sat.**	**sat.**	0.28		< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	16,000	<LoD			
Vinyl Chloride	AGAC	Inhalation	220	<LoD			

Appendix J Waste Characterisation Analysis

Waste Classification Assessment Summary

Waste population	Made Ground - Gran/Coh
Hazard assessment	Non-hazardous waste
List of waste code	17-05-04
List of waste description	Soil and stones other than those mentioned in 17-05-03

Hazard property	Assessment
HP1 - Explosive	Not hazardous by HP1
HP2 - Oxidising	Not hazardous by HP2
HP3 - Flammable	Not hazardous by HP3
HP4 - Irritant	Not hazardous by HP4
HP5 - STOT & aspiration toxicity	Not hazardous by HP5
HP6 - Acute toxicity	Not hazardous by HP6
HP7 - Carcinogenic	Not hazardous by HP7
HP8 - Corrosive	Not hazardous by HP8
HP9 - Infectious	Not hazardous by HP9
HP10 - Toxic for reproduction	Not hazardous by HP10
HP11 - Mutagenic	Not hazardous by HP11
HP12 - Release of an acute toxic gas	Not hazardous by HP12
HP13 - Sensitising	Not hazardous by HP13
HP14 - Ecotoxic	Not hazardous by HP14

Waste classification

Overall assessment	
Waste population	Made Ground - Gran/Coh
Hazard assessment	Non-hazardous waste
List of Waste code	17-05-04
List of waste description	Soil and stones other than those mentioned in 17-05-01
Is the statistical approach non-parametric method 8 utilised?	No
Moisture content correction factor	No correction made

Asbestos assessment		
Query	Value	Assessment
Are bulk ACMs visually identifiable?	No	Non-hazardous
Have free fibres been detected?	No	Non-hazardous
What is the free fibre concentration (%)?	N/A	Non-hazardous

Flammability assessment	
Comment	Assessment
The waste is not considered flammable as it is a solid waste without a free draining liquid phase, and the TPH concentration and composition is not considered to present a likely flammable hazard.	Non-hazardous

Hydrocarbon assessment	
Query	Assessment
Is the origin of the oil contamination known?	Unknown oil
R(AP) - TPH ratio (%)	Not required
R(AP) marker assessment	Not required

pH assessment		
Query	Value	Assessment
Are all substances present in the waste known?	No	See pH assessment below
pH - Min	6.90	Non-hazardous
pH - Max	9.20	Non-hazardous

Oxidising assessment	
Comment	Assessment
Cr (VI) is the only compound with an oxidising hazard statement (H371). On review, the concentration is considered too low to present a viable oxidising hazard in a waste soil	Non-hazardous

Ecotoxic assessment			
Equation	Sum	Criteria	Assessment
WM3 Eq. 2	0.00%	25%	Non-hazardous
WM3 Eq. 3	0.00%	25%	Non-hazardous
WM3 Eq. 4	0.00%	25%	Non-hazardous

Compound hazard assessments

Hazard Property Description					Irritant		Specific Target Organ Toxicity / Aspiration Toxicity				Acute Toxicity								Carcinogenic	Corrosive	Toxic for reproduction		Mutagenic		Sensitising		Ecotoxic				Substance specific concentration limits																		
																															STOT		Car.	Repr.															
Hazard Property					HP4		HP5				HP6								HP7		HP8		HP10		HP11		HP13		HP14				HP5		HP7	HP10													
Contaminant	Max. concentration (mg/kg)	Realistic worst case compound	Mass conversion factor	Hazard Class / Compound concentration (%)	Skin Corr.1A	Skin Irrit.2 Eye Irrit.2	Eye Dam.1	Asp.Tox.1	STOT SE.3	STOT RE.1	STOT RE.2	Acute Tox.2 (Oral)	Acute Tox.3 (Oral)	Acute Tox.4 (Oral)	Acute Tox.1 (Dermal)	Acute Tox.2 (Dermal)	Acute Tox.3 (Dermal)	Acute Tox.4 (Dermal)	Acute Tox.1 (Inhal)	Acute Tox.2 (Inhal)	Acute Tox.3 (Inhal)	Acute Tox.4 (Inhal)	Car.1A Car.1B	Car.2	Skin Corr.1A Skin Corr.1B	Repr.1A Repr.1B	Repr.2	Muta.1A Muta.1B	Muta.2	Skin Sens.1	Resp. Sens. 1	Aquatic Acute.1	Aquatic Chronic.1	Aquatic Chronic.2	Aquatic Chronic.4	STOT SE.3	STOT RE.1	STOT RE.2	STOT RE.2	Car.1B	Repr.2								
Cyanide - Total	0.5	Salts of hydrogen cyanide, using sodium cyanide	1.88	N/A	0.000							0.000																																					
Arsenic	44.0	Nickel diarsenide	1.78	N					0.008														0.008																										
Arsenic (secondary)	44.0	Arsenic trioxide	1.32	N	0.006							0.006																																					
Beryllium	2.8	Beryllium oxide	2.78	N		0.001																																											
Cadmium	1.3	Cadmium sulfide	1.29	N																																													
Cadmium (secondary)	1.3	Cadmium oxide	1.14	N																																													
Chromium (III)	50.0	Chromium (III) oxide	1.46	N		0.007																																											
Chromium (VI)	0.5	Chromium (VI) trioxide	1.82	N/A	0.000																																												
Copper	280.0	Copper (I) oxide	1.25	N																																													
Copper (secondary)	280.0	Copper(II) oxide	1.13	N			0.032																																										
Lead	250.0	Lead compound, using lead sulphate	1.46	N																																													
Mercury	0.6	Mercury dichloride	1.35	N	0.000																																												
Nickel	56.0	Nickel carbonate	2.82	N		0.011																																											
Selenium	2.1	Selenium compound, using selenium dioxide	1.41	N																																													
Zinc	260.0	Zinc sulphide	1.49	N		0.039																																											
Vanadium	56.0	Vanadium pentoxide	1.79	N																																													
Naphthalene	3.6	Naphthalene	1	N/A																																													
Acenaphthylene	0.1	Acenaphthylene	1	N/A		0.000																																											
Acenaphthene	4.2	Acenaphthene	1	N/A		0.000																																											
Fluorene	3.0	Fluorene	1	N/A		0.000																																											
Phenanthrene	24.0	Phenanthrene	1	N/A		0.002																																											
Anthracene	5.4	Anthracene	1	N/A		0.001																																											
Fluoranthene	29.0	Fluoranthene	1	N/A		0.003																																											
Pyrene	24.0	Pyrene	1	N/A		0.002																																											
Benzo(a)anthracene	13.0	Benzo(a)anthracene	1	N/A		0.001																																											
Chrysene	13.0	Chrysene	1	N/A		0.001																																											
Benzo(b)fluoranthene	15.0	Benzo(b)fluoranthene	1	N/A		0.002																																											
Benzo(k)fluoranthene	5.7	Benzo(k)fluoranthene	1	N/A		0.001																																											
Benzo(a)pyrene	12.0	Benzo(a)pyrene	1	N/A		0.001																																											
Indeno(1,2,3-cd)pyrene	6.8	Indeno(1,2,3-cd)pyrene	1	N/A		0.001																																											
Dibenz(a,h)anthracene	1.5	Dibenz(a,h)anthracene	1	N/A		0.000																																											
Benzo(ghi)perylene	6.5	Benzo(ghi)perylene	1	N/A		0.001																																											
Total TPH	910.0	Unknown oil	1	N/A					0.091			0.091																																					
Benzene	0.0	Benzene	1	N/A		0.000																																											
Toluene	0.0	Toluene	1	N/A		0.000																																											
Ethylbenzene	0.0	Ethylbenzene	1	N/A		0.000																																											
Xylenes	0.00	Xylenes	1	N/A		0.000				</																																							

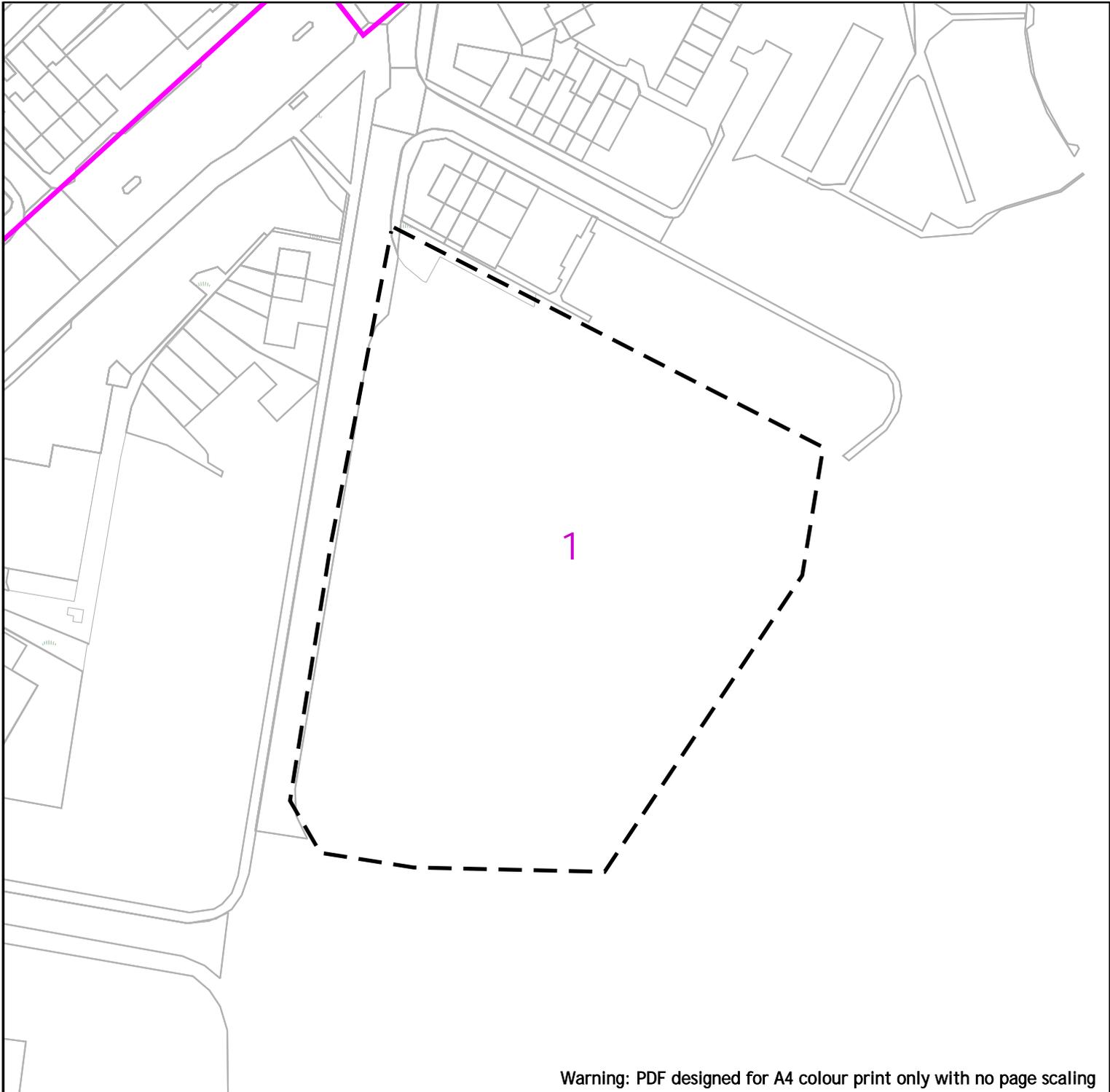
Waste acceptance

Parameter	Inert waste landfill	Stable non-reactive hazardous waste in a non-hazardous landfill cell (SNRHW)	Hazardous waste landfill	Location	
				Depth (m)	
				Date	
Parameters determined on the waste				CPT01	RBH01
				0.50	0.50
				2024-10-08T12:00:00	2024-10-09T07:44:00
Total organic carbon	3	5	6	0.64	9.5
Loss on ignition			10	3.6	4.2
BTEX	6			< 0.010	< 0.010
PCBs (7 congeners)	1			< 0.10	< 0.10
Mineral oil	500			< 10	31
PAH (17 congeners)	100			< 2.0	11
pH		6		8	7.9
Acid neutralisation capacity (pH 6)		To be evaluated	To be evaluated	0.004	0.009
Limit values (mg kg⁻¹) for compliance test using BN 12457-3 at L/S 10 l					
Arsenic	0.5	2	25	0.004	0.016
Barium	20	100	300	< 0.0005	0.27
Cadmium	0.04	1	5	< 0.00011	< 0.00011
Chromium (III)	0.5	10	70	0.0048	< 0.0005
Copper	2	50	100	0.0013	0.027
Mercury	0.01	0.2	2	< 0.00005	< 0.00005
Molybdenum	0.5	10	30	0.0048	0.055
Nickel	0.4	10	40	< 0.0005	0.0029
Lead	0.5	10	50	0.0086	< 0.0005
Antimony	0.06	0.7	5	< 0.0005	0.029
Selenium	0.1	0.5	7	< 0.0005	0.0011
Zinc	4	50	200	0.058	0.06
Chloride	800	15,000	25,000	37	< 10
Fluoride	10	150	500	2.1	2.2
Sulphate	1,000	20,000	50,000	43	520
Total dissolved solids	4,000	60,000	100,000	370	1800
Phenol	1			< 0.50	< 0.50
Dissolved organic carbon	500	800	1000	57	76
Classifications					
Waste classification				Non-hazardous	Non-hazardous
Landfill type				Inert	Non-hazardous

Key Notes:

- 1) The values for total dissolved solids (TDS) can be used alternatively to the values for sulphate and chloride.
- 2) Soils with TOC values over the limit value may still be accepted provided the DOC value falls are below it's respective limit value.
- 3) In a hazardous waste, either the TOC or LOI must be used.

