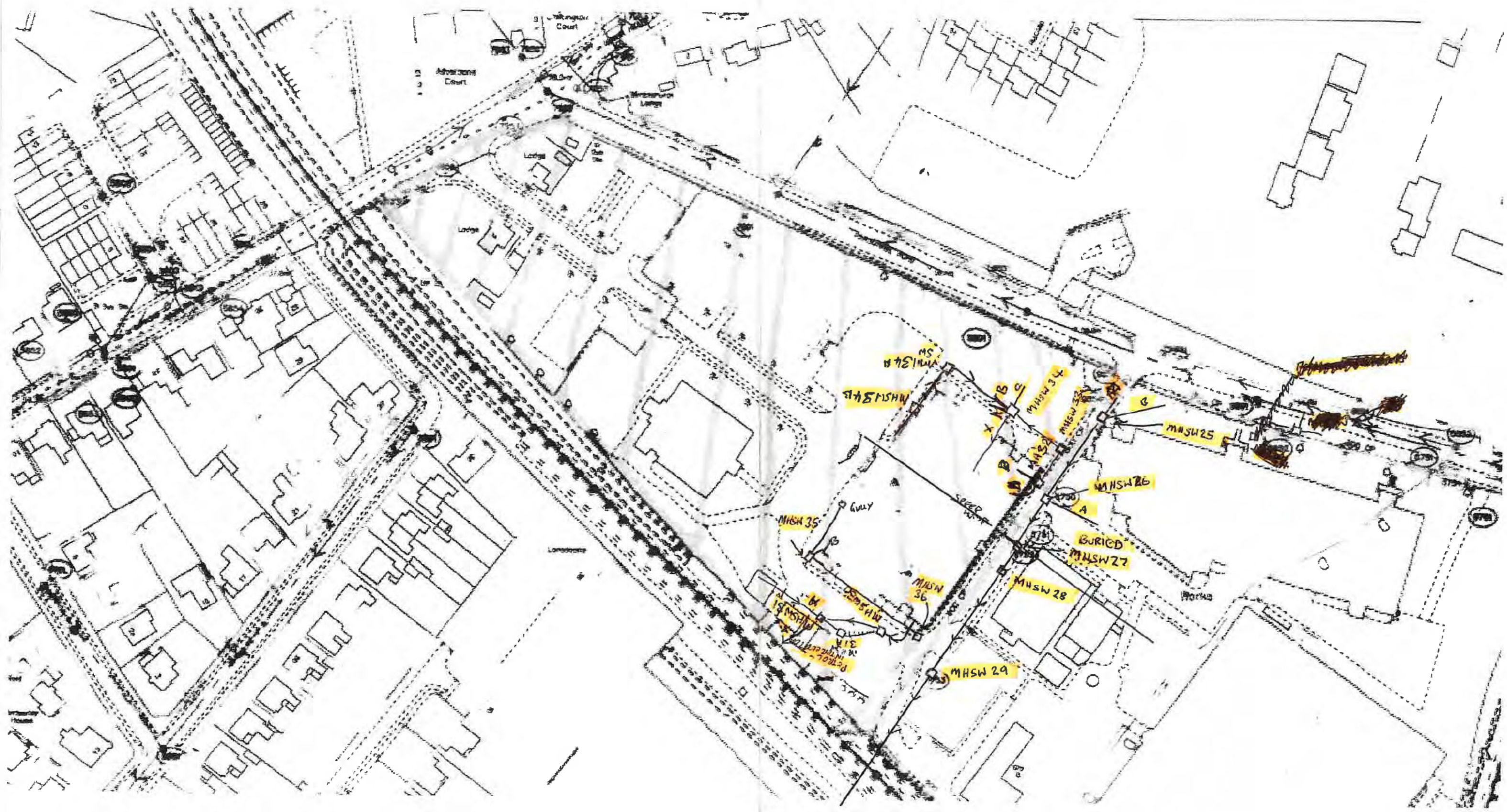


SURFACE WATER ONLY

1 of 2

MHSW25 3.2
MHSW 26 1.8
MHSW 27 1.8
MHSW 28 1.75
MHSW 30 2.15
MHSW 31 1.96
MHSW 32 0.95
MHSW 33 1.28

34 1.99
35 1.46



FW1 1-14
FW2 1-18
FW3 1-95
FW10 1-63

FOUL WATER ONLY
REDUNDANT FOUL LINE MARKED
ON DRAWING

2 of 2



Lanes Group plc - CCTV Report - Defect Grade Summary

The defect codes and observations used in this report are colour coded and fall into four main categories. Please refer to the descriptions below:

Structural Observations/Defects:

These codes/observations relate to the structural integrity of the drain or sewer and include defects such as cracks, fractures, moderate joint defects, holes, breaks and surface wear.

) Grade 3: Best practice suggests a medium term repair schedule is planned due to possible deterioration.

) Grade 4: Best practice suggests a repair schedule is planned in the short term to avoid potential collapse or increased damage.

) Grade 5: Best practice suggests an immediate repair schedule as the risk of collapse or further structural damage is very high.

Service Observations/Defects:

These codes/observations relate to the hydraulic efficiency of the drain or sewer, its capability to meet its service requirements, loss of capacity, potential for blockage/s and water tightness.

) Grade 3: Best practice suggests a medium term maintenance schedule is planned.

) Grade 4: Best practice suggests a repair schedule is planned in the short term to avoid potential blockages and/or flooding.

) Grade 5: Best practice suggests an immediate maintenance schedule is implemented as the risk of blockages and/or flooding is very high.

Miscellaneous Observations/Defects

These codes/observations relate to general items concerning the drain or sewer and cover changes to size, shape and materials, general remarks and photographs, vermin and abandoned surveys. These items should be considered individually by referring to the remarks presented in the section reports.

Construction Observations/Defects

These codes/observations relate to the general construction of the drain or sewer and covers connections/junctions, Lining and sealing defects, Node points and point repairs. These items should be considered individually by referring to the remarks presented in the section reports.

Thank you for choosing Lanes Group plc



CCTV reports overview

Profile Report	1
Inspection: 1	
Project Information	2
Section: 1, A --- MHSW25	3
Section: 2, B --- MHSW25	4
Section: 3, MHSW25 --- MHSW26	6
Section: 4, MHSW26 --- MHSW27	7
Section: 5, A --- MHSW26	8
Section: 6, MHSW28 --- MHSW29	9
Section: 7, MHSW29 --- X	11
Section: 8, A --- FW1	12
Section: 9, B --- FW1	14
Section: 10, FW1 --- FW2	16
Section: 11, FW2 --- FW3	17
Section: 12, A --- FW2	19
Section: 13, A --- MHSW30	21
Section: 14, MHSW30 --- MHSW31	23
Section: 15, MHSW31 --- X	24
Section: 16, A --- MHSW31	26
Section: 17, MHSW31A --- MHSW31	28
Section: 18, B --- MHSW32	29
Section: 19, A --- MHSW32	30
Section: 20, MHSW32 --- MHAW33	31
Section: 21, A --- FW10	33
Section: 22, B --- FW10	35
Section: 23, C --- FW10	36
Section: 24, FW10 --- X	37
Section: 25, MHSW33 --- MHSW34	38
Section: 26, MHSW34 --- X	39
Section: 27, A --- MHSW34	40



CCTV reports overview

Section: 28, B --- MHSW34	41
Section: 29, C --- MHSW34	43
Section: 30, FW11 --- FW12	44
Section: 31, A --- FW11	46
Section: 32, A --- MHSW35	47
Section: 33, B --- MHSW35	49
Section: 34, MHSW35 --- MHSW36	50
Section: 35, MHSW34A --- MHSW34	52



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

ΣØ / Main sections

Nr.	Upstream MH:	Downstream MH:	Date:	Road Name:	Diameter:	Material:	m	(m)
9	B	FW1	21/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	2.03	2.03
12	A	FW2	21/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	5.77	5.77
18	B	MHSW32	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	0.00	0.00
19	A	MHSW32	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	9.50	9.50
20	MHSW32	MHAW33	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	7.52	7.52
21	A	FW10	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	8.23	8.23
22	B	FW10	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	2.42	2.42
23	C	FW10	22/08/2018	WIMBLEHURST ROAD	100 mm	Cast iron pipe	17.29	17.29
25	MHSW33	MHSW34	22/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	14.97	14.97
26	MHSW34	X	22/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	1.05	1.05
27	A	MHSW34	22/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	2.11	2.11
28	B	MHSW34	22/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	8.64	8.64
29	C	MHSW34	22/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	0.97	0.97
32	A	MHSW35	23/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	15.86	15.86
33	B	MHSW35	23/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	2.36	2.36
34	MHSW35	MHSW36	23/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	26.52	26.52
35	MHSW34A	MHSW34	23/08/2018	WIMBLEHURST ROAD	100 mm	Clay pipe	0.02	0.00

Pipe size: CIRCULAR 100/0 = 125.26 m (125.24 m)

Nr.	Upstream MH:	Downstream MH:	Date:	Road Name:	Diameter:	Material:	m	(m)
5	A	MHSW26	21/08/2018	WIMBLEHURST ROAD	150 mm	Concrete pipe	8.37	8.37
8	A	FW1	21/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	7.59	7.59
10	FW1	FW2	21/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	5.00	5.00
11	FW2	FW3	21/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	5.34	5.34
13	A	MHSW30	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	4.64	4.64
14	MHSW30	MHSW31	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	8.00	8.00
15	MHSW31	X	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	15.40	15.40
16	A	MHSW31	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	19.22	19.22
17	MHSW31A	MHSW31	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	2.15	2.15
24	FW10	X	22/08/2018	WIMBLEHURST ROAD	150 mm	Clay pipe	7.22	7.22
30	FW11	FW12	23/08/2018	WIMBLEHURST ROAD	150 mm	Cast iron pipe	11.34	11.34
31	A	FW11	23/08/2018	WIMBLEHURST ROAD	150 mm	Cast iron pipe	0.82	0.82

Pipe size: CIRCULAR 150/0 = 95.09 m (95.09 m)

Nr.	Upstream MH:	Downstream MH:	Date:	Road Name:	Diameter:	Material:	m	(m)
1	A	MHSW25	21/08/2018	WIMBLEHURST ROAD	450 mm	Concrete pipe	0.23	0.23
2	B	MHSW25	21/08/2018	WIMBLEHURST ROAD	450 mm	Concrete pipe	9.26	9.26

Pipe size: CIRCULAR 450/0 = 9.49 m (9.49 m)

Nr.	Upstream MH:	Downstream MH:	Date:	Road Name:	Diameter:	Material:	m	(m)
3	MHSW25	MHSW26	21/08/2018	WIMBLEHURST ROAD	600 mm	Concrete pipe	33.09	33.09
4	MHSW26	MHSW27	21/08/2018	WIMBLEHURST ROAD	600 mm	Concrete pipe	19.02	19.02
6	MHSW28	MHSW29	21/08/2018	WIMBLEHURST ROAD	600 mm	Concrete pipe	53.41	53.41
7	MHSW29	X	21/08/2018	WIMBLEHURST ROAD	600 mm	Concrete pipe	28.74	28.74

Pipe size: CIRCULAR 600/0 = 134.26 m (134.26 m)

All sections = 364.1 m (364.08 m)



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Project Information Overview:

Client: **Hampshire County Council**
Contact Name:
Department: **Maple Ridge School**
Road: **Maple Ridge Crescent**
Town: **Basingstoke**
County: **RG21 5SX**
Telephone:
Fax:
Mobile:
E-mail:

Site: **Hampshire County Council**
Contact Name: **Novartis Site**
Department:
Road: **Wimblehurst Rd/Parsonage Rd**
Town: **Horsham**
County: **West Sussex RH12 2EE**
Telephone:
Fax:
Mobile:
E-mail:

Contractor **Lanes Group Plc**
Contact Name: **Duncan Rose**
Department: **Regional Manager**
Road: **8 Mill Place, Platt Industrial Estate,**
Town: **Maidstone Road, Sevenoaks**
County: **Kent, TN15 8FD**
Telephone: **01732 783110**
Fax:
Mobile:
E-mail: **southeastops@lanesgroup.co.uk**



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 1
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 0.23 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW25
Location: Building site	Direction: MHSW25 (U/S) A	D/S Depth(m): 3.2
Asset Use: Surface water	Asset Dia (mm): 450 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Concrete pipe	

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 3.2						
	MHSW25	0.00	MH	Start node type, manhole, reference number : MHSW25	00:00:00	(Constr) 0
	A	0.00	WL	Water level, 0% of the vertical dimension	00:00:02	(Serv) 0
		0.23	LU	Line deviates up Remarks: Sharp	00:00:33	(Serv) 0
		0.23	OCF	Finish node type, other special chamber reference number: A Remarks: Base of Stack	00:00:43	(Constr) 0

Depth: Unable to locate

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
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Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 2
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 9.26 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW25
Location: Building site	Direction: MHSW25 (U/S) B	D/S Depth(m): 3.2
Asset Use: Surface water	Asset Dia (mm): 450 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Concrete pipe	

Comments:

1:75	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 3.2						
		MH	Start node type, manhole, reference number : MHSW25	00:00:00		(Constr) 0
		WL	Water level, 0% of the vertical dimension	00:00:03		(Serv) 0
		DEC	Settled deposits, hard or compacted, 95% cross-sectional area loss Remarks: POSSIBLE COLLAPSE	00:01:03		(Serv) 5
		SA	Survey abandoned Remarks: POSSIBLE COLLAPSE	00:01:10	3_3_9_A.JPG	(Misc) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	10	1.08	10	5



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
21/08/2018

Section number :
2

Asset Size(mm):
450 mm



Photo: 3_3_9_A.JPG

9.26m, Survey abandoned Remarks: POSSIBLE COLLAPSE



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 3
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.6m	Cover location: Tarmac	Total Length (m): 33.09 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW25
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): 3.2
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW26
Location: Building site	Direction: MHSW25 (D/S) MHSW26	D/S Depth(m): 1.8
Asset Use: Surface water	Asset Dia (mm): 600 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Concrete pipe	

Comments:

1:270	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 3.2						
	0.00	MH	Start node type, manhole, reference number : MHSW25	00:00:00		(Constr) 0
	0.00	WL	Water level, 5% of the vertical dimension	00:00:06		(Serv) 0
Depth: 1.8						
	33.09	MHF	Finish node type, manhole reference number: MHSW26	00:02:14		(Constr) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Hampshire CC-Novartis RH12 2EE-PJ00305566



Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 4
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.6m	Cover location: Tarmac	Total Length (m): 19.02 m

Asset Use:	Surface water	Asset Dia (mm):	600 mm
Asset type:	Gravity drain	Asset width (mm):	0 mm
Purpose:	Connectivity investigation	Asset shape:	Circular
Asset Lining:	No Lining	Asset material:	Concrete pipe

1:150	Position	Code	Observations and Remarks	MPEG	Photo	Grade	
Depth: 1.8							
	0.00	MH	Start node type, manhole, reference number : MHSW26	00:00:00		(Constr) 0	
	0.00	WL	Water level, 5% of the vertical dimension	00:00:03		(Serv) 0	
	0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, Start	00:00:07		(Serv) 2
	19.02	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, End	00:01:21		(Serv) 2
	19.02	CPF	Finish node type, catchpit reference number: MHSW27 Remarks: BURIED UNDER SPEED HUMP	00:01:23		(Constr) 0	
Depth: Buried catchpit							

Hampshire CC-Novartis RH12 2EE-PJ00305566



Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 5
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 8.37 m

Comments:	
-----------	--

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	10	1.19	10	5



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 6
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.6m	Cover location: Tarmac	Total Length (m): 53.41 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW28
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): 1.8
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW29
Location: Building site	Direction: MHSW29 (U/S) MHSW28	D/S Depth(m): 1.75
Asset Use: Surface water	Asset Dia (mm): 600 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Concrete pipe	

Comments:

1:435	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.75						
	MHSW29	0.00	MH	Start node type, manhole, reference number : MHSW29	00:00:00	(Constr) 0
		0.00	WL	Water level, 5% of the vertical dimension	00:00:02	(Serv) 0
		9.84	WL	Water level, 10% of the vertical dimension	00:00:41	(Serv) 0
		16.09	WL	Water level, 5% of the vertical dimension	00:01:09	(Serv) 0
		19.70	ISJ	Infiltration, seeping at joint, from 6 to 12 o'clock	00:01:29	7_7_27_A.JPG G (Serv) 0
	MHSW28	53.41	CPF	Finish node type, catchpit reference number: MHSW28	00:03:43	(Constr) 0
Depth: 1.8						

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
21/08/2018

Section number :
6

Asset Size(mm):
600 mm



Photo: 7_7_27_A.JPG

19.7m, Infiltration, seeping at joint, from 6 to 12 o'clock



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Kent, TN15 8FD
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Email: southeastops@lanesgroup.co.uk

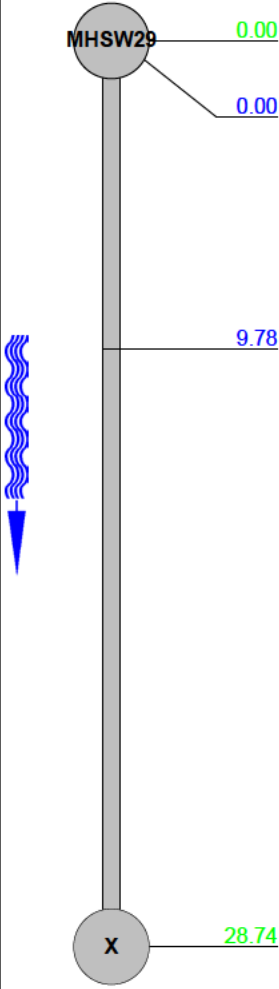
Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 7
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.6m	Cover location: Tarmac	Total Length (m): 28.74 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW29
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): 1.75
Postcode: RH12 2EE	Owner: Unknown	D/S MH : X
Location: Building site	Direction: MHSW29 (D/S) X	D/S Depth(m): Unable to locate

Asset Use: Surface water	Asset Dia (mm): 600 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Concrete pipe

Comments: LINE RUNS OUT OF BOUNDARY UNDER RAILWAY TRACK

1:240	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.75						
	0.00	MH	Start node type, manhole, reference number : MHSW29	00:00:00		(Constr) 0
	0.00	WL	Water level, 5% of the vertical dimension	00:00:01		(Serv) 0
	9.78	WL	Water level, 10% of the vertical dimension	00:00:50		(Serv) 0
	28.74	MHF	Finish node type, manhole reference number: X Remarks: 00:02:04 OUT OF BOUNDARY			(Constr) 0
Depth: Unable to locate						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 8
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 7.59 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW1
Location: Building site	Direction: FW1 (U/S) A	D/S Depth(m): 1.14
Asset Use: Foul waste	Asset Dia (mm): 150 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:60	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.14						
	0.00	MH	Start node type, manhole, reference number : FW1	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	0.31	JDM	Joint displaced, medium	00:00:24	9_9_35_A.JPG	(Struct) 1
	0.57	SC	Dimension changes, 100mm high, 150mm wide	00:00:45		0
	1.03	MC	Material changes, cast iron	00:00:59		(Misc) 0
	1.15	LR	Line deviates right Remarks: Slight	00:01:05		(Serv) 0
	6.08	LU	Line deviates up Remarks: Sharp	00:02:01		(Serv) 0
	7.59	OCF	Finish node type, other special chamber reference number: A Remarks: SVP	00:02:23		(Constr) 0

Depth: Unable to locate

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
21/08/2018

Section number :
8

Asset Size(mm):
150 mm



Photo: 9_9_35_A.JPG
0.31m, Joint displaced, medium



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 9
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 2.03 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: No	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW1
Location: Building site	Direction: FW1 (U/S) B	D/S Depth(m): 1.14
Asset Use: Foul waste	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.14						
	0.00	MH	Start node type, manhole, reference number : FW1	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:03		(Serv) 0
	0.21	FLJ	Fracture, longitudinal at joint, at 3 o'clock	00:00:20		(Struct) 3
	0.21	FLJ	Fracture, longitudinal at joint, at 10 o'clock	00:00:22		(Struct) 3
	0.21	FLJ	Fracture, longitudinal at joint, at 8 o'clock	00:00:24	10_10_45_A.J PG	(Struct) 3
	0.89	MC	Material changes, cast iron	00:00:52		(Misc) 0
	2.03	OCF	Finish node type, other special chamber reference number: B Remarks: REST BEND	00:01:16		(Constr) 0

Depth: Unable to locate

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
21/08/2018

Section number :
9

Asset Size(mm):
100 mm



Photo: 10_10_45_A.JPG
0.21m, Fracture, longitudinal at joint, at 8 o'clock



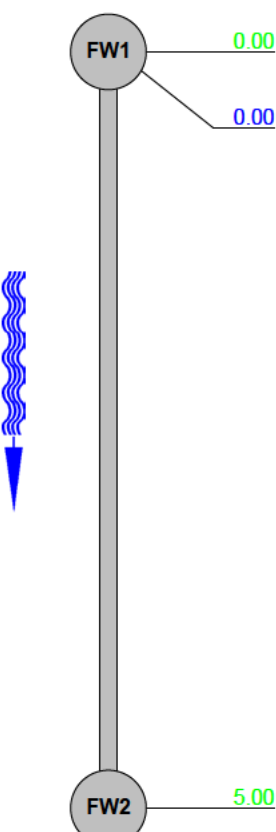
Lanes Group Plc
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Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 10
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 5.00 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: FW1
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.14
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW2
Location: Building site	Direction: FW1 (D/S) FW2	D/S Depth(m): 1.15
Asset Use: Foul waste	Asset Dia (mm): 150 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.14						
	0.00	MH	Start node type, manhole, reference number : FW1	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
Depth: 1.15						
	5.00	MHF	Finish node type, manhole reference number: FW2	00:01:00		(Constr) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Hampshire CC-Novartis RH12 2EE-PJ00305566



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 11
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 5.34 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: FW2
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.19
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW3
Location: Building site	Direction: FW2 (D/S) FW3	D/S Depth(m): 0.95
Asset Use: Foul waste	Asset Dia (mm): 150 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.19						
	0.00	MH	Start node type, manhole, reference number : FW2	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:04		(Serv) 0
	0.13	JDM	Joint displaced, medium	00:00:25	12_12_53_A.J PG	(Struct) 1
	0.66	CC	Crack, circumferential, from 12 to 12 o'clock	00:00:58	12_12_54_A.J PG	(Struct) 2
	4.84	CL	Crack, longitudinal, at 12 o'clock	00:02:13	12_12_55_A.J PG	(Struct) 2
	5.34	MHF	Finish node type, manhole reference number: FW3	00:02:39		(Constr) 0
Depth: 0.95						

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	10	3.75	20	2	0	0	0	0	1

Hampshire CC-Novartis RH12 2EE-PJ00305566



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8 Mill Place, Platt Industrial Estate,
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Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
21/08/2018

Section number :
11

Asset Size(mm):
150 mm



Photo: 12_12_53_A.JPG
0.13m, Joint displaced, medium



Photo: 12_12_54_A.JPG
0.66m, Crack, circumferential, from 12 to 12 o'clock



Photo: 12_12_55_A.JPG
4.84m, Crack, longitudinal, at 12 o'clock



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 21/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 12
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 5.77 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW2
Location: Building site	Direction: FW2 (U/S) A	D/S Depth(m): 1.19
Asset Use: Foul waste	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:60	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.19						
	FW2	MH	Start node type, manhole, reference number : FW2	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:12		(Serv) 0
	0.39	CC	Crack, circumferential, from 6 to 12 o'clock	00:00:38	13_13_60_A.J PG	(Struct) 2
	0.45	JDM	Joint displaced, medium	00:01:04	13_13_61_A.J PG	(Struct) 1
	1.07	REM	General remark Remarks: CONCRETE AROUND JOINT	00:01:49	13_13_62_A.J PG	(Misc) 0
	1.13	MC	Material changes, cast iron	00:02:13		(Misc) 0
	A	OCF	Finish node type, other special chamber reference number: A Remarks: REST BEND	00:03:11		(Constr) 0
Depth: Unable to locate						

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	1.73	10	2	0	0	0	0	1



Observation Inspection Photographs:

City: HORSHAM	Road Name: WIMBLEHURST ROAD	Date : 21/08/2018	Section number : 12	Asset Size(mm): 100 mm
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Photo: 13_13_60_A.JPG
0.39m, Crack, circumferential, from 6 to 12 o'clock



Photo: 13_13_61_A.JPG
0.45m, Joint displaced, medium



Photo: 13_13_62_A.JPG
1.07m, General remark Remarks: CONCRETE AROUND JOINT



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 13
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 4.64 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW30
Location: Building site	Direction: MHSW30 (U/S) A	D/S Depth(m): 2.15
Asset Use: Surface water	Asset Dia (mm): 150 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 2.15						
	0.00	MH	Start node type, manhole, reference number : MHSW30	00:00:00		(Constr) 0
	0.00	WL	Water level, 10% of the vertical dimension	00:00:01		(Serv) 0
	0.81	WL	Water level, 5% of the vertical dimension	00:00:23		(Serv) 0
	2.94	LL	Line deviates left	00:00:50		(Serv) 0
	3.48	JDM	Joint displaced, medium	00:01:05	14_14_70_A.J PG	(Struct) 1
	4.08	JDM	Joint displaced, medium	00:01:32		(Struct) 1
	4.10	MC	Material changes, cast iron	00:01:35		(Misc) 0
	4.64	SA	Survey abandoned Remarks: UNABLE TO PASS	00:01:58		(Misc) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
22/08/2018

Section number :
13

Asset Size(mm):
150 mm



Photo: 14_14_70_A.JPG
3.48m, Joint displaced, medium



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 14
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 8.00 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW30
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 2.15
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW31
Location: Building site	Direction: MHSW30 (D/S) MHSW31	D/S Depth(m): Interceptor
Asset Use: Surface water	Asset Dia (mm): 150 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:75	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 2.15						
		0.00	MH	Start node type, manhole, reference number : MHSW30	00:00:00	(Constr) 0
		0.00	WL	Water level, 5% of the vertical dimension	00:00:02	(Serv) 0
		0.76	WL	Water level, 20% of the vertical dimension	00:00:42	(Serv) 0
		6.76	WL	Water level, 50% of the vertical dimension	00:03:09	(Serv) 0
		8.00	MHF	Finish node type, manhole reference number: MHSW31	00:03:26	(Constr) 0
Depth: Interceptor						

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 15
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 15.40 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW31
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.96
Postcode: RH12 2EE	Owner: Unknown	D/S MH : X
Location: Building site	Direction: MHSW31 (D/S) X	D/S Depth(m): Unable to locate
Asset Use: Surface water	Asset Dia (mm): 150 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:135	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.96						
	MHSW31	0.00	MH	Start node type, manhole, reference number : MHSW31	00:00:00	(Constr) 0
		0.00	WL	Water level, 5% of the vertical dimension	00:00:02	(Serv) 0
		3.45	WL	Water level, 10% of the vertical dimension	00:00:29	(Serv) 0
		4.59	WL	Water level, 20% of the vertical dimension	00:00:46	(Serv) 0
		4.76	FL	Fracture, longitudinal, at 12 o'clock	00:00:56	16_16_84_A.J PG (Struct) 3
		4.99	FC	Fracture, circumferential, from 6 to 12 o'clock	00:01:17	(Struct) 3
		4.99	WL	Water level, 50% of the vertical dimension	00:01:21	(Serv) 0
	6.00 S01	CUW	Loss of vision, camera under water, Start	00:01:39		(Misc) 0
	15.38 F01	CUW	Loss of vision, camera under water, End	00:02:26		(Misc) 0
	15.40	SA	Survey abandoned Remarks: UNDER WATER	00:02:28		(Misc) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	80	5.2	80	4	0	0	0	0	1



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Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
22/08/2018

Section number :
15

Asset Size(mm):
150 mm



Photo: 16_16_84_A.JPG
4.76m, Fracture, longitudinal, at 12 o'clock



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 16
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 19.22 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW31
Location: Building site	Direction: MHSW31 (U/S) A	D/S Depth(m): 1.96
Asset Use: Surface water	Asset Dia (mm): 150 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:165	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.96						
	0.00	MH	Start node type, manhole, reference number : MHSW31	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	0.95	LL	Line deviates left	00:00:20		(Serv) 0
	1.53	LR	Line deviates right	00:00:32		(Serv) 0
	4.71	CC	Crack, circumferential, from 10 to 5 o'clock	00:00:58		(Struct) 2
	5.33	JDM	Joint displaced, medium	00:01:11	17_17_95_A.J PG	(Struct) 1
	5.33	MC	Material changes, cast iron	00:01:24		(Misc) 0
	5.85	JN	Junction, at 3 o'clock, diameter 100mm	00:01:39		(Constr) 0
	10.73	JN	Junction, at 9 o'clock, diameter 100mm	00:02:11		(Constr) 0
	19.22	MC	Material changes, vitrified clay	00:03:25		(Misc) 0
	19.22	SA	Survey abandoned Remarks: UNABLE TO PASS SIZE CHANGE	00:03:36		(Misc) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	0.52	10	2	0	0	0	0	1

Hampshire CC-Novartis RH12 2EE-PJ00305566



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Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
22/08/2018

Section number :
16

Asset Size(mm):
150 mm

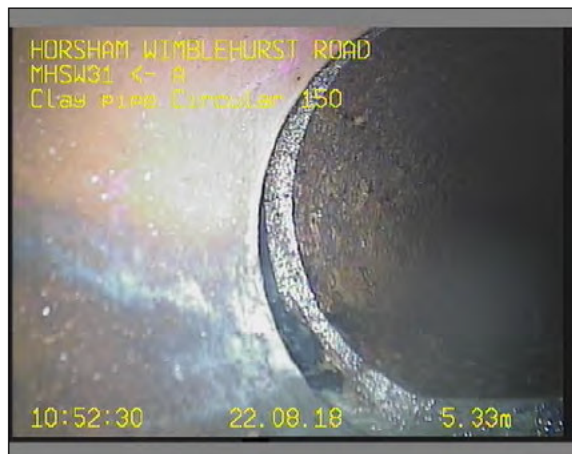


Photo: 17_17_95_A.JPG
5.33m, Joint displaced, medium



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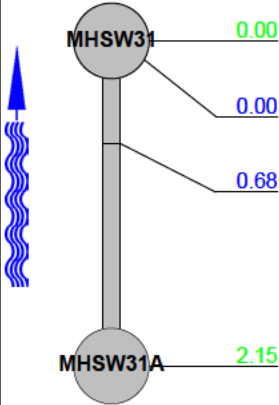
Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 17
Main ground type: Tarmac	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Tarmac	Total Length (m): 2.15 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW31A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): INTERCEPTOR
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW31
Location: Building site	Direction: MHSW31 (U/S) MHSW31A	D/S Depth(m): 1.96

Asset Use: Surface water	Asset Dia (mm): 150 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: CCTV TO PETROL INTERCEPTOR

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.96						
	MHSW31	0.00	MH	Start node type, manhole, reference number : MHSW31	00:00:00	(Constr) 0
		0.00	WL	Water level, 0% of the vertical dimension	00:00:02	(Serv) 0
		0.68	LU	Line deviates up	00:00:29	(Serv) 0
	MHSW31A	2.15	MHF	Finish node type, manhole reference number: MHSW31A Remarks: PETROL INTERCEPTOR	00:00:54	(Constr) 0
Depth: INTERCEPTOR						

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



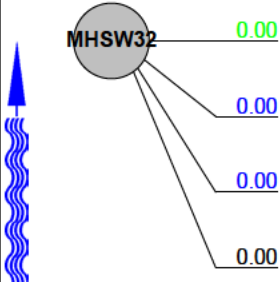
Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
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Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 18
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 0.00 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW32
Location: Building site	Direction: MHSW32 (U/S) B	D/S Depth(m): 0.95
Asset Use: Surface water	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Cast iron pipe	

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 0.95						
	0.00	MH	Start node type, manhole, reference number : MHSW32	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	0.00	DEE	Attached deposits, encrustation, from 5 to 7 o'clock, 15% cross-sectional area loss	00:00:05		(Serv) 3
	0.00	SA	Survey abandoned Remarks: UNABLE TO PASS	00:00:40		(Misc) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	2	0	2	3



Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 19
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 9.50 m

Street/Road: WIMBLEHURST ROAD		Flow Control: No flow control		U/S MH: A	
Town/City: HORSHAM		Pre-Cleaned: Yes		U/S Depth(m): Unable to locate	
Postcode: RH12 2EE		Owner: Unknown		D/S MH : MHSW32	
Location: Building site		Direction: MHSW32 (U/S) A		D/S Depth(m): 0.95	
Asset Use: Surface water			Asset Dia (mm): 100 mm		
Asset type: Gravity drain			Asset width (mm): 0 mm		
Purpose: Connectivity investigation			Asset shape: Circular		
Asset Lining: No Lining			Asset material: Cast iron pipe		

1:75	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 0.95						
	0.00	MH	Start node type, manhole, reference number : MHSW32	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	0.22	DER	Settled deposits, coarse, 10% cross-sectional area loss	00:00:26		(Serv) 3
	9.50	LU	Line deviates up	00:01:32		(Serv) 0
	9.50	OCF	Finish node type, other special chamber reference number: A Remarks: END OF SURVEY	00:01:42		(Constr) 0
Depth: Unable to locate						

Defect: Unable to locate									
Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	2	0.21	2	3



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 20
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 7.52 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW32
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 0.95
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHAW33
Location: Building site	Direction: MHSW32 (D/S) MHAW33	D/S Depth(m): 1.28
Asset Use: Surface water	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Cast iron pipe	

Comments:

1:60	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 0.95						
	0.00	MH	Start node type, manhole, reference number : MHSW32	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	3.76	CC	Crack, circumferential, from 12 to 12 o'clock	00:01:23	21_21_118_A.JPG	(Struct) 2
	7.52	MHF	Finish node type, manhole reference number: MHAW33	00:02:28		(Constr) 0
Depth: 1.28						

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	1.33	10	2	0	0	0	0	1

Hampshire CC-Novartis RH12 2EE-PJ00305566



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
22/08/2018

Section number :
20

Asset Size(mm):
100 mm



Photo: 21_21_118_A.JPG
3.76m, Crack, circumferential, from 12 to 12 o'clock



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8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 21
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 8.23 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Soil vent pipe
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW10
Location: Building site	Direction: FW10 (U/S) A	D/S Depth(m): 1.63
Asset Use: Foul waste	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Cast iron pipe	

Comments:

1:75	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.63						
	0.00	MH	Start node type, manhole, reference number : FW10	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	0.67	CC	Crack, circumferential, from 12 to 5 o'clock	00:00:22	22_22_122_A.JPG	(Struct) 2
	0.67	DES	Settled deposits, fine, 5% cross-sectional area loss	00:00:34		(Serv) 2
	1.04	OJM	Open joint, medium	00:00:50	22_22_124_A.JPG	(Struct) 1
	1.89	CC	Crack, circumferential, from 12 to 4 o'clock	00:01:15		(Struct) 2
	2.69	MC	Material changes, cast iron	00:01:34		(Misc) 0
	8.23	OCF	Finish node type, other special chamber reference number: A Remarks: REST BEND	00:02:22		(Constr) 0
Depth: Soil vent pipe						

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
3	10	2.55	21	2	1	1	0.12	1	2

Hampshire CC-Novartis RH12 2EE-PJ00305566



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8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
22/08/2018

Section number :
21

Asset Size(mm):
100 mm



Photo: 22_22_122_A.JPG
0.67m, Crack, circumferential, from 12 to 5 o'clock



Photo: 22_22_124_A.JPG
1.04m, Open joint, medium



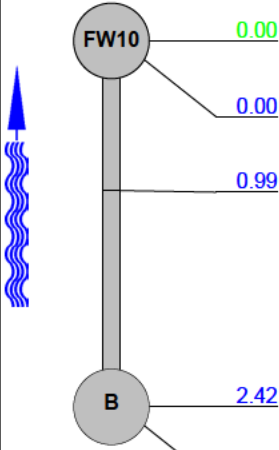
Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 22
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 2.42 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Soil vent pipe
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW10
Location: Building site	Direction: FW10 (U/S) B	D/S Depth(m): 1.63
Asset Use: Foul waste	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Cast iron pipe	

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.63						
	0.00	MH	Start node type, manhole, reference number : FW10	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	0.99	S01 DEE	Attached deposits, encrustation, from 12 to 12 o'clock, 5% cross-sectional area loss, Start	00:00:58		(Serv) 3
	2.42	F01 DEE	Attached deposits, encrustation, from 12 to 12 o'clock, 5% cross-sectional area loss, End	00:01:21		(Serv) 3
	2.42	OCF	Finish node type, other special chamber reference number: B Remarks: REST BEND	00:01:30		(Constr) 0

Depth: Soil vent pipe

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	2	1.24	3	3



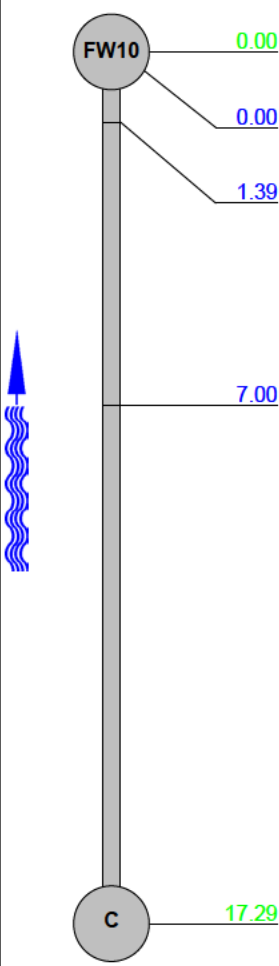
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8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 23
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 17.29 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: C
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Soil vent pipe
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW10
Location: Building site	Direction: FW10 (U/S) C	D/S Depth(m): 1.63
Asset Use: Foul waste	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Cast iron pipe	

Comments:

1:150	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.63						
	0.00	MH	Start node type, manhole, reference number : FW10	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	1.39	S01 DES	Settled deposits, fine, 5% cross-sectional area loss, Start	00:01:01		(Serv) 2
	7.00	F01 DES	Settled deposits, fine, 5% cross-sectional area loss, End	00:01:38		(Serv) 2
	17.29	MHF	Finish node type, manhole reference number: C Remarks: 00:02:35 INTERNAL			(Constr) 0
Depth: Soil vent pipe						

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	1	0.33	5.7	2



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 24
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 7.22 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: FW10
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.63
Postcode: RH12 2EE	Owner: Unknown	D/S MH : X
Location: Building site	Direction: FW10 (D/S) X	D/S Depth(m): Unable to locate
Asset Use: Foul waste	Asset Dia (mm): 150 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:60	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.63						
	0.00	MH	Start node type, manhole, reference number : FW10	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	3.23	WL	Water level, 10% of the vertical dimension	00:00:26		(Serv) 0
	4.51	S01 CUD	Loss of vision, silt, Start Remarks: PUMP STATION FULL	00:00:39		(Misc) 0
	7.22	F01 CUD	Loss of vision, silt, End Remarks: PUMP STATION FULL	00:01:00		(Misc) 0
	7.22	SA	Survey abandoned Remarks: PUMP STATION FULL	00:01:02		(Misc) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Hampshire CC-Novartis RH12 2EE-PJ00305566



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 25
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 14.97 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW33
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.28
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW34
Location: Building site	Direction: MHSW34 (U/S) MHSW33	D/S Depth(m): 1.99
Asset Use: Foul waste	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:120	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.99						
		MHSW34	0.00	MH	Start node type, manhole, reference number : MHSW34	00:00:00 (Constr) 0
			0.00	WL	Water level, 0% of the vertical dimension	00:00:01 (Serv) 0
		0.00 S01	REM	General remark, Start Remarks: PATCH LINER IN VIEW	00:00:03	(Misc) 0
		0.74 F01	REM	General remark, End Remarks: PATCH LINER IN VIEW	00:00:15	(Misc) 0
		1.63	CN	Connection other than junction, at 12 o'clock, diameter 150mm	00:00:29	(Constr) 0
		MHSW33	14.97	MHF	Finish node type, manhole reference number: MHSW33	00:01:58 (Constr) 0
Depth: 1.28						

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



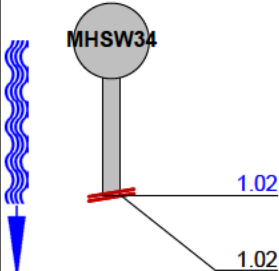
Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 26
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 1.05 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW34
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.99
Postcode: RH12 2EE	Owner: Unknown	D/S MH : X
Location: Building site	Direction: MHSW34 (D/S) X	D/S Depth(m): Unable to locate
Asset Use: Foul waste	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.99						
						
		DER	Settled deposits, coarse, 30% cross-sectional area loss Remarks: UNABLE TO BACK JET	00:00:27		(Serv) 4
		SA	Survey abandoned Remarks: UNABLE TO CLEAN	00:00:29		(Misc) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	5	4.76	5	4



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8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 27
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 2.11 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW34
Location: Building site	Direction: MHSW34 (U/S) A	D/S Depth(m): 1.99
Asset Use: Foul waste	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.99						
	0.00	MH	Start node type, manhole, reference number : MHSW34	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01		(Serv) 0
	0.42	WL	Water level, 50% of the vertical dimension	00:00:09		(Serv) 0
	0.46	S01 CUD	Loss of vision, silt, Start	00:00:12		(Misc) 0
	1.39	F01 CUD	Loss of vision, silt, End	00:00:23		(Misc) 0
	1.39	WL	Water level, 0% of the vertical dimension	00:00:29		(Serv) 0
	1.87	MC	Material changes, cast iron	00:00:39		(Misc) 0
	2.11	OCF	Finish node type, other special chamber reference number: A Remarks: LINE UP	00:00:50		(Constr) 0

Depth: Unable to locate

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 28
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 8.64 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW34
Location: Building site	Direction: MHSW34 (U/S) B	D/S Depth(m): 1.99
Asset Use: Surface water	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:75	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.99						
	MHSW34	0.00	MH	Start node type, manhole, reference number : MHSW34	00:00:00	(Constr) 0
		0.00	WL	Water level, 0% of the vertical dimension	00:00:01	(Serv) 0
		2.38	CC	Crack, circumferential, from 12 to 12 o'clock	00:00:47	(Struct) 2
		3.50	JDM	Joint displaced, medium	00:00:59	(Struct) 1
		4.66	FC	Fracture, circumferential, from 12 to 6 o'clock	00:01:09	29_29_167_A.JPG (Struct) 3
		5.80	REM	General remark Remarks: PATCH LINER	00:01:33	(Misc) 0
		8.54	REM	General remark Remarks: DEFECTIVE PATCH	00:01:55	(Misc) 0
		8.64	SA	Survey abandoned Remarks: UNABLE TO PASS PATCH	00:02:19	(Misc) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	40	5.85	50	3	0	0	0	0	1

Hampshire CC-Novartis RH12 2EE-PJ00305566



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
22/08/2018

Section number :
28

Asset Size(mm):
100 mm



Photo: 29_29_167_A.JPG

4.66m, Fracture, circumferential, from 12 to 6 o'clock



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8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

Lanes Group - Drainage CCTV Inspection report

Date of survey: 22/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 29
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 0.97 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: C
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW34
Location: Building site	Direction: MHSW34 (U/S) C	D/S Depth(m): 1.99

Asset Use: Surface water	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.99						
	0.43	LU	Line deviates up	00:00:12		(Serv) 0
	0.72	JDM	Joint displaced, medium	00:00:19		(Struct) 1
	0.95	SA	Survey abandoned Remarks: UNABLE TO PASS JOINT	00:00:40		(Misc) 0

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



Lanes Group Plc
8 Mill Place, Platt Industrial Estate,
Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
Email: southeastops@lanesgroup.co.uk

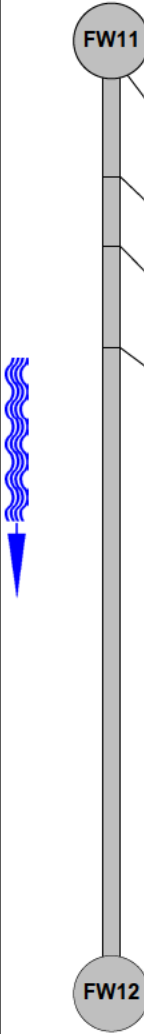
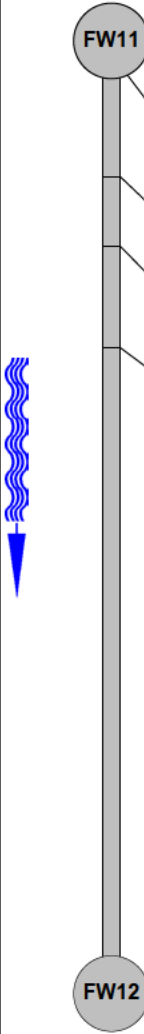
Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 30
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 11.34 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: FW11
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 0.9
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW12
Location: Building site	Direction: FW11 (D/S) FW12	D/S Depth(m): Unable to raise

Asset Use: Foul waste	Asset Dia (mm): 150 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Cast iron pipe

Comments: D/S MH IN HARRIS FENCED AREA WITH DANGER SIGNS

1:90	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 0.9						
	0.00	MH	Start node type, manhole, reference number : FW11	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:03		(Serv) 0
	0.30	JDM	Joint displaced, medium	00:00:17	31_31_179_A.JPG	(Struct) 1
	1.62	LL	Line deviates left Remarks: Slight	00:00:43		(Serv) 0
	2.45	S01 DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss, Start	00:01:04		(Serv) 3
	3.65	F01 DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss, End	00:01:17		(Serv) 3
Depth: Unable to raise						
	11.34	MHF	Finish node type, manhole reference number: FW12	00:02:09		(Constr) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	1	2	0.21	2.4	3



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Maidstone Road, Sevenoaks
Kent, TN15 8FD
Tel: 01732 783110
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Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
23/08/2018

Section number :
30

Asset Size(mm):
150 mm



Photo: 31_31_179_A.JPG
0.3m, Joint displaced, medium



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 Maidstone Road, Sevenoaks
 Kent, TN15 8FD
 Tel: 01732 783110
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Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 31
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 0.82 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Soil vent pipe
Postcode: RH12 2EE	Owner: Unknown	D/S MH : FW11
Location: Building site	Direction: FW11 (U/S) A	D/S Depth(m): 0.9
Asset Use: Foul waste	Asset Dia (mm): 150 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Cast iron pipe	

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 0.9						
	0.00	MH	Start node type, manhole, reference number : FW11	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:13		(Serv) 0
	0.82	OCF	Finish node type, other special chamber reference number: A Remarks: REST BEND	00:00:38		(Constr) 0
Depth: Soil vent pipe						

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



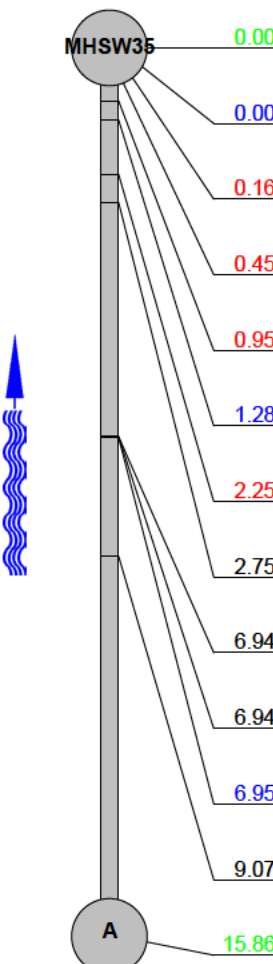
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Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 32
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 15.86 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW35
Location: Building site	Direction: MHSW35 (U/S) A	D/S Depth(m): 1.46
Asset Use: Surface water	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:135	Position	Code	Observations and Remarks	MPEG	Photo	Grade		
Depth: 1.46								
	MHSW35	0.00	MH	Start node type, manhole, reference number : MHSW35	00:00:00	(Constr) 0		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:02		(Serv) 0	
		0.16	CC	Crack, circumferential, from 12 to 12 o'clock	00:00:18	33_33_190_A.JPG	(Struct) 2	
		0.45	FCJ	Fracture, circumferential at joint, from 6 to 3 o'clock	00:00:44	33_33_191_A.JPG	(Struct) 3	
		0.95	CCJ	Crack, circumferential at joint, from 12 to 12 o'clock	00:01:01	33_33_192_A.JPG	(Struct) 2	
		1.28	WL	Water level, 10% of the vertical dimension	00:01:13		(Serv) 0	
		2.25	B	Broken pipe, from 12 to 12 o'clock	00:01:39	33_33_194_A.JPG	(Struct) 4	
		2.75	S01	CUW	Loss of vision, camera under water, Start	00:02:09		(Misc) 0
		6.94	F01	CUW	Loss of vision, camera under water, End	00:02:49		(Misc) 0
		6.94	REM	General remark Remarks: BELLY IN LINE	00:02:53		(Misc) 0	
		6.95	WL	Water level, 5% of the vertical dimension	00:02:58		(Serv) 0	
		9.07	MC	Material changes, polyethylene	00:03:14		(Misc) 0	
	A	15.86	GYF	Finish node type, gully reference number: A	00:04:10		(Constr) 0	
Depth: Unable to locate								

Structural Defects

Service Defects

Constructional Features

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	80	5.67	90	4	0	0	0	0	1

Hampshire CC-Novartis RH12 2EE-PJ00305566



Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
23/08/2018

Section number :
32

Asset Size(mm):
100 mm



Photo: 33_33_190_A.JPG
0.16m, Crack, circumferential, from 12 to 12 o'clock



Photo: 33_33_191_A.JPG
0.45m, Fracture, circumferential at joint, from 6 to 3 o'clock



Photo: 33_33_192_A.JPG
0.95m, Crack, circumferential at joint, from 12 to 12 o'clock



Photo: 33_33_194_A.JPG
2.25m, Broken pipe, from 12 to 12 o'clock



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Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 33
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 2.36 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: B
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): Unable to locate
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW35
Location: Building site	Direction: MHSW35 (U/S) B	D/S Depth(m): 1.46
Asset Use: Surface water	Asset Dia (mm): 100 mm	
Asset type: Gravity drain	Asset width (mm): 0 mm	
Purpose: Connectivity investigation	Asset shape: Circular	
Asset Lining: No Lining	Asset material: Clay pipe	

Comments:

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.46						
	0.00	MH	Start node type, manhole, reference number : MHSW35	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:03		(Serv) 0
	0.40	MC	Material changes, polypropylene	00:00:39		(Misc) 0
	1.10	LR	Line deviates right	00:00:55		(Serv) 0
	1.91	MC	Material changes, cast iron	00:01:11		(Misc) 0
	2.36	OCF	Finish node type, other special chamber reference number: B Remarks: RWP	00:01:23		(Constr) 0

Depth: Unable to locate

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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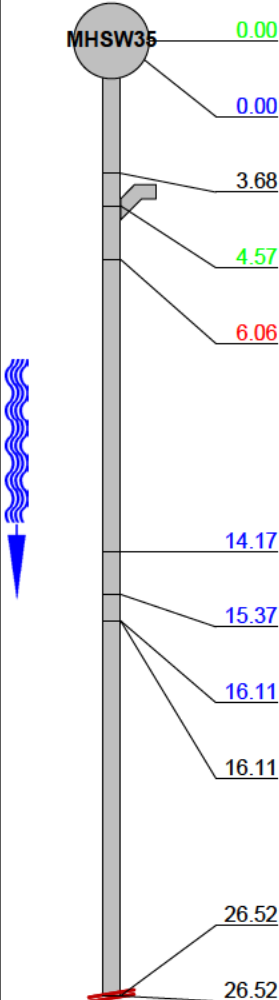
Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 34
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 26.52 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW35
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.46
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW36
Location: Building site	Direction: MHSW35 (D/S) MHSW36	D/S Depth(m): Unable to locate

Asset Use: Surface water	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: D/S MH IN FENCED OF AREA WITH HIGH VEGETATION
--

1:210	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.46						
	0.00	MH	Start node type, manhole, reference number : MHSW35	00:00:00		(Constr) 0
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		(Serv) 0
	3.68	REM	General remark Remarks: SECTION OF LINER	00:00:52		(Misc) 0
	4.57	JN	Junction, at 11 o'clock, diameter 100mm	00:01:16		(Constr) 0
	6.06	CCJ	Crack, circumferential at joint, from 11 to 3 o'clock	00:01:41	35_35_217_A.JPG	(Struct) 2
	14.17	WL	Water level, 5% of the vertical dimension	00:02:57		(Serv) 0
	15.37	WL	Water level, 10% of the vertical dimension	00:03:13		(Serv) 0
	16.11	WL	Water level, 30% of the vertical dimension	00:03:26		(Serv) 0
	16.11 S01	CUW	Loss of vision, camera under water, Start	00:03:38		(Misc) 0
	26.52 F01	CUW	Loss of vision, camera under water, End	00:04:26		(Misc) 0
	26.52	SA	Survey abandoned Remarks: UNDER WATER	00:04:28		(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1



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8 Mill Place, Platt Industrial Estate,
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Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
23/08/2018

Section number :
34

Asset Size(mm):
100 mm



Photo: 35_35_217_A.JPG

6.06m, Crack, circumferential at joint, from 11 to 3 o'clock



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Kent, TN15 8FD
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Lanes Group - Drainage CCTV Inspection report

Date of survey: 23/08/2018	Lanes Job number: PJ305566	Method of Inspection: CCTV	CCTV Operator: A HARVEY	Weather: Dry	Section Number: 35
Main ground type: Grass	Vehicle: PO17 ZWE	Camera: EX Pushrod	Preset: 0.4m	Cover location: Grass	Total Length (m): 0.02 m

Street/Road: WIMBLEHURST ROAD	Flow Control: No flow control	U/S MH: MHSW34A
Town/City: HORSHAM	Pre-Cleaned: Yes	U/S Depth(m): 1.75
Postcode: RH12 2EE	Owner: Unknown	D/S MH : MHSW34
Location: Building site	Direction: MHSW34A (D/S) MHSW34	D/S Depth(m): 1.99

Asset Use: Surface water	Asset Dia (mm): 100 mm
Asset type: Gravity drain	Asset width (mm): 0 mm
Purpose: Connectivity investigation	Asset shape: Circular
Asset Lining: No Lining	Asset material: Clay pipe

Comments: UNABLE TO CLEAN

1:50	Position	Code	Observations and Remarks	MPEG	Photo	Grade
Depth: 1.75						
	MHSW34A	0.02	MH	Start node type, manhole, reference number : MHSW34A		
				36_36_226_A. (Constr) 0 JPG		
Depth: 1.99						
Structural Defects				Constructional Features		
Service Defects				Miscellaneous Features		
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak
					SER mean	SER total
					SER grade	



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Observation Inspection Photographs:

City:
HORSHAM

Road Name:
WIMBLEHURST ROAD

Date :
23/08/2018

Section number :
35

Asset Size(mm):
100 mm



Photo: 36_36_226_A.JPG

0.02m, Start node type, manhole, reference number :
MHSW34A



Project

Project Name: 2021_05_07 AXIO PASONAGE ROAD HORSHAM

Project Description: WinCan Import in Miraculix Standard

Project Date: 07/05/2021

Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)





Meeting House
 14 Bull Lane
 Rayleigh
 Essex S55 8JG
 Tel 0845 5675877

GENERAL		SURVEY LEGEND	
1	ADDITIONAL COMMENTS	1	12 OTHER BUS
2	ADDITIONAL COMMENTS	2	13 LAMP TEST
3	ADDITIONAL COMMENTS	3	14 OTHER TRUCK
4	ADDITIONAL COMMENTS	4	15 OTHER TRUCK
5	ADDITIONAL COMMENTS	5	16 OTHER TRUCK
6	ADDITIONAL COMMENTS	6	17 OTHER TRUCK
7	ADDITIONAL COMMENTS	7	18 OTHER TRUCK
8	ADDITIONAL COMMENTS	8	19 OTHER TRUCK
9	ADDITIONAL COMMENTS	9	20 OTHER TRUCK
10	ADDITIONAL COMMENTS	10	21 OTHER TRUCK
11	ADDITIONAL COMMENTS	11	22 OTHER TRUCK
12	ADDITIONAL COMMENTS	12	23 OTHER TRUCK
13	ADDITIONAL COMMENTS	13	24 OTHER TRUCK
14	ADDITIONAL COMMENTS	14	25 OTHER TRUCK
15	ADDITIONAL COMMENTS	15	26 OTHER TRUCK
16	ADDITIONAL COMMENTS	16	27 OTHER TRUCK
17	ADDITIONAL COMMENTS	17	28 OTHER TRUCK
18	ADDITIONAL COMMENTS	18	29 OTHER TRUCK
19	ADDITIONAL COMMENTS	19	30 OTHER TRUCK
20	ADDITIONAL COMMENTS	20	31 OTHER TRUCK
21	ADDITIONAL COMMENTS	21	32 OTHER TRUCK
22	ADDITIONAL COMMENTS	22	33 OTHER TRUCK
23	ADDITIONAL COMMENTS	23	34 OTHER TRUCK
24	ADDITIONAL COMMENTS	24	35 OTHER TRUCK
25	ADDITIONAL COMMENTS	25	36 OTHER TRUCK
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69	ADDITIONAL COMMENTS	69	80 OTHER TRUCK
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82	ADDITIONAL COMMENTS	82	93 OTHER TRUCK
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84	ADDITIONAL COMMENTS	84	95 OTHER TRUCK
85	ADDITIONAL COMMENTS	85	96 OTHER TRUCK
86	ADDITIONAL COMMENTS	86	97 OTHER TRUCK
87	ADDITIONAL COMMENTS	87	98 OTHER TRUCK
88	ADDITIONAL COMMENTS	88	99 OTHER TRUCK
89	ADDITIONAL COMMENTS	89	100 OTHER TRUCK
90	ADDITIONAL COMMENTS	90	101 OTHER TRUCK
91	ADDITIONAL COMMENTS	91	102 OTHER TRUCK
92	ADDITIONAL COMMENTS	92	103 OTHER TRUCK
93	ADDITIONAL	93	104 OTHER TRUCK

[illegible]

Backing			Further Investigation is required to verify
Weld			Wall

LEGEND & ABBREVIATIONS

	1. Power to the pump		1. 1/2" (1.27 cm)
	2. 1/2" (1.27 cm)		2. 1/2" (1.27 cm)
	3. 1/2" (1.27 cm)		3. 1/2" (1.27 cm)
	4. 1/2" (1.27 cm)		4. 1/2" (1.27 cm)
	5. 1/2" (1.27 cm)		5. 1/2" (1.27 cm)
	6. 1/2" (1.27 cm)		6. 1/2" (1.27 cm)
	7. 1/2" (1.27 cm)		7. 1/2" (1.27 cm)
	8. 1/2" (1.27 cm)		8. 1/2" (1.27 cm)
	9. 1/2" (1.27 cm)		9. 1/2" (1.27 cm)
	10. 1/2" (1.27 cm)		10. 1/2" (1.27 cm)
	11. 1/2" (1.27 cm)		11. 1/2" (1.27 cm)
	12. 1/2" (1.27 cm)		12. 1/2" (1.27 cm)
	13. 1/2" (1.27 cm)		13. 1/2" (1.27 cm)
	14. 1/2" (1.27 cm)		14. 1/2" (1.27 cm)
	15. 1/2" (1.27 cm)		15. 1/2" (1.27 cm)
	16. 1/2" (1.27 cm)		16. 1/2" (1.27 cm)
	17. 1/2" (1.27 cm)		17. 1/2" (1.27 cm)
	18. 1/2" (1.27 cm)		18. 1/2" (1.27 cm)
	19. 1/2" (1.27 cm)		19. 1/2" (1.27 cm)
	20. 1/2" (1.27 cm)		20. 1/2" (1.27 cm)
	21. 1/2" (1.27 cm)		21. 1/2" (1.27 cm)
	22. 1/2" (1.27 cm)		22. 1/2" (1.27 cm)
	23. 1/2" (1.27 cm)		23. 1/2" (1.27 cm)
	24. 1/2" (1.27 cm)		24. 1/2" (1.27 cm)
	25. 1/2" (1.27 cm)		25. 1/2" (1.27 cm)

[illegible]

LEVELLING NOTES

FAITHFUL+GOULD

2D GPR Utility Mapping Survey

Parsonage Road, Horsham, RH12 4NT

Scale	1:200	CH	Sheet 10 of 10
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Submitted by	JMEC	Checked by	KC	Approved by	JH	Date	SEP 2020
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[illegible]

General Notes:

- 1) Please note that this is not a full utility mapping survey of Hampshire House, 6912/4107. The areas highlighted in this drawing are the only areas that have been excavated. All other areas are assumed to be clear. Areas are highlighted within the survey extent as provided by the client. If any excavations are carried out outside of the survey extents highlighted by the green hatching on the drawing, it is recommended that further surveying is undertaken in the required area.
- 2) Please be aware that we cannot verify depth of cover below ground level in buried services depicted on this drawing as added from records or 'Assumed Route'. Further investigation is required in these services or pipes and trial holes are advised to ascertain the exact location of the buried asset before excavation.
- 3) Subdivision Surveys recommend site clearance to undertake within the areas of dense vegetation and overgrown areas. It is believed that additional mahoele covers and buried utilities could be present within these cleared areas and are currently inaccessible. Further investigation is recommended once these areas have been cleared.
- 4) Subdivision Surveys Ltd were provided the topographical data by the client for the survey. The topographical survey was undertaken by a third party. Therefore, the content and accuracy of the topographical data depicted on this drawing cannot be guaranteed and it is the liability of the customer to ensure it's accuracy prior to any development or design for the upcoming project.
- 5) Caution!
Trial holes to be excavated on buried utility assets, depicted as assumed location. Excavations are required to ascertain exact location. Information to be sent to Subdivision Surveys for the drawing to not be updated and reassessed.
- 6) If you have any questions regarding the information depicted in this drawing, please do not hesitate to contact Subdivision Surveys Ltd on 01762 780777 (Mon-Fri) 9am-5pm, or 07817 467224 (rest of normal business hours).





Table of Contents

Project Name	Project Number	Project Date
2021_05_07 AXIO PASONAGE ROAD HORSHAM		07/05/2021

Project Information	P-1
Scoring Summary	P-3
Section Profile	P-5
Section Summary	P-6
Section: 1; MH2 > PS 1 (MH2X)	1
Section: 2; INLET > MH 1 (INLETX)	3
Section: 3; MHS1 > MHS2 (MHS1X)	5
Section: 4; MHS2 > MHS3 (MHS2X)	6
Section: 5; MHS4 > MHS5 (MHS4X)	8
Section: 6; MHS5 > MHS6 (MHS5X)	9
Section: 7; MHS6 > MHS7 (MHS6X)	10
Section: 8; MHS7 > MHS8 (MHS7X)	11
Section: 9; MHS8 > MHS9 (MHS8X)	12
Section: 11; PS 1 > INLET (PS 1X)	13
Section: 12; INLET > S 11 (INLETX)	14
Section: 13; S 11 > S 12 (S 11X)	15
Section: 14; S 12 > S 13 (S 12X)	16
Section: 15; S 13 > S 14 (S 13X)	17
Section: 16; S 14 > S 15 (S 14X)	18
Section: 17; S 15 > S 16 (S 15X)	19
Section: 18; S 16 > S 17 (S 16X)	20
Section: 19; S 17 > S 18 (S 17X)	21
Section: 20; S 18 > S 19 (S 18X)	22
Section: 21; S 19 > S 20 (S 19X)	23
Section: 22; S 20 > S 9 (S 20X)	24
Section: 23; S 20 > S 9 (S 20X)	25
Section: 24; S 21 > S 8 (S 21X)	26
Section: 25; S 21 > INLET (S 21X)	27
Damage overview	29

**Table of Contents**

Project Name	Project Number	Project Date
2021_05_07 AXIO PASONAGE ROAD HORSHAM		07/05/2021

Damage overview	30
WinCan	32

**Project Information****Project Name**

2021_05_07 AXIO PASONAGE ROAD HORSHAM

Project Number**Project Date**

07/05/2021

Client

Company: AXIO (SPECIAL WORKS) LTD
Description: CCTV SURVEY
Contact: STEVE COOPER

Site

Company: AXIO (SPECIAL WORKS) LTD
Description: CCTV SURVEY
Contact: STEVE COOPER
Street: PARSONAGE ROAD
Town or City: HORSHAM
County: WEST SUSSEX

Contractor

Company: SWEEPTECH ENVIRONMENTAL SERVICES LTD
Description: CCTV DEPARTMENT
Contact: DOM JENNINGS
Department: THE OLD BRICKWORKS
Street: SHOREHAM ROAD
Town or City: HENFIELD
County: WEST SUSSEX
Post Code: BN5 9SE
Phone: 01273 491171
Email: djennings@sweeptech.co.uk

**Project Information**

Project Name	Project Number	Project Date
2021_05_07 AXIO PASONAGE ROAD HORSHAM		07/05/2021

Project Notes

ATTENDED SITE TO CARRY OUT CCTV OF DRAINAGE AS INSTRUCTED BY STEVE.

MAPPING LEFT ON SITE WITH SITE AGENT FOR REFERENCING.



Scoring Summary

Project Name

2021_05_07 AXIO PASONAGE ROAD HORSHAM

Project Number

Project Date

07/05/2021

Structural Defects

Grade 3: Best practice suggests consideration should be given to repairs in the medium term.

Grade 4: Best practice suggests consideration should be given to repairs to avoid a potential collapse.

Grade 5: Best practice suggests that this pipe is at risk of collapse at any time. Urgent consideration should be given to repairs to avoid total failure.

Section	PLR	Grade	Description
20	S 18X	3	Fracture, longitudinal at joint, at 12 o'clock

Service / Operational Condition

Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.

Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.

Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
2	INLETX	5	Settled deposits, coarse, 100% cross-sectional area loss
4	MH S2X	4	Settled deposits, other, 25% cross-sectional area loss
7	MH S6X	4	Settled deposits, coarse, 30% cross-sectional area loss
9	MH S8X	4	Settled deposits, other, 20% cross-sectional area loss
14	S 12X	4	Connection defective, connecting pipe is intruding, at 10 o'clock, diameter: 100 mm, intrusion: 20% %
15	S 13X	4	Connection defective, connecting pipe is intruding, at 11 o'clock, diameter: 100 mm, intrusion: 20% %
16	S 14X	3	Multiple defects
17	S 15X	3	Settled deposits, hard or compacted, 10% % cross-sectional area loss
20	S 18X	3	Multiple defects
21	S 19X	4	Settled deposits, coarse, 20% % cross-sectional area loss
23	S 20X	4	Multiple defects
24	S 21X	3	Settled deposits, fine, 10% cross-sectional area loss
25	S 21X	5	Roots, mass, 25% % cross-sectional area loss

Abandoned Surveys

Section	PLR	Description
1	MH 2X	Survey abandoned
1	MH 2X	Survey abandoned
4	MH S2X	Survey abandoned
4	MH S2X	Survey abandoned
11	PS 1X	Survey abandoned



Scoring Summary

Project Name	Project Number	Project Date
2021_05_07 AXIO PASONAGE ROAD HORSHAM		07/05/2021

Section	PLR	Description
20	S 18X	Survey abandoned
22	S 20X	Survey abandoned
23	S 20X	Survey abandoned
25	S 21X	Survey abandoned

Information

These scoring summaries are based on the SRM grading from the WRc.