Appendix K Utility Service Plans

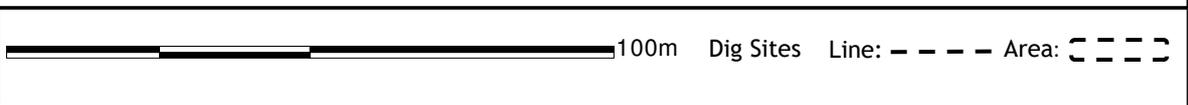


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Contact us:
plantprotection@eunetworks.com

Date Requested: 27/09/2024
 Job Reference: 34875260
 Site Location: 415134 417572
 Requested by: Miss Lauren Wenham
 Your Scheme/Reference: STW6714

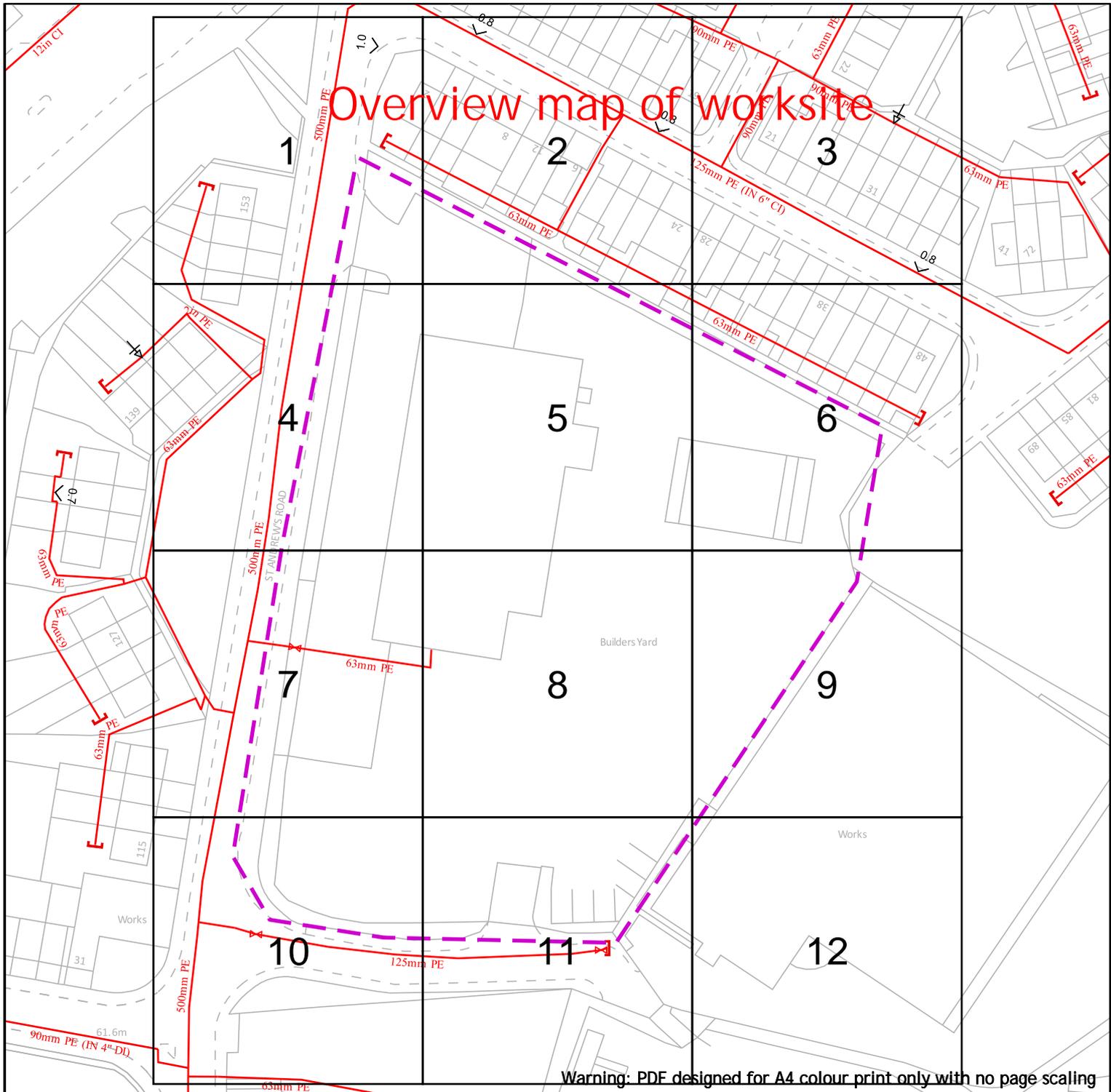


Key		
Duct		
Long-haul (LHN) Duct		
Chamber Location		

IMPORTANT WARNING

The information supplied is given in good faith as a guide to locating underground apparatus. Its accuracy cannot be guaranteed, nor does it include comprehensive information about the existence or location of service pipes or cables to individual premises. The responsibility for locating and avoiding damage to apparatus on site shall be that of the persons proposing to excavate in the street shall be liable to the apparatus owner and any third party who may be affected in any way for any loss or damage caused by their failure to do so.

**IF IN DOUBT PLEASE ASK!
 PHONE: 07896 087585**



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Northern Gas Networks

Contact Us

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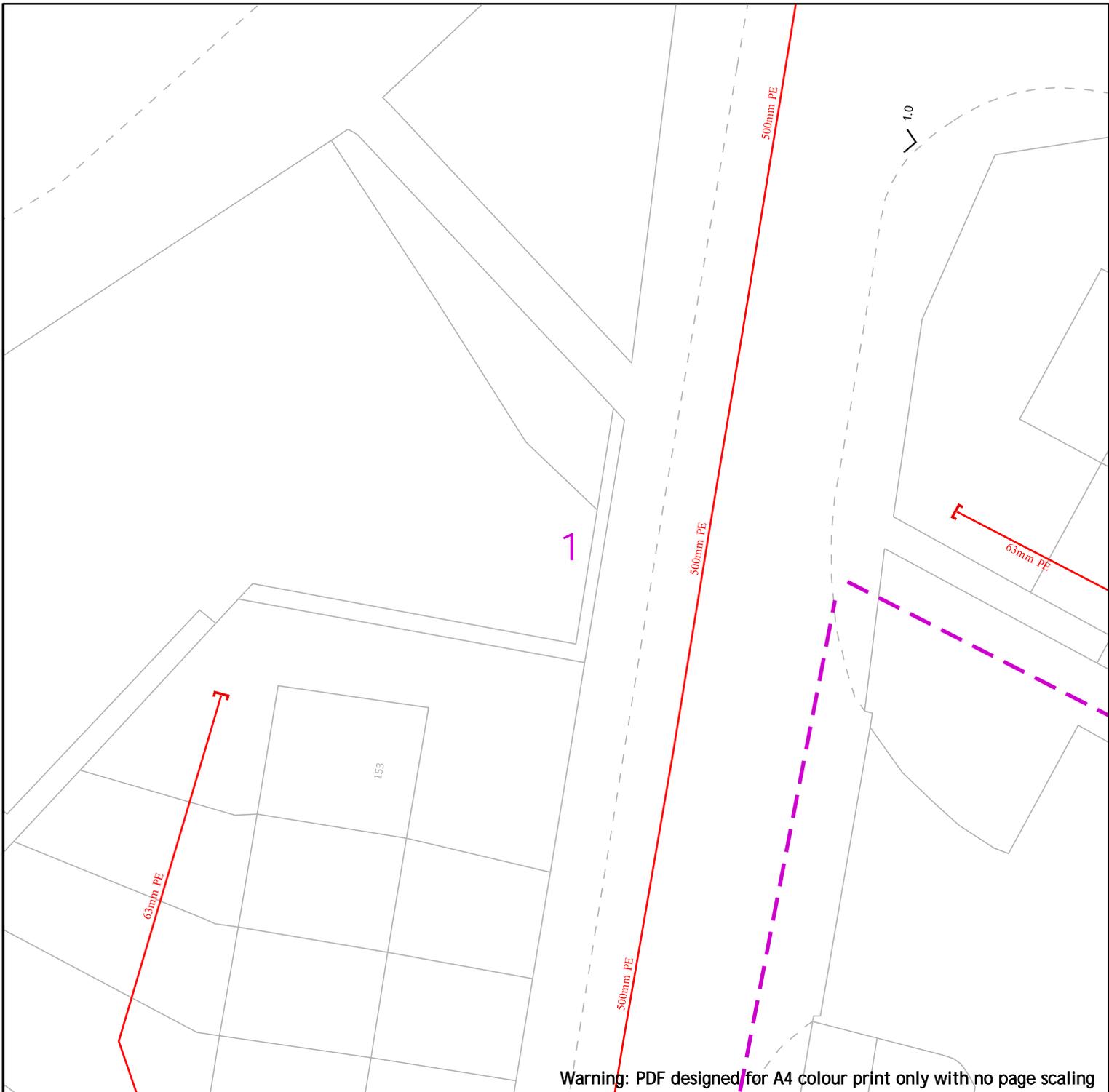
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Pipes Intermediate Pressure Medium Pressure Low Pressure Transmission Pipe Regional High Pressure Asset Protection Cathodic Slabbed Sleeved	Network Plant Flow Stop - Open Flow Stop - Closed Valve - Open Valve - Closed Transmission Valve - Open Transmission Valve - Closed	Network Asset CP Point Dip Point Drain Point End Closure Flow Measure Gas Conditioner Governor MEG Point Meter OMR Oiling Point	Network Asset (continued) Pig Trap Pipe Joint Pressure Measurement Purge Point Reducer Stand Pipe Syphon Tee Test Point	Non-Network Asset Outlet Inlet Depth of Cover Crossover Connection Change in Material Change in Diameter	Dig Sites Area: Line: NTS IGT Area IGT Site Infill Site LPG Site OMR's Pipeline Contact Zone Environment SAM SSSI
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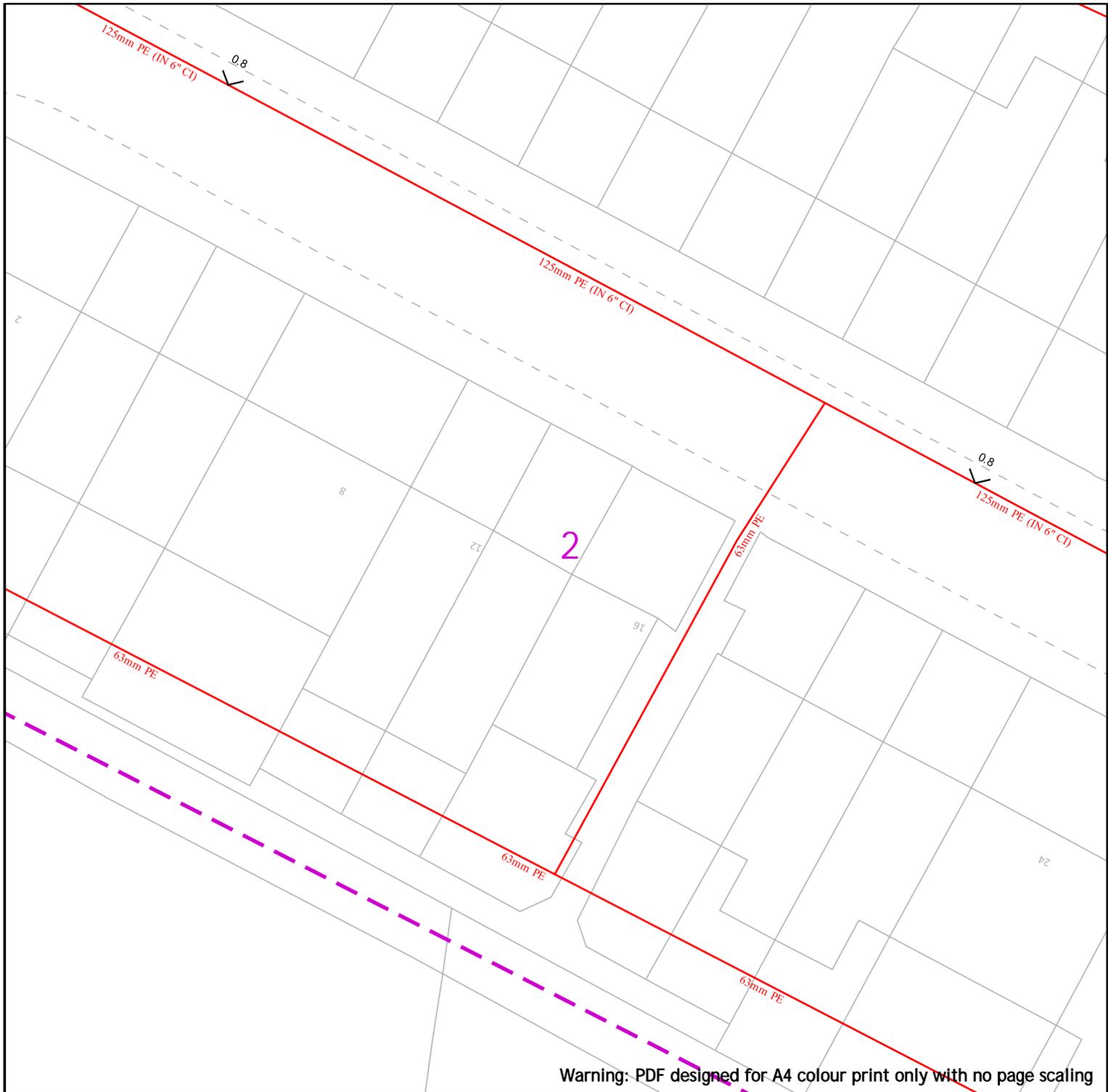
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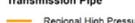
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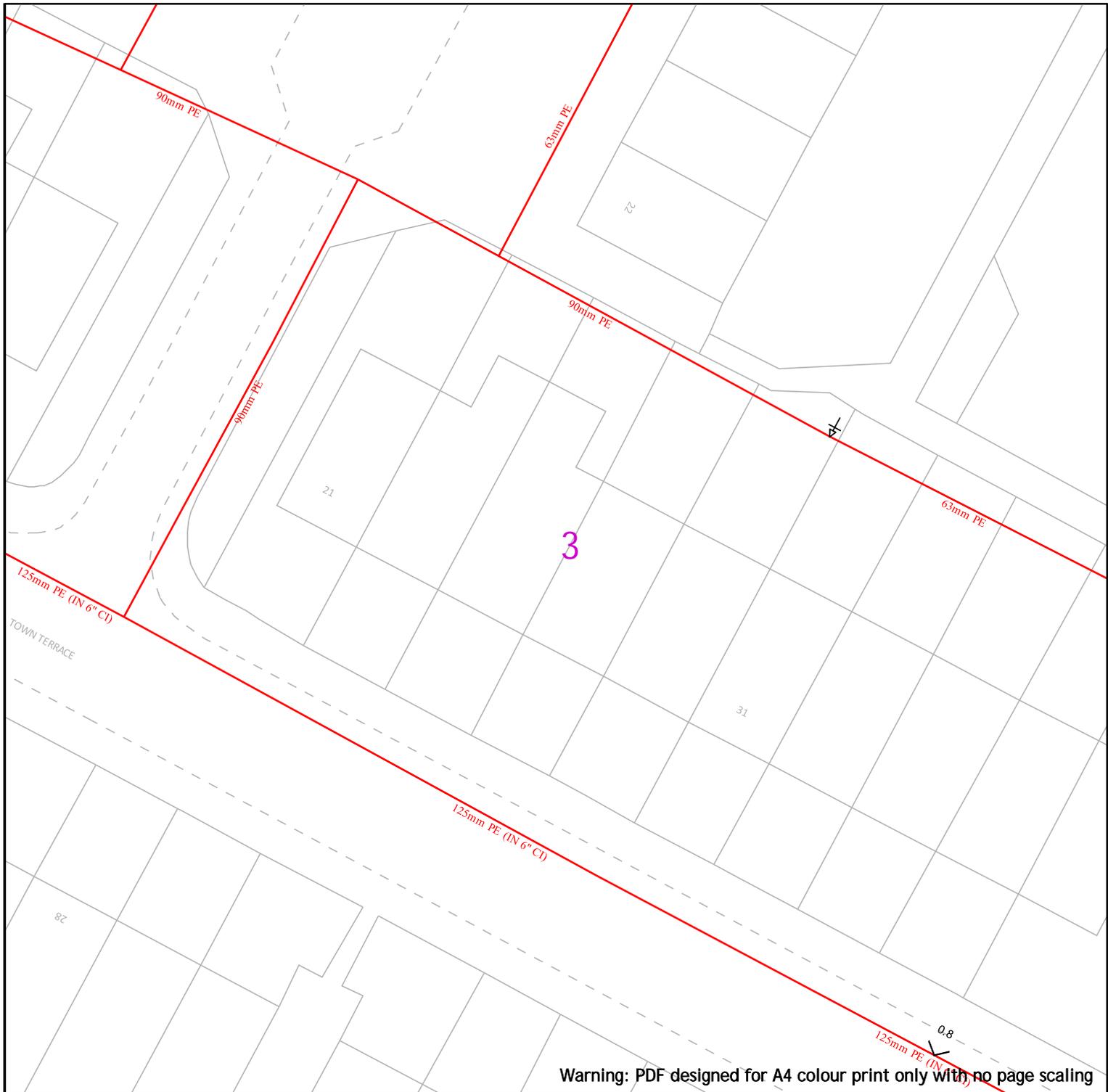
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		Dig Sites Area:  Line: 			
Pipes  Intermediate Pressure  Medium Pressure  Low Pressure Transmission Pipe  Regional High Pressure	Network Plant  Flow Stop - Open  Flow Stop - Closed  Valve - Open  Valve - Closed  Transmission Valve - Open  Transmission Valve - Closed	Network Asset  CP Point  Dip Point  Drain Point  End Closure  Flow Measure  Gas Conditioner  Governor  MEG Point  Meter  OMR  Oiling Point	Network Asset (continued)  Pig Trap  Pipe Joint  Pressure Measurement  Purge Point  Reducer  Stand Pipe  Syphon  Tee  Test Point	Non-Network Asset  Outlet  Inlet  Depth of Cover  Crossover Connection  Change in Material  Change in Diameter	Environment  NTS  IGT Area  IGT Site  Infill Site  LPG Site  OMR's Pipeline  Contact Zone  SAM  SSSI

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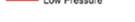
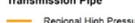


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		Dig Sites Area:  Line: 			
Pipes  Intermediate Pressure  Medium Pressure  Low Pressure Transmission Pipe  Regional High Pressure	Network Plant  Flow Stop - Open  Flow Stop - Closed  Valve - Open  Valve - Closed  Transmission Valve - Open  Transmission Valve - Closed	Network Asset  CP Point  Dip Point  Drain Point  End Closure  Flow Measure  Gas Conditioner  Governor  MEG Point  Meter  OMR  Oiling Point	Network Asset (continued)  Pig Trap  Pipe Joint  Pressure Measurement  Purge Point  Reducer  Stand Pipe  Syphon  Tee  Test Point	Non-Network Asset  Outlet  Inlet  Depth of Cover  Crossover Connection  Change in Material  Change in Diameter	NTS IGT Area  IGT Site  Infill Site  LPG Site  OMR's Pipeline  Contact Zone Environment  SAM  SSSI

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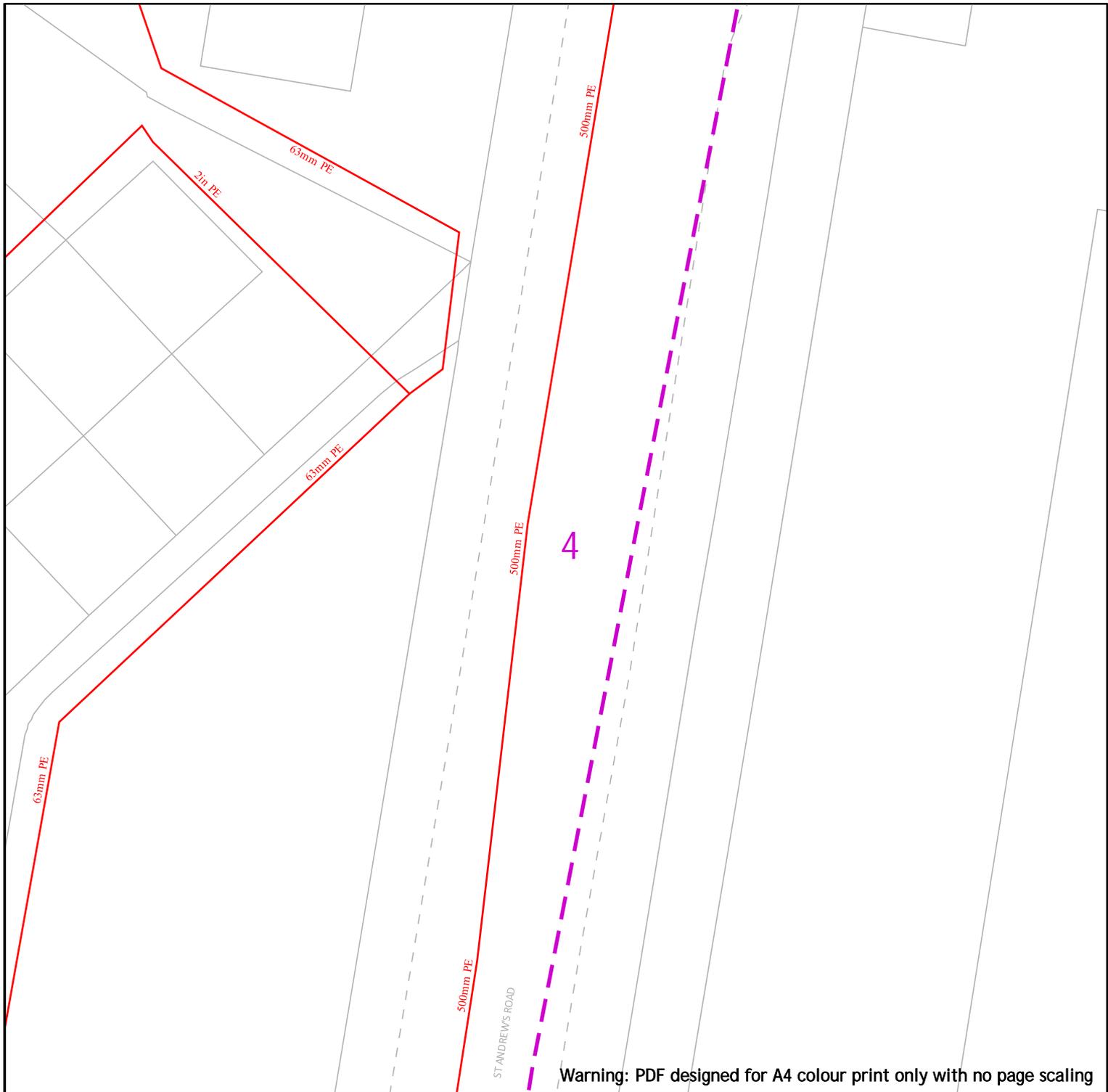
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 100m		Dig Sites Area:  Line: 			
Pipes  Intermediate Pressure  Medium Pressure  Low Pressure Transmission Pipe  Regional High Pressure	Network Plant  Flow Stop - Open  Flow Stop - Closed  Valve - Open  Valve - Closed  Transmission Valve - Open  Transmission Valve - Closed	Network Asset  CP Point  Dip Point  Drain Point  End Closure  Flow Measure  Gas Conditioner  Governor  MEG Point  Meter  OMR  Oiling Point	Network Asset (continued)  Pig Trap  Pipe Joint  Pressure Measurement  Purge Point  Reducer  Stand Pipe  Syphon  Tee  Test Point	Non-Network Asset  Outlet  Inlet  Depth of Cover  Crossover Connection  Change in Material  Change in Diameter	Environment  NTS IGT Area  IGT Site  Infill Site  LPG Site  OMR's Pipeline  Contact Zone Environment  SAM  SSSI