Section Profile

Project Name
2021_05_07 AXIO PASONAGE ROAD HORSHAM

Project Number

Project Date
07/05/2021

Circular, 150 mm

Section	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
2	INLET	MH 1	07/05/2021	PARSONAGE ROAD	Vitrified clay	8.39 m	8.39 m

Total: 1 Inspection x Circular 150 mm = 8.39 m Total Length and 8.39 m Inspected Length

Circular, 450 mm

Section	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
8	MH S7	MH S8	07/05/2021	PARSONAGE ROAD	Concrete	4.92 m	4.92 m
9	MH S8	MH S9	07/05/2021	PARSONAGE ROAD	Concrete	14.63 m	14.63 m
24	S 21	S 8	17/05/2021	PARSONAGE ROAD	Concrete	1.63 m	1.63 m

Total: 3 Inspections x Circular 450 mm = 21.18 m Total Length and 21.18 m Inspected Length

Circular, 600 mm

Section	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
3	MH S1	MH S2	07/05/2021	PARSONAGE ROAD	Concrete	32.87 m	32.87 m
5	MH S4	MH S5	07/05/2021	PARSONAGE ROAD	Concrete	54.36 m	54.36 m
6	MH S5	MH S6	07/05/2021	PARSONAGE ROAD	Concrete	28.89 m	28.89 m
7	MH S6	MH S7	07/05/2021	PARSONAGE ROAD	Concrete	53.88 m	53.88 m
12	INLET	S 11	17/05/2021	PARSONAGE ROAD	Concrete	31.48 m	31.48 m
21	S 19	S 20	17/05/2021	PARSONAGE ROAD	Concrete	2.75 m	2.75 m

Total: 6 Inspections x Circular 600 mm = 204.23 m Total Length and 204.23 m Inspected Length

Circular, 750 mm

Section	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
13	S 11	S 12	17/05/2021	PARSONAGE ROAD	Concrete	10.54 m	10.54 m
14	S 12	S 13	17/05/2021	PARSONAGE ROAD	Concrete	20.03 m	20.03 m
15	S 13	S 14	17/05/2021	PARSONAGE ROAD	Concrete	15.29 m	15.29 m
16	S 14	S 15	17/05/2021	PARSONAGE ROAD	Concrete	25.85 m	25.85 m
17	S 15	S 16	17/05/2021	PARSONAGE ROAD	Concrete	1.17 m	1.17 m
18	S 16	S 17	17/05/2021	PARSONAGE ROAD	Concrete	9.15 m	9.15 m
19	S 17	S 18	17/05/2021	PARSONAGE ROAD	Concrete	5.91 m	5.91 m

Total: 7 Inspections x Circular 750 mm = 87.94 m Total Length and 87.94 m Inspected Length

Total: 17 Inspections = 321.74 m Total Length and 321.74 m Inspected Length



Section Summary

Project Name 2021_05_07 AXIO PASONAGE ROAD HORSHAM	Project Number	Project Date 07/05/2021
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Number of sections	24
Total length of sewer network	472.58 m
Total length of inspections	424.64 m
Total length of abandoned inspections	47.94 m
Total abandoned inspections	9
Number of section inspection photos	3
Number of section inspection videos	26
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	MH 2X	Upstream Node:	MH 2
Inspection Direction:	Upstream	Downstream Node:	PS 1
Inspected Length:	0.70 m	Dia/Height:	150 mm
Total Length:	28.72 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	OC	Start node type, other special chamber, reference number: PS 1
2	0.00	WL	Water level, 10% of the vertical dimension
3	0.70	SA	Survey abandoned

PLR:	MH 2X	Upstream Node:	MH 2
Inspection Direction:	Downstream	Downstream Node:	PS 1
Inspected Length:	28.72 m	Dia/Height:	150 mm
Total Length:	28.72 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH 2
2	0.00	WL	Water level, 5% of the vertical dimension
3	28.49	LR	Line deviates right
4	28.69	JN	Junction at 12 o'clock, diameter: 150mm
5	28.72	SA	Survey abandoned

PLR:	INLETX	Upstream Node:	INLET
Inspection Direction:	Upstream	Downstream Node:	MH 1
Inspected Length:	8.39 m	Dia/Height:	150 mm
Total Length:	8.39 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH 1
2	0.00	WL	Water level, 20% of the vertical dimension
3	7.54	LCCIP	Cured-in-place lining material changes at this point, new material: polyester



Section Summary

Project Name 2021_05_07 AXIO PASONAGE ROAD HORSHAM	Project Number	Project Date 07/05/2021
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No.	m+	Code	Observation
4	7.81	LCCIP	Cured-in-place lining material changes at this point, new material: polyester
5	8.39	DER	Settled deposits, coarse, 100% cross-sectional area loss
6	8.39	MHF	Finish node type, manhole, reference number: INLET

PLR:	MH S1X	Upstream Node:	MH S1
Inspection Direction:	Upstream	Downstream Node:	MH S2
Inspected Length:	32.87 m	Dia/Height:	600 mm
Total Length:	32.87 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH S2
2	0.00	WL	Water level, 25% of the vertical dimension
3	26.66	WL	Water level, 20% of the vertical dimension
4	32.87	MHF	Finish node type, manhole, reference number: MH S1

PLR:	MH S2X	Upstream Node:	MH S2
Inspection Direction:	Downstream	Downstream Node:	MH S3
Inspected Length:	6.19 m	Dia/Height:	600 mm
Total Length:	30.00 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH S2
2	0.00	WL	Water level, 25% of the vertical dimension
3	1.94	DEX	Settled deposits, other, 25% cross-sectional area loss
4	6.19	SA	Survey abandoned

PLR:	MH S2X	Upstream Node:	MH S2
Inspection Direction:	Upstream	Downstream Node:	MH S3
Inspected Length:	3.02 m	Dia/Height:	600 mm
Total Length:	30.00 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	CP	Start node type, catchpit, reference number: MH S3
2	0.00	WL	Water level, 20% of the vertical dimension
3	3.02	SA	Survey abandoned

PLR:	MH S4X	Upstream Node:	MH S4
Inspection Direction:	Downstream	Downstream Node:	MH S5
Inspected Length:	54.36 m	Dia/Height:	600 mm
Total Length:	54.36 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	CP	Start node type, catchpit, reference number: MH S4
2	0.00	WL	Water level, 10% of the vertical dimension
3	38.16	WL	Water level, 20% of the vertical dimension
4	54.36	MHF	Finish node type, manhole, reference number: MH S5

PLR:	MH S5X	Upstream Node:	MH S5
Inspection Direction:	Downstream	Downstream Node:	MH S6
Inspected Length:	28.89 m	Dia/Height:	600 mm
Total Length:	28.89 m	Material:	Concrete



Section Summary

Project Name 2021_05_07 AXIO PASONAGE ROAD HORSHAM	Project Number	Project Date 07/05/2021
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No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH S5
2	0.00	WL	Water level, 20% of the vertical dimension
3	14.54	WL	Water level, 30% of the vertical dimension
4	28.89	CPF	Finish node type, catchpit, reference number: MH S6

PLR:	MH S6X	Upstream Node:	MH S6
Inspection Direction:	Upstream	Downstream Node:	MH S7
Inspected Length:	53.88 m	Dia/Height:	600 mm
Total Length:	53.88 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH S7
2	0.00	WL	Water level, 25% of the vertical dimension
3	53.85	DER	Settled deposits, coarse, 30% cross-sectional area loss
4	53.88	MHF	Finish node type, manhole, reference number: MH S6

PLR:	MH S7X	Upstream Node:	MH S7
Inspection Direction:	Downstream	Downstream Node:	MH S8
Inspected Length:	4.92 m	Dia/Height:	450 mm
Total Length:	4.92 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH S7
2	0.00	WL	Water level, 25% of the vertical dimension
3	4.92	MHF	Finish node type, manhole, reference number: MH S8

PLR:	MH S8X	Upstream Node:	MH S8
Inspection Direction:	Downstream	Downstream Node:	MH S9
Inspected Length:	14.63 m	Dia/Height:	450 mm
Total Length:	14.63 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH S8
2	0.00	WL	Water level, 15% of the vertical dimension
3	0.10	DEX	Settled deposits, other, 20% cross-sectional area loss
4	8.35	RFJ	Roots, fine at joint
5	10.87	LCCIP	Cured-in-place lining material changes at this point, new material: polyester
6	11.71	LCCIP	Cured-in-place lining material changes at this point, new material: polyester
7	13.00	RFJ	Roots, fine at joint
8	14.63	MHF	Finish node type, manhole, reference number: MH S9

PLR:	PS 1X	Upstream Node:	PS 1
Inspection Direction:	Upstream	Downstream Node:	INLET
Inspected Length:	0.15 m	Dia/Height:	150 mm
Total Length:	28.00 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	OC	Start node type, other special chamber, reference number: PS 1
2	0.00	WL	Water level, 5% % of the vertical dimension
3	0.00	LU	Line deviates up



Section Summary

Project Name 2021_05_07 AXIO PASONAGE ROAD HORSHAM	Project Number	Project Date 07/05/2021
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No.	m+	Code	Observation
4	0.15	SA	Survey abandoned
PLR: INLETX Upstream Node: INLET Inspection Direction: Upstream Downstream Node: S 11 Inspected Length: 31.48 m Dia/Height: 600 mm Total Length: 31.48 m Material: Concrete			
No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: S 11
2	0.00	WL	Water level, 5% % of the vertical dimension
3	1.26	CN	Connection other than junction, at 04 o'clock, diameter: 150 mm
4	1.26	CN	Connection other than junction, at 08 o'clock, diameter: 150 mm
5	21.84	CN	Connection other than junction, at 03 o'clock, diameter: 225 mm
6	31.48	CPF	Finish node type, catchpit, reference number: INLET
PLR: S 11X Upstream Node: S 11 Inspection Direction: Downstream Downstream Node: S 12 Inspected Length: 10.54 m Dia/Height: 750 mm Total Length: 10.54 m Material: Concrete			
No.	m+	Code	Observation
1	0.01	MH	Start node type, manhole, reference number: S 11
2	0.01	WL	Water level, 10% % of the vertical dimension
3	10.54	MHF	Finish node type, manhole, reference number: S 12
PLR: S 12X Upstream Node: S 12 Inspection Direction: Downstream Downstream Node: S 13 Inspected Length: 20.03 m Dia/Height: 750 mm Total Length: 20.03 m Material: Concrete			
No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: S 12
2	0.00	WL	Water level, 10% % of the vertical dimension
3	3.67	CN	Connection other than junction, at 01 o'clock, diameter: 100 mm
4	12.37	CN	Connection other than junction, at 01 o'clock, diameter: 100 mm
5	18.29	CXI	Connection defective, connecting pipe is intruding, at 10 o'clock, diameter: 100 mm, intrusion: 20% %
6	20.03	MHF	Finish node type, manhole, reference number: S 13
PLR: S 13X Upstream Node: S 13 Inspection Direction: Upstream Downstream Node: S 14 Inspected Length: 15.29 m Dia/Height: 750 mm Total Length: 15.29 m Material: Concrete			
No.	m+	Code	Observation
1	-0.27	MH	Start node type, manhole, reference number: S 14
2	-0.22	WL	Water level, 10% % of the vertical dimension
3	6.90	LCCIP	Cured-in-place lining material changes at this point
4	7.71	LCCIP	Cured-in-place lining ends at this point
5	13.46	CXI	Connection defective, connecting pipe is intruding, at 11 o'clock, diameter: 100 mm, intrusion: 20% %
6	15.29	MHF	Finish node type, manhole, reference number: S 13



Section Summary

Project Name 2021_05_07 AXIO PASONAGE ROAD HORSHAM	Project Number	Project Date 07/05/2021
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PLR:	S 14X	Upstream Node:	S 14
Inspection Direction:	Downstream	Downstream Node:	S 15
Inspected Length:	25.85 m	Dia/Height:	750 mm
Total Length:	25.85 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: S 14
2	0.00	WL	Water level, 10% % of the vertical dimension
3	16.00	WL	Water level, 20% of the vertical dimension
4	16.97	CXI	Connection defective, connecting pipe is intruding, at 09 o'clock, diameter: 150 mm, intrusion: 5% %
5	17.19	CXI	Connection defective, connecting pipe is intruding, at 09 o'clock, diameter: 150 mm, intrusion: 5% %
6	17.46	CXI	Connection defective, connecting pipe is intruding, at 09 o'clock, diameter: 150 mm, intrusion: 5% %
7	25.85	MHF	Finish node type, manhole, reference number: S 15

PLR:	S 15X	Upstream Node:	S 15
Inspection Direction:	Downstream	Downstream Node:	S 16
Inspected Length:	1.17 m	Dia/Height:	750 mm
Total Length:	1.17 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: S 16
2	0.00	WL	Water level, 10% % of the vertical dimension
3	0.00	DEC	Settled deposits, hard or compacted, 10% % cross-sectional area loss
4	1.17	MHF	Finish node type, manhole, reference number: S 15

PLR:	S 16X	Upstream Node:	S 16
Inspection Direction:	Downstream	Downstream Node:	S 17
Inspected Length:	9.15 m	Dia/Height:	750 mm
Total Length:	9.15 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: S 16
2	0.00	WL	Water level, 10% % of the vertical dimension
3	0.52	CLJ	Crack, longitudinal at joint, at 12 o'clock
4	5.36	RFJ	Roots, fine at joint
5	9.15	MHF	Finish node type, manhole, reference number: S 17

PLR:	S 17X	Upstream Node:	S 17
Inspection Direction:	Downstream	Downstream Node:	S 18
Inspected Length:	5.91 m	Dia/Height:	750 mm
Total Length:	5.91 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: S 17
2	0.00	WL	Water level, 15% % of the vertical dimension
3	1.98	RFJ	Roots, fine at joint
4	5.91	MHF	Finish node type, manhole, reference number: S 18



Section Summary

Project Name 2021_05_07 AXIO PASONAGE ROAD HORSHAM	Project Number	Project Date 07/05/2021
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PLR:	S 18X	Upstream Node:	S 18
Inspection Direction:	Downstream	Downstream Node:	S 19
Inspected Length:	35.49 m	Dia/Height:	750 mm
Total Length:	35.49 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: S 18
2	0.00	WL	Water level, 10% % of the vertical dimension
3	1.05	LCCIP	Cured-in-place lining material changes at this point
4	1.75	LCCIP	Cured-in-place lining ends at this point
5	10.35	CXI	Connection defective, connecting pipe is intruding, at 11 o'clock, diameter: 100 mm, intrusion: 15% %
6	15.96	CXI	Connection defective, connecting pipe is intruding, at 02 o'clock, diameter: 150 mm, intrusion: 10% %
7	17.79	ID	Infiltration, dripping, from 12 to 01 o'clock
8	17.79	FLJ	Fracture, longitudinal at joint, at 12 o'clock
9	18.90	CN	Connection other than junction, at 02 o'clock, diameter: 225 mm
10	23.33	WL	Water level, 25% of the vertical dimension
11	35.49	CUW	Loss of vision, camera under water
12	35.49	SA	Survey abandoned

PLR:	S 19X	Upstream Node:	S 19
Inspection Direction:	Downstream	Downstream Node:	S 20
Inspected Length:	2.75 m	Dia/Height:	600 mm
Total Length:	2.75 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: S 19
2	0.00	WL	Water level, 30% % of the vertical dimension
3	0.00	DER	Settled deposits, coarse, 20% % cross-sectional area loss
4	2.75	MHF	Finish node type, manhole, reference number: S 20

PLR:	S 20X	Upstream Node:	S 20
Inspection Direction:	Downstream	Downstream Node:	S 9
Inspected Length:	2.35 m	Dia/Height:	600 mm
Total Length:	2.35 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: S 20
2	0.00	WL	Water level, 25% % of the vertical dimension
3	2.35	SA	Survey abandoned

PLR:	S 20X	Upstream Node:	S 20
Inspection Direction:	Downstream	Downstream Node:	S 9
Inspected Length:	23.76 m	Dia/Height:	600 mm
Total Length:	23.76 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: S 20
2	0.00	WL	Water level, 20% % of the vertical dimension
3	0.70	DEC	Settled deposits, hard or compacted, 20% cross-sectional area loss
4	4.53	DEC	Settled deposits, hard or compacted, 20% cross-sectional area loss



Section Summary

Project Name 2021_05_07 AXIO PASONAGE ROAD HORSHAM	Project Number	Project Date 07/05/2021
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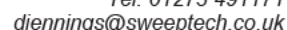
No.	m+	Code	Observation
5	11.00	DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss
6	11.63	CXI	Connection defective, connecting pipe is intruding at 3 o'clock, diameter: 150mm, intrusion: 5%
7	13.33	DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss
8	16.11	DEC	Settled deposits, hard or compacted, 30% cross-sectional area loss
9	23.76	SA	Survey abandoned

PLR:	S 21X	Upstream Node:	S 21
Inspection Direction:	Downstream	Downstream Node:	S 8
Inspected Length:	1.63 m	Dia/Height:	450 mm
Total Length:	1.63 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: S 21
2	0.00	WL	Water level, 20% % of the vertical dimension
3	0.00	DES	Settled deposits, fine, 10% cross-sectional area loss
4	1.63	MHF	Finish node type, manhole, reference number: S 8

PLR:	S 21X	Upstream Node:	S 21
Inspection Direction:	Upstream	Downstream Node:	INLET
Inspected Length:	2.52 m	Dia/Height:	450 mm
Total Length:	2.52 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: INLET
2	0.00	WL	Water level, 15% % of the vertical dimension
3	0.00	DER	Settled deposits, coarse, 10% cross-sectional area loss
4	0.50	RFJ	Roots, fine at joint
5	0.50	DEC	Settled deposits, hard or compacted, 40% cross-sectional area loss
6	2.52	RM	Roots, mass, 25% % cross-sectional area loss
7	2.52	SA	Survey abandoned





Section Inspection - 07/05/2021 - MH 2X

Section 1	Inspection 2	Date 07/05/21	Time 14:36	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH 2X
Operator S DEEGAN		Vehicle GX18 UPV		Camera Push Cam	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	MH 2
Road:	Parsonage Road	Inspected Length:	28.72 m	Upstream Pipe Depth:	3.490 m
Location:	Property or buildings	Total Length:	28.72 m	Downstream Node:	PS 1
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	4.200 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Year Constructed:		Material:	Vitrified clay		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:250	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 3.49 m MH 2 						
0.00	MH	Start node type, manhole, reference number: MH 2		00:00:00		
0.00	WL	Water level, 5% of the vertical dimension		00:00:11		
28.49	LR	Line deviates right: 45		00:05:11		
28.69	JN	Junction at 12 o'clock, diameter: 150mm		00:05:29		
28.72	SA	Survey abandoned: UNABLE TO GET CRAWLER AROUND BEND SEE OVERLAP SECTION 10		00:06:33		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section Inspection - 07/05/2021 - INLETX

Section 2	Inspection 2	Date 07/05/21	Time 11:08	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR INLETX
Operator S DEEGAN		Vehicle GX18 UPV		Camera Push Cam	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Horsham	Inspection Direction:	Upstream	Upstream Node:	INLET
Road:	Parsonage Road	Inspected Length:	8.39 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	8.39 m	Downstream Node:	MH 1
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Year Constructed:		Material:	Vitrified clay		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:73	Position [m]	Code	Observation	MPEG	Photo	Grade
		0.00	MH	Start node type, manhole, reference number: MH 1	00:00:00		
		0.00	WL	Water level, 20% of the vertical dimension	00:00:21		
		7.54	LCCIP	Cured-in-place lining material changes at this point, new material: polyester: START OF LINER	00:01:41		
		7.81	LCCIP	Cured-in-place lining material changes at this point, new material: polyester: END OF LINER	00:01:46		
		8.39	DER	Settled deposits, coarse, 100% cross-sectional area loss: BURIED MH	00:02:10		5
		8.39	MHF	Finish node type, manhole, reference number: INLET: UNABLE TO REACH MH	00:02:15	INLETX_c 6f02a9d-5 b2a-48fa-8	

Construction Features

Structural Defects

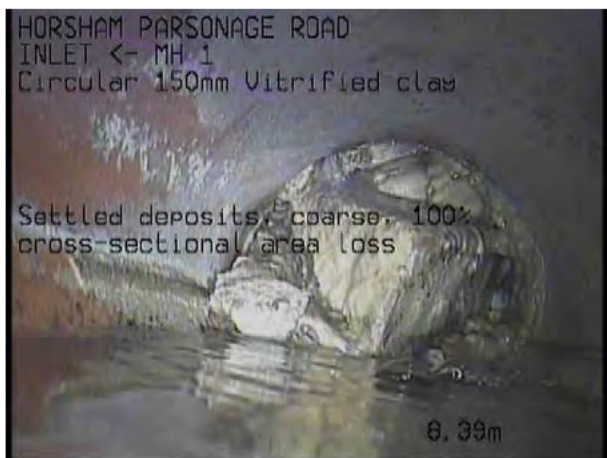
Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	10.0	1.2	10.0	5.0

Section Pictures - 07/05/2021 - INLETX

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	INLETX		139967



INLETX_c6f02a9d-5b2a-48fa-8952-aea8cd00a46d_20210518_152508_028.jpg, 00:02:15, 8.39 m

Finish node type, manhole, reference number: INLET,
UNABLE TO REACH MH



Section Inspection - 07/05/2021 - MH S1X

Section 3	Inspection 3	Date 07/05/21	Time 12:25	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH S1X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P300 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Horsham	Inspection Direction:	Upstream	Upstream Node:	MH S1
Road:	Parsonage Road	Inspected Length:	32.87 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	32.87 m	Downstream Node:	MH S2
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.710 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	600 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:286	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 1.71 m MH S2							
		0.00	MH	Start node type, manhole, reference number: MH S2: U/S TO CHECK CONDITION AND CONNECTIVITY	00:00:00		
		0.00	WL	Water level, 25% of the vertical dimension	00:00:18		
		26.66	WL	Water level, 20% of the vertical dimension	00:03:30		
		32.87	MHF	Finish node type, manhole, reference number: MH S1	00:04:20		
MH S1 Depth: m							

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section Inspection - 07/05/2021 - MH S2X

Section 4	Inspection 4	Date 07/05/21	Time 12:43	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH S2X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P300 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	MH S2
Road:	Parsonage Road	Inspected Length:	6.19 m	Upstream Pipe Depth:	1.710 m
Location:	Property or buildings	Total Length:	30.00 m	Downstream Node:	MH S3
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	600 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:261	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 1.71 m MH S2						
0.00		MH	Start node type, manhole, reference number: MH S2	00:00:00		
0.00		WL	Water level, 25% of the vertical dimension	00:00:14		
1.94		DEX	Settled deposits, other, 25% cross-sectional area loss: RANDOM SOLIDS	00:01:49		4
6.19		SA	Survey abandoned: UNABLE TO CONTINUE	00:05:12		
30.00 End of pipe MH S3 Depth: m						

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	5.0	0.8	5.0	4.0



Section Inspection - 07/05/2021 - MH S2X

Section 4	Inspection 2	Date 07/05/21	Time 13:08	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH S2X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P300 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Horsham	Inspection Direction:	Upstream	Upstream Node:	MH S2
Road:	Parsonage Road	Inspected Length:	3.02 m	Upstream Pipe Depth:	1.710 m
Location:	Property or buildings	Total Length:	30.00 m	Downstream Node:	MH S3
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	600 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:261	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m							
MH S3							
0.00		CP	Start node type, catchpit, reference number: MH S3: U/S TO OVERLAP				
0.00		WL	Water level, 20% of the vertical dimension			00:00:10	
3.02		SA	Survey abandoned: DUE TO DEBRIS UNABLE TO CONTINUE			00:01:03	
30.00			End of pipe				
MH S2							
Depth: 1.71 m							

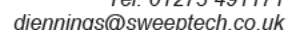
Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0





Section Inspection - 07/05/2021 - MH S5X

Section 6	Inspection 6	Date 07/05/21	Time 13:26	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH S5X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P300 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	MH S5
Road:	Parsonage Road	Inspected Length:	28.89 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	28.89 m	Downstream Node:	MH S6
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	600 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:252	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH S5 0.00 0.00 14.54 28.89 MH S6 Depth: m							
		0.00	MH	Start node type, manhole, reference number: MH S5	00:00:00		
		0.00	WL	Water level, 20% of the vertical dimension	00:06:11		
		14.54	WL	Water level, 30% of the vertical dimension	00:02:26		
		28.89	CPF	Finish node type, catchpit, reference number: MH S6	00:04:01		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section Inspection - 07/05/2021 - MH S6X

Section 7	Inspection 7	Date 07/05/21	Time 13:53	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH S6X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P300 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Horsham	Inspection Direction:	Upstream	Upstream Node:	MH S6
Road:	Parsonage Road	Inspected Length:	53.88 m	Upstream Pipe Depth:	1.000 m
Location:	Property or buildings	Total Length:	53.88 m	Downstream Node:	MH S7
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	0.980 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	600 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:469	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 0.98 m MH S7							
		0.00	MH	Start node type, manhole, reference number: MH S7	00:00:00		
		0.00	WL	Water level, 25% of the vertical dimension	00:00:11		
		53.85	DER	Settled deposits, coarse, 30% cross-sectional area loss	00:08:28		4
		53.88	MHF	Finish node type, manhole, reference number: MH S6	00:08:33		
				MH S6 Depth: 1.00 m			

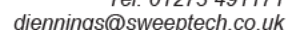
Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	5.0	0.1	5.0	4.0





Section Inspection - 07/05/2021 - MH S8X

Section 9	Inspection 9	Date 07/05/21	Time 14:14	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH S8X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P300 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	MH S8
Road:	Parsonage Road	Inspected Length:	14.63 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	14.63 m	Downstream Node:	MH S9
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	450 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:128	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH S8 						
	0.00	MH	Start node type, manhole, reference number: MH S8	00:00:00		
	0.00	WL	Water level, 15% of the vertical dimension	00:00:17		
	0.10	DEX	Settled deposits, other, 20% cross-sectional area loss: RANDOM DEBRIS	00:00:22		4
	8.35	RFJ	Roots, fine at joint	00:01:33		2
	10.87	LCCIP	Cured-in-place lining material changes at this point, new material: polyester: START OF PATCH LINER	00:01:47		
	11.71	LCCIP	Cured-in-place lining material changes at this point, new material: polyester: END OF PATCH LINER	00:01:51		
	13.00	RFJ	Roots, fine at joint	00:01:59		2
	14.63	MHF	Finish node type, manhole, reference number: MH S9	00:02:53		
MH S9 Depth: m						

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	3	5.0	0.5	7.0	4.0



Section Inspection - 17/05/2021 - PS 1X

Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
11	1	17/05/21	1:38	01	No Rain Or Snow	Yes	PS 1X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
S DEEGAN		GX18 UPV		P150 Crawler	Not Specified	Not Specified	1

Town or Village:	Horsham	Inspection Direction:	Upstream	Upstream Node:	PS 1
Road:	Parsonage Road	Inspected Length:	0.15 m	Upstream Pipe Depth:	4.200 m
Location:	Property or buildings	Total Length:	28.00 m	Downstream Node:	INLET
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Year Constructed:		Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:244 Position [m] Code Observation MPEG Photo Grade

Depth: m
INLET



0.00

OC

Start node type, other special chamber, reference number: PS 1: PUMP CHAMBER 00:00:06

0.00

WL

Water level, 5% % of the vertical dimension 00:00:16

0.00

LU

Line deviates up: 45 00:00:21

0.15

SA

Survey abandoned: UNABLE TO PASS BENDS 00:01:20

28.00

End of pipe



PS 1
Depth: 4.20 m

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section Inspection - 17/05/2021 - INLETX

Section 12	Inspection 2	Date 17/05/21	Time 3:05	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR INLETX
Operator S DEEGAN		Vehicle GX18 UPV		Camera P150 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Upstream	Upstream Node:	INLET
Road:	Parsonage Road	Inspected Length:	31.48 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	31.48 m	Downstream Node:	S 11
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	600 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	Cured in place lining		
Inspection Purpose:	Sample condition survey	Lining Material:	Polyester		

Comments:

Recommendations:

Scale:	1:274	Position [m]	Code	Observation	MPEG	Photo	Grade
		0.00	MH	Start node type, manhole, reference number: S 11	00:00:01		
		0.00	WL	Water level, 5% % of the vertical dimension	00:00:06		
		1.26	CN	Connection other than junction, at 04 o'clock, diameter: 150 mm	00:01:09		
		1.26	CN	Connection other than junction, at 08 o'clock, diameter: 150 mm	00:01:20		
		21.84	CN	Connection other than junction, at 03 o'clock, diameter: 225 mm	00:03:33		
		31.48	CPF	Finish node type, catchpit, reference number: INLET: TRACK DRAINAGE	00:04:38		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section Inspection - 17/05/2021 - S 11X

Section 13	Inspection 3	Date 17/05/21	Time 3:15	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR S 11X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P150 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	S 11
Road:	Parsonage Road	Inspected Length:	10.54 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	10.54 m	Downstream Node:	S 12
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	750 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:92	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S 11 0.01 MH Start node type, manhole, reference number: S 11 00:00:01 0.01 WL Water level, 10% % of the vertical dimension 00:00:06 10.54 MHF Finish node type, manhole, reference number: S 12 00:01:31 S 12 Depth: m							

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section Inspection - 17/05/2021 - S 12X

Section 14	Inspection 4	Date 17/05/21	Time 3:19	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR S 12X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P150 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	S 12
Road:	Parsonage Road	Inspected Length:	20.03 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	20.03 m	Downstream Node:	S 13
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	750 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:175	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S 12 S 13 Depth: m							
		0.00	MH	Start node type, manhole, reference number: S 12	00:00:02		
		0.00	WL	Water level, 10% % of the vertical dimension	00:00:07		
		3.67	CN	Connection other than junction, at 01 o'clock, diameter: 100 mm	00:00:38		
		12.37	CN	Connection other than junction, at 01 o'clock, diameter: 100 mm	00:01:46		
		18.29	CXI	Connection defective, connecting pipe is intruding, at 10 o'clock, diameter: 100 mm, intrusion: 20% %	00:02:52		4
		20.03	MHF	Finish node type, manhole, reference number: S 13	00:03:10		

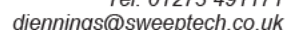
Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	5.0	0.2	5.0	4.0





Section Inspection - 17/05/2021 - S 14X

Section 16	Inspection 6	Date 17/05/21	Time 3:43	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR S 14X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P150 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	S 14
Road:	Parsonage Road	Inspected Length:	25.85 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	25.85 m	Downstream Node:	S 15
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	750 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:225 Position [m] Code Observation MPEG Photo Grade

Depth: m

S 14



0.00

MH

Start node type, manhole, reference number: S 14

00:00:01

0.00

WL

Water level, 10% % of the vertical dimension

00:00:07

16.00

WL

Water level, 20% of the vertical dimension

00:01:50

16.97

CXI

Connection defective, connecting pipe is intruding, at 09 o'clock, diameter: 150 mm, intrusion: 5% %

00:01:51

3

17.19

CXI

Connection defective, connecting pipe is intruding, at 09 o'clock, diameter: 150 mm, intrusion: 5% %

00:01:58

3

17.46

CXI

Connection defective, connecting pipe is intruding, at 09 o'clock, diameter: 150 mm, intrusion: 5% %

00:02:06

3

25.85

MHF

Finish node type, manhole, reference number: S 15

00:03:16

S 15

Depth: m

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	3	2.0	0.2	6.0	3.0



Section Inspection - 17/05/2021 - S 15X

Section 17	Inspection 7	Date 17/05/21	Time 3:54	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR S 15X
Operator Not Specified		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	S 15
Road:	Parsonage Road	Inspected Length:	1.17 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	1.17 m	Downstream Node:	S 16
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	750 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0.00	MH	Start node type, manhole, reference number: S 16	00:00:03		
		0.00	WL	Water level, 10% % of the vertical dimension	00:00:08		
		0.00	DEC	Settled deposits, hard or compacted, 10% % cross-sectional area loss	00:00:12		3
		1.17	MHF	Finish node type, manhole, reference number: S 15	00:00:39		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	1.7	2.0	3.0



Section Inspection - 17/05/2021 - S 16X

Section 18	Inspection 8	Date 17/05/21	Time 4:09	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR S 16X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P150 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	S 16
Road:	Parsonage Road	Inspected Length:	9.15 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	9.15 m	Downstream Node:	S 17
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	750 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:80	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S 16 <							

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	10.0	1.1	10.0	2.0	2	1.0	0.2	2.0	2.0



Section Inspection - 17/05/2021 - S 17X

Section 19	Inspection 9	Date 17/05/21	Time 4:15	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR S 17X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P150 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	S 17
Road:	Parsonage Road	Inspected Length:	5.91 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	5.91 m	Downstream Node:	S 18
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	750 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:52	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S 17 0.00 0.00 1.98 5.91 S 18 Depth: m							
		0.00	MH	Start node type, manhole, reference number: S 17	00:00:02		
		0.00	WL	Water level, 15% % of the vertical dimension	00:00:08		
		1.98	RFJ	Roots, fine at joint: 1.98	00:00:25		2
		5.91	MHF	Finish node type, manhole, reference number: S 18	00:00:51		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	1.0	0.2	1.0	2.0



Section Inspection - 17/05/2021 - S 18X

Section 20	Inspection 10	Date 17/05/21	Time 4:21	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR S 18X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P150 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	S 18
Road:	Parsonage Road	Inspected Length:	35.49 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	35.49 m	Downstream Node:	S 19
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	750 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:309	Position [m]	Code	Observation	MPEG	Photo	Grade
	0.00	MH	Start node type, manhole, reference number: S 18	00:00:01		
	0.00	WL	Water level, 10% % of the vertical dimension	00:00:06		
	1.05	LCCIP	Cured-in-place lining material changes at this point: START OF PATCH	00:00:47		
	1.75	LCCIP	Cured-in-place lining ends at this point: END OF PATCH	00:00:57		
	10.35	CXI	Connection defective, connecting pipe is intruding, at 11 o'clock, diameter: 100 mm, intrusion: 15% %	00:04:21		3
	15.96	CXI	Connection defective, connecting pipe is intruding, at 02 o'clock, diameter: 150 mm, intrusion: 10% %	00:05:04		3
	17.79	ID	Infiltration, dripping, from 12 to 01 o'clock	00:05:29		
	17.79	FLJ	Fracture, longitudinal at joint, at 12 o'clock	00:05:40		3 / 2
	18.90	CN	Connection other than junction, at 02 o'clock, diameter: 225 mm	00:05:58		
	23.33	WL	Water level, 25% of the vertical dimension	00:06:30		
	35.49	CUW	Loss of vision, camera under water	00:10:54		
	35.49	SA	Survey abandoned: UNABLE TO CONTINUE	00:10:57		

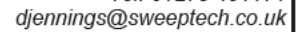
Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	40.0	1.1	40.0	3.0	3	2.0	0.1	5.0	3.0





Section Inspection - 17/05/2021 - S 20X

Section 22	Inspection 12	Date 17/05/21	Time 4:58	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR S 20X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P150 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	S 20
Road:	Parsonage Road	Inspected Length:	2.35 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	2.35 m	Downstream Node:	S 9
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	600 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0.00	MH	Start node type, manhole, reference number: S 20	00:00:01		
		0.00	WL	Water level, 25% % of the vertical dimension	00:00:06		
		2.35	SA	Survey abandoned: UNABLE TO CONTINUE	00:01:41		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section Inspection - 17/05/2021 - S 20X

Section 23	Inspection 13	Date 17/05/21	Time 6:18	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S 20X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P150 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	S 20
Road:	Parsonage Road	Inspected Length:	23.76 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	23.76 m	Downstream Node:	S 9
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	600 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:207	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S 20						
	0.00	MH	Start node type, manhole, reference number: S 20	00:00:02		
	0.00	WL	Water level, 20% % of the vertical dimension	00:00:06		
	0.70	DEC	Settled deposits, hard or compacted, 20% cross-sectional area loss	00:00:20		4
	4.53	DEC	Settled deposits, hard or compacted, 20% cross-sectional area loss	00:00:53		4
	11.00	DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss	00:02:15		3
	11.63	CXI	Connection defective, connecting pipe is intruding at 3 o'clock, diameter: 150mm, intrusion: 5%	00:02:19		3
	13.33	DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss	00:02:27		3
	16.11	DEC	Settled deposits, hard or compacted, 30% cross-sectional area loss	00:02:50		4
	23.76	SA	Survey abandoned: UNABLE TO CONTINUE	00:06:45		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	6	5.0	0.9	21.0	4.0



Section Inspection - 17/05/2021 - S 21X

Section 24	Inspection 14	Date 17/05/21	Time 7:01	Client's Job Ref 01	Weather No Rain Or Snow	Pre Cleaned No	PLR S 21X
Operator Not Specified		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Downstream	Upstream Node:	S 21
Road:	Parsonage Road	Inspected Length:	1.63 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	1.63 m	Downstream Node:	S 8
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	450 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0.00	MH	Start node type, manhole, reference number: S 21	00:00:02		
		0.00	WL	Water level, 20% % of the vertical dimension	00:00:07		
		0.00	DES	Settled deposits, fine, 10% cross-sectional area loss	00:00:14		3
		1.63	MHF	Finish node type, manhole, reference number: S 8	00:01:05		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	1.2	2.0	3.0



Section Inspection - 17/05/2021 - S 21X

Section 25	Inspection 15	Date 17/05/21	Time 7:07	Client's Job Ref 01	Weather Rain	Pre Cleaned No	PLR S 21X
Operator S DEEGAN		Vehicle GX18 UPV		Camera P150 Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Horsham	Inspection Direction:	Upstream	Upstream Node:	S 21
Road:	Parsonage Road	Inspected Length:	2.52 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	2.52 m	Downstream Node:	INLET
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	450 mm		
Year Constructed:		Material:	Concrete		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0.00	MH	Start node type, manhole, reference number: INLET	00:00:02		
		0.00	WL	Water level, 15% % of the vertical dimension	00:00:08		
		0.00	DER	Settled deposits, coarse, 10% cross-sectional area loss	00:00:15		3
		0.50	RFJ	Roots, fine at joint	00:00:30		2
		0.50	DEC	Settled deposits, hard or compacted, 40% cross-sectional area loss	00:00:34	S 21X_8c00 149b-c37e	4
		2.52	RM	Roots, mass, 25% % cross-sectional area loss	00:01:37	S 21X_3457 e390-909a	5
		2.52	SA	Survey abandoned: UNABLE TO CONTINUE	00:01:39		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	4	10.0	7.1	18.0	5.0

Section Pictures - 17/05/2021 - S 21X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
25	Upstream	S 21X	01	



S
21X_8c00149b-c37e-4b90-9d39-705429272385_20210518_1
55156_682.jpg, 00:00:34, 0.50 m
Settled deposits, hard or compacted, 40% cross-sectional area
loss

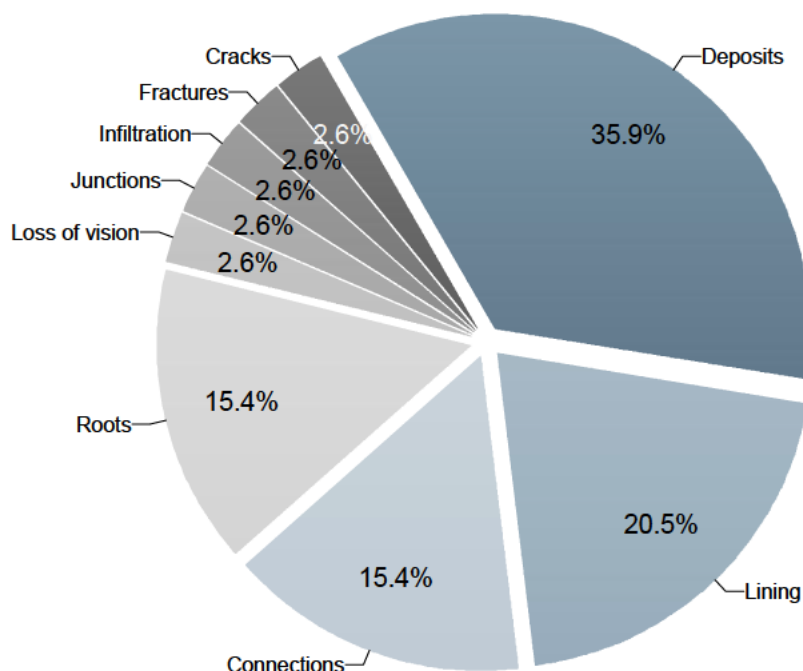


S
21X_3457e390-909a-4c8a-a44c-4650307ab933_20210518_1
55216_988.jpg, 00:01:37, 2.52 m
Roots, mass, 25% % cross-sectional area loss

**Damage overview**

Project Name	Project Number	Project Date
2021_05_07 AXIO PASONAGE ROAD HORSHAM		07/05/2021

Group	Count
Deposits	14
Lining	8
Connections	6
Roots	6
Cracks	1
Fractures	1
Infiltration	1
Junctions	1
Loss of vision	1





Inspection Summary

Project Name
2021_05_07 AXIO PASONAGE ROAD HORSHAM

Project Number

Project Date
07/05/2021

Node from:	INLET	INLET	MH 2	MH S2	MH S6	MH S8	S 12	S 13	S 15	S 16	S 17	S 18	S 19
Node to:	MH 1	S 11	PS 1	MH S3	MH S7	MH S9	S 13	S 14	S 16	S 17	S 18	S 19	S 20
Section height:	150.00	600.00	150.00	600.00	600.00	450.00	750.00	750.00	750.00	750.00	750.00	750.00	600.00
Section length:	8.39	31.48	28.72	30.00	53.88	14.63	20.03	15.29	1.17	9.15	5.91	35.49	2.75
Inspected length:	8.39	31.48	0.70	6.19	53.88	14.63	20.03	15.29	1.17	9.15	5.91	35.49	2.75
Abandoned:			X	X								X	
Connections:	0	3	0	0	0	0	2	0	0	0	0	1	0
Cracks:	0	0	0	0	0	0	0	0	0	1	0	0	0
Deposits:	1	0	0	1	1	1	0	0	1	0	0	0	1
Fractures:	0	0	0	0	0	0	0	0	0	0	0	1	0
Infiltration:	0	0	0	0	0	0	0	0	0	0	0	1	0
Junctions:	0	0	1	0	0	0	0	0	0	0	0	0	0
Lining:	2	0	0	0	0	2	0	2	0	0	0	2	0
Loss of vision:	0	0	0	0	0	0	0	0	0	0	0	1	0
Roots:	0	0	0	0	0	2	0	0	0	1	1	0	0
Total:	3	3	1	1	1	5	2	2	1	2	1	6	1



Inspection Summary

Project Name
2021_05_07 AXIO PASONAGE ROAD HORSHAM

Project Number

Project Date
07/05/2021

Node from:	S 20	S 21	S 21	Total
Node to:	S 9	INLET	S 8	
Section height:	600.00	450.00	450.00	
Section length:	23.76	2.52	1.63	472.58
Inspected length:	23.76	2.52	1.63	392.90
Abandoned:	X	X		
Connections:	0	0	0	6
Cracks:	0	0	0	1
Deposits:	5	2	1	14
Fractures:	0	0	0	1
Infiltration:	0	0	0	1
Junctions:	0	0	0	1
Lining:	0	0	0	8
Loss of vision:	0	0	0	1
Roots:	0	2	0	6
Total:	5	4	1	39

WinCan

Notes:

Thank you for choosing to use WinCan to carry out your drainage investigation works.

The results and views carried in this report are those of the engineer(s) appointed to carry out the investigation and are considered relevant on the day of the survey. Drain and sewer performance is known to alter over time, so liability cannot be accepted for differences between the recorded data and the actual data at a time after this report was generated.

This survey has been created in accordance with the drainage standard used in the country and language settings for this PC.

If a DVD has been supplied with this report, please note that it can only be used in a Windows based PC. Please browse the DVD and navigate to the PDF folder to find project-based documents such as drawings, engineer's site notes and survey specifications amongst others.

CCTV subsidence investigations do not account for the water tightness of the pipes and are merely a visual inspection of inside of the drains. CCTV drainage engineers are generally not qualified to comment on the causes of subsidence, and can only suggest required remedial actions for the pipes, and not the affected buildings.

Subsidence is a building structural failure, which can occur for many reasons. Although drainage failures can contribute to subsidence problems, other causes should always be investigated as part of a considered approach. In order to eliminate drains from suspicion, WinCan suggests that all pipes within at least 10m of the subsidence area be pressure tested over and above a CCTV inspection, and remedial suggestions considered based on the findings.

Unless otherwise specified in an associated task order (or similar), the data gathered in this report may not be suitable for use as a pre-lining investigation. WinCan are happy to carry out such surveys, but this must be agreed prior to the commencement of the works, and the client must specify the data they wish to capture and the acceptable tolerances.

Where GPS coordinates and heights have been issued within this report, they are to 1m accuracy, and 2m accuracy for heights. Greater accuracy can be provided on request.

APPENDIX D – Site Photographs

Site Photographs



Plate 1: View showing TT201.



Plate 2: View showing TT202A.



Plate 3: View showing TT202B.



Plate 4: View showing TT203.



Plate 5: View showing TT204.



Plate 6: View showing TT205.



Plate 7: View showing TT206.



Plate 8: View showing TT207.



Plate 9: View showing the wall encountered within TT207.



Plate 10: View showing TT208.



Plate 11: View showing TT209.



Plate 12: View showing TT210.



Plate 13: View showing TT211.



Plate 14: View showing TT212.



Plate 15: View showing TT213.



Plate 16: View showing TT214.



Plate 17: View showing TP201.



Plate 18: View showing TP202.



Plate 19: View showing TP203.



Plate 20: View showing TP204.

APPENDIX E – Trial Hole Logs

Trial Hole Logs

Trial Pit Log

Trialpit No

TP201

Sheet 1 of 1

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords:	517825 - 131706
Level:	56.53

Date
25/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

5

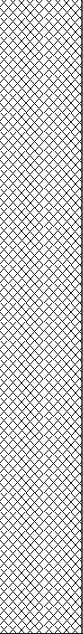
Scale
1:25

Client: West Sussex County Council

Depth
2.10

0.7

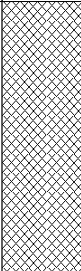
Logged
OA

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	1.50 1.50	ES	PID=0				Grey MADE GROUND comprising sandy gravel of subangular to subrounded fine to coarse crsytalline rock and occasional concrete, brick, fragments of scrap metal, polythene, plastic and cables.
				2.10	54.43		<u>4 inch iron pipe encountered at 2.0m.</u> ----- End of pit at 2.10 m

Remarks:	Groundwater seepage encountered at 1.6m. Trial pit remained stable. Trial pit terminated due to encountered metal pipe (potential utilities service).
----------	---

Stability:

AGS

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TP202 Sheet 1 of 1	
Project Name: Novartis Additional SI				Project No. LP2575		Co-ords: 518036 - 131694 Level: 56.54		Date 26/05/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): 2.5 Depth 1.20		Scale 1:25 Logged OA	
Client: West Sussex County Council									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.80 0.80	ES	PID=0	0.90	55.64		Grey MADE GROUND comprising sandy gravel of coarse subangular to subrounded dark grey crystalline rock.		
				1.20	55.34		Grey clayey SILT.		
							----- End of pit at 1.20 m -----		
1 2 3 4 5									
Remarks: Groundwater seepage encountered at 0.3m. Pinkish reflective sheen visible at surface of water. Immediate trial pit wall collapse occurred during excavation.									
Stability:									





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Trial Pit Log

Trialpit No

TP203

Sheet 1 of 1

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords: 517975 - 131529
Level: 56.98

Date
26/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

2.5

Depth
1.50

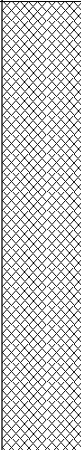
0.7



Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	1.40 1.40	ES	PID=0	1.50	55.48		Greyish brown sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic, vinyl, polythene and scrap metal.	1
							End of pit at 1.50 m	2
								3
								4
								5

Remarks: Groundwater seepage encountered at 1.2m. Trial pit remained stable. No further progress due to water obscured obstruction encountered.

Stability:

AGS



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Trial Pit Log

Trialpit No

TP204

Sheet 1 of 1

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords: 517981 - 131512
Level: 57.07

Date
26/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

2.5

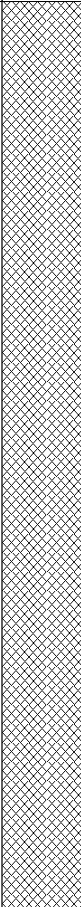
Depth
3.00

0.7

Scale
1:25

Logged
OA

Client: West Sussex County Council

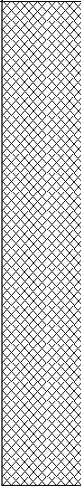
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	2.80 2.80	ES	PID=0	3.00	54.06		Greyish brown sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic, vinyl, polythene and scrap metal.	1 2 3 4 5
							End of pit at 3.00 m	

Remarks: Groundwater seepage encountered at 1.4m. Trial pit remained stable. No further progress below 3.0m due to water obscured obstruction encountered.

Stability:

AGS

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Project Name: Novartis Additional SI				Project No. LP2575		Co-ords: 517754 - 131818 Level: 56.18		Date 25/05/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): Depth 1.60 0.7 10		Scale 1:25 Logged OA	
Client: West Sussex County Council									

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.70 0.70	ES	PID=0	1.60	54.58		Greyish brown sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and flint and occasional fragments of plastic, vinyl and cables.	1 2 3 4 5
							End of pit at 1.60 m	

Remarks: Grounwater seepage encountered at 0.6m. Trial trench remained stable.

Stability:





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Trial Pit Log

Trialpit No

TT202A

Sheet 1 of 1

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords: 517774 - 131796
Level: 56.22

Date
25/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

2.5

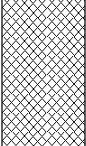
Depth
0.50

0.6

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.50	55.72		Dark brown clay MADE GROUND with brick and concrete.	
							End of pit at 0.50 m	
								1
								2
								3
								4
								5

Remarks: Trial trench terminated at 0.5m and relocated 5m east to TT202B.

Stability:



Trial Pit Log

Trialpit No

TT202B

Sheet 1 of 1

Project Name:	Novartis Additional SI
---------------	------------------------

Project No.
LP2575

Co-ords:	-
Level:	

Date
25/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

3

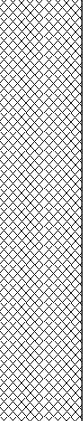
Scale
1:25

Client: West Sussex County Council

Depth
1.40

9.6

Logged
OA

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.80 0.80	ES	PID=0	1.40		 Grey MADE GROUND comprising sandy gravel of coarse subangular to subrounded dark grey crystalline rock.	1
						End of pit at 1.40 m	2
							3
							4
							5

Remarks:	Trial trench remained dry and stable.
----------	---------------------------------------

Stability:

AGS



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Trial Pit Log

Trialpit No

TT203

Sheet 1 of 1

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords: 517795 - 131763
Level: 56.22

Date
25/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

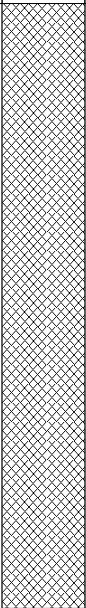
Dimensions (m): 10

Scale
1:25

Client: West Sussex County Council

Depth
2.00

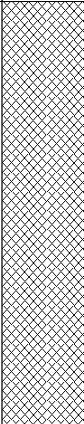
Logged
OA

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	1.50 1.50	ES	PID=0	2.00	54.22		Grey MADE GROUND comprising sandy gravel of coarse subangular to subrounded dark grey crystalline rock.	1
							End of pit at 2.00 m	2
								3
								4
								5

Remarks: Groundwater seepage encountered at 1.9m. Excavation terminated at 2.0m due to major wall collapse of the trench.

Stability:

AGS

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TT204 Sheet 1 of 1	
Project Name: Novartis Additional SI				Project No. LP2575		Co-ords: 517797 - 131740 Level: 56.03		Date 25/05/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): 10		Scale 1:25	
Client: West Sussex County Council						Depth 1.40		Logged OA	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	1.00 1.00	ES	PID=0	1.40	54.63		Grey MADE GROUND comprising sandy gravel of coarse subangular to subrounded dark grey crystalline rock.		
							End of pit at 1.40 m		
1 2 3 4 5									
Remarks: Trial trench terminated due to major wall collapse.									
Stability:									



Trial Pit Log

Trialpit No

TT205

Sheet 1 of 1

Project Name:	Novartis Additional SI
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Project No.
LP2575

Co-ords:	517854 - 131686
Level:	55.78

Date
25/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

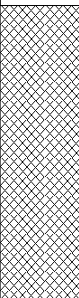
10

2.0

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	1.10 1.10	ES	PID=0	1.00	54.78		Grey MADE GROUND comprising sandy gravel of coarse subangular to subrounded dark grey crystalline rock.	1
							Black stained CLAY.	
				1.20	54.58		Brown grey silty CLAY.	
				1.50	54.28		End of pit at 1.50 m	
								2
								3
								4
								5

Remarks:	Groundwater seepage encountered at 1.0m. Trial trench remained stable.
----------	--

Stability:

AGS

Trial Pit Log

Trialpit No

TT206

Sheet 1 of 1

Project Name:	Novartis Additional SI
---------------	------------------------

Project No.
LP2575

Co-ords: 517878 - 131666

Level: 55.87

Date _____

25/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

10

Depth
2.00

0.7

Scale

1:25

Logged
OA

Client: West Sussex County Council

[illegible]

Remarks:	Groundwater seepage encountered at 1.0m. Trial trench remained stable.
----------	--

Stability:

AGS

Trial Pit Log

Trialpit No

TT207

Sheet 1 of 1

Project Name:	Novartis Additional SI
---------------	------------------------

Project No.
LP2575

Co-ords: 517877 - 131724

Level: 56.39

Date _____

25/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

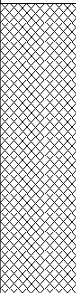
10

Depth
2.20

Scale
1:25

Logged
OA

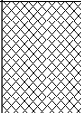
Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	1.00	ES	PID=0				Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional rebar, plastic and cables.	
	1.00				<u>Concrete wall with protruding rebar encountered in the northern face of the trench from 1.0m to 1.5m orientated east-west.</u>			
					2.00	54.39		Mottled reddish grey clayey SILT.
					2.20	54.19		----- End of pit at 2.20 m

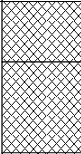
Remarks:	Groundwater seepage encountered at 1.6m. Trial trench remained stable.
----------	--

Stability:

AGS

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TT208 Sheet 1 of 1	
Project Name: Novartis Additional SI				Project No. LP2575		Co-ords: 517896 - 131704 Level: 56.17		Date 25/05/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): 10 Depth 2.20		Scale 1:25 Logged OA	
Client: West Sussex County Council									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.50 0.50	ES	PID=0	0.40	55.77		Brown sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.		
				0.60	55.57		Black stained sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete and brick.		
							Brown sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.		
				2.00	54.17		Mottled reddish grey clayey SILT.		
				2.20	53.97		End of pit at 2.20 m		
1 2 3 4 5									
Remarks: Groundwater seepage encountered at 1.4m. Trial trench remained stable.									
Stability:									



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Project Name: Novartis Additional SI				Project No. LP2575		Co-ords: 517998 - 131739 Level: 56.94		Date 26/05/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): 10 0.7		Scale 1:25	
Client: West Sussex County Council						Depth 1.60		Logged OA	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	1.20 1.20	ES	PID=0	0.20	56.74		BLACKTOP.		
				0.50	56.44		Red sandy gravel fill MADE GROUND with brick and concrete.		
							Greyish brown MADE GROUND comprising sandy gravel of subangular to subrounded fine to coarse crystalline rock, concrete, brick and occasional fragments of plastic.		
				1.40	55.54		Greyish brown clayey SILT.		
				1.60	55.34		End of pit at 1.60 m		
1 2 3 4 5									
Remarks: Groundwater seepage encountered at 1.3m. No further progress in the hard ground.									
Stability:									





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Trial Pit Log

Trialpit No

TT210

Sheet 1 of 1

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords: 518023 - 131733
Level: 56.85

Date
26/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

10

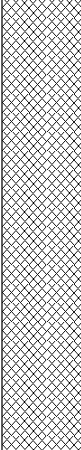
Depth
1.60

0.7

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	1.40 1.40	ES	PID=0	1.50 1.60	55.35 55.25		Greyish brown MADE GROUND sandy gravel comprising subangular to subrounded fine to coarse crystalline rock, concrete, brick and occasional rebar, scrap metal, polythene and plastic.	1
							Grey clayey SILT.	2
							End of pit at 1.60 m	3
								4
								5

Remarks: Groundwater seepage encountered at 0.9m. Trial trench remained stable.

Stability:

AGS

Project Name:	Novartis Additional SI
---------------	------------------------

Project No.
LP2575

Co-ords:	517997 - 131724
Level:	56.97

Date
26/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

10

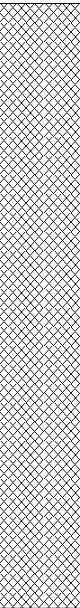
Scale
1:25

Client: West Sussex County Council

Depth
2.10

0.8

Logged
OA

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	1.80 1.80	ES	PID=0	2.00 2.10	54.97 54.87	 	Greyish brown MADE GROUND comprising sandy gravel of subangular to subrounded fine to coarse crystalline rock. <i>Rebar and bricks encountered at 1.6m</i> Grey clayey SILT. End of pit at 2.10 m

Remarks:	Groundwater seepage encountered at 1.5m. Moderate wall collapse occurred during excavation.
----------	---

Stability:



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Trial Pit Log

Trialpit No

TT212

Sheet 1 of 1

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords: 518020 - 131641
Level: 56.47

Date
26/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

10

Depth
2.00

0.7

Scale
1:25

Logged
OA

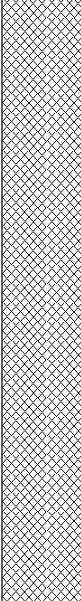
Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	1.40 1.40	ES	PID=0				Grey MADE GROUND comprising sandy gravel of coarse subangular to subrounded dark grey crystalline rock.	1
				1.90 2.00	54.57 54.47		Cables and wooden board encountered at 1.4m Grey clayey SILT. End of pit at 2.00 m	2
								3
								4
								5

Remarks: Groundwater seepage encountered at 0.65m. Trial trench remained stable.

Stability:



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Project Name: Novartis Additional SI				Project No. LP2575		Co-ords: 517827 - 131725 Level: 56.56		Date 25/05/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): Depth 2.20 0.7 10		Scale 1:25 Logged OA	
Client: West Sussex County Council									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	1.50 1.50	ES	PID=0				Greyish brown sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of scrap metal, rebar, plastic and ceramic.		
				2.00	54.56				
				2.20	54.36				
							Grey silty CLAY.		
							End of pit at 2.20 m		
Remarks: Groundwater seepage encountered at 1.7m.									
Stability:									





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Trial Pit Log

Trialpit No

TT214

Sheet 1 of 1

Project Name: Novartis Additional SI

Project No.
LP2575

Co-ords: 517981 - 131480
Level: 57.32

Date
26/05/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

10

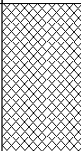
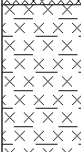
Depth
1.00

0.7

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.40 0.40	ES	PID=0	0.50	56.82		Red sandy gravel MADE GROUND fill with brick and concrete.	
				1.00	56.32		Yellowish grey clayey SILT.	
							End of pit at 1.00 m	1
								2
								3
								4
								5

Remarks: Trial pit remained dry and stable.

Stability:

AGS

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Project Name: Novartis				Project No. LP2441		Co-ords: 518052 - 131735 Level:		Date 25/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 0.60		Logged OA	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	ES		0.15		   	Grass over TOPSOIL with rootlets.		
	0.30	ES					Stiff mottled grey brown sandy silty CLAY.		
	0.40	D		Hand Pen at 0.5m = 156kPa					
				End of pit at 0.60 m					
1 2 3 4 5									
Remarks: Trial pit remained dry and stable.									
Stability:									





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Trial Pit Log

Trialpit No

B2

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 518044 - 131707

Level:

Date

25/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

Depth
0.60

Scale

1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.10	ES		0.15			Grass over TOPSOIL with rootlets.
	0.30	ES					Stiff mottled grey brown sandy clayey SILT.
	0.40	D		0.60			Hand Pen at 0.5m = 173kPa
							End of pit at 0.60 m

1

2

3

4

5

Remarks: Trial pit remained dry and stable.

Stability: Stable



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Project Name: Novartis				Project No. LP2441		Co-ords: 518040 - 131655 Level:		Date 25/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 1.00		Logged OA	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	ES					Grass over TOPSOIL with rootlets.		
				0.30			Reworked brown grey clayey SILT.		
	0.50	ES							
	0.95	ES		0.80			Orange coarse SAND.		
				1.00			End of pit at 1.00 m		
Remarks: No further progress due to encountered utility service caution tape. Trial pit remained dry and stable.									
Stability:									





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Trial Pit Log

Trialpit No

B4

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 518033 - 131625
Level:

Date
25/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

Depth
1.00

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=40	0.20		Grass over TOPSOIL with rootlets.		
	0.30	ES				Stiff to very stiff mottled grey brown sandy clayey SILT.		
				Hand Pen at 0.5m = 206kPa				
	0.90	B D		1.00		End of pit at 1.00 m		
	0.90							

Remarks: Trial pit remained dry and stable.

Stability:

AGS

Trial Pit Log

Trialpit No

TP101

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517667 - 131881

Level: 57.33

Date _____

18/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

Depth
0.60

Scale
1:25

Logged
OA

Client: West Sussex County Council

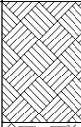
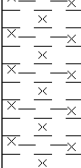
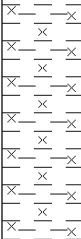
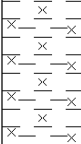
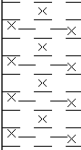
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.15	D		0.30	57.03		Grass over TOPSOIL with rootlets.	1
	0.50	D		0.60	56.73		Reworked mottled brown yellow grey silty clayey fine SAND.	
	----- End of pit at 0.60 m							
								2
								3
								4
								5

Remarks: Trial pit stopped due to encountered utility service tape at 0.6m.

Stability:

AGS

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TP102 Sheet 1 of 1	
Project Name: Novartis				Project No. LP2441		Co-ords: 517684 - 131886 Level: 57.52		Date 18/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 3.00		Logged OA	

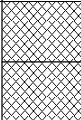
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	ES		0.40	57.12		Grass over TOPSOIL with roots.		
							Stiff to very stiff mottled brown grey silty CLAY.		
	1.00	D	N=15				Hand Pen at 1.0m = 250kPa	1	
	1.80	D					Hand Pen at 1.8m = 243kPa	2	
	2.30	D					Hand Pen at 2.3m = 310kPa		
	2.80	D		3.00	54.52		Hand Pen at 2.8m = 396kPa	3	
								End of pit at 3.00 m	3
									4
									5

Remarks: Trial pit remained dry and stable.

Stability:



 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TP103 Sheet 1 of 1	
Project Name: Novartis				Project No. LP2441		Co-ords: 517706 - 131907 Level: 58.07		Date 22/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 2.80		Logged OA	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	ES	N=28	0.20	57.87		Grass over TOPSOIL with rootlets.	1	
	0.30	ES		0.40	57.67		SUBSOIL with rootlets.		
	0.70	D					Reworked mottled grey brown clayey SILT.		
					1.00	57.07		Ceramic land drain encountered at 0.9m. Stiff to very stiff mottled grey brown SILT.	2
	1.70	D							
	2.60	D		2.50	55.57	Extremely weak dark reddish brown laminated ferruginous SILTSTONE.			
					2.80	55.27		End of pit at 2.80 m	3
								5	

Remarks: No further progress due to ground hardness. Trial pit remained dry and stable.

Stability:



Trial Pit Log

Trialpit No

TP104

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords:	517693 - 131845
Level:	57.00

Date
18/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

Depth
0.50

Scale
1:25

Logged
OA

Client: West Sussex County Council

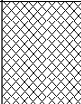
[illegible]

Remarks: Trial pit stopped due to encountered utility service tape at 0.5m.

Stability:

AGS

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TP105 Sheet 1 of 1	
Project Name: Novartis				Project No. LP2441		Co-ords: 517717 - 131886 Level: 57.84		Date 22/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): Depth 2.30		Scale 1:25 Logged OA	
Client: West Sussex County Council									

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=42	0.35	57.49		TOPSOIL with rootlets.	1
	0.30	ES					Reworked mottled grey brown SILT.	
	0.80	D		1.20	56.64		Ceramic land drain encountered at 1.1m.	2
	1.70	D					Stiff to very stiff mottled grey brown SILT.	
	2.25	D	2.20	55.64		Extremely weak dark reddish brown laminated ferruginous SILTSTONE.	3	
			2.30	55.54		End of pit at 2.30 m		
								4
								5

Remarks: No further progress due to ground hardness. Trial pit remained dry and stable.

Stability:





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Trial Pit Log

Trialpit No

TP106

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517717 - 131821
Level: 56.58

Date
18/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

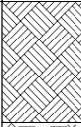
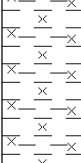
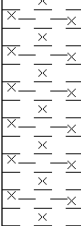
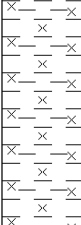
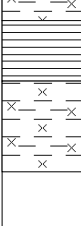
Dimensions (m):

Depth
3.00

Scale
1:25

Logged
OA

Client: West Sussex County Council

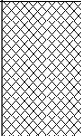
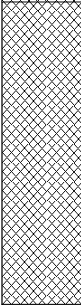
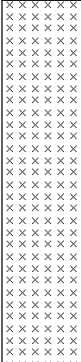
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=31	0.40	56.18		Grass over TOPSOIL with rootlets.	1
							Stiff to very stiff mottled brown grey silty CLAY.	
	1.00	D					Hand Pen at 1.0m = 220kPa	
								
	1.80	D						
								
	2.60	D		2.50	54.08		Extremely weak reddish brown silty ferruginous sandy MUDSTONE.	
				2.70	53.88		Very stiff brown grey silty CLAY.	
	2.90	D					Hand Pen at 2.8m = 346kPa	
				3.00	53.58		End of pit at 3.00 m	
								4
								5

Remarks: Trial pit remained dry and stable.

Stability:

AGS

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TP107 Sheet 1 of 1	
Project Name: Novartis				Project No. LP2441		Co-ords: 517751 - 131853 Level: 57.81		Date 22/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): Depth 2.80		Scale 1:25 Logged OA	
Client: West Sussex County Council									

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	ES	N=29				Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	1	
	0.55	ES		0.45	57.36				Reworked black stained sandy clayey SILT. <i>Bailer and slotted standpipe encountered at 0.5m, installed to 2.5m.</i>
				0.60	57.21				Reworked mottled grey brown clayey SILT.
	0.90	D						2	
	1.50	D							
	2.70	D		1.60	56.21		Extremely weak mottled dark reddish brown grey ferruginous clayey SILTSTONE. <i>Ceramic land drain encountered at 1.6m.</i>	3	
				2.80	55.01		End of pit at 2.80 m		
								4	
								5	

Remarks: No further progress due to ground hardness. Trial pit remained dry and stable.

Stability:





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Trial Pit Log

Trialpit No

TP108

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517780 - 131874
Level: 57.52

Date
22/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
2.50

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse and cobbles of concrete, brick and occasional fragments of plastic, ceramic and scrap metal. <i>Major flooding encountered at 0.2m from the northern face of the pit.</i>	
	0.50	ES						
	1.00	ES						1
	1.30			1.30	56.22			
	1.50	ES					Reworked brown to black stained clayey SILT.	
	2.00	ES						2
	2.30			2.30	55.22			
	2.40	D					Extremely weak dark reddish brown laminated ferruginous clayey SILTSTONE.	
				2.50	55.02		End of pit at 2.50 m	
								3
								4
								5

Remarks: No further progress due to ground hardness. Surface water flood encountered at 0.2m in the northern face of pit and major water flooding encountered at 1.3m.

Stability:

AGS



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Trial Pit Log

Trialpit No

TP110

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517751 - 131787
Level: 55.10

Date
18/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
2.10

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=15	0.50	54.60		Brown clay MADE GROUND with fragments of concrete, brick, ceramic and cables.	
	0.35	ES					Plastic pipe and disused low voltage cables encountered at 0.3m	
	1.00	D					Stiff to very stiff mottled brown grey silty CLAY.	1
	1.50	D					Hand Pen at 1.0m = 156kPa	
	2.10	D					Hand Pen at 1.5m = 320kPa	
				2.00	53.10		Extremely weak mottled grey brown slightly sandy silty MUDSTONE.	2
				2.10	53.00		Hand Pen at 2.0m = 433kPa	
							End of pit at 2.10 m	
								3
								4
								5

Remarks: Water seepage encountered at 0.6m.

Stability:

AGS

 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TP111 Sheet 1 of 1	
Project Name: Novartis				Project No. LP2441		Co-ords: 517808 - 131830 Level: 56.95		Date 22/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 2.60		Logged OA	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.15	ES	N=37	0.30	56.65		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	1
	0.40	ES		0.50	56.45		Black stained clayey SILT.	
							Stiff to very stiff mottled grey brown clayey SILT.	
	0.90	D					Hand Pen at 1.0m = 470kPa	2
	1.70	D						
	2.40	D		2.60	54.35		End of pit at 2.60 m	3
								4
								5

Remarks: No further progress due to ground hardness. Trial pit remained dry and stable.		
Stability:		

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Project Name: Novartis				Project No. LP2441		Co-ords: 517844 - 131821 Level: 56.40		Date 22/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 1.30		Logged OA	

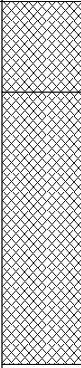
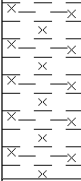
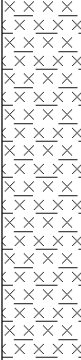
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	Refused 5/20	0.10	56.30		BLACKTOP	1 2 3 4 5
	0.20	ES		0.20	56.20		CONCRETE slab reinforced with rebar.	
	0.35	ES		0.40	56.00		Black stained sand and gravel fill.	
							Stiff mottled grey brown clayey SILT.	
	0.80	D					Hand Pen at 0.7m = 180kPa	
							Extremely weak yellowish brown laminated clayey slightly sandy SILTSTONE.	
	1.20	D		1.10	55.30			
				1.30	55.10			
							End of pit at 1.30 m	

Remarks: No further progress due to ground hardness. Trial pit remained dry and stable.