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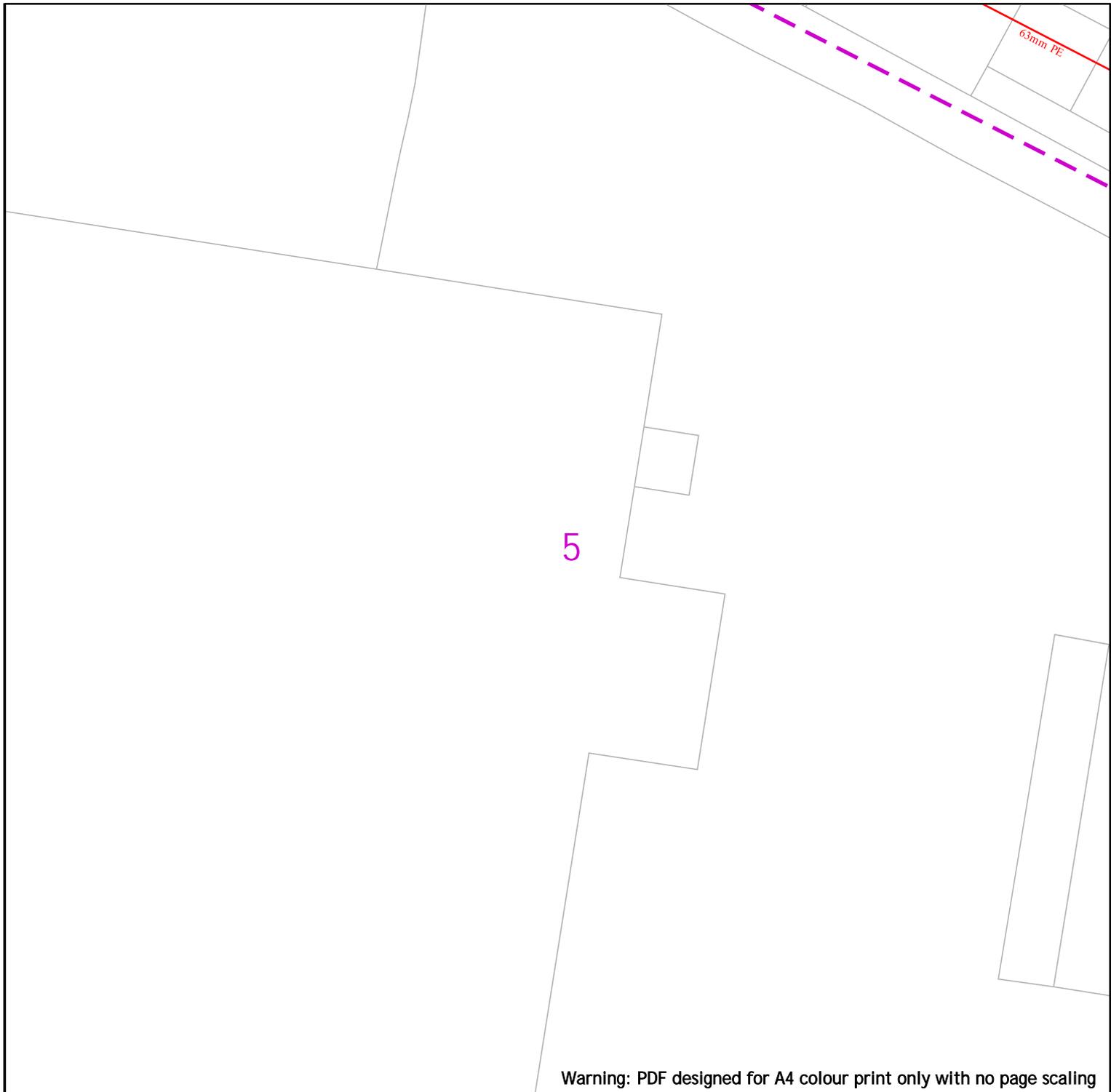
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		Dig Sites Area: Line:			
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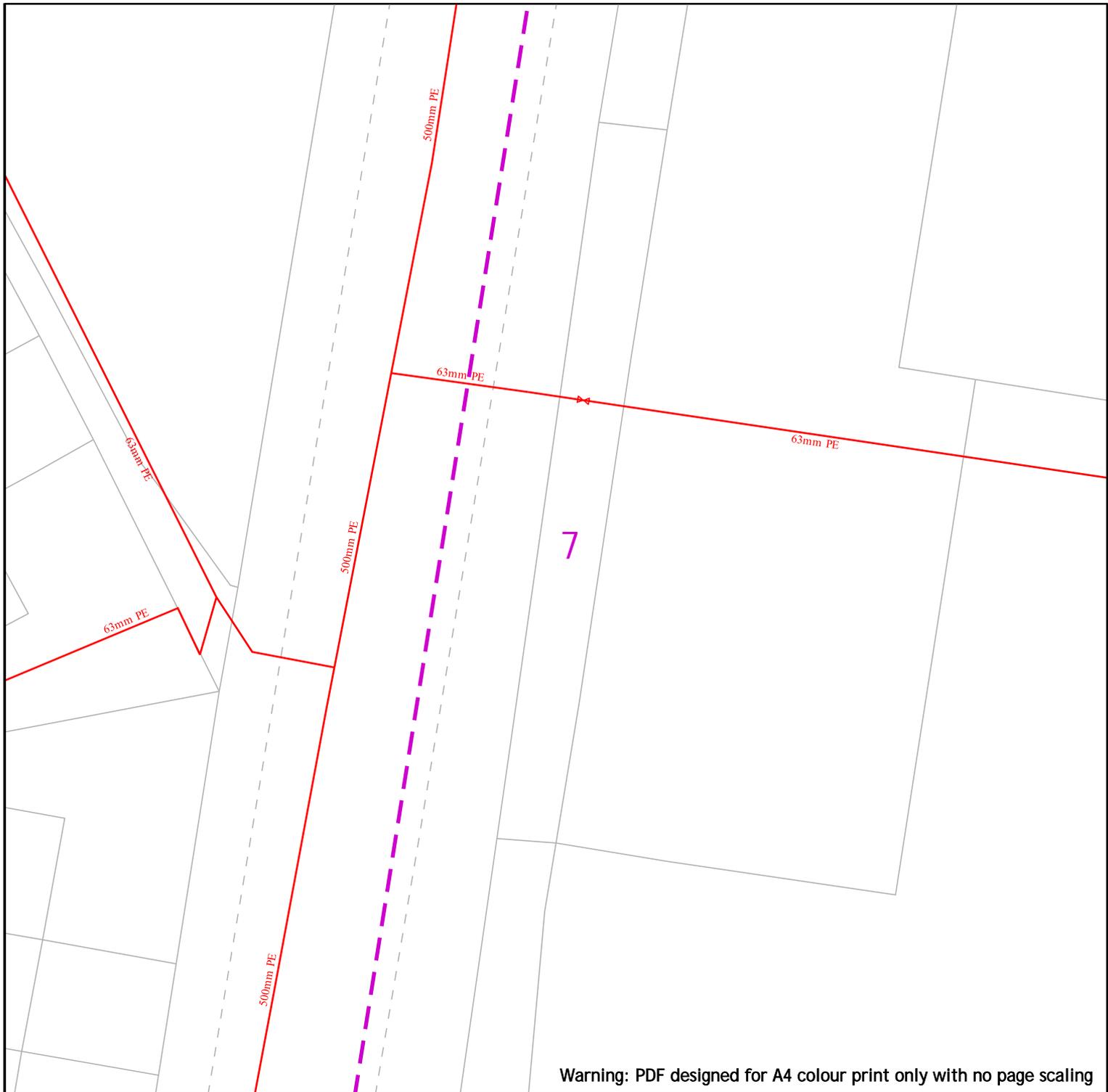
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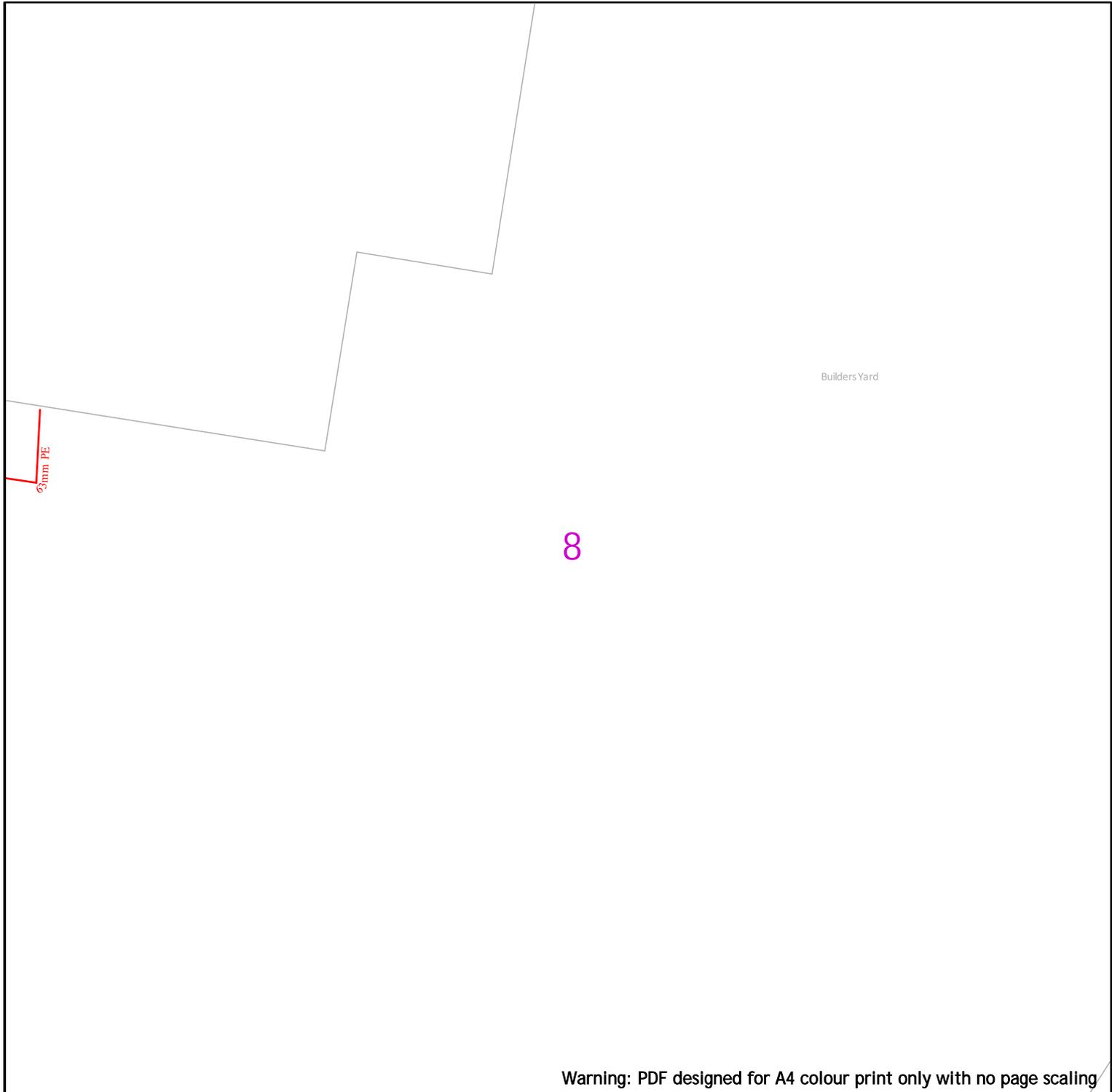
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Scale: 1:250 (When plotted at A4)

100m

Dig Sites Area: Line:

Pipes Intermediate Pressure Medium Pressure Low Pressure Transmission Pipe Regional High Pressure	Network Plant Flow Stop - Open Flow Stop - Closed Valve - Open Valve - Closed Transmission Valve - Open Transmission Valve - Closed	Network Asset CP Point Dip Point Drain Point End Closure Flow Measure Gas Conditioner Governor MEG Point Meter OMR Oiling Point	Network Asset (continued) Pig Trap Pipe Joint Pressure Measurement Purge Point Reducer Stand Pipe Syphon Tee Test Point	Non-Network Asset Outlet Inlet Depth of Cover Crossover Connection Change in Material Change in Diameter	NTS IGT Area IGT Site Infill Site LPG Site OMR's Pipeline Contact Zone Environment SAM SSSI
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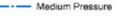
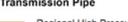
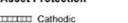


Contact Us

General Enquiries: 0800 040 7766

100m

Dig Sites Area:  Line: 

<p>Pipes</p> <ul style="list-style-type: none">  Intermediate Pressure  Medium Pressure  Low Pressure <p>Transmission Pipe</p> <ul style="list-style-type: none">  Regional High Pressure <p>Asset Protection</p> <ul style="list-style-type: none">  Cathodic  Slabbed  Sleeved 	<p>Network Plant</p> <ul style="list-style-type: none">  Flow Stop - Open  Flow Stop - Closed  Valve - Open  Valve - Closed  Transmission Valve - Open  Transmission Valve - Closed 	<p>Network Asset</p> <ul style="list-style-type: none">  CP Point  Dip Point  Drain Point  End Closure  Flow Measure  Gas Conditioner  Governor  MEG Point  Meter  OMR  Oiling Point 	<p>Network Asset (continued)</p> <ul style="list-style-type: none">  Pig Trap  Pipe Joint  Pressure Measurement  Purge Point  Reducer  Stand Pipe  Syphon  Tee  Test Point 	<p>Non-Network Asset</p> <ul style="list-style-type: none">  Outlet  Inlet  Depth of Cover  Crossover Connection  Change in Material  Change in Diameter 	<p>NTS</p> <p>IGT Area</p> <ul style="list-style-type: none">  IGT Site  Infill Site  LPG Site  OMR's <p>Pipeline</p> <ul style="list-style-type: none">  Contact Zone <p>Environment</p> <ul style="list-style-type: none">  SAM  SSSI
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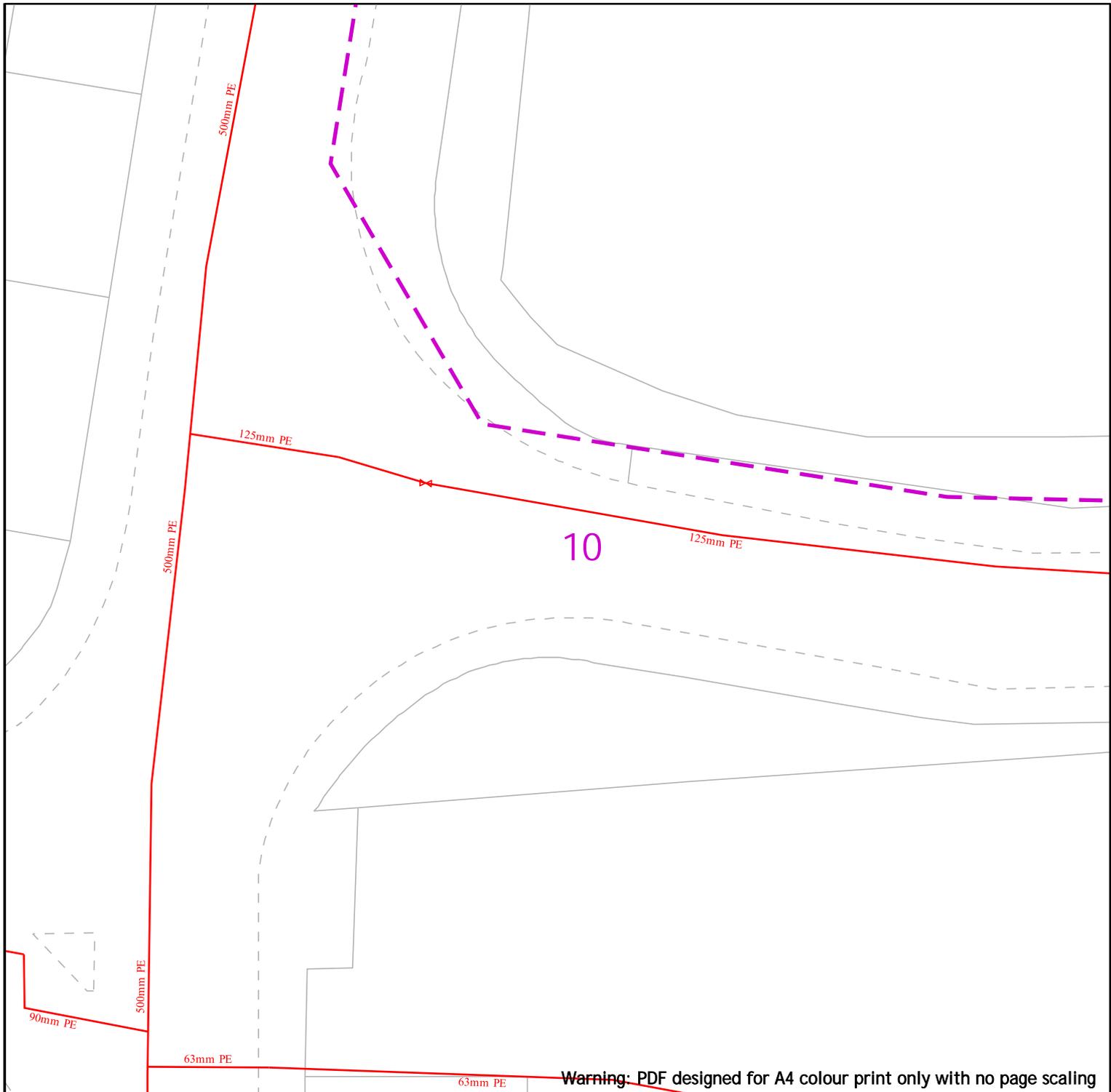
IMPORTANT NOTICES

This plan shows those pipes owned by Northern Gas Networks or the relevant Gas Distribution Network in their roles as Licensed Gas Transporters (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard 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 Northern Gas Networks, the relevant Gas Distribution Network, or their agents, servants or contractors for any error 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.