Stability:



 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log Trialpit No TP113 Sheet 1 of 1					
Project Name: Novartis				Project No. LP2441		Co-ords: 517788 - 131779 Level: 56.29		Date 22/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): Depth 3.00		Scale 1:25 Logged OA	
Client: West Sussex County Council									

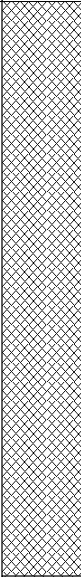
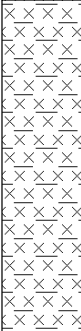
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=7	0.30	55.98		Grass over TOPSOIL with rootlets.	1
	0.40	ES					Reworked silty CLAY.	
	1.00	D		1.20	55.08		Stiff mottled grey brown silty CLAY.	
	1.00	ES					Hand Pen at 1.5m = 286kPa	
	1.60	D		1.80	54.48		Stiff to very stiff mottled grey brown clayey SILT.	2
			Hand Pen at 2.3m = 306kPa					
	2.50	D	3.00	53.28		End of pit at 3.00 m	3	
								4
								5

Remarks: Trial pit remained dry and stable.

Stability:



 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TP115 Sheet 1 of 1	
Project Name: Novartis				Project No. LP2441		Co-ords: 517783 - 131755 Level: 55.86		Date 22/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 3.00		Logged OA	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES					Dark brown clay MADE GROUND with red brick and concrete and rootlets.	1
	0.70	ES					Moderate to strong organic/manure odour encountered below 0.9m.	
	1.40	ES						
	2.00 2.00	D ES		1.90	53.96		Stiff partially black stained at top mottled grey brown clayey SILT.	2
	2.70	D					Hand Pen at 2.5m = 210kPa	
				3.00	52.86		End of pit at 3.00 m	3
								4
								5

Remarks: Trial pit remained dry and stable.

Stability:





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Trial Pit Log

Trialpit No

TP116

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517842 - 131724
Level: 56.40

Date
21/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
2.00

Scale
1:25

Logged
OA

Client: West Sussex County Council

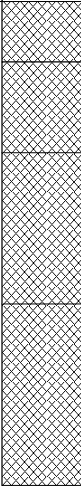
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES					Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	
	0.60	ES						
	1.10	ES		1.00	55.40		CONCRETE slab.	1
	1.40	ES		1.20	55.20		Firm yellowish brown CLAY. <i>Black staining and faint organic odour encountered in clay soils between 1.2m to 1.5m.</i> <i>Hand Pen at 1.3m = 116kPa</i>	
	1.60	D						
				2.00	54.40		End of pit at 2.00 m	2
								3
								4
								5

Remarks: Water seepage encountered at 1.2m. No further progress due to obstruction encountered. (Potential remains of concrete foundations)

Stability:

AGS

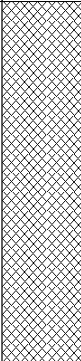
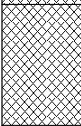
 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TP117 Sheet 1 of 1	
Project Name: Novartis				Project No. LP2441		Co-ords: 517891 - 131752 Level: 56.25		Date 19/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): Depth 1.60		Scale 1:25 Logged OA	
Client: West Sussex County Council									

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	ES	N=20	0.20	56.04		Grass over TOPSOIL with rootlets.	1	
							Reworked brown CLAY.		
	0.40	ES		0.50	55.74		Reworked black stained CLAY.		
	0.60	ES					Pipe surrounded by brickwork encountered at 0.8m		
	0.90	ES		1.00	55.24		Reworked yellowish brown sandy silty CLAY.		
	1.20	ES	Refused 2/5/10/20/20/25					2	
				1.60	54.64		Hand Pen at 1.5m = 216kPa	3	
							End of pit at 1.60 m		
									4
								5	

Remarks: Grounwater seepage encountered at 1.4m. No further progress due to hard ground and water ingress limiting vision at the bottom of the trial pit.

Stability:



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Project Name: Novartis				Project No. LP2441		Co-ords: 517915 - 131787 Level: 57.28		Date 19/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 1.90		Logged OA	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	ES					Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic and rebar.		
	0.50	ES							
	0.90	ES							
	1.20			56.08			Reworked gravelly CLAY <u>Concrete foundation footing encountered between 1.4 to 1.6m</u>		
	1.50	ES							
1.80	D			1.90	55.38		Extremely weak reddish grey brown laminated ferruginous sandy silty MUDSTONE with black iron staining. ----- End of pit at 1.90 m -----		
1 2 3 4 5									
Remarks: Groundwater seepage encountered at 1.2m.									
Stability:									





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Trial Pit Log

Trialpit No

TP120

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517940 - 131804
Level: 57.46

Date
19/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
1.50

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=67	0.40	57.06		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	1
	0.25	ES						
	0.50	ES					Reworked mottled grey brown clayey SILT.	
	1.00	D		1.30	56.16		Hand Pen at 1.0m = 183kPa	
	1.40	D					Extremely weak reddish grey brown ferruginous SANDSTONE with black iron staining.	
				1.50	55.96		End of pit at 1.50 m	5

Remarks: No further progress in the hard ground. Trial pit remained dry and stable.

Stability:





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Trial Pit Log

Trialpit No

TP121

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517948 - 131786
Level: 57.53

Date
19/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
1.50

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	
	0.30	ES		0.40	57.13		Reworked mottled reddish brown silty CLAY.	
							Hand Pen at 0.6m = 206kPa	
	1.00	B	Refused 1/2/3/6/10/17/25				Hand Pen at 1.0m = 316kPa	1
	1.40	D		1.30	56.23		Extremely weak orange brown ferruginous coarse SANDSTONE with black iron staining.	
				1.50	56.03		End of pit at 1.50 m	
								2
								3
								4
								5

Remarks: No further progress in the hard ground. Trial pit remained dry and stable.

Stability:



Project Name:	Novartis
---------------	----------

Project No.
LP2441

Co-ords:	517947 - 131752
Level:	56.85

Date
19/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

Scale
1:25

Client: West Sussex County Council

Depth
1.70

Logged
OA

[illegible]

Remarks:	Grounwater seepage encountered at 1.2m. No further progress due to hard ground and water ingress limiting vision at the bottom of the trial pit.
----------	--

Stability:





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Trial Pit Log

Trialpit No

TP123

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517914 - 131720

Level: 56.41

Date

18/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

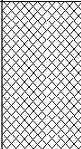
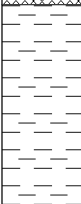
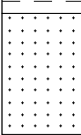
Dimensions (m):

Depth
1.60

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.15	ES	N=68	0.50	55.91		Reddish brown grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	1
	0.40	ES					Stiff blueish grey CLAY.	
	0.70	D					Hand Pen at 1.0m = 196kPa	
	1.30	D		1.20	55.21		Extremely weak mottled brown grey laminated silty SANDSTONE.	2
				1.60	54.81		End of pit at 1.60 m	
								3
								4
								5

Remarks: No further progress in the hard ground. Trial pit remained dry and stable.

Stability:





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Trial Pit Log

Trialpit No

TP124

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517883 - 131688
Level: 56.03

Date
18/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

Depth
3.00

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=8	0.30	55.73		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	1
							Reworked mottled brown grey silty CLAY.	
	0.90	ES					<i>Black stained soils encountered between 0.8m to 1.4m</i>	2
	1.00	D						
	1.70	D		1.60	54.43		Extremely weak mottled grey brown red laminated ferruginous clayey silty SANDSTONE with black iron staining.	3
				1.80	54.23		Stiff mottled grey brown sandy clayey SILT.	
	2.30	D					<i>Hand Pen at 2.5m = 266kPa</i>	4
	2.80	D		3.00	53.03		End of pit at 3.00 m	

Remarks: Trial pit remained dry and stable.

Stability:

AGS

Trial Pit Log

Trialpit No

TP125

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords:	517882 - 131655
Level:	55.97

Date
25/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

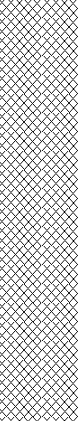
Dimensions
(m):

Scale
1:25

Client: West Sussex County Council

Depth
1.40

Logged
OA

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
	0.20	ES		1.40	54.57		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.
	0.60	ES					
	1.20	ES					Groundwater seepage encountered at 1.2m.
							End of pit at 1.40 m

Remarks:	No further progress due to encountered obstruction. Groundwater seepage encountered at 1.2m.
----------	--

Stability:

AGS

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Project Name: Novartis				Project No. LP2441		Co-ords: 517915 - 131623 Level: 56.55		Date 25/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 2.10		Logged OA	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	ES	N=12				Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.		
	0.35	ES							
	0.70	ES							
	0.80			0.80	55.75			Red gravel fill MADE GROUND.	
	0.90			0.90	55.65			Black stained clayey SILT. <i>Moderate to strong organic/manure odour encountered below 0.9m.</i>	1
	1.00	ES							
	1.40	ES							
	1.60			1.60	54.95		Hand Pen at 1.5m = 246kPa		
	1.80	D					Stiff mottled grey brown slightly sandy slightly gravelly clayey SILT. Hand Pen at 1.8m = 266kPa		
				2.10	54.45			End of pit at 2.10 m	2
								3	
								4	
								5	

Remarks: Soakage testing installed with 110 slotted HDPE pipe. Backfill: 0-0.7m arisings, 0.7-2.1m gravel. Minor water seepage encountered at bottom of the trial pit.

Stability:





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Trial Pit Log

Trialpit No

TP126B

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517949 - 131654

Level: 57.07

Date

21/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

Depth
2.30

Scale

1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=79				Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	
	0.50	ES						
	0.80	ES						
				1.00	56.06		<i>Black staining encountered at 0.8m.</i>	1
	1.20	D					Very stiff mottled brown grey silty CLAY.	
				1.30	55.76		<i>Hand Pen at 1.2m = 400kPa</i>	
							Extremely weak dark reddish brown ferruginous sandy SILTSTONE with black iron staining.	
	1.70	D						2
	2.10	ES						
	2.20	D						
				2.30	54.76		End of pit at 2.30 m	3
								4
								5

Remarks: Water seepage encountered at 1.3m. Water level risen from bottom of pit to 2.0m 20 minutes post-excavation.

Stability:

AGS

Trial Pit Log

Trialpit No

TP127

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords:	517948 - 131719
Level:	56.52

Date
25/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

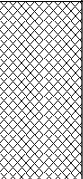
Dimensions
(m):

Scale
1:25

Client: West Sussex County Council

Depth
2.00

Logged
OA

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.20	ES	N=40	0.60	55.92		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick, pavement blocks and kerbs and occasional fragments of plastic.	1	
	0.40	ES					Stiff to very stiff mottled grey brown clayey sandy SILT. <i>Minor groundwater seepage encountered at 0.6m.</i>		
	1.00	B							
	1.00	D							
	1.90	D		1.80	54.72			Extremely weak dark reddish brown ferruginous sandy SILTSTONE.	2
				2.00	54.52			End of pit at 2.00 m	
								3	
								4	
								5	

Remarks:	No further progress due to ground hardness. Minor water seepage encountered at 0.6m.
----------	--

Stability:

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Trial Pit Log

Trialpit No

TP128

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517980 - 131754

Level: 57.00

Date

19/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

Depth
2.30

Scale

1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic, ceramic, cables, polythene.	
	0.50	ES						
	0.90	ES						
	1.30	ES						
	1.90	ES					<u>Metal drainage object encountered within arisings at 1.7m</u> <u>Disused black drainage pipe encountered at 1.85m</u>	
	2.25	D		2.20 2.30	54.80 54.70		Recovered arisings comprising fragments of greyish brown laminated SANDSTONE End of pit at 2.30 m	

Remarks: Groundwater seepage encountered at 1.2m and major drainage water ingress encountered at 1.85m.

Stability:

AGS

Trial Pit Log

Trialpit No

TP129

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords:	517981 - 131786
Level:	57.54

Date
19/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

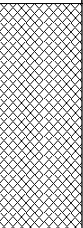
Dimensions
(m):

Scale
1:25

Client: West Sussex County Council

Depth
0.90

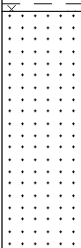
Logged
OA

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.20	ES					Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic and cables.		
	0.50	ES						Medium pea shingle GRAVEL.	
	0.80	ES							
									End of pit at 0.90 m

Remarks:	Trial pit stopped due to encountered service pipe at 0.9m. Trial pit remained dry and stable.
----------	---

Stability:

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Project Name: Novartis				Project No. LP2441		Co-ords: 518046 - 131786 Level: 58.88		Date 19/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 2.40		Logged OA	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	ES	Refused 3/5/25	0.30	58.58		Grass over TOPSOIL with rootlets.		
	0.70	D		1.60	57.28		Stiff brown silty CLAY.		
							Hand Pen at 0.7m = 206kPa		
							Hand Pen at 1.4m = 186kPa		
	1.40	D		2.00	D	2.40	56.48		Extremely weak reddish brown laminated ferruginous SANDSTONE with black iron staining.
							End of pit at 2.40 m		
Remarks: Trial pit remained dry and stable.									
Stability:									





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Trial Pit Log

Trialpit No

TP131

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 518056 - 131763

Level:

Date

25/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
2.90

Scale

1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES		0.30			Grass over TOPSOIL with rootlets and occasional brick and BLACKTOP.	1
	0.40	ES					Dark brown clayey sandy MADE GROUND with occasional brick and concrete.	
	0.80	ES		1.10			Stiff mottled grey brown clayey sandy SILT.	2
	1.50	D					Hand Pen at 1.5m = 220kPa	
	2.40	D		2.70			Extremely weak reddish brown grey black stained ferruginous silty SANDSTONE.	3
	2.80	D					End of pit at 2.90 m	
				2.90				4
								5

Remarks: Minor water seepage encountered at bottom of trial pit. No further progress due to ground hardness.

Stability:

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Trial Pit Log

Trialpit No

TP132

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 518012 - 131720
Level: 57.21

Date
20/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
2.10

Scale
1:25

Logged
OA

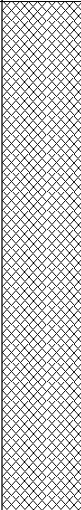
Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=7	0.15	57.06		CONCRETE	
							Red sandy gravel fill MADE GROUND.	
	0.40	ES						
	0.60			0.60	56.61		Reworked reddish brown sandy SILTSTONE.	
	0.80	ES						
	1.30	ES		1.20	56.01		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	
	1.80	ES						
				2.10	55.11		End of pit at 2.10 m	

Remarks: Water ingress and standing water level encountered at 1.0m. Water level risen from trial pit bottom to 1.6m 15 minutes post-excavation. No further progress due to hard ground.

Stability:

AGS

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Project Name: Novartis				Project No. LP2441		Co-ords: 517981 - 131688 Level: 56.97		Date 20/01/2021						
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25						
Client: West Sussex County Council						Depth 2.30		Logged OA						
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description							
	Depth	Type	Results											
	0.10	ES					Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.			1				
	0.80	ES												
	1.50	ES												
	1.80	D		1.70 55.27							Stiff grey clayey SILT. <u>Hand Pen at 1.9m = 286kPa</u>			2
	2.20	D		2.00 54.97										
				2.30 54.67					4					
										5				
Remarks: No further progress in the hard ground. Trial pit remained dry and stable.														
Stability:														



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Trial Pit Log

Trialpit No

TP134

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 518042 - 131718
Level: 57.14

Date
21/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions
(m):

Depth
3.00

Scale
1:25

Logged
OA

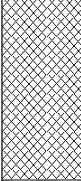
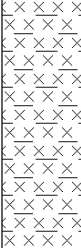
Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=64				Reddish brown MADE GROUND gravel fill with occasional fragments of blacktop at the surface.	
	0.30	ES					Stiff greyish brown clayey SILT.	
				0.50	56.64		Hand Pen at 0.7m = 296kPa	
				0.80	56.34		Extremely weak reddish brown laminated ferruginous silty SANDSTONE.	1
	1.00	D		1.10	56.04		Stiff to very stiff weak grey SILT with cobbles of siltstone.	
	1.50	D						2
	2.50	D						
				3.00	54.14		End of pit at 3.00 m	3
								4
								5

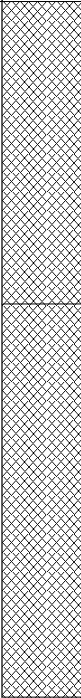
Remarks: Trial pit remained dry. Moderate wall collapse at the end of excavation.

Stability:

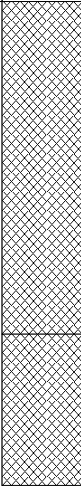


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Project Name: Novartis				Project No. LP2441		Co-ords: 518047 - 131687 Level: 56.59		Date 20/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 2.70		Logged OA	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	ES	N=31	0.60	55.99		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.		
	0.40	ES					Stiff to very stiff grey clayey SILT.		
	1.00	D			Hand Pen at 1.0m = 286kPa				
	1.60	D			Hand Pen at 1.5m = 343kPa				
	2.10	D			Hand Pen at 2.0m = 366kPa				
	2.60	D			Hand Pen at 2.5m = 400kPa				
			2.70	53.89		End of pit at 2.70 m			
Remarks: Major water ingress encountered at 0.4m. No further progress in hard ground.									
Stability:									

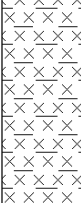
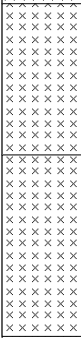


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Project Name: Novartis				Project No. LP2441		Co-ords: 517981 - 131654 Level: 57.05		Date 21/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): Depth 2.30		Scale 1:25 Logged OA	
Client: West Sussex County Council									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.10	ES	N=23	1.00	56.05		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.		
	0.60	ES							
	1.20	D							
	1.50	ES							
	2.00 2.00	B ES							
				2.30	54.75		MADE GROUND comprising gravel of dark reddish brown silty sandstone and occasional fragments of concrete, brick and ceramic.		
							End of pit at 2.30 m		
Remarks: Water seepage encountered at 1.6m. Water level risen from bottom of pit to 1.8m 20 minutes post excavation. No further progress in hard ground.									
Stability:									



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Project Name: Novartis				Project No. LP2441		Co-ords: 517981 - 131622 Level: 56.86		Date 21/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 1.60		Logged OA	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.20	ES		1.10	55.76		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic. Reworked mottled grey brown clayey SILT <i>Shingle encountered between 1.2 and 1.6m in the southern end of the trial pit.</i>		
	0.60	ES							
	0.90	ES							
	1.50	D		1.60	55.26	End of pit at 1.60 m			
	1.50	ES							
Remarks: Water seepage encountered at 1.1m. Water level risen from bottom of pit to 1.4m 20 minutes post excavation. No further progress due to potential service within encountered shingle. Stability: 									

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Project Name: Novartis				Project No. LP2441		Co-ords: 518014 - 131620 Level: 56.34		Date 20/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 2.00		Logged OA	

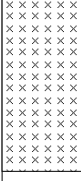
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	Refused 10/15/15/25	0.20	56.14	  	Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic. Stiff to very stiff mottled brown grey silty CLAY.	1
	0.50	D					Hand Pen at 0.7m = 360kPa	
	1.10	D		0.90	55.44		Extremely weak reddish brown laminated ferruginous slightly sandy SILTSTONE with black iron staining.	
				1.40	54.94		Extremely weak grey SILTSTONE.	
	1.70	D		2.00	54.34		End of pit at 2.00 m	
								2
								3
								4
								5

Remarks: Soakage testing installed with 110 slotted HDPE pipe. Backfill: 0-0.3m arisings, 0.3-2m gravel. Surface water seepage from the northern face of pit encountered at 0.3m.

Stability:



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Project Name: Novartis				Project No. LP2441		Co-ords: 518013 - 131589 Level: 57.60		Date 20/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 2.80		Logged OA	

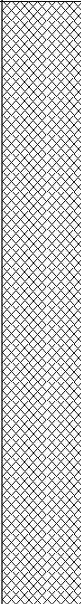
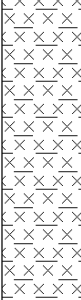
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES	N=21	0.30	57.30		Orange coarse SAND.	1
	0.50	ES					Stiff to very stiff grey silty CLAY.	
	0.60	D					Hand Pen at 0.7m = 416kPa	
	1.00	D		0.80	56.80		Extremely weak reddish brown laminated ferruginous sandy SILTSTONE.	2
				1.40	56.20		Stiff to very stiff grey clayey SILT.	
							Hand Pen at 1.6m = 406kPa	
				1.80	55.80		Stiff to very stiff grey sandy clayey SILT.	3
	2.20	B		2.20	55.40		Extremely weak reddish brown laminated ferruginous sandy SILTSTONE with black iron staining.	
	2.60	D		2.80	54.80	End of pit at 2.80 m		
								5

Remarks: No further progress in the hard ground. Trial pit remained dry and stable.

Stability:



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Project Name: Novartis				Project No. LP2441		Co-ords: 517948 - 131589 Level: 56.70		Date 21/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 3.00		Logged OA	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	
	0.40	ES						
	0.60	B						
	1.20	ES					Stiff mottled grey brown clayey SILT. Hand Pen at 2.5m = 280kPa	
	1.80	ES						
	2.10	ES		2.00	54.70			
	2.40	D						
	2.90	D		3.00	53.70		End of pit at 3.00 m	

Remarks: Water seepage encountered at 0.7m		
Stability:		



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Trial Pit Log

Trialpit No

TP141

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517917 - 131594
Level: 55.78

Date
27/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
0.10



Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
								1
								2
								3
								4
								5

Remarks: No excavation carried out due to potential proximity to utility services. Only surface environmental sample taken.

Stability:





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Trial Pit Log

Trialpit No

TP142

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517948 - 131556
Level: 56.36

Date
21/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
2.00

Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=4	0.30	56.06		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	1
	0.50 0.60	ES D					Reworked mottled brown grey silty CLAY.	
	1.20	D		2.00	54.36		End of pit at 2.00 m	2
	1.80	D						
								3
								4
								5

Remarks: Water seepage encountered at 1.0m. No further progress due to increasing trial pit wall instability and major collapse.

Stability:

AGS

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Project Name: Novartis				Project No. LP2441		Co-ords: 517980 - 131557 Level: 56.66		Date 25/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): Depth 1.80		Scale 1:25 Logged OA	
Client: West Sussex County Council									

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=72				Grass over TOPSOIL with occasional large concrete block and rootlets.	1
	0.40	ES		0.30	56.36		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	
				0.50	56.16		Very stiff mottled grey brown silty CLAY.	
	1.20	D						
							Hand Pen at 1.2m = 316kPa	
	1.70	D		1.60	55.06		Extremely weak black stained reddish brown laminated ferruginous sandy SILTSTONE.	2
				1.80	54.86		End of pit at 1.80 m	
								3
								4
								5

Remarks: No further progress due to ground hardness. Trial pit remained dry and stable.

Stability:





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Trial Pit Log

Trialpit No

TP144

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 518014 - 131555
Level: 57.62

Date
25/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
3.10

Scale
1:25

Logged
OA

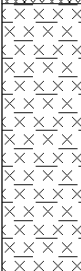
Client: West Sussex County Council

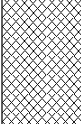
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES					Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	
	0.40	ES						
				0.60	57.02		Reworked mottled grey brown clayey SILT. <i>Vertical layer of land drain shingle encountered from 0.6m to 1.4m</i>	1
				1.40	56.22		Mottled grey brown sandy SILT.	2
	1.50	D						
				2.10	55.52		Mottled grey brown sandy gravelly SILT with gravel of extremely weak fragments of laminated reddish brown siltstone.	3
	2.70	D						
				3.10	54.52		End of pit at 3.10 m	4
								5

Remarks: Trial pit remained dry and stable.

Stability:

AGS

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Project Name: Novartis				Project No. LP2441		Co-ords: 518013 - 131524 Level: 58.71		Date 25/01/2021		
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25		
Client: West Sussex County Council						Depth 2.00		Logged OA		
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.15	ES	N=23	0.30	58.41		Grass over TOPSOIL with rootlets.			1 2 3 4 5
	0.40	ES					Reworked grey brown clayey SILT.			
	0.85	D		Land drain encountered at 0.6m.						
	1.20	D		0.90	57.81		Stiff to very stiff mottled grey brown very clayey SILT.			
	1.90	D					Hand Pen at 1.5m = 306kPa			
				1.80	56.91		Extremely weak yellowish light brown slightly sandy clayey SILTSTONE.			
							End of pit at 2.00 m			
				2.00	56.71					
Remarks: No further progress due to ground hardness. Trial pit remained dry and stable.										
Stability:										

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Project Name: Novartis				Project No. LP2441		Co-ords: 517982 - 131491 Level: 57.28		Date 21/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 1.10		Logged OA	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.20	ES	Refused at 1m				Yellowish brown sandy gravelly MADE GROUND with gravel of subangular to subrounded fine to coarse concrete.		
	0.50	ES		0.45	56.82		Black stained sandy silt MADE GROUND with occasional fragments of concrete.		
				0.60	56.68		Yellowish brown sandy SILT.		
	0.80	D		0.90	56.38		Extremely weak yellowish brown sandy SILTSTONE.		
	1.00	D		1.10	56.18		End of pit at 1.10 m		
1 2 3 4 5									
Remarks: Water seepage encountered at 0.5m. No further progress due to ground hardness.									
Stability: 									



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Trial Pit Log

Trialpit No

TP147

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517771 - 131811
Level: 56.16

Date
18/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
3.00

Scale
1:25

Logged
OA

Client: West Sussex County Council

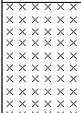
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	N=39	0.80	55.36		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and flint and occasional fragments of plastic and vinyl.	1
	0.70	ES					Stiff to very stiff mottled brown grey silty CLAY with occasional gravel of subangular to subrounded fine to coarse flint. <i>Hand Pen at 1.0m = 366kPa</i>	
	1.20	D		2.40	53.76			2
	2.00	D					<i>Hand Pen at 2.0m = 230kPa</i>	
	2.50	D					Very stiff mottled grey brown red silty CLAY. <i>Hand Pen at 2.5m = 326kPa</i>	
	2.90	D		3.00	53.16		<i>Hand Pen at 2.8m = 343kPa</i>	3
							End of pit at 3.00 m	
								4
								5

Remarks: Soakage testing installed with 110 slotted HDPE pipe. Backfill: 0-1m arisings, 1-3m gravel. Surface water seepage from the northern face of pit encountered at 0.3m.

Stability:

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 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TP148 Sheet 1 of 1	
Project Name: Novartis				Project No. LP2441		Co-ords: 517998 - 131444 Level: 57.31		Date 22/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 1.60		Logged OA	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	Refused 25				Grass over TOPSOIL with rootlets.	1
	0.35	ES		0.25	57.06		Red sandy gravel fill MADE GROUND.	
	0.50	ES		0.45	56.86		Reworked mottled yellowish brown grey sandy SILT.	
	0.60	D						
	0.90	D		0.80	56.51		Extremely weak reddish brown black iron stained laminated ferruginous very fine sandy SILTSTONE. <u>Land drain encountered at 0.8m.</u>	
				1.20	56.11		<u>Groundwater seepage encountered at 1.1m.</u>	
	1.40	D					Extremely weak grey gravelly SILT with gravel of laminated red iron stained SILTSTONE.	
				1.60	55.71			
							End of pit at 1.60 m	2 3 4 5

Remarks: No further progress due to ground hardness. Groundwater seepage encountered at 1.1m.

Stability:



Project Name:	Novartis
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Project No.
LP2441

Co-ords:	518044 - 131752
Level:	58.07

Date
27/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

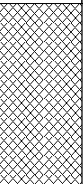
Dimensions
(m):

Scale
1:25

Logged
OA

Client: West Sussex County Council

Depth
0.60

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.60	57.47		Moss over CONCRETE pavement slab. ----- End of pit at 0.60 m

Remarks:	No further progress due to concrete encountered and difficulty in breaking out.
----------	---

Stability:

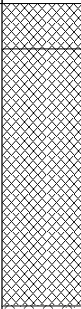
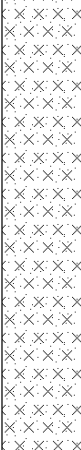
 Leap Environmental Ltd The Atrium, Curtis Road Dorking, Surrey RH4 1XA Tel: 01306 646510 www.leapenvironmental.com				Trial Pit Log				Trialpit No TP150 Sheet 1 of 1	
Project Name: Novartis				Project No. LP2441		Co-ords: 518046 - 131738 Level: 57.63		Date 19/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m): Depth 2.10		Scale 1:25 Logged OA	
Client: West Sussex County Council									

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.10	ES	Refused 5/10/15/25	0.20	57.43		Grass over TOPSOIL with rootlets.	1
	0.30	ES		0.50	57.13		MADE GROUND comprising shingle. <i>Land drain pipe encountered at 0.3m</i>	
				0.90	56.73		Stiff to very stiff brown silty sandy CLAY. <i>Hand Pen at 0.7m = 313kPa</i>	
	1.10	B		1.40	56.23		Extremely weak reddish brown laminated ferruginous SANDSTONE with black iron staining.	
	1.80	B		2.10	55.53		Extremely weak grey SILTSTONE with silt.	
						End of pit at 2.10 m		2
								3
								4
								5

Remarks: Water seepage encountered at 1.0m. No further progress due to hard ground.

Stability:



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Project Name: Novartis				Project No. LP2441		Co-ords: 518013 - 131753 Level: 57.47		Date 20/01/2021	
Location: Parsonage Road, Horsham, RH12 4AN						Dimensions (m):		Scale 1:25	
Client: West Sussex County Council						Depth 2.50		Logged OA	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
	0.20	ES	Refused 5/7/8/17/20/25	0.15	57.32		CONCRETE		
	0.70	ES		Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic, scrap metal, rebar and cables.					
	1.30	D		1.00	56.47		Stiff to very stiff mottled reddish brown grey clayey slightly sandy SILT.		
	1.80	D							
	2.10	D							
	2.40	D							
				2.50	54.97	End of pit at 2.50 m			
1 2 3 4 5									
Remarks: No further progress in the hard ground. Trial pit remained dry and stable.									
Stability:									





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Trial Pit Log

Trialpit No

TP152

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 518029 - 131660
Level: 56.52

Date
20/01/2021

Location: Parsonage Road, Horsham, RH12 4AN

Dimensions (m):

Depth
1.60



Scale
1:25

Logged
OA

Client: West Sussex County Council

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
	0.20	ES					Grey sandy gravelly MADE GROUND fill with gravel of subangular to subrounded fine to coarse concrete, brick and occasional fragments of plastic.	
	0.60	ES		0.40	56.12		MADE GROUND comprising gravel of black crystalline rock.	
				1.60	54.92		End of pit at 1.60 m	

1

2

3

4

5

Remarks: Major water flooding encountered at 1.0m. No further progress due to water flooding limiting vision within the trial pit.

Stability:

AGS



Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Borehole Log

Borehole No.

WS101

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517716 - 131733

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.16

Scale
1:20

Client: West Sussex County Council

Dates: 20/01/2021 - 20/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15	ES		0.40	56.76		Grass over silty clayey TOPSOIL with abundant roots and rootlets.	1
								Stiff orange grey clayey SILT with rare fine siltstone gravel.	
		1.00		N=24 (2,3/4,5,7,8)					
		1.40	D		1.80	55.36		Hand Pen at 1.5m exceeds 400kPa	
		1.90	D					Very weak laminated grey mottled orange clayey SILTSTONE.	
		2.00		62 (5,7/62 for 225mm)	2.00	55.16		End of borehole at 2.00 m	2
									3
									4

Remarks

Borehole refused at 2.0m bgl and remained dry and stable throughout drilling. The excavation was backfilled with arisings on completion. SPT hammer energy ratio 73.31%.



Borehole Log

Borehole No.

WS102

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517756 - 131886

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

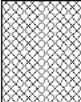
Level: 57.93

Scale
1:20

Client: West Sussex County Council

Dates: 20/01/2021 - 20/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.10	ES		0.10	57.83		BLACKTOP hardstanding	1	
		0.20			0.40	57.53		Dark grey sandy gravelly MADE GROUND. Gravel is fine to coarse sub-angular crystalline rock.		
		1.00	D	N=21 (4,4/4,4,6,7)	1.60	56.33		Stiff to very stiff orange mottled grey fine laminated silty CLAY with fine to medium extremely weak mudstone gravel. <u>Water seepage at 0.4m bgl</u> <u>Hand Pen at 0.8m exceeds 400kPa</u> <u>Hand Pen at 1.5m exceeds 500kPa</u>		
		1.30			1.80	55.93		Extremely weak orange mottled grey clayey SILTSTONE.		
		2.00	D	N=64 (6,8/10,12,22,20+ for 230mm)	2.00	55.93	End of borehole at 2.00 m			

Remarks

Borehole refused at 2.0m bgl and was stable except in the made ground where the side were collapsing. A Monitoring well was installed to 2.0m bgl comprising 1.0m of plain pipe over 1.0m of slotted pipe. The installation was completed at surface with a flush mounted steel cover. A groundwater seepage was noted at 0.40m bgl. SPT hammer energy ratio 73.31%.

Borehole Log

Borehole No.

WS103

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517782 - 131853

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

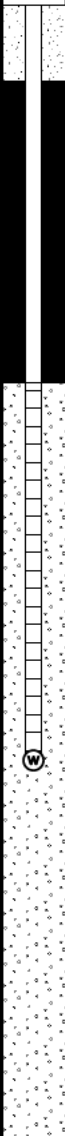
Level: 57.58

Scale
1:20

Client: West Sussex County Council

Dates: 22/01/2021 - 22/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15 0.20	ES ES					Demolition rubble over light brown sandy gravelly MADE GROUND. Gravel is brick and concrete. <u>Water seepage at 0.25m bgl</u> <u>Becomes clayey with depth.</u>	
		1.00		N=9 (3,2/2,2,2,3)	1.00	56.58		Orange brown mottled grey reworked slightly gravelly silty CLAY. Gravel is occasional medium rounded flint, rare fine brick and blacktop.	1
		1.80	D		1.70	55.88		Stiff orange brown mottled grey silty CLAY with partings of clayey silt and bands of very weak siltstone.	
		2.00		N=22 (3,3/5,6,6,5)					2
		2.80	D		2.50	55.08		Extremely weak pale orange, grey and orange interbedded silt MUDSTONE and clayey SILTSTONE. <u>Hand Pen at 2.7m exceeds 600kPa</u>	
		3.00		50 (6,12/12,27,11+ for 150mm)	3.00	54.58		End of borehole at 3.00 m	3
									4

Remarks

Borehole refused at 3.0m bgl. A monitoring well was installed to 3.0m bgl comprising 1.0m of plain pipe over 2.0m of slotted pipe and finished at surface with a raised steel cover. A groundwater seepage was noted at 0.25m bgl. SPT hammer energy ratio 73.31%.



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Borehole Log

Borehole No.

WS104

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517780 - 131786

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.18

Scale
1:20

Client: West Sussex County Council

Dates: 20/01/2021 - 20/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40	ES		0.80	55.38		Demolition rubble over brown slightly clayey gravelly MADE GROUND. Gravel is brick, concrete, tile, plastic and occasional flint.	
								Water seepage at 0.7m bgl	
								End of borehole at 0.80 m	
									1
									2
									3
									4

Remarks

Borehole refused at 0.8m bgl and was backfilled with arisings on completion. Refused on what was believed to be a concrete obstruction. However, water seeping into the pit meant this could not be varified. Water seeping into the pit at 0.7m.



Borehole Log

Borehole No.

WS105

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517842 - 131843

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

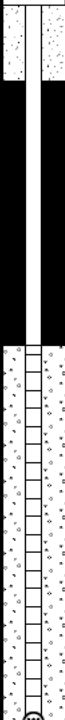
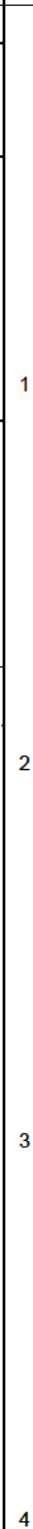
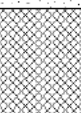
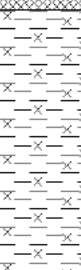
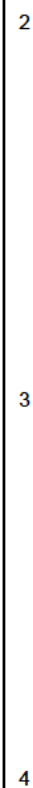
Level: 57.17

Scale
1:20

Client: West Sussex County Council

Dates: 22/01/2021 - 22/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.10	57.07		BLACKTOP hardstanding	
		0.25			0.40	56.77		Brown and brick red sandy gravelly MADE GROUND, Gravel is medium to cobble sized brick and fine to medium blacktop/clinker fragments.	
		1.00	D	N=45 (4,4/6,13,14,12)	1.10	56.07		Stiff finely laminated mottled orange and grey slightly silty CLAY with occasional fine extremely mudstone gravel.	
		1.00						Hand Pen at 1m =320kPa	
		1.30	D					Stiff to very stiff mottled orange and grey interbedded silty CLAY and clayey SILT.	
								Hand Pen at 1.2m exceeds 400kPa	
		1.80	D	50 (7,22/50 for 50mm)	1.75	55.42		Extremely weak to very weak finely laminated dark orange brown and grey slightly sandy SILTSTONE.	
		1.90			1.90	55.27		End of borehole at 1.90 m	

Remarks

Borehole refused at 1.9m bgl and was stable except in the made ground where the side were collapsing. A monitoring well was installed to 1.9m bgl comprising 0.9m of plain pipe over 1.0m of slotted pipe. The well was finished at ground level with a flush steel cover. No groundwater seepages were encountered. SPT hammer energy ratio 73.31%.

Borehole Log

Borehole No.

WS106

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517813 - 131847

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.23

Scale
1:20

Client: West Sussex County Council

Dates: 21/01/2021 - 21/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES					Mossy ground and demolition rubble over pale grey brown sandy gravelly MADE GROUND. Gravel is concrete, mortar and rare brick.	
		0.50	ES		0.47 0.52	56.76 56.71		Reworked orangish mottled brown silty CLAY with slight organic odour. Stiff to very stiff grey mottled orange clayey SILT.	
		0.80	D					Hand Pen at 0.75m exceeds 400kPa	
		1.00		N=18 (2,3/4,4,5,5)				Hand Pen at 1.2m exceeds 500kPa	1
		1.30	D					Hand Pen at 1.8m exceeds 400kPa	
		1.90	D					Partings of fine sand noted at 1.9m bgl	
		2.00		N=22 (4,4/4,5,5,8)	2.00	55.23		End of borehole at 2.00 m	2
									3
									4

Remarks

Borehole terminated at 2.0m bgl. A monitoring well was installed to 2.0m bgl comprising 1.0m of plain pipe over 1.0m of slotted pipe and was finished at ground level with a raised steel cover. No groundwater seepages were encountered. SPT hammer energy ratio 73.31%.



Leap Environmental Ltd
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Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Borehole Log

Borehole No.

WS107

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517817 - 131721

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.47

Scale
1:20

Client: West Sussex County Council

Dates: 20/01/2021 - 20/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40	ES					Demolition rubble over gravelly sandy MADE GROUND. Gravel is concrete and brick with rare wood fragments.	
		1.00		N=15 (2,3/3,3,5,4)	1.00	55.47		No recovery from 1.0m to 2.4m bgl.	1
		2.00		71 (7,8/71 for 225mm)				Groundwater encountered at 1.4m bgl	2
					2.40	54.07		End of borehole at 2.40 m	3
									4

Remarks

The borehole refused at 2.4m bgl on an obstruction. No sample was recovered between 1.0m and 2.4m bgl. Groundwater was encountered at 1.40m bgl. The excavation was backfilled with arisings on completion. SPT hammer energy ratio 73.31%.



Borehole Log

Borehole No.

WS108

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517849 - 131693

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

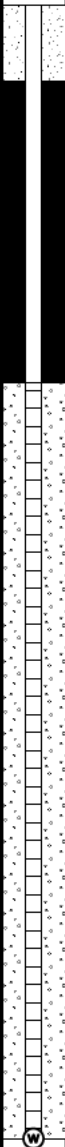
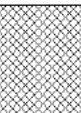
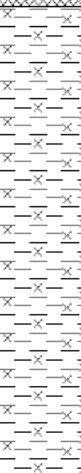
Level: 55.91

Scale
1:20

Client: West Sussex County Council

Dates: 20/01/2021 - 20/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30	55.61		Demolition rubble over clayey sandy gravelly MADE GROUND.	1
		0.50	ES	N=6 (0,0/1,2,2,1)				Soft blue grey and dark grey silty CLAY with abundant rootlets and slight organic odour.	
		1.00 1.00	ES						
		1.25	D						
					1.60	54.31		Firm blue grey silty CLAY.	2
					1.80	54.11		Extremely weak finely laminated interbedded orange brown mottled grey SILTSTONE and MUDSTONE	
		2.00 2.00	D	N=58 (9,12/14,14,14,16)					
		2.50	D						
		3.00		54 (2,8/54 for 225mm)	3.00	52.91		End of borehole at 3.00 m	3
									4

Remarks

Borehole refused at 3.0m bgl. A monitoring well was installed to 3.0m bgl comprising 1.0m of plain pipe over 2.0m of slotted pipe and finished at surface with a raised steel cover. SPT hammer energy ratio 73.31%.

Borehole Log

Borehole No.

WS109

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517916 - 131755

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

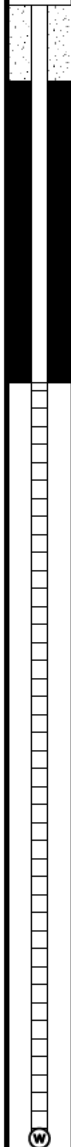
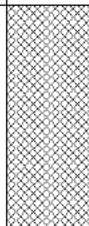
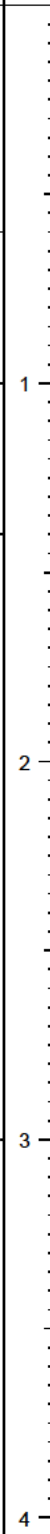
Level: 56.79

Scale
1:20

Client: West Sussex County Council

Dates: 22/01/2021 - 22/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40	ES		0.60	56.19		Demolition rubble over sandy gravelly MADE GROUND. Gravel is flint, concrete and rare brick.	
		0.80	ES					Reddish brown slightly sandy clayey MADE GROUND. Gravel is fine to coarse crystalline rock.	
		1.00		N=18 (1,1/2,3,6,7)	1.00	55.79		Firm mottled orange and grey very silty CLAY with pockets of SILT. <u>Hand Pen at 1.1m = 170kPa</u>	
		1.20	D		1.40	55.39		Extremely weak orange and grey iron stained dark brown silty MUDSTONE. <u>Hand Pen at 1.5m exceeds 500kPa</u>	
		1.90	D						
		2.00		N=32 (4,4/5,6,10,11)					
		2.50	D					<u>Hand Pen at 2.5m exceeds 500kPa</u>	
		3.00		65 (4,9/65 for 225mm)	3.00	53.79		End of borehole at 3.00 m	

Remarks

Borehole refused at 3.0m bgl. A monitoring well was installed to 3.0m bgl comprising 1.0m of plain pipe over 2.0m of slotted pipe and finished at surface with a raised steel cover. SPT hammer energy ratio 73.31%.



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www.leapenvironmental.com

Borehole Log

Borehole No.

WS110

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 518029 - 131741

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

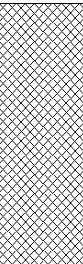
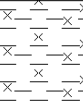
Level: 56.83

Scale
1:20

Client: West Sussex County Council

Dates: 21/01/2021 - 21/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES	50 (6,8/50 for 210mm)	0.70	56.13		Demolition rubble over light brown sandy gravelly MADE GROUND. Gravel is fine to coarse flint and concrete with occasional tile, plastic and brick. <u>Water seepage at 0.2m bgl</u>	1
		0.80	D					Brown to orange brown clayey slightly sandy gravelly MADE GROUND. Gravel is flint and concrete.	
		0.80	ES						
		1.00	D		Very stiff orange brown mottled grey finely laminated silty CLAY.				
		1.10							
					1.25	55.58	 <u>Hand Pen at 1.2m exceeds 400kPa</u>	2	
					1.30	55.53	 Extremely weak grey mottled orange brown very slightly sandy SILTSTONE. Sand is fine. End of borehole at 1.30 m		
									4

Remarks

Borehole refused at 1.3m bgl and was backfilled with arisings on completion. Groundwater encountered at 0.2m bgl. SPT hammer energy ratio 73.31%.



Borehole Log

Borehole No.

WS111

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517980 - 131719

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

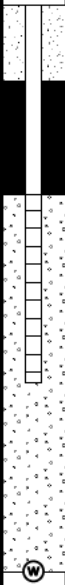
Level: 57.15

Scale
1:20

Client: West Sussex County Council

Dates: 21/01/2021 - 21/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.25	56.90		Demolition rubble over sandy gravelly MADE GROUND. Gravel is fine to medium sub-rounded flint, fine to medium concrete and rare fine brick and mortar.	1
								MADE GROUND comprising concrete rubble.	
		1.00		N=10 (3,4/4,2,2,2)	1.10	56.05		MADE GROUND comprising concrete and flint gravel with pockets of reworked brown mottled orange and grey silty clay with partings of clayey silt.	2
		2.20 - 2.40	D		2.10	55.05		Extremely weak mottled grey and orange laminated sandy MUDSTONE with lenses of clayey siltstone.	3
		2.60		50 (12,40/50 for 25mm)	2.60	54.55		End of borehole at 2.60 m	

Remarks

Borehole refused at 2.6m bgl. A monitoring well installed to 1.5m bgl comprising 0.5m of slotted pipe over 1.0m of plain pipe and finished with a raised steel cover at surface. Groundwater was encountered at 0.90m bgl. SPT hammer energy ratio 73.31%.



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Tel: 01306 646510
www.leapenvironmental.com

Borehole Log

Borehole No.

WS112

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517914 - 131689

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.37

Scale
1:20

Client: West Sussex County Council

Dates: 20/01/2021 - 20/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES					Demolition rubble over sandy gravelly MADE GROUND. Gravel is concrete, brick and flint with rare wood and blacktop.	
		1.00		N=17 (4,4/3,4,5,5)	1.10	55.27		Stiff to very stiff orange mottled dark orange brown and grey finely laminated clayey SILT.	1
		2.00		N=51 (3,7/10,14,15,12)				Hand Pen at 1.5m exceeds 400kPa	2
		2.60		52 (6,10/52 for 150mm)	2.60	53.77		Hand Pen at 2.2m =370kPa	
								End of borehole at 2.60 m	3
									4

Remarks

Borehole refused at 2.6m bgl and was backfilled with arisings on completion. SPT hammer energy ratio 73.31%.



Borehole Log

Borehole No.

WS113

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517915 - 131654

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

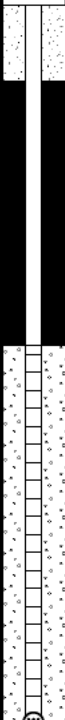
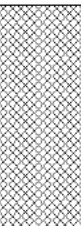
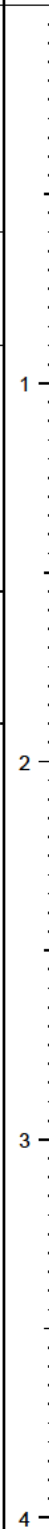
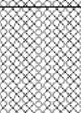
Level: 56.70

Scale
1:20

Client: West Sussex County Council

Dates: 20/01/2021 - 20/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES					Demolition rubble over orange brown sandy gravelly MADE GROUND. Gravel is concrete, brick and flint.	
		0.70	ES		0.60	56.10		Reddish brown clayey gravelly MADE GROUND. Gravel is crystalline rock.	
		1.30	D		0.90	55.80		Stiff very stiff grey mottled orange clayey SILT.	
		1.55			1.55	55.15		Extremely to very weak grey mottled orange and dark orange laminated clayey SILTSTONE.	
		1.90	D		1.90	54.80		End of borehole at 1.90 m	

Remarks

Borehole refused at 1.9m bgl. A monitoring well was installed to 1.9m bgl comprising 0.9m of plain pipe over 1.0m of slotted pipe finished at ground level with a raised steel cover. No SPT tests undertaken due to failure of the equipment on site.

Borehole Log

Borehole No.

WS115

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517979 - 131591

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

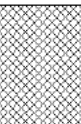
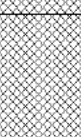
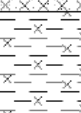
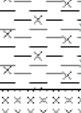
Level: 56.31

Scale
1:20

Client: West Sussex County Council

Dates: 21/01/2021 - 21/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15	ES					Demolition rubble over orange brown slightly clayey sandy gravelly MADE GROUND. Gravel is fine to coarse flint, concrete and mortar with occasional plastic, fine brick and fabric.	
		0.45	ES		0.35	55.96		<u>Slight organic odour noted below 0.3m</u> Orange brown mottled black/dark brown sandy gravelly clayey MADE GROUND. Gravel is flint concrete and siltstone.	
		0.90	D		0.70	55.61		Firm mottled orange brown and grey slightly sandy SILT with partings of fine silty sand and occasional fine siltstone gravel.	
		1.00		N=17 (4,6/5,4,4,4)	1.00	55.31		Very stiff orange mottled grey and speckled black silty CLAY with fine siltstone gravel. <u>Hand Pen at 1.1m exceeds 500kPa</u>	1
		1.50	D					<u>Hand Pen at 1.5m exceeds 400kPa</u>	
		1.90	D		1.80	54.51		<u>Hand Pen at 1.7m exceeds 600kPa</u> Extremely weak finely laminated orange brown and grey sandy SILTSTONE.	
		2.00		40 (7,16/50 for 50mm)	2.00	54.31		End of borehole at 2.00 m	2
									3
									4

Remarks

Borehole refused at 2.0m bgl. A monitoring well was installed to 2.0m bgl comprising 1.0m of plain pipe over 1.0m of slotted pipe and was finished at ground level with raised steel cover. SPT hammer energy ratio 73.31%.

Borehole Log

Borehole No.

WS116

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 518015 - 131655

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

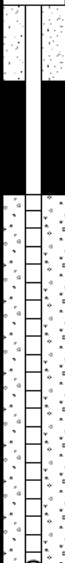
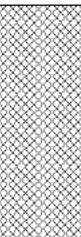
Level: 56.63

Scale
1:20

Client: West Sussex County Council

Dates: 22/01/2021 - 22/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES	N=81 (5,7/12,30,21,18)	0.65	55.98		Demolition rubble over grey brown silty sandy gravelly MADE GROUND. Gravel is concrete, flint, brick, blacktop and rare metal wire.	1
								<u>Water seepage at 0.3m bgl</u>	
		0.80	D					Very stiff orange and grey finely laminated silty CLAY with silt partings and bands of extremely weak siltstone.	
		1.00						<u>Hand Pen at 0.9m exceeds 500kPa</u>	
		1.40	D		1.30	55.33		Stiff friable grey SILT.	2
					1.50	55.13		End of borehole at 1.50 m	
									3
									4

Remarks

Borehole refused at 1.5m bgl. A monitoring well was installed to 1.5m bgl comprising 0.5m of plain pipe over 1.0m of slotted pipe. Groundwater was encountered at 0.3m bgl. SPT hammer energy ratio 73.31%.



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The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Borehole Log

Borehole No.

WS117

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517948 - 131687

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

Level:

Scale
1:20

Client: West Sussex County Council

Dates: 21/01/2021 - 21/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES					Demolition rubble over pinkish brown sandy gravelly MADE GROUND. Gravel is concrete and flint with occasional fine brick and rare wood fragments.	
								<i>Water seepage at 0.8m bgl</i>	
		1.00		N=25 (8,7/5,4,6,10)	0.95			Stiff mottled orange and grey and locally darkly iron stained slightly sandy silty CLAY.	1
								<i>Hand Pen at 1.1m exceeds 400kPa</i>	
		1.30	D					<i>Hand Pen at 1.5m exceeds 500kPa</i>	
					1.60			Extremely weak becoming very weak orange brown and pale grey iron stained dark brown slightly sandy SILTSTONE.	
		1.90	D	65 (16,19/65 for 225mm)	1.90			End of borehole at 1.90 m	2
		1.90							3
									4

Remarks

Borehole refused at 1.9m bgl and was backfilled with arisings on completion. Groundwater encountered at 0.8m bgl. SPT hammer energy ratio 73.31%.



Borehole Log

Borehole No.

WS118

Sheet 1 of 1

Project Name: Novartis

Project No.
LP2441

Co-ords: 517730 - 131819

Hole Type
WS

Location: Parsonage Road, Horsham, RH12 4AN

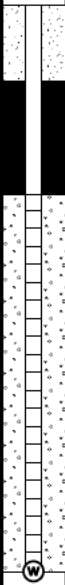
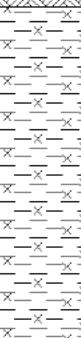
Level:

Scale
1:20

Client: West Sussex County Council

Dates: 22/01/2021 - 22/01/2021

Logged By
ADC

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.25	ES		0.30			Grass over brown silty clayey TOPSOIL with rootlets.	1
					0.60			Brown silty clayey SUBSOIL.	
		0.90 1.00	D	N=19 (2,3/4,4,5,6)				Firm becoming stiff orange and grey silty CLAY and clayey silt with rare fine siltstone gravel. <u>Hand Pen at 0.9m =140kPa</u> <u>Hand Pen at 1.3m exceeds 500kPa</u>	
		1.40	D		1.50			End of borehole at 1.50 m	
									2
									3
									4

Remarks

Borehole was terminated at 1.5m bgl. A monitoring well was installed to 1.5m bgl and comprised 0.5m of plain pipe over 1.0m of slotted pipe and was finished at ground level with a raised steel cover. SPT hammer energy ratio 73.31%.



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The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Rotary Core Log

Borehole No.

BH101

Sheet 1 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517982 - 131523

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.93

Scale
1:20

Client: West Sussex County Council

Dates: 25/01/2021 - 27/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		1.20 - 1.50	D							MADE GROUND comprising light grey sandy gravel with fine to coarse flint and concrete.	1
		1.50 - 3.00	C				1.50	55.43		MADE GROUND comprising loose cobbles of concrete and flint. <u>Electrical wire recovered within arisings from 1.5m to 3.0m.</u>	2
		3.00 - 3.90	C				3.45	53.48		CONCRETE slab reinforced with rebar.	3
		3.90 - 5.10	C							Continued on next sheet	4

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Groundwater recorded at 5.5m upon completion. Two monitoring wells installed to 14m and 2m, comprising 8m plain pipe over 6m of slotted pipe and 1m plain over 1m slotted. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.



Rotary Core Log

Borehole No.

BH101

Sheet 2 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517982 - 131523

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

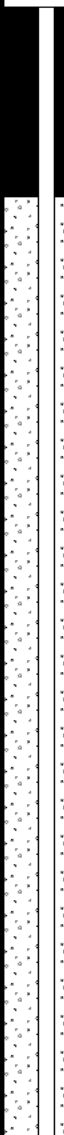
Level: 56.93

Scale
1:20

Client: West Sussex County Council

Dates: 25/01/2021 - 27/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description		
				TCR	SCR	RQD						
		3.90 - 5.10	C	100	97	94	4.05	52.88		Very weak yellowish greenish grey slightly fine grain sandy silty MUDSTONE interbedded with light grey laminated SANDSTONE beds 3-5cm thick. <u>Horizontal fracture at 4.48m.</u> <u>Horizontal fracture at 4.51m.</u> <u>Horizontal fracture at 4.98m.</u>	5	
		5.10 - 6.60										
		5.10 - 6.60		100	100	100	5.50	51.43				Very weak greenish grey clayey SILTSTONE.
		6.60 - 8.10					C					
		6.60 - 8.10				6.70	50.23		Very weak greenish grey clayey SILTSTONE. <u>Horizontal fracture at 6.70m.</u>	7		
		6.60 - 8.10	100	96	73	7.05	49.88		Weak grey to brownish yellow medium to coarse grained SANDSTONE with occasional coal deposits. <u>Horizontal fracture at 7.15m.</u> <u>Horizontal fracture at 7.65m.</u> <u>Horizontal fracture at 7.75m.</u> <u>Horizontal fracture at 7.85m.</u>			
								7.90	49.03		Weak light grey laminated clayey fine grain	8
		Continued on next sheet										

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Groundwater recorded at 5.5m upon completion. Two monitoring wells installed to 14m and 2m, comprising 8m plain pipe over 6m of slotted pipe and 1m plain over 1m slotted. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

Rotary Core Log

Borehole No.

BH101

Sheet 3 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517982 - 131523

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.93

Scale
1:20

Client: West Sussex County Council

Dates: 25/01/2021 - 27/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		8.10 - 9.60	C				8.60	48.33		SANDSTONE. <u>Horizontal fracture at 8.00m.</u>	9
										<u>Horizontal fracture at 8.48m.</u>	
										<u>Horizontal fracture at 8.58m.</u>	
										Weak dark grey fine grain sandy MUDSTONE.	
										<u>Horizontal fracture at 8.90m.</u>	
										<u>Horizontal fracture at 9.10m.</u>	
										<u>Horizontal fracture at 9.20m.</u>	
		9.60 - 11.10	C				9.35	47.58		Weak light grey laminated fine grain SANDSTONE with occasional reddish brown grey ferruginous zones. <u>Horizontal fracture at 9.40m.</u> <u>Horizontal fracture at 9.45m.</u> <u>Sub-horizontal fracture at 9.5m.</u>	10
										<u>Horizontal fracture at 9.85m.</u>	
		11.10 - 12.60	C							<u>Horizontal fracture at 10.32m.</u> <u>Horizontal fracture at 10.45m.</u>	11
		11.10 - 12.60	C				11.60	45.33		<u>Horizontal fracture at 10.99m.</u> <u>Horizontal fracture at 11.07m.</u> <u>Horizontal fracture at 11.3m.</u> <u>Horizontal fracture at 11.4m.</u>	12
		11.10 - 12.60	C							Extremely weak to weak dark grey MUDSTONE. <u>Horizontal fracture at 11.6m.</u>	12

Continued on next sheet

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Groundwater recorded at 5.5m upon completion. Two monitoring wells installed to 14m and 2m, comprising 8m plain pipe over 6m of slotted pipe and 1m plain over 1m slotted. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH101

Sheet 4 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517982 - 131523

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

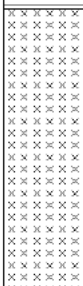
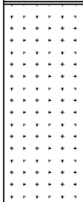
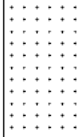
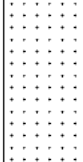
Level: 56.93

Scale
1:20

Client: West Sussex County Council

Dates: 25/01/2021 - 27/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description
				TCR	SCR	RQD				
W		12.60 - 14.10	C				12.80	44.13		<u>Horizontal fracture at 12.05m.</u>
									<u>Horizontal fracture at 12.25m.</u>	
	12.60 - 14.10		100	100	90	13.55	43.38		Very weak greenish dark grey clayey SILTSTONE. <u>Horizontal fracture at 12.95m.</u>	
									Weak dark grey MUDSTONE.	
	14.10 - 15.60	C				14.40	42.53		<u>Horizontal fracture at 13.99m.</u>	
									<u>Horizontal fracture at 14.25m.</u>	
	14.10 - 15.60		100	100	92			Weak light to dark grey clayey fine grain SANDSTONE. <u>Horizontal fracture at 14.46m.</u>		
								<u>Horizontal fracture at 14.96m.</u>		
	15.60 - 17.10	C							<u>Horizontal fracture at 15.32m.</u>	
								<u>Horizontal fracture at 15.75m.</u> <u>Horizontal fracture at 15.9m.</u>		
									Continued on next sheet	

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Groundwater recorded at 5.5m upon completion. Two monitoring wells installed to 14m and 2m, comprising 8m plain pipe over 6m of slotted pipe and 1m plain over 1m slotted. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS



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The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Rotary Core Log

Borehole No.

BH101

Sheet 5 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517982 - 131523

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

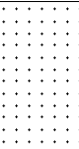
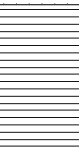
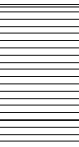
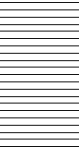
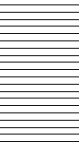
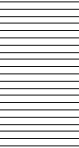
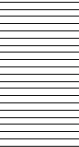
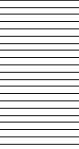
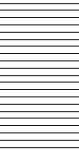
Level: 56.93

Scale
1:20

Client: West Sussex County Council

Dates: 25/01/2021 - 27/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		15.60 - 17.10	C	93	100	85	16.40	40.53		Weak dark grey fine grain sandy MUDSTONE. <u>Horizontal fracture at 16.45m.</u>	17
		16.80	40.13		Weak greenish dark grey silty MUDSTONE. <u>Horizontal fracture at 16.95m.</u>						
		17.10	39.83		Weak dark grey MUDSTONE.						
		17.10 - 18.60	C	100	100	100	17.10	39.83		<u>Horizontal fracture at 17.7m.</u>	
		18.60 - 20.10	C	93	90	90	18.60	39.83		<u>Horizontal fracture at 18.0m.</u>	
18.60 - 20.10	C	93	90	90	18.60	39.83		<u>Horizontal fracture at 19.75m.</u>			
18.60 - 20.10	C	93	90	90	18.60	39.83					
18.60 - 20.10	C	93	90	90	18.60	39.83					
18.60 - 20.10	C	93	90	90	18.60	39.83					
18.60 - 20.10	C	93	90	90	18.60	39.83					
18.60 - 20.10	C	93	90	90	18.60	39.83					
Continued on next sheet										20	



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The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Rotary Core Log

Borehole No.

BH101

Sheet 6 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517982 - 131523

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.93

Scale
1:20

Client: West Sussex County Council

Dates: 25/01/2021 - 27/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							20.10	36.83		End of borehole at 20.10 m	
											21
											22
											23
											24

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Groundwater recorded at 5.5m upon completion. Two monitoring wells installed to 14m and 2m, comprising 8m plain pipe over 6m of slotted pipe and 1m plain over 1m slotted. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.



Rotary Core Log

Borehole No.

BH102

Sheet 1 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518014 - 131688

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

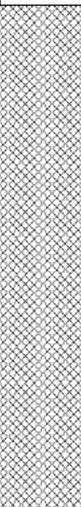
Level: 57.13

Scale
1:20

Client: West Sussex County Council

Dates: 28/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		1.20 - 1.50	D				1.35	55.78		MADE GROUND comprising light brown gravelly silty clayey gravel with fine to coarse subangular to subrounded flint.	1
		1.50 - 2.00	U				1.50	55.63		Dark grey silty CLAY.	
		2.00 - 2.50	U				2.00	55.13		Undisturbed sample.	2
		2.50 - 4.00	C				2.50	54.63		Extremely weak light grey clayey fine grain SANDSTONE.	
							2.70	54.43		Extremely weak light grey fine grained sandy MUDSTONE.	
							3.00	54.13		Extremely weak light grey laminated clayey fine grain SANDSTONE with orange iron staining present	3
		2.50 - 4.00		90	73	54				Horizontal fracture at 3.10m.	
										Horizontal fracture at 3.34m.	
							3.55	53.58		Extremely weak weak light grey fine grained sandy MUDSTONE.	
										Horizontal fracture at 3.78m.	
		4.00 - 5.50	C				3.95	53.18			4

Continued on next sheet

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.5m and rotary coring to full depth. Drilled in 146mm diameter casing. No groundwater encountered during drilling and upon completion. Potentially masked by drilling flush used in rotary coring. A monitoring well installed to 20.5m comprising 17.5m plain pipe over 3m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH102

Sheet 2 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518014 - 131688

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.13

Scale
1:20

Client: West Sussex County Council

Dates: 28/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description								
				TCR	SCR	RQD												
		4.00 - 5.50	C	100	100	97	4.10	53.03		Very weak fine to medium grain SANDSTONE.								
										Very weak to weak grey silty MUDSTONE.								
										<u>Horizontal fracture at 4.10m.</u>								
										<u>Horizontal fracture at 4.17m.</u>								
										<u>Horizontal fracture at 4.26m.</u>								
										<u>Horizontal fracture at 4.36m.</u>								
										5.50 - 7.00	C				6.00	51.13		<u>Horizontal fracture at 5.67m.</u>
																		<u>Horizontal fracture at 5.92m.</u>
																		<u>Horizontal fracture at 5.96m.</u>
																		Weak fine to coarse grain SANDSTONE with occasional coal deposits.
		<u>Horizontal fracture at 6.10m.</u>																
		<u>Horizontal fracture at 6.62m.</u>																
		<u>Horizontal to sub-horizontal fracture zone present from 6.8m to 7.0m.</u>																
		<u>Vertical joint and horizontal fracture zone from 7.0m to 7.66m.</u>																
		7.00 - 8.50	C	100	90	62	7.83	49.30										<u>Horizontal fracture at 7.66m.</u>
																		Weak dark grey silty MUDSTONE.
										<u>Horizontal fracture at 7.83m.</u>								
										Continued on next sheet								

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.5m and rotary coring to full depth. Drilled in 146mm diameter casing. No groundwater encountered during drilling and upon completion. Potentially masked by drilling flush used in rotary coring. A monitoring well installed to 20.5m comprising 17.5m plain pipe over 3m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH102

Sheet 3 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518014 - 131688

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.13

Scale
1:20

Client: West Sussex County Council

Dates: 28/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		0.50 - 10.00	C				8.60	48.53		Horizontal fracture at 8.42m.	
		8.50 - 10.00		100	100	1				Weak light grey laminated fine grained SANDSTONE. Horizontal fracture at 8.64m.	
										Horizontal fracture at 9.00m.	9
										Horizontal fracture at 9.65m.	
										Horizontal fracture at 9.77m.	
		10.00 - 11.50	C							Horizontal fracture at 10.05m.	10
										Horizontal fracture at 10.28m.	
		10.00 - 11.50		97	97	91				Horizontal fracture at 10.53m.	
							11.00	46.13		Weak dark grey silty MUDSTONE.	11
										Horizontal fracture at 11.14m.	
										Horizontal fracture at 11.20m.	
		11.50 - 13.00	C				11.40	45.73		Weak dark grey clayey fine grain SANDSTONE with occasional zones of lamination.	
										Continued on next sheet	12

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.5m and rotary coring to full depth. Drilled in 146mm diameter casing. No groundwater encountered during drilling and upon completion. Potentially masked by drilling flush used in rotary coring. A monitoring well installed to 20.5m comprising 17.5m plain pipe over 3m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.



Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Rotary Core Log

Borehole No.

BH102

Sheet 4 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518014 - 131688

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.13

Scale
1:20

Client: West Sussex County Council

Dates: 28/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		11.50 - 13.00		100	100	98					
		13.00 - 14.50	C								13
		13.00 - 14.50		100	100	95					14
		14.50 - 16.00	C								
		14.50 - 16.00		100	93	84				Horizontal fracture at 14.60m.	
		14.50 - 16.00								Horizontal fracture at 15.10m.	15
		16.00 - 17.50	C				15.70	41.43		Weak dark grey silty MUDSTONE. Horizontal fracture at 15.70m. Horizontal fracture at 15.90m.	16

Continued on next sheet

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.5m and rotary coring to full depth. Drilled in 146mm diameter casing. No groundwater encountered during drilling and upon completion. Potentially masked by drilling flush used in rotary coring. A monitoring well installed to 20.5m comprising 17.5m plain pipe over 3m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH102

Sheet 5 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518014 - 131688

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.13

Scale
1:20

Client: West Sussex County Council

Dates: 28/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description				
				TCR	SCR	RQD								
		16.00 - 17.50	C	100	94	86	16.40	40.73		Horizontal fracture at 16.30m.				
										Horizontal fracture at 16.39m.				
									Weak dark grey MUDSTONE.					
									Weak dark grey silty MUDSTONE.					
				17.50 - 19.00	C	100	100	90	19.00	38.13		Horizontal fracture at 17.02m.		
												Horizontal fracture at 17.22m.		
												Horizontal fracture at 17.40m.		
											Weak dark grey clayey SILTSTONE.			
		19.00 - 20.50	C	100	96	96	19.10	38.03	Weak dark grey silty MUDSTONE.					
									19.30	37.83	Weak dark grey clayey SILTSTONE.			
											19.80	37.33	Weak dark grey silty MUDSTONE.	
													Continued on next sheet	

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.5m and rotary coring to full depth. Drilled in 146mm diameter casing. No groundwater encountered during drilling and upon completion. Potentially masked by drilling flush used in rotary coring. A monitoring well installed to 20.5m comprising 17.5m plain pipe over 3m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS



Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
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Rotary Core Log

Borehole No.

BH102

Sheet 6 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518014 - 131688

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

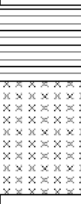
Level: 57.13

Scale
1:20

Client: West Sussex County Council

Dates: 28/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							20.20	36.93		Weak blueish dark grey clayey SILTSTONE.	
							20.50	36.63			
										End of borehole at 20.50 m	
											21
											22
											23
											24

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.5m and rotary coring to full depth. Drilled in 146mm diameter casing. No groundwater encountered during drilling and upon completion. Potentially masked by drilling flush used in rotary coring. A monitoring well installed to 20.5m comprising 17.5m plain pipe over 3m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.



Rotary Core Log

Borehole No.