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

Date Requested: 27/09/2024
 Job Reference: 34875260
 Site Location: 415134 417572
 Requested by: Miss Lauren Wenham
 Your Scheme/Reference: STW6714

Scale: 1:250 (When plotted at A4)



Warning: PDF designed for A4 colour print only with no page scaling



Contact Us

General Enquiries: 0800 040 7766

<p>Pipes</p> <ul style="list-style-type: none"> Intermediate Pressure Medium Pressure Low Pressure <p>Transmission Pipe</p> <ul style="list-style-type: none"> Regional High Pressure <p>Asset Protection</p> <ul style="list-style-type: none"> Cathodic Slabbed Sleeved 		<p>Network Plant</p> <ul style="list-style-type: none"> Flow Stop - Open Flow Stop - Closed Valve - Open Valve - Closed Transmission Valve - Open Transmission Valve - Closed 	<p>Network Asset</p> <ul style="list-style-type: none"> CP Point Dip Point Drain Point End Closure Flow Measure Gas Conditioner Governor MEG Point Meter OMR Oiling Point 	<p>Network Asset (continued)</p> <ul style="list-style-type: none"> Pig Trap Pipe Joint Pressure Measurement Purge Point Reducer Stand Pipe Syphon Tee Test Point 	<p>Non-Network Asset</p> <ul style="list-style-type: none"> Outlet Inlet Depth of Cover Crossover Connection Change in Material Change in Diameter 	<p>Dig Sites Area: Line: </p> <ul style="list-style-type: none"> NTS IGT Area IGT Site Infill Site LPG Site OMR's Pipeline Contact Zone Environment SAM SSSI
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Date Requested: 27/09/2024
 Job Reference: 34875260
 Site Location: 415134 417572
 Requested by: Miss Lauren Wenham
 Your Scheme/Reference: STW6714

Scale: 1:250 (When plotted at A4)

IMPORTANT NOTICES

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Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
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Contact Us

General Enquiries: 0800 040 7766

		Dig Sites Area: Line:			
Pipes Intermediate Pressure Medium Pressure Low Pressure Transmission Pipe Regional High Pressure	Network Plant Flow Stop - Open Flow Stop - Closed Valve - Open Valve - Closed Transmission Valve - Open Transmission Valve - Closed	Network Asset CP Point Dip Point Drain Point End Closure Flow Measure Gas Conditioner Governor MEG Point Meter OMR Oiling Point	Network Asset (continued) Pig Trap Pipe Joint Pressure Measurement Purge Point Reducer Stand Pipe Syphon Tee Test Point	Non-Network Asset Outlet Inlet Depth of Cover Crossover Connection Change in Material Change in Diameter	Environment NTS IGT Area IGT Site Infill Site LPG Site OMR's Pipeline Contact Zone SAM SSSI

IMPORTANT NOTICES
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Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
 0800 111 999

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Date Requested: 27/09/2024
 Job Reference: 34875260
 Site Location: 415134 417572
 Requested by: Miss Lauren Wenham
 Your Scheme/Reference: STW6714
 Scale: 1:250 (When plotted at A4)

Works

12

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Contact Us

General Enquiries: 0800 040 7766

Date Requested: 27/09/2024
Job Reference: 34875260
Site Location: 415134 417572
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STW6714

Scale: 1:250 (When plotted at A4)

100m Dig Sites Area: Line:

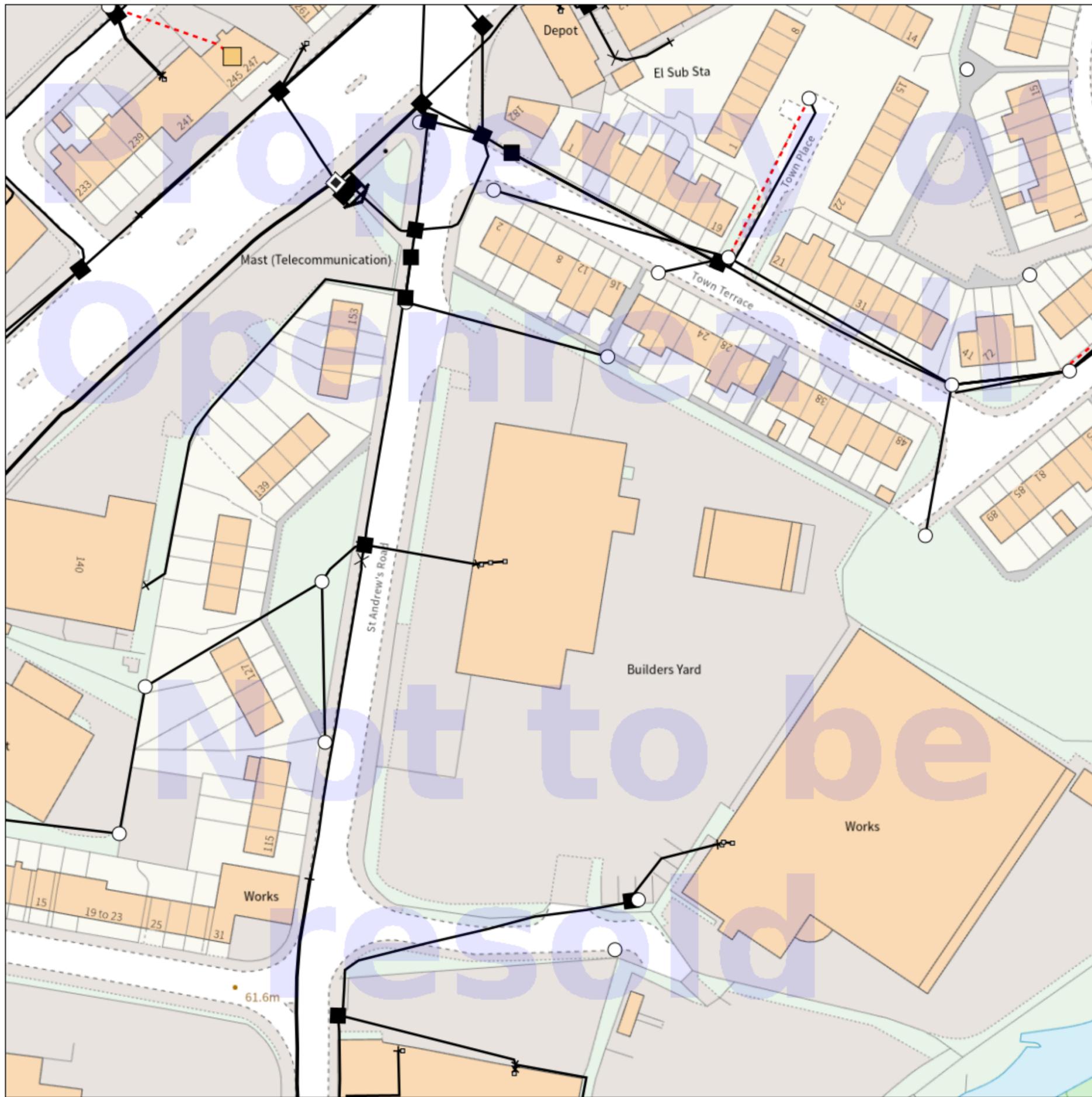
Pipes Intermediate Pressure Medium Pressure Low Pressure Transmission Pipe Regional High Pressure	Network Plant Flow Stop - Open Flow Stop - Closed Valve - Open Valve - Closed Transmission Valve - Open Transmission Valve - Closed	Network Asset CP Point Dip Point Drain Point End Closure Flow Measure Gas Conditioner Governor MEG Point Meter OMR Oiling Point	Network Asset (continued) Pig Trap Pipe Joint Pressure Measurement Purge Point Reducer Stand Pipe Syphon Tee Test Point	Non-Network Asset Outlet Inlet Depth of Cover Crossover Connection Change in Material Change in Diameter	NTS IGT Area IGT Site Infill Site LPG Site OMR's Pipeline Contact Zone Environment SAM SSSI
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0800 111 999

Maps on Demand Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : JOP14383Z
Map Reference : (centre) SE1511017656
Easting/Northing : (centre) 415110,417656
Scale : 1:250
Issued : 27/09/2024 14:38:37

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

YORKSHIRE WATER PROTECTION OF MAINS AND SERVICES

1. The position of Yorkshire Water Services Ltd (YWS) apparatus shown on the existing mains record drawing(s) indicates the **general** position and nature of our apparatus and the accuracy of this information cannot be guaranteed. Any damage to YWS apparatus as a result of your works may have serious consequences and you will be held responsible for all costs incurred. Prior to commencing major works, the exact location of apparatus must be determined on site, if necessary by excavating trial holes. The actual position of such apparatus and that of service pipes which have not been indicated must be established on site by contacting the Customer Helpline on 0845 124 24 24 for both water and sewerage.
2. The public sewer and water network is lawfully retained in its existing position and the sewerage and water undertaker is entitled to have it remain so without any disturbance. The provisions of section 159 of the Water Industry Act 1991 provides that the undertaker may "inspect, maintain, adjust, repair or alter" the network. Those rights are given to enable the undertaker to perform its statutory duties. Any development of the land or any other action that unacceptably hindered the exercise of those rights would be unlawful. The provisions contained in Section 185 of the Water Industry Act 1991 state that where it is reasonable to do so, a person may require the water supply undertaker to alter or remove a pipe where it is necessary to enable that person to carry out a proposed change of use of the land. The provisions contained in Section 185 also require the person making the request to pay the full cost of carrying out the necessary works.
3. Ground levels over existing YWS apparatus are to be maintained. Sewers in highways will **generally** be laid to give 1200mm of cover from finished ground level working to kerb races, other permanent identification of the limits of the road or to an agreed line and level. Substantial increases or decreases to this 1200mm depth of cover will result in the sewer being re-laid at your expense. Water mains and services will **generally** be laid with a minimum of 750mm depth of cover however some mains and services usually those installed over 50 years ago may have less ground cover.
4. If surface levels are to be decreased / increased significantly the effects on existing water supply apparatus will be carefully considered and if any alterations are necessary, the costs of the alterations will be recharged to you in full. Outlets on fire hydrants must be no more than 300mm below the new levels and all surface boxes must be adjusted as part of the scheme.
5. To enable future repair works to be carried out without hindrance; any pipe, cable, duct, etc. installed parallel to a water main or service pipe should not be installed directly over or within 300mm of a water main or service pipe or 1000mm of a waste water asset. Where a pipe, cable, duct, etc. crosses a main or service it should preferably cross perpendicular or at an angle of no less than 45° and with a minimum clearance of 150mm. These requirements apply to activities within an existing highway and are relevant to the installation of pipes, cables, ducts, etc. up to and including 250mm in diameter (*see illustration below*). Necessary protection measures for installations greater than 250mm in diameter and/or in private land will need to be agreed on an individual basis. Installations within a new development site must comply with the National Joint Utilities Group publication Volume 2: NJUG Guidelines On The Positioning Of Underground Utilities Apparatus For New Development Sites.
6. All excavation works near to YW apparatus should be by hand digging only.
7. Backfilling with a suitable material to a minimum 300mm above YW apparatus is required.
8. Adequate support must be provided where any works pass under YW apparatus.
9. Jointing chambers, lighting columns and other structures must be installed in such a way that future repair or maintenance works to YW apparatus will not be hindered.
10. Apparatus such as; railings, sign posts, etc. must not be placed in such a way that they prevent access to or full operation of controlling valves, hydrants or similar apparatus. YWS surface boxes must not be covered or buried. Any adjustment, alteration or replacement of manhole covers must be agreed on site prior to the commencement of the works with a YWS Inspector who may be contacted via our Call Centre on 0845 124 24 24.
11. Explosives shall not be used within 100 metres of any Yorkshire Water Services apparatus or installations.
12. Vibrating plant should not be used directly over any apparatus. Movement or operation by vehicles or heavy plant is not to be permitted in the immediate vicinity of YWS plant or apparatus unless there has been prior consultation and, if necessary, adequate protection provided without cost to YWS.
13. **Under no circumstances** should thrust boring or similar trenchless techniques commence until the actual position of the Company's mains/services along the proposed route have been confirmed by trial holes.
14. Any alterations to the highway should be notified following the procedures outlined in the New Road and Street Works Act 1991 Code of Practice; Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works).
15. You will be held responsible for any damage or loss to YWS apparatus during and after completion of work, caused by yourselves, your servant or agent. Any damage caused or observed to YWS plant or apparatus should be immediately reported to YWS. Should YW incur any costs as a result of non-compliance with the above, all costs will be rechargeable in full.
16. You should ensure that nothing is done on the site to prejudice the safety or operation of YWS employees, plant or apparatus.
17. In accordance with the New Roads and Street Works Act 1991, Chapter 22, Part 3, Section 80. The location of any identified YW asset "*which is not marked, or is wrongly marked, on the records made available*" should be communicated back to Yorkshire Water. The location of the apparatus should be identified on copies of the supplied plans which should be returned to Yorkshire Water (Asset Records Team) with photographic supporting evidence where possible.
18. The Government has decided that responsibility for private sewers serving two or more properties and lateral drains (the section of pipe beyond the boundary of a single property, connecting it to the public sewer) will be transferred to the water companies on Oct 1 2011.