BH103

Sheet 1 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518011 - 131785

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

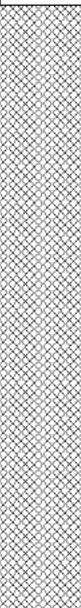
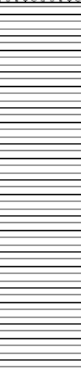
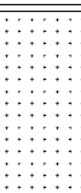
Level: 57.37

Scale
1:20

Client: West Sussex County Council

Dates: 29/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
G		1.30 - 2.00	D				1.60	55.77		MADE GROUND comprising loose gravel of flint cobbles.	1
		2.00 - 3.50	C				2.60	54.77		Very weak greenish grey silty MUDSTONE with brownish red ferruginous zones. <u>Horizontal fracture at 2.1m.</u> <u>Horizontal fracture at 2.2m.</u> <u>Horizontal fracture at 2.35m.</u>	2
		2.00 - 3.50		100	86	77	3.10	54.27		Weak to moderately strong yellowish grey coarse SANDSTONE with laminations. <u>Horizontal fracture at 2.9m.</u> <u>Horizontal fracture at 3.03m.</u>	3
		3.50 - 5.00	C							Very weak yellowish grey MUDSTONE interbedded with 3-4mm fine grain SANDSTONE beds. <u>Horizontal fracture at 3.24m.</u> <u>Horizontal fracture at 3.4m.</u> <u>Horizontal fracture at 3.9m.</u>	4

Continued on next sheet

Remarks

Hand dug pit to 1.3m followed by rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from fractures below 5.5m. Initial groundwater encountered at the base of the hand dug pit at 1.3m. On completion groundwater was recorded at 3.2m and rising to 2.2m after 30 minutes. Two monitoring wells installed to 20m and 2m, comprising 17m plain pipe over 3m of slotted pipe and 1m plain over 1m slotted. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

Rotary Core Log

Borehole No.

BH103

Sheet 2 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518011 - 131785

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.37

Scale
1:20

Client: West Sussex County Council

Dates: 29/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
1		3.50 - 5.00		83	83	68	4.60	52.77	.....	Horizontal fracture at 4.0m.	
		.....		Horizontal fracture at 4.13m.							
		.....		Horizontal fracture at 4.34m.							
		.....		Horizontal fracture at 4.44m.							
		5.00 - 6.50	C							xxxxxx	Very weak greenish clayey SILTSTONE.
		.....								Horizontal fracture at 4.68m.	
		.....								Horizontal fracture at 4.73m.	
											
											
											
5.00 - 6.50				100	100	70	5.70	51.67	.....	Weak to moderately strong dark grey silty MUDSTONE.	
.....											
.....											
.....											
									.....	Weak greenish clayey SILTSTONE.	
											
											
											
6.50 - 8.00	C						6.40	50.97	.....	Weak light grey coarse grained SANDSTONE.	
.....									Horizontal fracture at 6.6m.		
.....									Horizontal fracture at 6.66m.		
.....											
									.....	Horizontal fracture at 7.13m.	
											Horizontal fracture at 7.3m.
											Horizontal fracture at 7.48m.
											
6.50 - 8.00					100	93	73		49.62		Horizontal fracture at 7.74m.
.....										Weak light grey silty clayey fine grained SANDSTONE with occasional coal deposits.	
.....										Horizontal fracture at 7.92m.	
.....											
8.00 - 9.50	C								.....	Continued on next sheet	

Remarks

Hand dug pit to 1.3m followed by rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from fractures below 5.5m. Initial groundwater encountered at the base of the hand dug pit at 1.3m. On completion groundwater was recorded at 3.2m and rising to 2.2m after 30 minutes. Two monitoring wells installed to 20m and 2m, comprising 17m plain pipe over 3m of slotted pipe and 1m plain over 1m slotted. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH103

Sheet 3 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518011 - 131785

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.37

Scale
1:20

Client: West Sussex County Council

Dates: 29/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		8.00 - 9.50		100	66	32	8.40	48.97		Horizontal fracture at 8.05m. Weak grey laminated fine grain SANDSTONE. Horizontal fracture at 8.45m. Horizontal fracture at 8.75m. Horizontal fracture at 8.95m. Horizontal fracture at 9.2m.	9
		9.50 - 11.00	C							Horizontal fracture at 9.65m. Horizontal fracture at 10.05m.	10
		9.50 - 11.00		91	91	81				Horizontal fracture at 10.5m.	
		11.00 - 12.50	C				10.95	46.42		Horizontal fracture at 10.9m. Weak dark grey silty MUDSTONE.	11
		11.00 - 12.50		100	68	68				Horizontal fracture at 11.2m. Horizontal fracture at 11.5m. Horizontal fracture at 11.82m.	
							11.90	45.47		Very weak to weak dark grey clayey	12

Continued on next sheet

Remarks

Hand dug pit to 1.3m followed by rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from fractures below 5.5m. Initial groundwater encountered at the base of the hand dug pit at 1.3m. On completion groundwater was recorded at 3.2m and rising to 2.2m after 30 minutes. Two monitoring wells installed to 20m and 2m, comprising 17m plain pipe over 3m of slotted pipe and 1m plain over 1m slotted. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

Rotary Core Log

Borehole No.

BH103

Sheet 4 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518011 - 131785

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.37

Scale
1:20

Client: West Sussex County Council

Dates: 29/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		12.50 - 14.00	C				12.60	44.77	XXXXXXXXXX XXXXXXXX		

Remarks

Hand dug pit to 1.3m followed by rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from fractures below 5.5m. Initial groundwater encountered at the base of the hand dug pit at 1.3m. On completion groundwater was recorded at 3.2m and rising to 2.2m after 30 minutes. Two monitoring wells installed to 20m and 2m, comprising 17m plain pipe over 3m of slotted pipe and 1m plain over 1m slotted. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH103

Sheet 5 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518011 - 131785

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

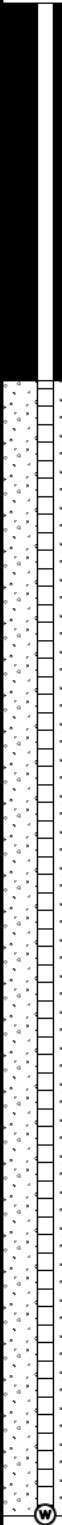
Level: 57.37

Scale
1:20

Client: West Sussex County Council

Dates: 29/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description								
				TCR	SCR	RQD												
		15.50 - 17.00	C	100	93	93	19.30	38.07		Weak dark grey silty MUDSTONE. <u>Horizontal fracture at 16.0m.</u>	17							
		17.00 - 18.00										<u>Horizontal fracture at 16.55m.</u>						
												<u>Horizontal fracture at 16.55m.</u>						
			<u>Horizontal fracture at 16.65m.</u>															
		17.00 - 18.00		100	1	92				<u>Horizontal fracture at 17.33m.</u>								
										<u>Horizontal fracture at 17.53m.</u>								
										<u>Horizontal fracture at 17.96m.</u>								
		18.00 - 19.50	C															
														18.00 - 19.50	96	93	86	
19.50 - 20.00	C																	
								19.50 - 20.00	100	1	100	<u>Horizontal fracture at 19.75m.</u>						
Continued on next sheet																		

Remarks

Hand dug pit to 1.3m followed by rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from fractures below 5.5m. Initial groundwater encountered at the base of the hand dug pit at 1.3m. On completion groundwater was recorded at 3.2m and rising to 2.2m after 30 minutes. Two monitoring wells installed to 20m and 2m, comprising 17m plain pipe over 3m of slotted pipe and 1m plain over 1m slotted. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.



Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Rotary Core Log

Borehole No.

BH103

Sheet 6 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 518011 - 131785

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.37

Scale
1:20

Client: West Sussex County Council

Dates: 29/01/2021 - 29/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							20.30	37.07		End of borehole at 20.30 m	
											21
											22
											23
											24

Remarks

Hand dug pit to 1.3m followed by rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from fractures below 5.5m. Initial groundwater encountered at the base of the hand dug pit at 1.3m. On completion groundwater was recorded at 3.2m and rising to 2.2m after 30 minutes. Two monitoring wells installed to 20m and 2m, comprising 17m plain pipe over 3m of slotted pipe and 1m plain over 1m slotted. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.



Rotary Core Log

Borehole No.

BH104

Sheet 1 of 5

Project Name: Novartis

Project No.
LP2441

Co-ords: 517882 - 131721

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

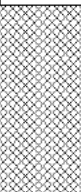
Level: 56.42

Scale
1:20

Client: West Sussex County Council

Dates: 14/01/2021 - 15/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							0.50	55.92		Reworked yellow brown silty CLAY.	
		1.20 - 1.50	D							Stiff yellow brown grey mottled silty CLAY.	1
		1.50 - 2.10	D							Hand Pen at 1.4m = 216kPa	
							1.80	54.62		Hand Pen at 1.7m = 183kPa	
		2.10 - 3.60	C							Extremely weak orangish brown grey clayey silty SANDSTONE becoming more clayey with depth.	2
							2.50	53.92		Horizontal fracture at 2.15m.	
										Horizontal fracture at 2.25m.	
										Horizontal fracture at 2.35m.	
										Vertical fracture from 2.4m to 2.5m.	
		2.10 - 3.60		100	86	55				Extremely weak brown to dark grey clayey slightly sandy SILTSTONE.	3
										Horizontal fracture at 2.70m.	
										Horizontal fracture at 2.77m.	
										Horizontal fracture at 2.90m.	
										Horizontal fracture at 2.95m.	
										Horizontal fracture at 2.99m.	
										Horizontal fracture at 3.04m.	
		3.60 - 5.10	C				3.70	52.72		Extremely weak dark grey laminated slightly sandy silty MUDSTONE.	4
										Horizontal fracture at 3.70m.	
										Continued on next sheet	

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 2.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Initial groundwater strike encountered at around 16m and rising to 13.7m 45 minutes after completion of drilling. A monitoring well installed to 16m comprising 10m plain pipe over 6m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

Rotary Core Log

Borehole No.

BH104

Sheet 2 of 5

Project Name: Novartis

Project No.
LP2441

Co-ords: 517882 - 131721

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.42

Scale
1:20

Client: West Sussex County Council

Dates: 14/01/2021 - 15/01/2021

Logged By
OA

[illegible]

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 2.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Initial groundwater strike encountered at around 16m and rising to 13.7m 45 minutes after completion of drilling. A monitoring well installed to 16m comprising 10m plain pipe over 6m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH104

Sheet 3 of 5

Project Name: Novartis

Project No.
LP2441

Co-ords: 517882 - 131721

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.42

Scale
1:20

Client: West Sussex County Council

Dates: 14/01/2021 - 15/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description			
				TCR	SCR	RQD							
		8.10 - 9.60	C				8.90	47.52			9		
		8.10 - 9.60		100	96	96				Horizontal fracture at 8.30m.			
										Horizontal fracture at 8.75m. Sub-horizontal fracture from 8.87m to 8.9m. Weak dark grey laminated clayey medium grain SANDSTONE.			
		9.60 - 11.10	C				9.85	46.57		Sub-horizontal fracture from 9.3m to 9.39m. Horizontal fracture at 9.40m. Horizontal fracture at 9.42m.	10		
		9.60 - 11.10		100	96	94				Horizontal fracture at 9.69m. Horizontal fracture at 9.84m. Weak light to dark grey laminated fine to medium grain SANDSTONE.			
										Horizontal fracture at 10.3m.			
		11.10 - 12.60	C				9.85	46.57		Horizontal fracture at 11.05m. Horizontal fracture at 11.27m.	11		
		11.10 - 12.60		95	93	86				Horizontal fracture at 11.76m. Horizontal fracture at 11.9m.			
		Continued on next sheet											12

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 2.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Initial groundwater strike encountered at around 16m and rising to 13.7m 45 minutes after completion of drilling. A monitoring well installed to 16m comprising 10m plain pipe over 6m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH104

Sheet 4 of 5

Project Name: Novartis

Project No.
LP2441

Co-ords: 517882 - 131721

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.42

Scale
1:20

Client: West Sussex County Council

Dates: 14/01/2021 - 15/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
W		12.60 - 14.10	C				12.30	44.12		Horizontal fracture at 12.13m.	
									xxxxxx	Very weak to weak dark grey clayey SILTSTONE. Horizontal fracture at 12.35m.	
		12.60 - 14.10	C				12.80	43.62	xxxxxx	Weak dark grey silty MUDSTONE.	13
									.....	Horizontal fracture at 12.97m.	
											
											
				95	94	79	13.45	42.97	.....	Horizontal fracture at 13.37m.	
		14.10 - 15.60	C						xxxxxx	Very weak to weak greenish dark grey clayey SILTSTONE.	14
									xxxxxx	Horizontal fracture at 13.8m.	
									xxxxxx	Horizontal fracture at 13.93m.	
									xxxxxx	Horizontal fracture at 14.05m.	
		14.10 - 15.60	C				14.15	42.27		Weak dark grey silty MUDSTONE.	15
											
							14.40	42.02	xxxxxx	Very weak to weak dark grey clayey SILTSTONE. Horizontal fracture at 14.4m.	
									xxxxxx		
		15.60 - 17.10	C				14.90	41.52	xxxxxx	Horizontal fracture at 14.86m. Weak dark grey silty MUDSTONE.	16
									.....	Horizontal fracture at 15.03m.	
											
											
		15.60 - 17.10	C							Horizontal fracture at 15.65m.	
									.....	Horizontal fracture at 15.8m.	
											
							15.95	40.47	.....		

Continued on next sheet

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 2.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Initial groundwater strike encountered at around 16m and rising to 13.7m 45 minutes after completion of drilling. A monitoring well installed to 16m comprising 10m plain pipe over 6m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No. _____

BH104

Sheet 5 of 5

Project Name: Novartis

Project No.
LP2441

Co-ords: 517882 - 131721

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.42

Scale
1:20

Client: West Sussex County Council

Dates: 14/01/2021 - 15/01/2021

Logged By
OA

[illegible]

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 2.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Initial groundwater strike encountered at around 16m and rising to 13.7m 45 minutes after completion of drilling. A monitoring well installed to 16m comprising 10m plain pipe over 6m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH105

Sheet 1 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517750 - 131822

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.31

Scale
1:20

Client: West Sussex County Council

Dates: 12/01/2021 - 13/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		1.20 - 2.50	D				1.95	54.36		MADE GROUND comprising greyish brown slightly silty slightly clayey sandy gravel with occasional subangular to subrounded fine to coarse flint.	1
							2.25	54.06		Reworked mottled orangish brown grey silty CLAY. <u>Hand Pen at 2.0m =116kPa</u>	2
		2.50 - 3.70	D				2.50	53.81		Reworked brown clayey SILT. <u>Hand Pen at 2.4m =153kPa</u>	
							2.70	53.61		CONCRETE comprising coarse flint.	
							2.90	53.41		Reworked clayey gravelly SILT with coarse subangular to subrounded flint.	
							3.10	53.21		Brown clayey SILT. <u>Hand Pen at 2.9m =393kPa</u>	3
							3.35	52.96		Extremely weak to very weak brown clayey SILTSTONE. <u>Horizontal fracture at 3.32m.</u> Weak brownish grey silty clayey SANDSTONE with occasional fine grain coal deposits. <u>Horizontal fracture at 3.38m.</u> <u>Horizontal fracture at 3.55m.</u>	
		3.70 - 5.20	C				3.85	52.46		Very weak grey silty MUDSTONE. <u>Horizontal fracture at 3.88m.</u>	4

Continued on next sheet

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 2.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Initial groundwater strike encountered at around 9m. Groundwater recorded at 14.9m 30 minutes after completion and rising to 12.3m after 90 minutes. A monitoring well installed to 16m comprising 10m plain pipe over 6m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

Rotary Core Log

Borehole No.

BH105

Sheet 2 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517750 - 131822

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.31

Scale
1:20

Client: West Sussex County Council

Dates: 12/01/2021 - 13/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		3.70 - 5.20		150	140	128	4.85	51.46		Horizontal fracture at 4.02m. Horizontal fracture at 4.14m. Horizontal fracture at 4.35m.	
		5.20 - 6.70	C				5.45	50.86		Very weak grey clayey SILTSTONE. Horizontal fracture at 5.02m. Sub-horizontal fracture from 5.35m to 5.40m.	5
		5.20 - 6.70		150	140	135	5.85	50.46		Weak light to dark grey fine grain SANDSTONE	
							6.00	50.31		Weak light to dark grey fine grain SANDSTONE with laminations. Very weak grey SILTSTONE. Horizontal fracture at 6.06m. Horizontal fracture at 6.18m.	6
		6.70 - 8.20	C				6.40	49.91		Weak light to dark grey fine grain SANDSTONE with laminations. Horizontal fracture at 6.41m. Horizontal fracture at 6.58m.	
							6.90	49.41		Vertical fracture from 6.75m to 6.8m. Horizontal fracture at 6.80m.	
		6.70 - 8.20		150	133	113				Very weak locally mottled grey brown finely interbedded SILTSTONE and MUDSTONE. Horizontal fracture at 6.90m.	7
										Horizontal fracture at 7.30m.	
							7.90	48.41		Very weak greyish brown SILTSTONE.	8

Continued on next sheet

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 2.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Initial groundwater strike encountered at around 9m. Groundwater recorded at 14.9m 30 minutes after completion and rising to 12.3m after 90 minutes. A monitoring well installed to 16m comprising 10m plain pipe over 6m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH105

Sheet 3 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517750 - 131822

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

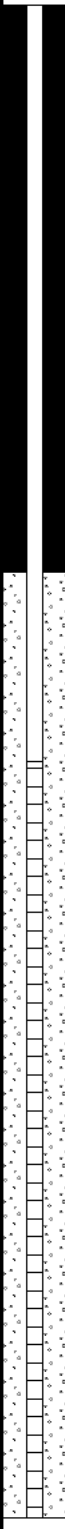
Level: 56.31

Scale
1:20

Client: West Sussex County Council

Dates: 12/01/2021 - 13/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		0.20 - 0.70	C				8.10	48.21	Horizontal fracture at 7.90m.		
							8.20	48.11	Horizontal fracture at 8.07m.		
									Weak greyish brown sandy SILTSTONE.		
									Horizontal fracture at 8.10m.		
									Very weak brownish dark grey SILTSTONE.		
									Horizontal fracture at 8.30m.		
							8.65	47.66	Horizontal fracture at 8.60m.		
									Weak strong dark grey silty MUDSTONE.		
		8.20 - 9.70		150	150	145	9.05	47.26	Very weak brownish dark grey SILTSTONE.		9
							9.45	46.86	Very weak dark grey laminated coarse grained SANDSTONE with 1-3mm coal beds.		
							9.60	46.71	Very weak dark grey clayey SILTSTONE.		
		9.70 - 11.20	C				9.70	46.61	Horizontal fracture at 9.60m.		
									Dark grey laminated coarse grained SANDSTONE with 1-3mm coal beds.		
									Horizontal fracture at 9.83m.		
									Horizontal fracture at 10.12m.		
									Horizontal fracture at 10.2m.		
		9.70 - 11.20		150	145	100			Horizontal fracture at 10.35m.		
							10.55	45.76	Vertical fracture from 10.45m to 10.6m.		
									Very weak dark grey clayey SILTSTONE.		
							10.70	45.61	Dark grey laminated coarse grained SANDSTONE.		
							10.80	45.51	Horizontal fracture at 10.73m.		
							10.90	45.41	Very weak dark grey clayey SILTSTONE.		
		11.20 - 12.70	C						Weak to moderately strong yellowish brown grey laminated clayey medium to fine grained SANDSTONE.		11
									Horizontal fracture at 11.1m.		
		11.20 - 12.70		145	130	120					

Continued on next sheet

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 2.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Initial groundwater strike encountered at around 9m. Groundwater recorded at 14.9m 30 minutes after completion and rising to 12.3m after 90 minutes. A monitoring well installed to 16m comprising 10m plain pipe over 6m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH105

Sheet 4 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517750 - 131822

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.31

Scale
1:20

Client: West Sussex County Council

Dates: 12/01/2021 - 13/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
W		12.70 - 14.20	C							Horizontal fracture at 11.98m. Horizontal fracture at 12.1m. Horizontal fracture at 12.45m. Horizontal fracture at 12.95m. Horizontal and vertical fracture zone present from 13.02 to 13.32.	13
		12.70 - 14.20		144	140	102	13.30 13.40	43.01 42.91		Weak to moderately strong dark grey finely laminated clayey silty SANDSTONE. Horizontal fracture at 13.3m. Very weak to weak dark grey clayey SILTSTONE.	
							13.70	42.61		Weak dark grey laminated clayey silty fine grained SANDSTONE. Horizontal fracture at 13.7m.	14
		14.20 - 15.70	C				14.35	41.96		Horizontal fracture at 14.13m. Very weak to weak light to dark grey slightly sandy clayey SILTSTONE. Horizontal fracture at 14.39m. Horizontal fracture at 14.48m.	
		14.20 - 15.70		147	145	130	14.65	41.66		Very weak to weak greenish dark grey SILTSTONE. Horizontal fracture at 14.7m. Horizontal fracture at 14.87m.	15
							15.40	40.91		Horizontal fracture at 15.01m. Horizontal fracture at 15.3m. Very weak to weak dark grey clayey SILTSTONE.	
		15.70 - 17.20	C				15.85	40.46		Horizontal fracture at 15.63m. Horizontal fracture at 15.79m. Weak dark grey silty MUDSTONE.	16

Continued on next sheet

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 2.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Initial groundwater strike encountered at around 9m. Groundwater recorded at 14.9m 30 minutes after completion and rising to 12.3m after 90 minutes. A monitoring well installed to 16m comprising 10m plain pipe over 6m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS



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The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Rotary Core Log

Borehole No.

BH105

Sheet 5 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517750 - 131822

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

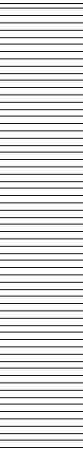
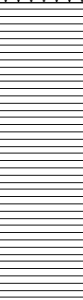
Level: 56.31

Scale
1:20

Client: West Sussex County Council

Dates: 12/01/2021 - 13/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		15.70 - 17.20	C	150	148	140	17.20	39.11			17 -
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70		140	135	126	17.90	38.41		Weak light to dark grey laminated clayey medium to fine grain SANDSTONE. <u>Horizontal fracture at 17.68m.</u> <u>Horizontal fracture at 17.8m.</u>	18 -
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70									
		17.20 - 18.70		140	135	126	18.70	37.61		Weak slightly fine grained sandy silty MUDSTONE. <u>Horizontal fracture at 18.05m.</u> <	



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Rotary Core Log

Borehole No.

BH105

Sheet 6 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517750 - 131822

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 56.31

Scale
1:20

Client: West Sussex County Council

Dates: 12/01/2021 - 13/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
							20.10	36.21	xxxxxx xxxxxx xxxxxx		
										----- End of borehole at 20.20 m	
											21
											22
											23
											24

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 2.5m and rotary coring to full depth. Drilled in 146mm diameter casing with flush used during rotary coring. Initial groundwater strike encountered at around 9m. Groundwater recorded at 14.9m 30 minutes after completion and rising to 12.3m after 90 minutes. A monitoring well installed to 16m comprising 10m plain pipe over 6m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.



Rotary Core Log

Borehole No.

BH106

Sheet 1 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517813 - 131852

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

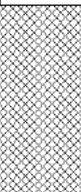
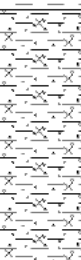
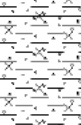
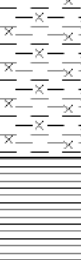
Level: 57.56

Scale
1:20

Client: West Sussex County Council

Dates: 11/01/2021 - 12/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		0.20	ES				0.50	57.06		Compacted crushed brick/concrete MADE GROUND with gravel of flint and fragments of scrap metal.	
		0.95	ES							Grey mottled reworked CLAY.	1
		1.20 - 1.90	D				1.20	56.36		Firm to stiff mottled grey yellowish brown slightly gravelly silty CLAY, gravel is subangular to sub rounded fine flint. <u>Hand Pen at 1.55m =>220kPa</u> <u>Hand Pen at 1.65m =>340kPa</u> <u>Laminations present between 1.7m to 1.9m.</u>	
		1.90 - 2.20	D				1.90	55.66		<u>Hand Pen at 1.85m =>600kPa</u> Stiff mottled grey yellowish brown silty slightly gravelly CLAY. Gravel is fine to medium flint. <u>Hand Pen at 1.9m =>600kPa</u>	2
		2.20 - 3.70	C				2.20	55.36		Stiff yellowish brown silty CLAY. <u>Hand Pen at 2.3m =>600kPa</u> <u>Becomes black? At 2.9m.</u> <u>Horizontal fracture at 3.3m.</u> <u>Horizontal fracture zone from 3.34m to 3.39m.</u>	3
		3.70 - 5.20	C				3.70	53.86		Very weak grey silty MUDSTONE. <u>Horizontal fracture at 3.94m.</u>	4

Continued on next sheet

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.9m and rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from subvertical fractures below 14m. Initial groundwater strike encountered at around 19m and rising to 16.2m 30 minutes after completion of drilling. A monitoring well installed to 20.3m comprising 11.3m plain pipe over 9m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

Rotary Core Log

Borehole No.

BH106

Sheet 2 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517813 - 131852

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.56

Scale
1:20

Client: West Sussex County Council

Dates: 11/01/2021 - 12/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		3.70 - 5.20		91	82	57				<u>Horizontal fracture at 4.03m.</u> <u>Horizontal fracture at 4.05m.</u> <u>Horizontal fracture at 4.09m.</u> <u>Horizontal fracture at 4.15m.</u> <u>Horizontal fracture at 4.23m.</u> <u>Horizontal fracture at 4.37m.</u>	
		5.20 - 6.70	C				5.20	52.36		<u>Sub-horizontal fracture from 4.95m to 4.99m.</u> <u>Sub-horizontal fracture from 5.01m to 5.04m.</u> Very weak to weak grey silty MUDSTONE. <u>Horizontal fracture at 5.3m.</u> <u>Horizontal fracture at 5.5m.</u> <u>Sub-horizontal fracture at 5.6m.</u> <u>Horizontal fracture at 5.7m.</u> <u>Horizontal fracture at 5.8m.</u> <u>Horizontal fracture at 6.0m.</u> <u>Horizontal fracture at 6.3m.</u>	5
		5.20 - 6.70		100	82	87		6.40	51.16		6
		6.70 - 8.20	C							Very weak silty fine gravelly laminated/bedded SANDSTONE. <u>Horizontal fracture at 6.87m.</u>	
		6.70 - 8.20		100	95	96	6.90	50.66		Extremely weak to very weak silty slightly sandy MUDSTONE. <u>Horizontal fracture at 7.34m.</u> <u>Horizontal fracture at 7.81m.</u>	7
										Continued on next sheet	8

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.9m and rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from subvertical fractures below 14m. Initial groundwater strike encountered at around 19m and rising to 16.2m 30 minutes after completion of drilling. A monitoring well installed to 20.3m comprising 11.3m plain pipe over 9m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.



Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Rotary Core Log

Borehole No.

BH106

Sheet 3 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517813 - 131852

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.56

Scale
1:20

Client: West Sussex County Council

Dates: 11/01/2021 - 12/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description													
				TCR	SCR	RQD																	
		8.20 - 9.70	C				9.50	48.06		Horizontal fracture at 9.15m.	9												
		8.20 - 9.70		100	99	99																	
		9.70 - 11.20	C						9.70 - 11.20			100	94	94	Weak grey SANDSTONE. Sand is medium to coarse grained. Horizontal fracture at 9.5m. Coal seam between 10.01 to 10.04m. Horizontal fracture at 10.07m Horizontal fracture at 10.29m.	10							
		9.70 - 11.20																					
		11.20 - 12.70	C														11.20	46.36		Horizontal fracture at 11.10m. Very weak dark grey slightly sandy SILTSTONE.	11		
		11.20 - 12.70		98	98	92													11.40			46.16	Weak yellowish grey SANDSTONE. Horizontal fracture at 11.43m.
		Continued on next sheet															12						

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.9m and rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from subvertical fractures below 14m. Initial groundwater strike encountered at around 19m and rising to 16.2m 30 minutes after completion of drilling. A monitoring well installed to 20.3m comprising 11.3m plain pipe over 9m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS

Rotary Core Log

Borehole No.

BH106

Sheet 4 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517813 - 131852

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.56

Scale
1:20

Client: West Sussex County Council

Dates: 11/01/2021 - 12/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
		12.70 - 14.20	C							Horizontal fracture at 12.45m. Horizontal fracture at 12.53m.	
		12.70 - 14.20		88	84	80				Horizontal fracture at 13.28m.	13
		14.20 - 15.70	C				14.20	43.36		Horizontal fracture at 13.84m.	
		14.20 - 15.70		96	96	96	14.55	43.01		Horizontal fracture at 14.12m.	14
		14.20 - 15.70							XXXXXX	Very weak grey SILTSTONE.	
		15.70 - 17.20	C						XXXXXX	Weak grey silty SANDSTONE.	
		15.70 - 17.20					15.30	42.26		Horizontal fracture at 14.6m.	
		15.70 - 17.20								Horizontal fracture at 14.8m.	15
		15.70 - 17.20								Horizontal fracture at 15.1m.	
		15.70 - 17.20							XXXXXX	Very weak grey sandy SILTSTONE.	
		15.70 - 17.20							XXXXXX	Horizontal fracture at 15.4m.	
		15.70 - 17.20							XXXXXX		16

Continued on next sheet

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.9m and rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from subvertical fractures below 14m. Initial groundwater strike encountered at around 19m and rising to 16.2m 30 minutes after completion of drilling. A monitoring well installed to 20.3m comprising 11.3m plain pipe over 9m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

Rotary Core Log

Borehole No.

BH106

Sheet 5 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517813 - 131852

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.56

Scale
1:20

Client: West Sussex County Council

Dates: 11/01/2021 - 12/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / FI	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
Well 1	 	15.70 - 17.20	C	100	90	90	16.30	41.26		Weak to moderately strong grey silty fractured SANDSTONE.	
		17.20 - 18.70		96	94	44					
		18.70 - 20.10	C	96	92	72	19.10	38.46		Weak grey sandy SILTSTONE.	
		19.60									37.96
		Continued on next sheet									

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.9m and rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from subvertical fractures below 14m. Initial groundwater strike encountered at around 19m and rising to 16.2m 30 minutes after completion of drilling. A monitoring well installed to 20.3m comprising 11.3m plain pipe over 9m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.

AGS



Leap Environmental Ltd
The Atrium, Curtis Road
Dorking, Surrey RH4 1XA
Tel: 01306 646510
www.leapenvironmental.com

Rotary Core Log

Borehole No.

BH106

Sheet 6 of 6

Project Name: Novartis

Project No.
LP2441

Co-ords: 517813 - 131852

Hole Type
RC

Location: Parsonage Road, Horsham, RH12 4AN

Level: 57.56

Scale
1:20

Client: West Sussex County Council

Dates: 11/01/2021 - 12/01/2021

Logged By
OA

Well	Water Strikes	Depth (m)	Type / Fl	Coring			Depth (m)	Level (m)	Legend	Stratum Description	
				TCR	SCR	RQD					
											
							20.30	37.26			
										End of borehole at 20.30 m	
											21
											22
											23
											24

Remarks

Hand dug pit to 1.2m followed by dynamic sampling to 1.9m and rotary coring to full depth. Drilled in 146mm diameter casing. Drilling flush used during rotary coring encountered loss from subvertical fractures below 14m. Initial groundwater strike encountered at around 19m and rising to 16.2m 30 minutes after completion of drilling. A monitoring well installed to 20.3m comprising 11.3m plain pipe over 9m of slotted pipe. The installation was completed with a steel raised cover. SPT hammer energy ratio 81%.