Private pumping stations will also transfer during the period 1 October 2011 – 1 Oct 2016. Records of these assets may not yet be shown on the existing mains record drawing(s). If you encounter any of these assets you must inform Yorkshire Water Services Ltd (YWS).

19. Please note that the information supplied on the enclosed plans is reproduced from Ordnance Survey material with the permission of the Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office, © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Licence Number 1000019559.
20. This information is for guidance only and the position and depth of any YW apparatus is approximate only. Likewise, the nature and condition of any YW apparatus cannot be guaranteed. YW has no responsibility for recording the locations of privately owned apparatus. As of 1 October 2011, there may be some lateral drains and/or public sewers which are not documented on YW records but may still be present. For the avoidance of doubt, this information is not a substitute for appropriate professional and/or legal advice. YW accepts no responsibility for any inaccuracy or omissions in this information. The actual position of YW apparatus must be determined on site by excavating trial holes by hand. YW requires a minimum of two working days' written notice of the intention to excavate any trial holes before any excavation can be undertaken. If there are any queries in this respect please contact Yorkshire Water on 0845 124 24 24.

Property Identifier



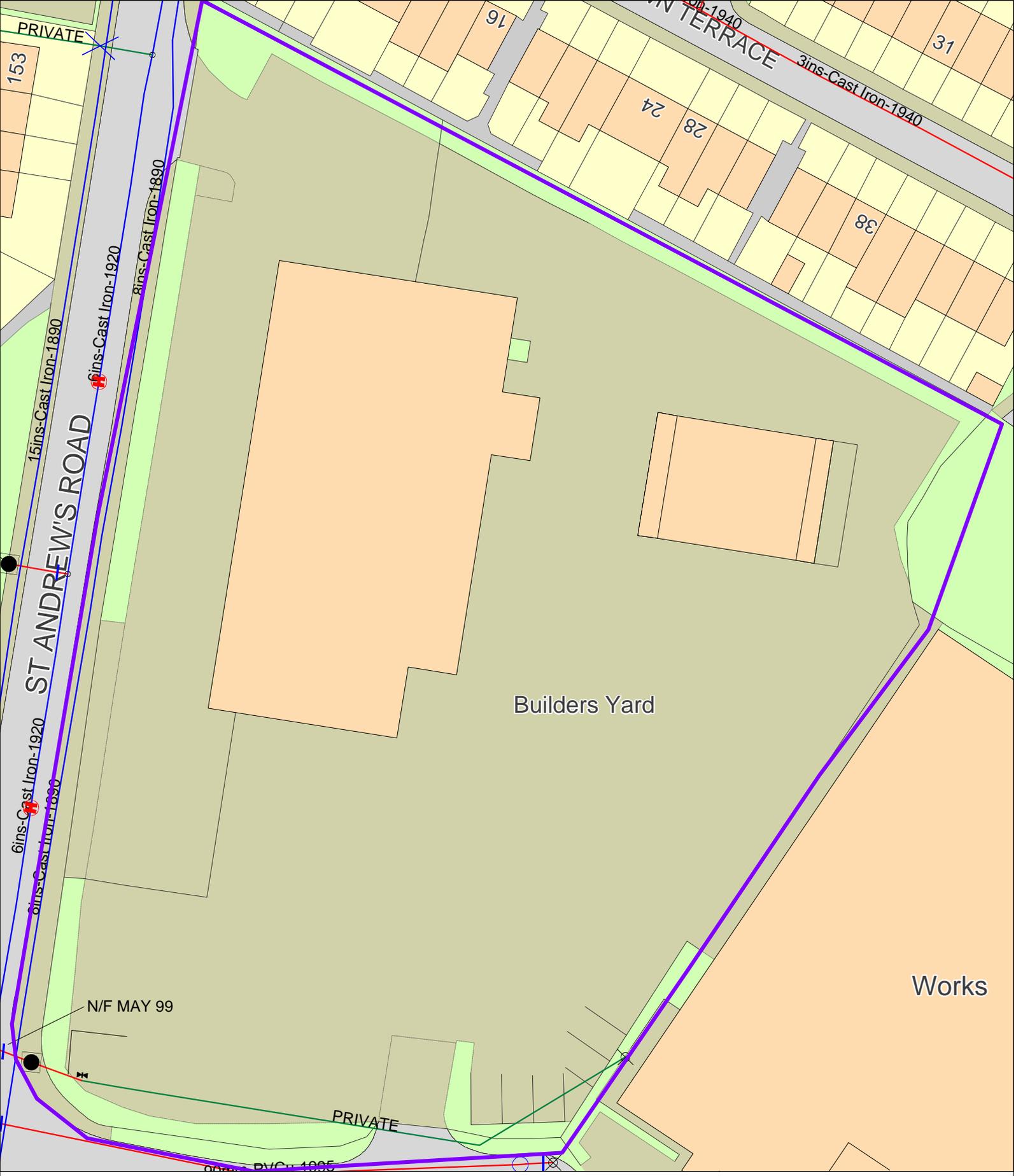
Sewer Legend

	Combined Sewer		S24 Combined Sewer
	Surface Water Sewer		S24 Surface Water Sewer
	Foul Sewer		S24 Foul Sewer
	Section 104 Sewer		Rising Main
	Overflow Sewer		Abandoned Sewer
	Manhole		Syphone Sewer & Vacuum Sewer
	Pumping Station		Public Sewer Treatment Works

Please note that the direction of flow arrows may not always appear depending on the scale of the map.

Water Legend

	Water Main 4" and below
	Water Main 4" and above
	Raw Water Main
	Private Water Main
	Fire Hydrant
	Pumping Station
	The assets in this area are the responsibility of another Water Undertaker



Public Clean Water Network 27/09/2024 15:09:20 OS Grid Coordinates: 415062 : 417569 Map Name : SE1517NW svcGISSafeMovePD



Public Waste Water Network 27/09/2024 15:09:21 OS Grid Coordinates: 415062 : 417569 Map Name : SE1517NW svcGISSafeMovePD

Who are Northern Gas Networks?

We look after the 37,000km of gas mains in your area. We don't own the gas but it's our job to transport it safely to you.

Our Ref: 34875260 STW6714

Friday, 27 September 2024

Lauren Wenham
Cedar Barn White Lodge
Walgrave
NTH
NN6 9PY

Want to talk?

If you have any questions our Customer Care Team will be able to help:

0800 040 7766

 customercare@northerngas.co.uk

 northerngasnetworks.co.uk

Building in the area: finding your gas service

Dear Sir/Madam,

Thank you for requesting information regarding the position of our pipelines using the [LinesearchbeforeUdig](#) service.

We have enclosed a plan of the mains pipes we own in this area.

The plan also doesn't show service pipes, valves, siphons or stub connections but you should expect to find these.

Your checklist

- 1** Call our Before You Dig Team on **0800 040 7766 (option 3)** to tell us when you plan to start work.
- 2** Use our plans to find the gas main and the line of gas service on your property.
- 3** Hand dig trial holes to confirm the position and depth of your service.

If the gas service will run under any building you plan to construct, you will need to call us to arrange for the service to be moved.

If you'd like this information in Braille, large print or another language, please call us.

 [@NGNgas](https://twitter.com/NGNgas)  facebook.com/northerngasnetworks

Northern Gas Networks Limited is registered in England and Wales, no. 5167070.
Registered office: 1100 Century Way, Thorpe Park Business Park, Colton, Leeds LS15 8TU

**we are
the network**

Staying safe near our pipes

You must make sure that everyone working on the site follows the safe digging practices outlined in HSE publication **HSG47 Avoiding Danger from Underground Services** before using mechanical plant. You can download these for free from [hse.gov.uk](https://www.hse.gov.uk).

As there are **low and medium pressure gas mains** near your site, you must not carry out mechanical excavations within 0.5m of the **low pressure system** or 2m of the **medium pressure system**. You should also read the enclosed **Stay safe near our pipes – A guide to working near infrastructure**.

Kind Regards

NGN Before You Dig Team

If you'd like this information in Braille, large print or another language, please call us.



@NGNgas



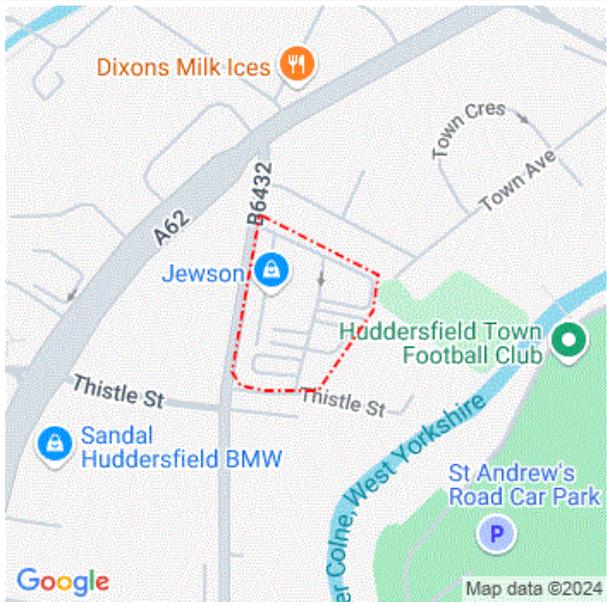
facebook.com/northerngasnetworks

Northern Gas Networks Limited is registered in England and Wales, no. 5167070.
Registered office: 1100 Century Way, Thorpe Park Business Park, Colton, Leeds LS15 8TU



we are
the network

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	Site Map
Enquiry type	Planned Works
Work category	Development Projects
Work type	Piling
Work type buffer*	150 metres
Start date	28/09/2024
End date	28/09/2024
Scheme/Reference	STW6714
Search location	XY= 415110, 417656
Confirmed location	415134 417572
Site size	0 metres square
Site Contact Name	Rosie Dean - Soiltechnics Limited
Site Phone No.	01604781877
Description of Works	boreholes
	 <p>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.</p>
<p>* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.</p>	

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
EUNetworks Fiber UK Limited	02031788003	02031788003	Await response
Fulcrum Pipelines Limited	03330146455	0800111999	Await response
Northern Gas Networks Limited	08000407766 (opt 3)	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.)

AllPoints Fibre	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
Cadent Gas	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
EET Fuels	EirGrid	Eleclink Limited
Electricity North West 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	Esso Petroleum Company Limited	EXA Infrastructure
Exolum Pipeline System	Fulcrum Electricity Assets Limited	G.Network Communication Ltd c/o JSM Group Ltd
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Greenlink Interconnector Ltd	Harbour Energy
Heathrow Airport LTD	Humbly Grove Energy	IGas Energy
INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited
INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)	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
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



Enquiry Confirmation

LSBUD Ref: 34875260

Date of enquiry: 27/09/2024

Time of enquiry: 14:41

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
Arelion UK Ltd	check-network@arelion.com		Not Notified
Bring Energy	nrswa@bringenergy.com	0800 130 3600	Not Notified
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
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
Northern Powergrid	Safediggingplans@northernpowergrid.com	01912294294	Not Notified
Sky UK Limited	nrswa@sky.uk	02070323234	Not Notified
Sota	sota.plantenquiries@ocugroup.com		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
Yorkshire Water	safemove@yorkshirewater.com	03332206664	Not Notified

Disclaimer

Please refer to LSBUD's Terms of Use for full terms of use available at www.lsbud.co.uk

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.



Date: 27-09-2024

Ms Wenham
Cedar Barn
White Lodge
Walgrave
NN6 9PY

Tel: 0191 229 4294
Northern Powergrid Records Information Centre
New York Road
Shiremoor
Newcastle Upon Tyne
NE27 0LP

Dear Ms Wenham

Enquiry No: SDR1548683
Scheme Reference: STW6714

Thank you for using Northern Powergrid's online Safedig service for your planned works.

Your plan has been generated using our most up to date information. Due to the nature of the information we hold and how often works on the network are carried out, we can only guarantee this plan at the time of generation. We will do our best to notify you if we update the information in your indicated area, but you should endeavour to obtain an up to date plan whenever you commence your works.

The map that has been provided to you will show all the relevant Northern Powergrid electricity cables that are in your indicated dig site, we have included some of the surrounding area as well in case your dig extends further than you previously thought. At any point you may re-apply for your plan to increase the indicated area using the previously submitted details. This plan will be valid for 30 days from the point at which it became available to you.

The enclosed mains records only give the approximate location of known Northern Powergrid apparatus in the area. Great care is therefore needed and all cables and overhead lines must be assumed to be live.

Please note that while all efforts are made to ensure the accuracy of the data, no guarantee can be given. We would refer you to the Health & Safety Executive's publication HS(G)47 "Avoiding Danger From Underground Services" which emphasises that:

- Plans must only be used as a guide in the location of underground cables. The use of a suitable cable-tracing device is essential and careful hand digging of trial holes must be carried out to positively identify and mark the exact route of the cable. You should also bear in mind that a cable is unmistakably located only when it has been safely exposed.
- Cable depths are not generally indicated on our records and can vary considerably even when shown.
- Great caution must be exercised at all times when using mechanical plant. Careful trial digging should always be carried out on the whole route of the planned excavation to ascertain if cables exist.

The Health & Safety executive have another publication, GS6 "Avoidance of Danger from Overhead Electric Lines" that you should be aware of if your work is near overhead powerlines. Both of these documents provide comprehensive guidance for observance of statutory duties under the Electricity at Work Regulations 1989 and the Health & Safety at Work Act 1974. Our provision of these records is based upon the assumption that people using them will have sufficient competence to interpret the information given. Any damage or injury caused will be the responsibility of the organization concerned who will be charged for any repairs.

Please note ground cover must not be altered either above our cables or below overhead lines, in addition no trees should be planted within 3 metres of existing underground cables or 10 metres of overheadlines. All our apparatus is legally covered by a wayleaves agreement, lease or deed or alternatively protected under the Electricity Act 1989. Should any alteration/diversion of our Company's apparatus be necessary to allow your work to be carried out, budget costs can be provided by writing to Network Connections, Alix House, Falcon Court, Stockton On Tees, TS18 3TU.

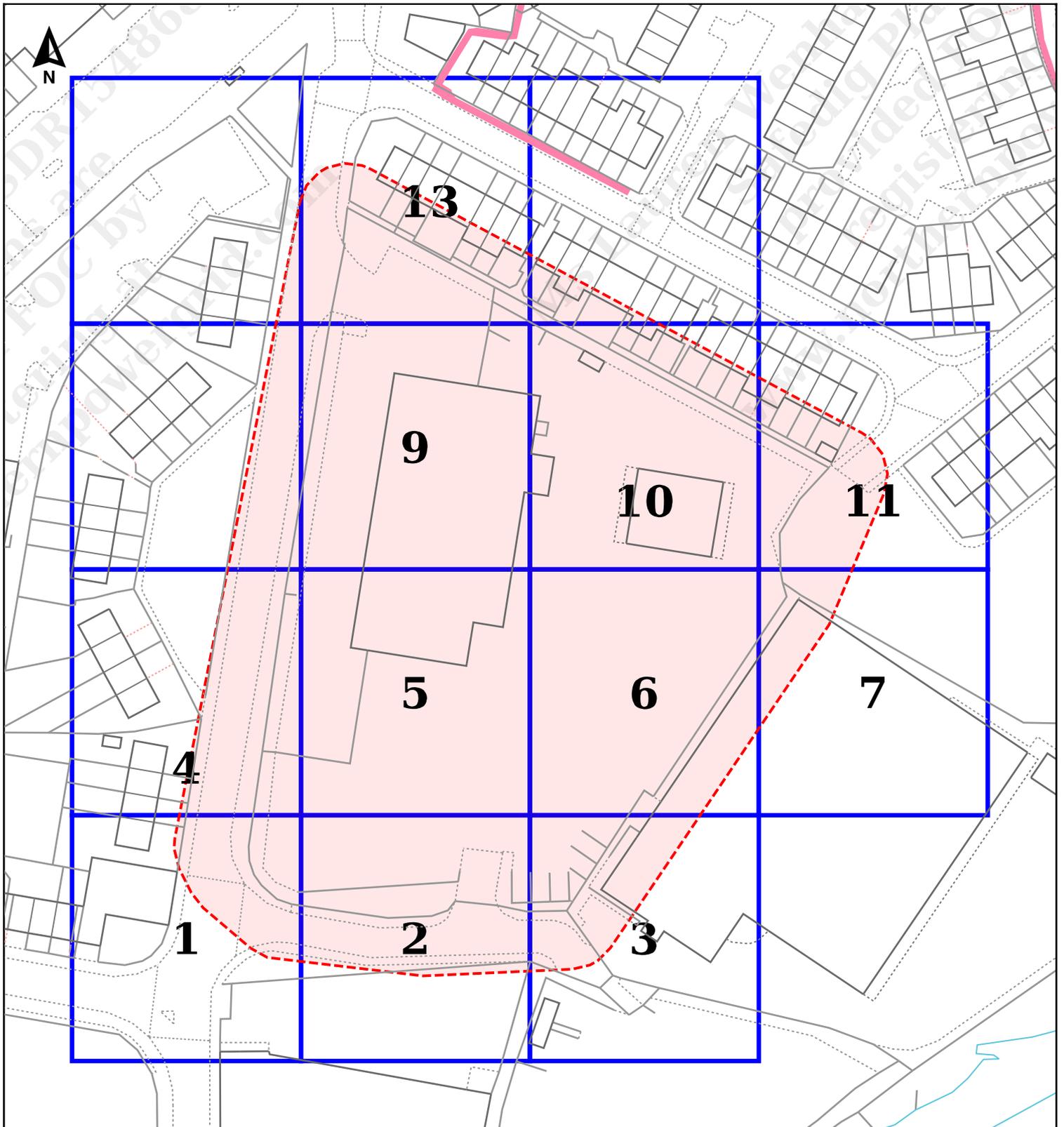
Tel:0800 0113433

Yours faithfully,

Safedig Team
Northern Powergrid

NORTHERNPOWERGRID

is the trading name of Northern Powergrid(Northeast) limited(RegisteredNo:2906593) and Northern Powergrid(Yorkshire) pic(Registered No:4112320) Registered Office: lloydsCourt, 78 Grey Street, Newcastle upon Tyne NE1 6AF.Registered in England and Wales.



Terms and Conditions

Electric cables and/or overhead line information shown on the record plans are to be used in accordance with the Health & Safety Executive's Booklet HS(G)47, "Avoiding Danger from Underground Services" and Guidance Note GS 6, "Avoidance of Danger from Overhead Electric Lines".

Record plans do not always show out of commission cables or service cables from Northern Powergrid's mains to adjoining or cross road properties.

Plans do not show local authority owned public lighting or sign cables. The information is provided as a service by NorthernPowergrid and does not impart any legal obligation on their part.

Persons using it are reminded of their responsibility to execute works safely to avoid damaging Northern Powergrid's apparatus.

Further advice or assistance is available from the Records Information Centre on 0191 2294296
 In an emergency or outside normal working hours contact our customer information centre on 0800 668877
 Cable depths shown were correct at the time cables were laid however alterations to ground levels or cable disposition may have taken place.

Legend:

Underground Cables:

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Overhead Conductors:

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Job Reference : SDR1548683
 STW6714

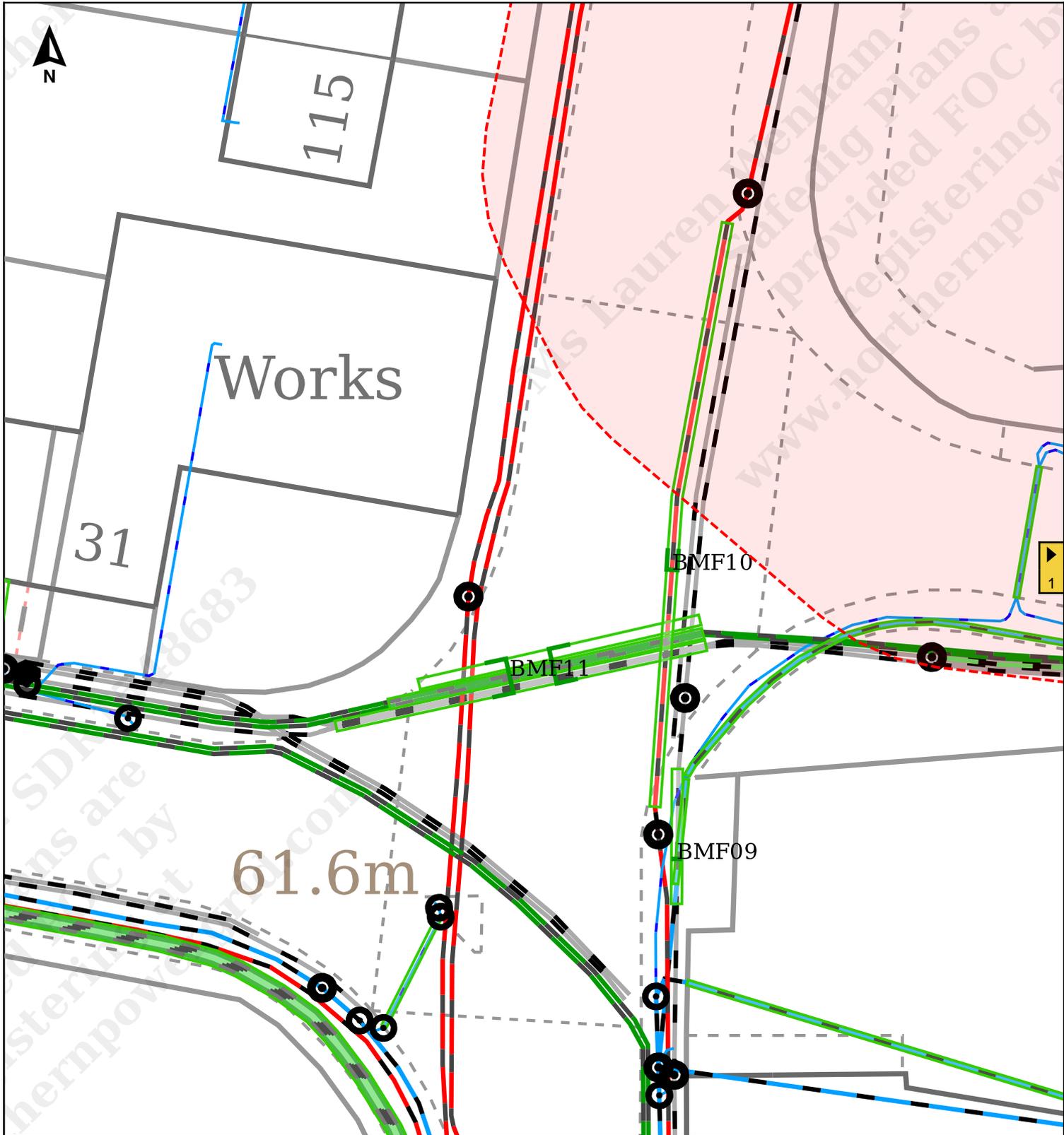
Scale : 1:1100

Date : 27/09/2024

Grid Coordinates : 415126 417645

Produced For :
 Ms Lauren Wenham

Overview Page



Terms and Conditions

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Legend:

Underground Cables:

- | | | | |
|--|-------------------------------|--|------------|
| | 132kV | | 20kV |
| | 66kV | | 11kV |
| | 33kV | | 6kV |
| | 25kV | | 3kV |
| | Left In Situ | | Aux |
| | LV Mains | | LV Service |
| | LV Service Assumed Route | | LV Service |
| | LV Service Logical Connection | | |
| | Duct Route | | |

Overhead Conductors:

- | | | | |
|--|------------|--|------|
| | 132kV | | 20kV |
| | 66kV | | 11kV |
| | 33kV | | 6kV |
| | 25kV | | 3kV |
| | LV Mains | | Aux |
| | LV Service | | |



Job Reference : SDR1548683
 STW6714

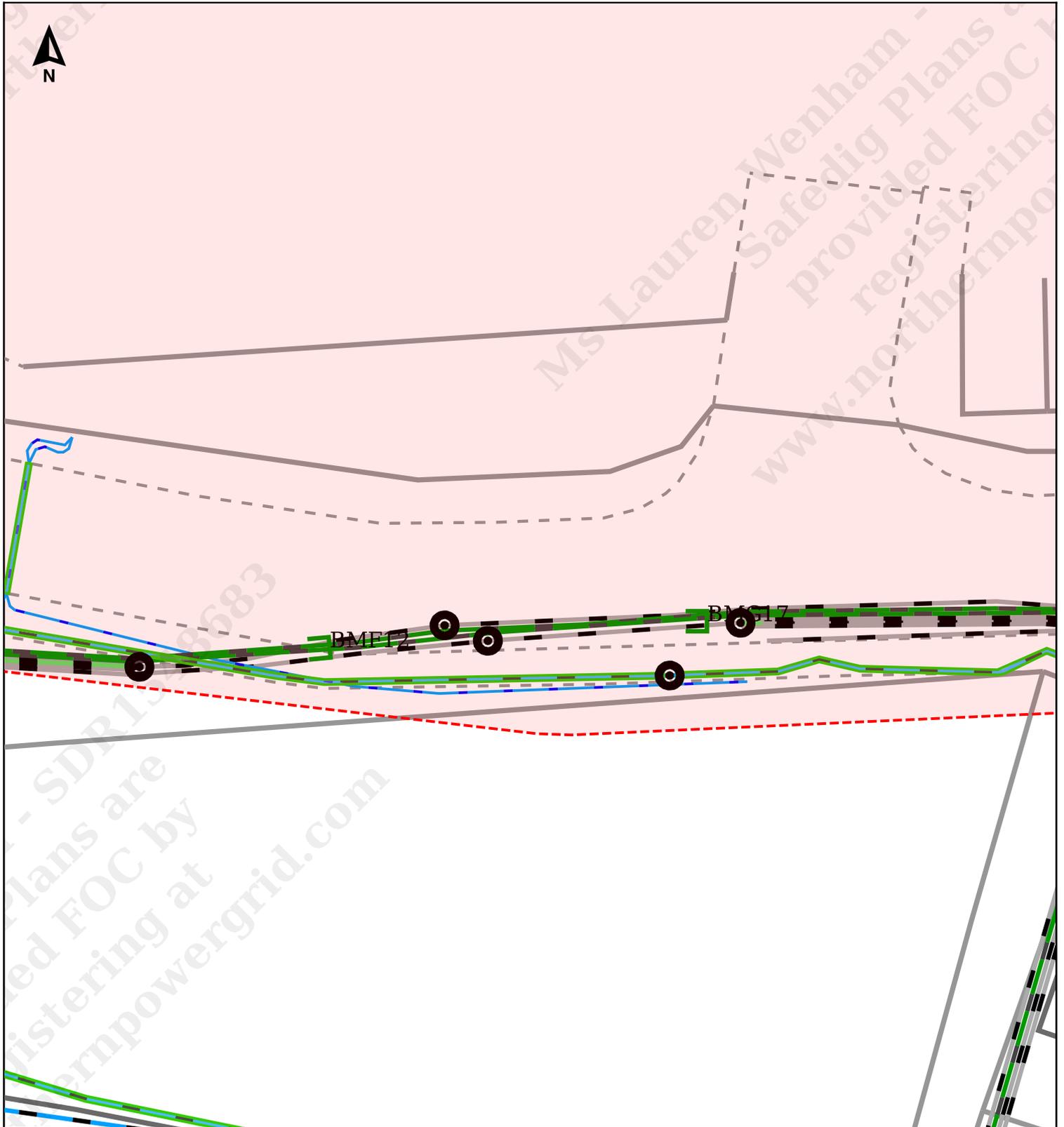
Scale : 1:250

Date : 27/09/2024

Grid Coordinates : 415055 417568

Produced For :
 Ms Lauren Wenham

Page 1 of 14 (1,14)