Dynamic Cone CBR Test

[illegible]

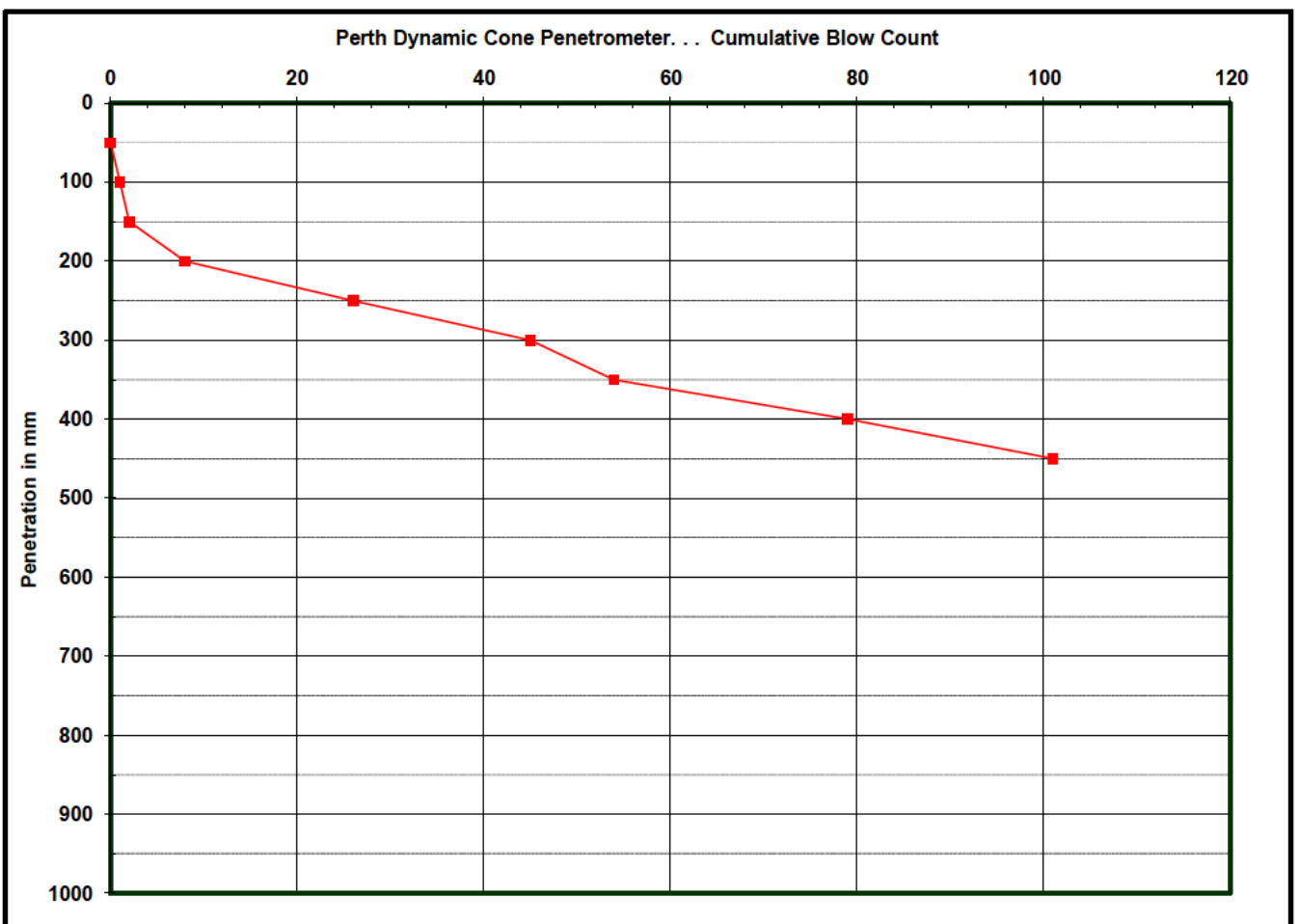
Novartis, Horsham Test Reference: - DCPI

Job Nr LP244I
0

Date 23-Feb-21

CBR VALUE CALCULATIONS

Initial S	Final S	Initial S	Final S	Pen/Blow	CBR	CBR	CBR
Pen mm	Pen mm	Blows	Blows	mm	TRRL	KVH	Value (%)
50	150	0	2	50.0	4.8	2.9	2.9
150	450	2	79	3.9	71.7	75.2	71.7
450	500	79	101	2.3	126.8	149.8	126.8



Tested by	OA	Checked		Approved	
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Site: Novartis, Horsham

Client: West Sussex County Council

Date: 23/02/2021

Job No: LP2441

Test No: DCPI

Dynamic Cone CBR Test

Nr Blows	S Blows	Penetration mm	S Pen. mm
0	0	50	50
1	1	50	100
0	1	50	150
1	2	50	200
0	2	50	250
1	3	50	300
0	3	50	350
1	4	50	400
1	5	50	450
2	7	50	500
3	10	50	550
3	13	50	600
4	17	50	650
4	21	50	700
4	25	50	750
3	28	50	800
2	30	50	850
1	31	50	900

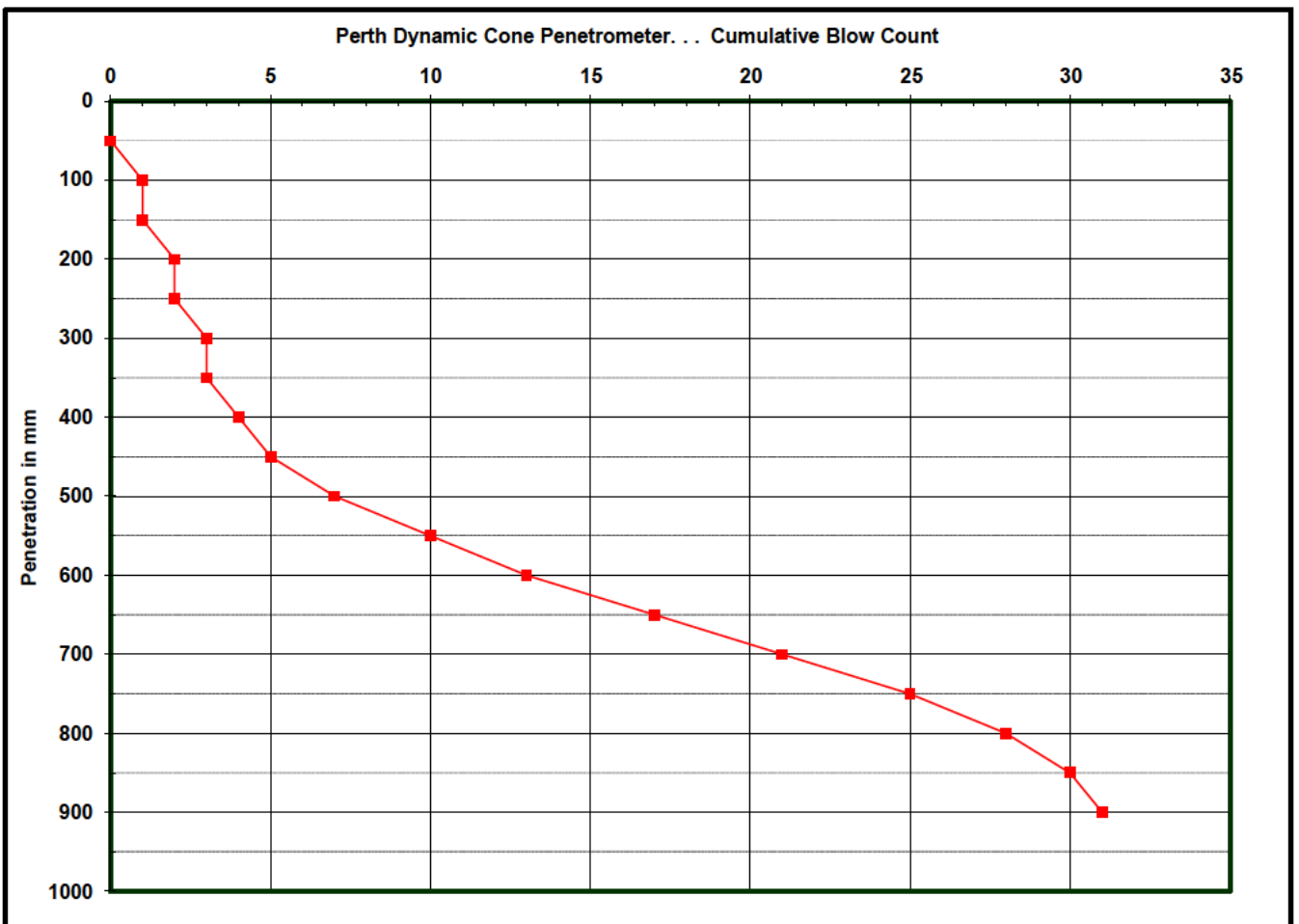
Novartis, Horsham Test Reference: - DCP2

Job Nr LP2441
0

Date 23-Feb-21

CBR VALUE CALCULATIONS

Initial S Pen mm	Final S Pen mm	Initial S Blows	Final S Blows	Pen/Blow mm	CBR TRRL	CBR KVH	CBR Value (%)
50	350	0	3	100.0	2.3	1.2	1.2
350	450	3	5	50.0	4.8	2.9	2.9
450	800	5	28	15.2	17.0	13.1	13.1
800	900	28	31	33.3	7.4	4.8	4.8



Tested by	OA	Checked		Approved	
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Site: Novartis, Horsham

Client: West Sussex County Council

Date: 23/02/2021

Job No: LP2441

Test No: DCP2

Dynamic Cone CBR Test

Nr Blows	S Blows	Penetration mm	S Pen. mm
0	0	50	50
0	0	50	100
0	0	50	150
0	0	50	200
0	0	50	250
1	1	50	300
0	1	50	350
1	2	50	400
1	3	50	450
2	5	50	500
1	6	50	550
1	7	50	600
2	9	50	650
4	13	50	700
3	16	50	750
3	19	50	800
3	22	50	850
3	25	50	900

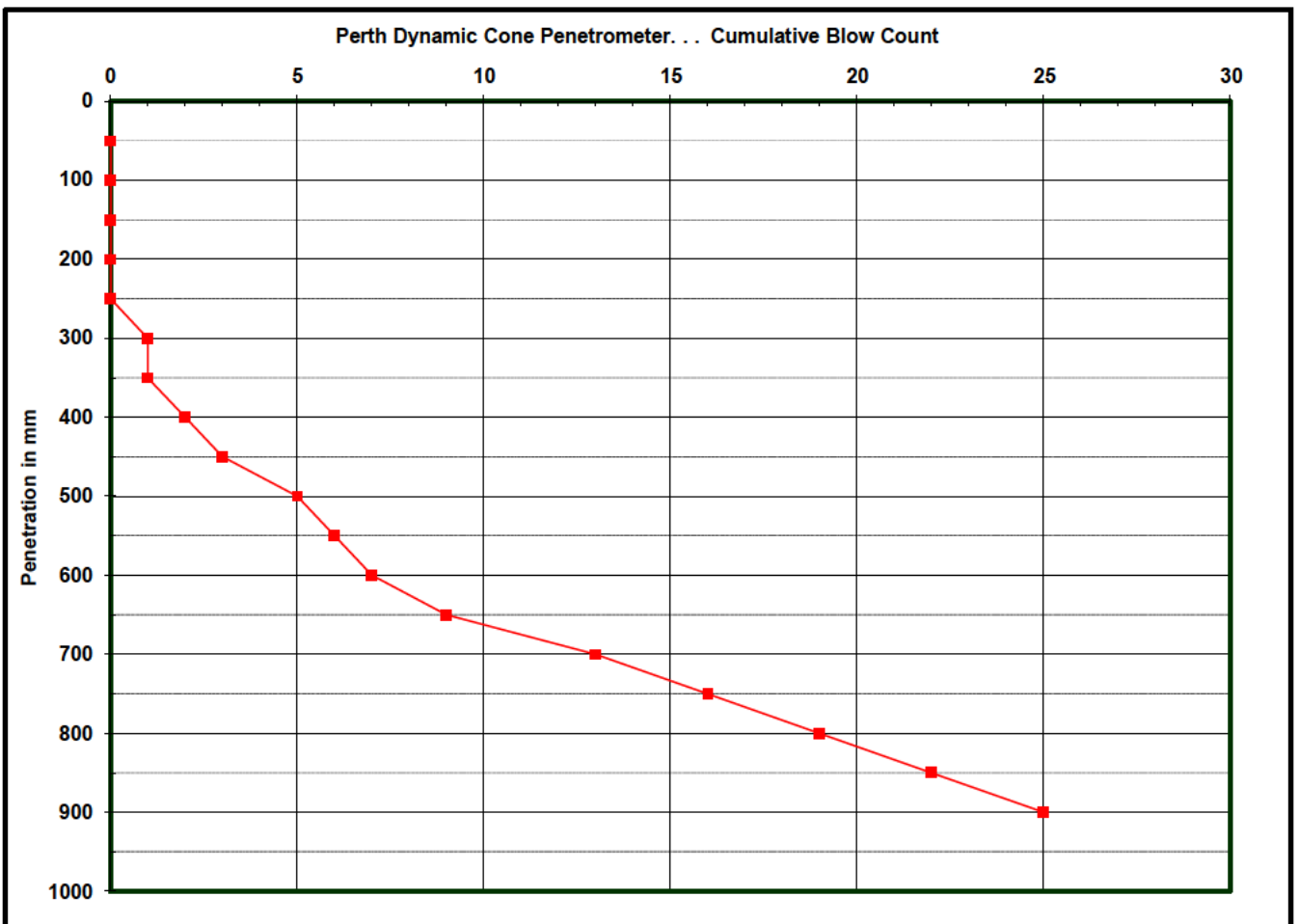
Novartis, Horsham Test Reference: - DCP3

Job Nr LP2441
0

Date 23-Feb-21

CBR VALUE CALCULATIONS

Initial S Pen mm	Final S Pen mm	Initial S Blows	Final S Blows	Pen/Blow mm	CBR TRRL	CBR KVH	CBR Value (%)
0	300	0	1	300.0	0.7	0.3	0.3
300	500	1	6	40.0	6.1	3.8	3.8
500	650	6	9	50.0	4.8	2.9	2.9
650	900	9	25	15.6	16.5	12.7	12.7



Tested by	OA	Checked		Approved	
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Site: Novartis, Horsham

Client: West Sussex County Council

Date: 23/02/2021

Job No: LP2441

Test No: DCP3

Dynamic Cone CBR Test

Nr Blows	S Blows	Penetration mm	S Pen. mm
0	0	50	50
1	1	50	100
1	2	50	150
0	2	50	200
1	3	50	250
1	4	50	300
2	6	50	350
2	8	50	400
2	10	50	450
2	12	50	500
3	15	50	550
4	19	50	600
4	23	50	650
4	27	50	700
2	29	50	750
2	31	50	800
2	33	50	850
3	36	50	900

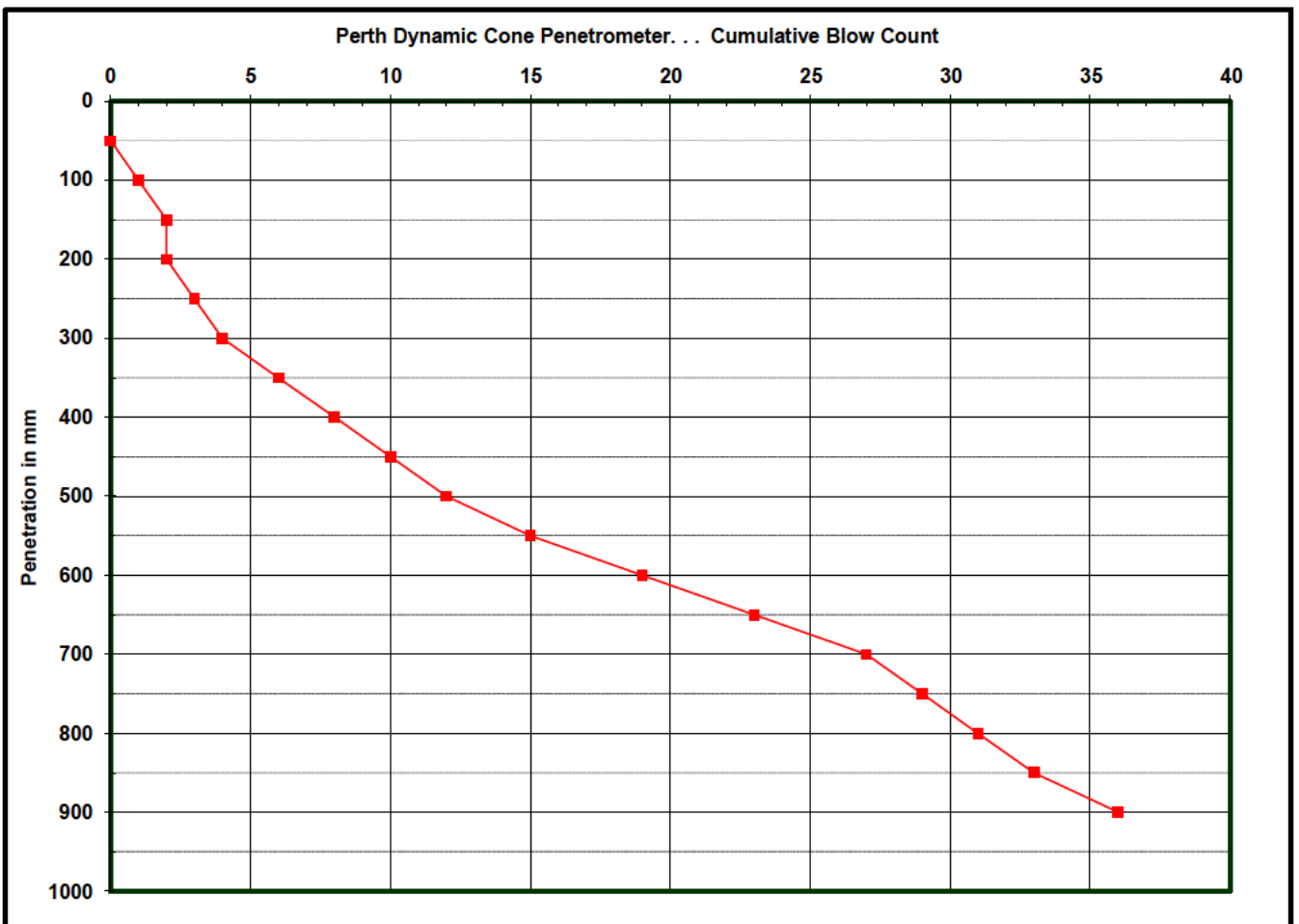
Novartis, Horsham Test Reference: - DCP4

Job Nr LP2441
0

Date 23-Feb-21

CBR VALUE CALCULATIONS

Initial S Pen mm	Final S Pen mm	Initial S Blows	Final S Blows	Pen/Blow mm	CBR TRRL	CBR KVH	CBR Value (%)
0	200	0	2	100.0	2.3	1.2	1.2
200	700	2	27	20.0	12.7	9.3	9.3
700	900	27	36	22.2	11.4	8.1	8.1



Tested by	OA	Checked	Approved
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Site: Novartis, Horsham

Client: West Sussex County Council

Date: 23/02/2021

Job No: LP2441

Test No: DCP4

Dynamic Cone CBR Test

Nr Blows	S Blows	Penetration mm	S Pen. mm
0	0	50	50
1	1	50	100
0	1	50	150
1	2	50	200
1	3	50	250
1	4	50	300
2	6	50	350
2	8	50	400
2	10	50	450
2	12	50	500
3	15	50	550
3	18	50	600
3	21	50	650
3	24	50	700
3	27	50	750
4	31	50	800
3	34	50	850
3	37	50	900

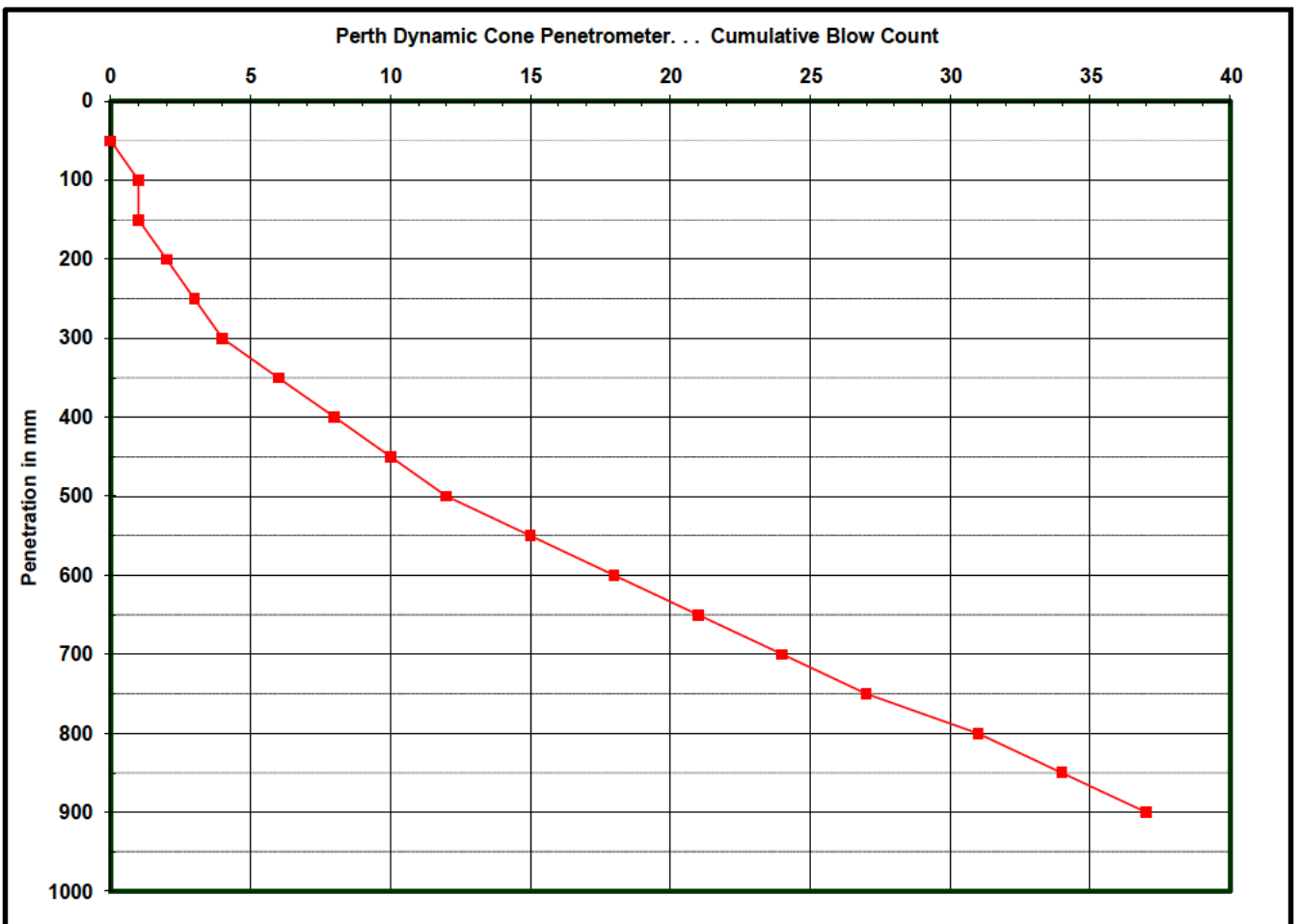
Novartis, Horsham Test Reference: - DCP5

Job Nr LP2441
0

Date 23-Feb-21

CBR VALUE CALCULATIONS

Initial S Pen mm	Final S Pen mm	Initial S Blows	Final S Blows	Pen/Blow mm	CBR TRRL	CBR KVH	CBR Value (%)
0	150	0	1	150.0	1.5	0.7	0.7
150	300	1	4	50.0	4.8	2.9	2.9
300	500	4	12	25.0	10.1	7.0	7.0
500	900	12	37	16.0	16.1	12.3	12.3



Tested by	OA	Checked		Approved	
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Site: Novartis, Horsham

Client: West Sussex County Council

Date: 23/02/2021

Job No: LP2441

Test No: DCP5

Dynamic Cone CBR Test

Nr Blows	S Blows	Penetration mm	S Pen. mm
0	0	50	50
0	0	50	100
0	0	50	150
0	0	50	200
1	1	50	250
1	2	50	300
1	3	50	350
1	4	50	400
2	6	50	450
1	7	50	500
1	8	50	550
2	10	50	600
2	12	50	650
2	14	50	700
2	16	50	750
3	19	50	800
3	22	50	850
3	25	50	900

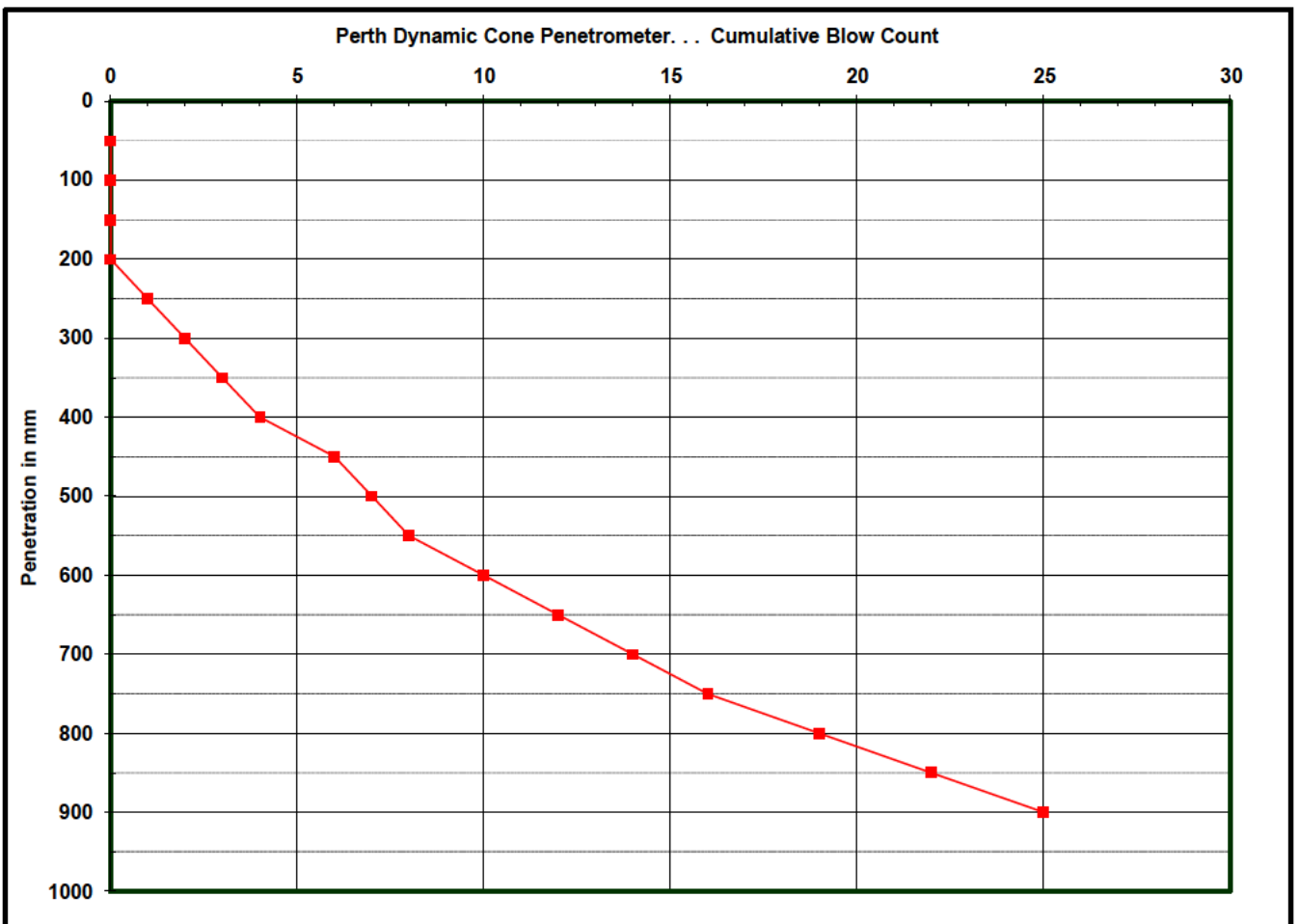
Novartis, Horsham Test Reference: - DCP6

Job Nr LP2441
0

Date 23-Feb-21

CBR VALUE CALCULATIONS

Initial S Pen mm	Final S Pen mm	Initial S Blows	Final S Blows	Pen/Blow mm	CBR TRRL	CBR KVH	CBR Value (%)
0	250	0	1	250.0	0.9	0.4	0.4
250	400	1	4	50.0	4.8	2.9	2.9
400	450	4	6	25.0	10.1	7.0	7.0
450	550	6	8	50.0	4.8	2.9	2.9
550	900	8	25	20.6	12.3	8.9	8.9



Tested by	OA	Checked		Approved	
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Site: Novartis, Horsham

Client: West Sussex County Council

Date: 23/02/2021

Job No: LP2441

Test No: DCP6

APPENDIX F – Laboratory Test Certificates

Laboratory Test
Certificates



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-33992

Issue: 2. Replaces Analytical Report number 21-33992; issue no.1

Date of Issue: 07/06/2021

Contact: Oscar Amelianczyk

Customer Details: Leap Environmental Ltd
Book House
Glebelands Centre
Dorking
Surrey RH4 3HW

Quotation No: Q14-00063

Order No: LPO-3859

Customer Reference: LP2575

Date Received: 27/05/2021

Date Approved: 07/06/2021

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-33992, issue number 2

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
238974	TT201 0.70	25/05/2021	28/05/2021	Loamy sand + stones	
238975	TT202B 0.80	25/05/2021	28/05/2021	Sand + stones	
238976	TT203 1.50	25/05/2021	28/05/2021	Sand + stones	
238977	TT207 1.00	25/05/2021	28/05/2021	Sand + stones	
238978	TT208 0.50	25/05/2021	28/05/2021	Loamy sand	
238979	TT206 0.75	25/05/2021	28/05/2021	Sand + stones	
238980	TT205 1.10	25/05/2021	28/05/2021	Sandy loam	
238981	TP201 1.50	25/05/2021	28/05/2021	Sand + stones	
238982	TT213 1.50	25/05/2021	28/05/2021	Sandy loam	
238983	TT204 1.00	26/05/2021	28/05/2021	Loamy sand + stones	
238984	TP204 2.80	26/05/2021	28/05/2021	Sand + stones	
238985	TP203 1.40	26/05/2021	28/05/2021	Sand + stones	
238986	TT214 0.40	26/05/2021	28/05/2021	Sand + stones	
238987	TT212 1.40	26/05/2021	28/05/2021	Sand + stones	
238988	TP202 0.80	26/05/2021	28/05/2021	Stones	
238989	TT210 1.40	26/05/2021	28/05/2021	Loamy sand	
238990	TT209 1.20	26/05/2021	28/05/2021	Sand + stones	
238991	TT211 1.80	26/05/2021	28/05/2021	Sand + stones	
238992	LWS6 1.80	26/05/2021	28/05/2021		
238993	LWS3 1.80	26/05/2021	28/05/2021		
238994	LWS4 1.80	26/05/2021	28/05/2021		
238995	LWS5 1.80	26/05/2021	28/05/2021		
238996	LWS1 1.80	26/05/2021	28/05/2021		
238997	LWS7 1.80	26/05/2021	28/05/2021		



Results Summary

2683

Report No.: 21-33992, issue number 2

ELAB Reference	238974	238975	238976	238977	238978
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TT201	TT202B	TT203	TT207	TT208
Sample Depth (m)	0.70	0.80	1.50	1.00	0.50
Sampling Date	25/05/2021	25/05/2021	25/05/2021	25/05/2021	25/05/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	n/t	n/t	n/t	n/t	n/t
Description of Inert material removed	N		0	n/t	n/t	n/t	n/t	n/t
Metals								
Arsenic	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	n/t	n/t	n/t	n/t	n/t
Chromium	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Copper	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Lead	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	n/t	n/t	n/t	n/t	n/t
Nickel	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Selenium	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Zinc	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	n/t	n/t	n/t
Miscellaneous								
pH	M	pH units	0.1	n/t	n/t	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t	n/t	n/t
Phenols								
Phenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
M,P-Cresol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
O-Cresol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
3,4-Dimethylphenol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
2,3-Dimethylphenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
2,3,5-trimethylphenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total Monohydric Phenols	N	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t	n/t	n/t



Results Summary

2683

Report No.: 21-33992, issue number 2

ELAB Reference				238974	238975	238976	238977	238978
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TT201	TT202B	TT203	TT207	TT208
Sample Depth (m)				0.70	0.80	1.50	1.00	0.50
Sampling Date				25/05/2021	25/05/2021	25/05/2021	25/05/2021	25/05/2021
Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	< 10.0
Toluene	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	< 10.0
Xylenes	M	ug/kg	10	^ < 10.0	^ < 10.0	^ < 10.0	^ < 10.0	< 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	1.2
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	1.2

Results Summary

Report No.: 21-33992, issue number 2

ELAB Reference	238979	238980	238981	238982	238983
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TT206	TT205	TP201	TT213	TT204
Sample Depth (m)	0.75	1.10	1.50	1.50	1.00
Sampling Date	25/05/2021	25/05/2021	25/05/2021	25/05/2021	26/05/2021

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	n/t	46.0	n/t	n/t	n/t
Description of Inert material removed	N		0	n/t	Stones	n/t	n/t	n/t
Metals								
Arsenic	M	mg/kg	1	n/t	7.4	n/t	n/t	n/t
Cadmium	M	mg/kg	0.5	n/t	< 0.5	n/t	n/t	n/t
Chromium	M	mg/kg	5	n/t	30.1	n/t	n/t	n/t
Copper	M	mg/kg	5	n/t	116	n/t	n/t	n/t
Lead	M	mg/kg	5	n/t	92.2	n/t	n/t	n/t
Mercury	M	mg/kg	0.5	n/t	< 0.5	n/t	n/t	n/t
Nickel	M	mg/kg	5	n/t	20.0	n/t	n/t	n/t
Selenium	M	mg/kg	1	n/t	< 1.0	n/t	n/t	n/t
Zinc	M	mg/kg	5	n/t	140	n/t	n/t	n/t
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	n/t	< 0.8	n/t	n/t	n/t
Miscellaneous								
pH	M	pH units	0.1	n/t	9.2	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	1.4	n/t	n/t	n/t
Phenols								
Phenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
M,P-Cresol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
O-Cresol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
3,4-Dimethylphenol	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
2,3-Dimethylphenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
2,3,5-trimethylphenol	M	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total Monohydric Phenols	N	mg/kg	5	n/t	n/t	n/t	n/t	n/t
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	< 0.1	n/t	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	< 0.4	n/t	n/t	n/t

Results Summary

2683

Report No.: 21-33992, issue number 2

ELAB Reference	238979	238980	238981	238982	238983
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TT206	TT205	TP201	TT213	TT204
Sample Depth (m)	0.75	1.10	1.50	1.50	1.00
Sampling Date	25/05/2021	25/05/2021	25/05/2021	25/05/2021	26/05/2021

Determinand	Codes	Units	LOD					
BTEX								
Benzene	M	ug/kg	10	^ < 10.0	< 10.0	^ < 10.0	< 10.0	^ < 10.0
Toluene	M	ug/kg	10	^ < 10.0	< 10.0	^ < 10.0	< 10.0	^ < 10.0
Ethylbenzene	M	ug/kg	10	^ < 10.0	< 10.0	^ < 10.0	< 10.0	^ < 10.0
Xylenes	M	ug/kg	10	^ < 10.0	< 10.0	^ < 10.0	< 10.0	^ < 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	1.3	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	9.5	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	6.8	< 1.0	9.2	115	8.4
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	2.5	76.7	1.4
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	2.1	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	12.9	4.8
>C21-C35 Aromatic	N	mg/kg	1	1.7	< 1.0	12.2	153	25.8
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	< 1.0	8.2	94.1	3.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	8.5	< 1.0	32.1	465	43.4

Results Summary

Report No.: 21-33992, issue number 2

ELAB Reference				238984	238985	238986	238987	238988
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP204	TP203	TT214	TT212	TP202
Sample Depth (m)				2.80	1.40	0.40	1.40	0.80
Sampling Date				26/05/2021	26/05/2021	26/05/2021	26/05/2021	26/05/2021
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	n/t	n/t	n/t	n/t	n/a
Description of Inert material removed	N		0	n/t	n/t	n/t	n/t	n/a
Metals								
Arsenic	M	mg/kg	1	n/t	n/t	n/t	n/t	^ 3.8
Cadmium	M	mg/kg	0.5	n/t	n/t	n/t	n/t	^ < 0.5
Chromium	M	mg/kg	5	n/t	n/t	n/t	n/t	^ 57.1
Copper	M	mg/kg	5	n/t	n/t	n/t	n/t	^ 25.6
Lead	M	mg/kg	5	n/t	n/t	n/t	n/t	^ 15.2
Mercury	M	mg/kg	0.5	n/t	n/t	n/t	n/t	^ < 0.5
Nickel	M	mg/kg	5	n/t	n/t	n/t	n/t	^ 41.2
Selenium	M	mg/kg	1	n/t	n/t	n/t	n/t	^ < 1.0
Zinc	M	mg/kg	5	n/t	n/t	n/t	n/t	^ 193
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	n/t	n/t	< 0.8
Miscellaneous								
pH	M	pH units	0.1	n/t	n/t	n/t	n/t	^ 8.9
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t	n/t	0.20
Phenols								
Phenol	M	mg/kg	1	^ < 1	^ < 1	n/t	n/t	n/t
M,P-Cresol	N	mg/kg	1	< 1	< 1	n/t	n/t	n/t
O-Cresol	N	mg/kg	1	< 1	< 1	n/t	n/t	n/t
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	n/t	n/t	n/t
2,3-Dimethylphenol	M	mg/kg	1	^ < 1	^ < 1	n/t	n/t	n/t
2,3,5-trimethylphenol	M	mg/kg	1	^ < 1	^ < 1	n/t	n/t	n/t
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	n/t	n/t	n/t
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Acenaphthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ 0.1
Fluorene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t	n/t	^ < 0.1
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t	n/t	^ < 0.4