Terms and Conditions

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Legend:

Underground Cables:

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Overhead Conductors:

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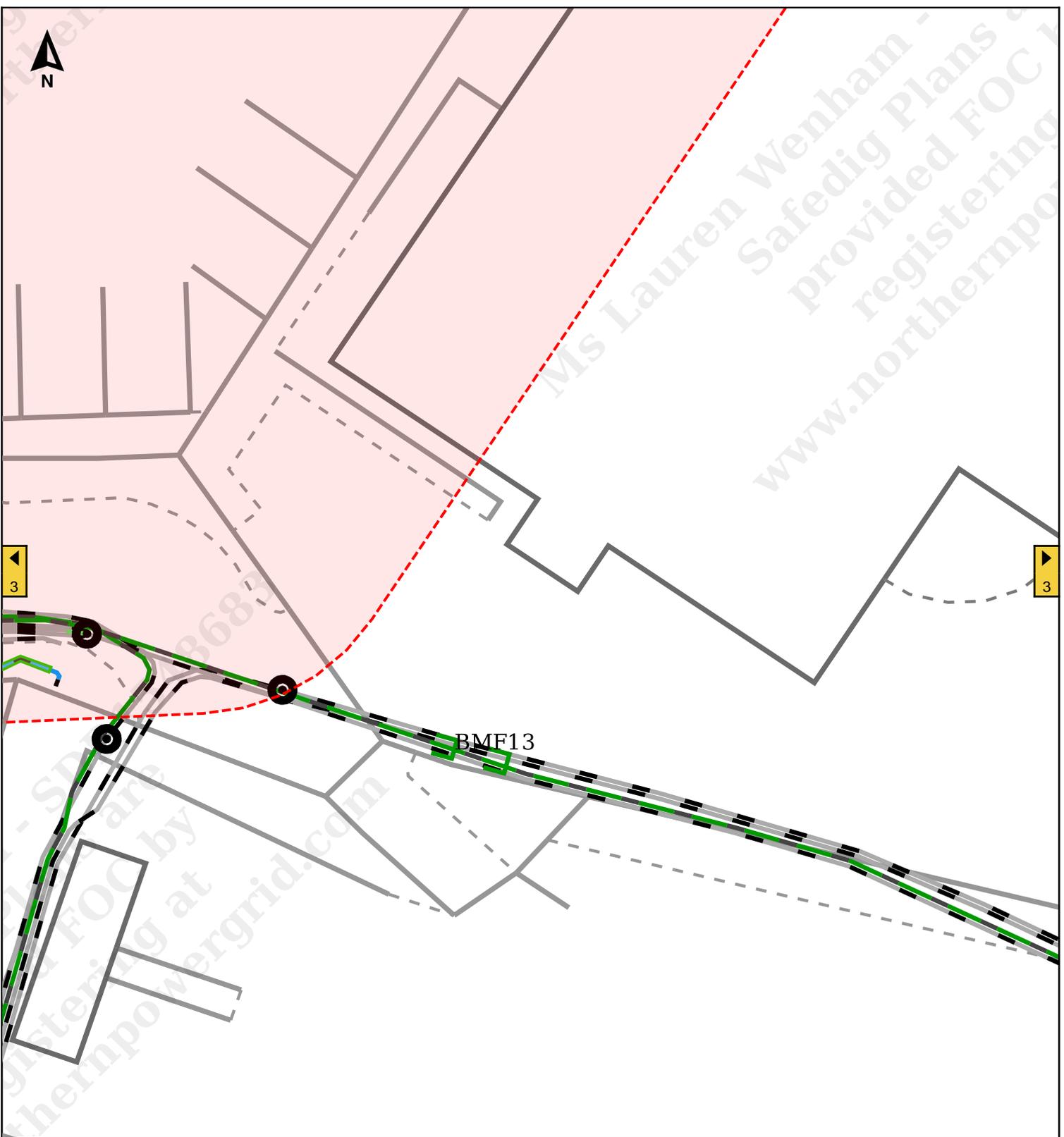
Job Reference : SDR1548683
 STW6714

Scale : 1:250

Date : 27/09/2024

Grid Coordinates : 415102 417568

Produced For :
 Ms Lauren Wenham



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Legend:

Underground Cables:

- | | | | |
|--|-------------------------------|--|------------|
| | 132kV | | 20kV |
| | 66kV | | 11kV |
| | 33kV | | 6kV |
| | 25kV | | 3kV |
| | Left In Situ | | Aux |
| | LV Mains | | LV Service |
| | LV Service Assumed Route | | |
| | LV Service Logical Connection | | |
| | Duct Route | | |

Overhead Conductors:

- | | | | |
|--|------------|--|------|
| | 132kV | | 20kV |
| | 66kV | | 11kV |
| | 33kV | | 6kV |
| | 25kV | | 3kV |
| | LV Mains | | Aux |
| | LV Service | | |



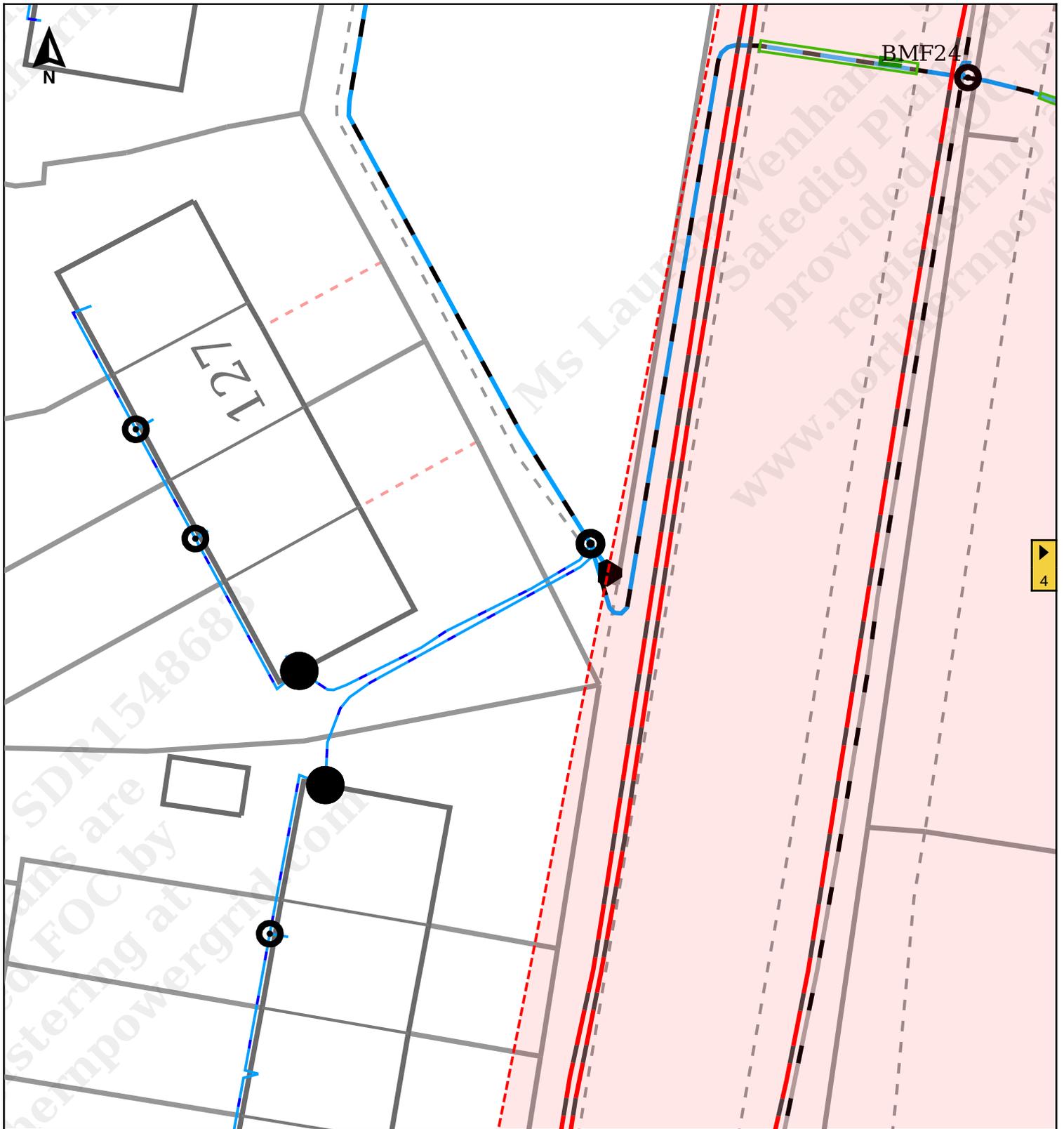
Job Reference : SDR1548683
 STW6714

Scale : 1:250

Date : 27/09/2024

Grid Coordinates : 415150 417568

Produced For :
 Ms Lauren Wenham



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Legend:

Underground Cables:

- 132kV
- 66kV
- 33kV
- 25kV
- Left In Situ
- LV Mains
- LV Service Assumed Route
- LV Service Logical Connection
- Duct Route
- 20kV
- 11kV
- 6kV
- 3kV
- Aux
- LV Service

Overhead Conductors:

- 132kV
- 66kV
- 33kV
- 25kV
- LV Mains
- LV Service
- 20kV
- 11kV
- 6kV
- 3kV
- Aux



Job Reference : SDR1548683

STW6714

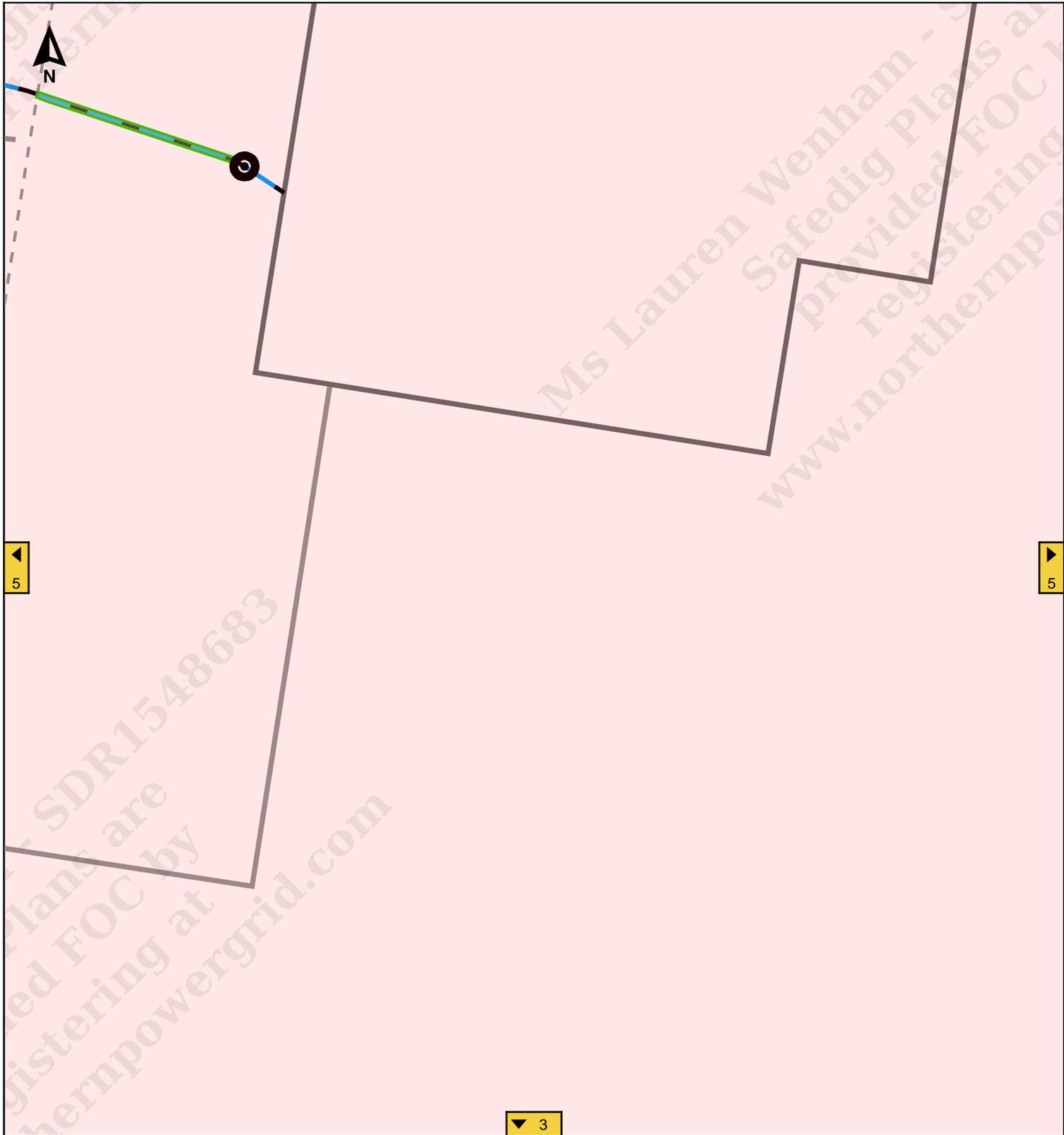
Scale : 1:250

Date : 27/09/2024

Grid Coordinates : 415055 417619

Produced For :
 Ms Lauren Wenham

Page 5 of 14 (5,14)



Terms and Conditions

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Legend:

Underground Cables:

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Overhead Conductors:

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Job Reference : SDR1548683
 STW6714

Scale : 1:250

Date : 27/09/2024

Grid Coordinates : 415102 417619

Produced For :
 Ms Lauren Wenham