

Project information

Job Number
RS100215

Surveyed by
Ricky Smith

Base Unit
E1CPYKDBWI

Date:
09/02/2015

Client Details:

Chris Taylor
As Site

Site Details:

23a Ravenshaw Street
London
NW6 1NP

Contractor Details:

206 Hutton Road
Shenfield
Essex, CM15 8NR

Notes:



149 Fulgore Road
Aylesbury
Buckinghamshire
HP11 3 9JZ
Phone 01296 315769
Fax 01296 418766
Mobile 01753 45327

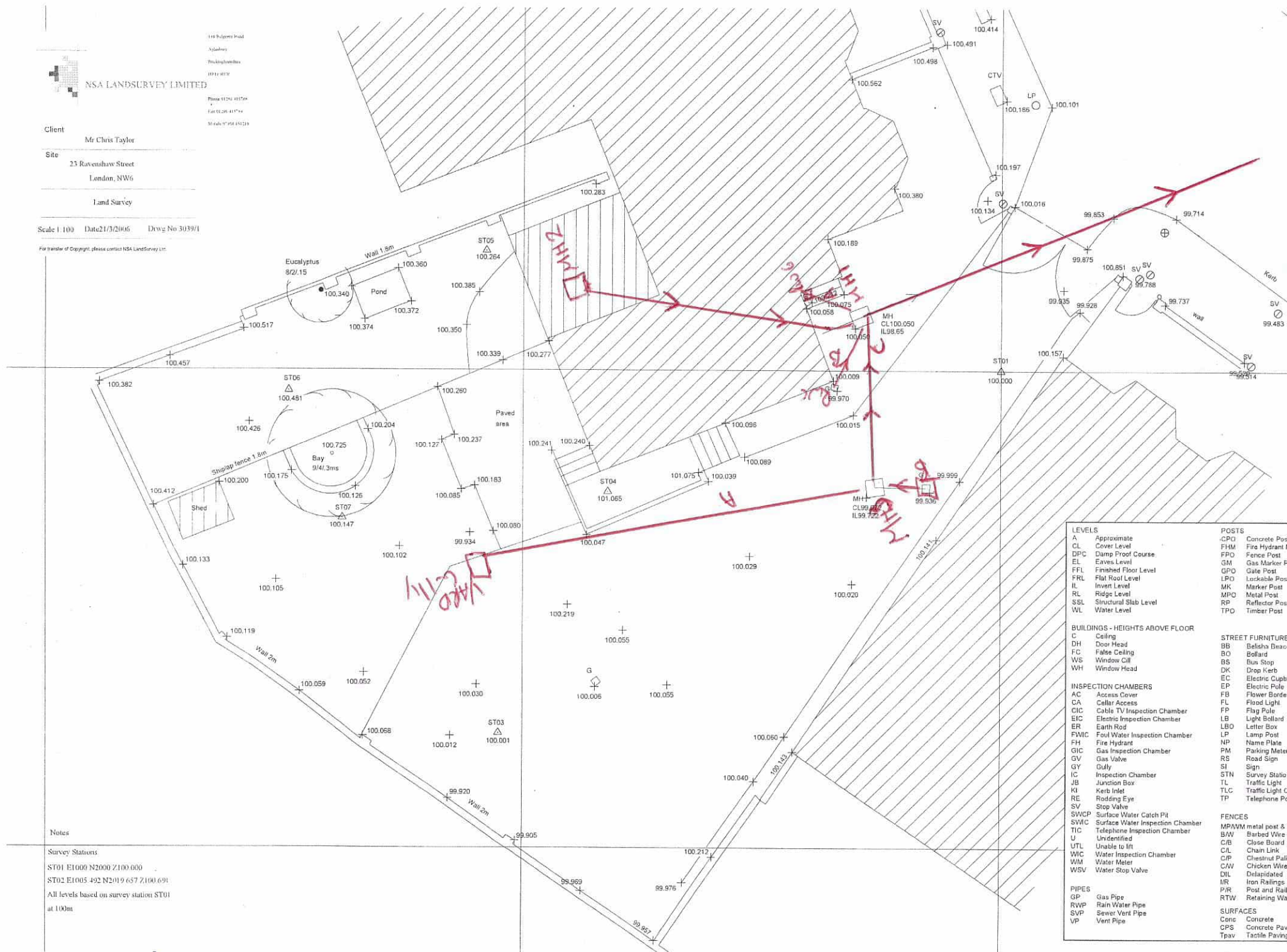
Client Mr Chris Taylor

Site
23 Ravenshaw Street
London, NW6

Land Survey

Scale 1:100 Date 21/3/2006 Drwg No 3039/1

For transfer of Copyright, please contact NSA LandSurvey Ltd



Notes

Survey Stations

ST01 E1000 N2000 Z100.000
ST02 E1005.492 N2019.657 Z100.691
All levels based on survey station ST01
at 100m

LEVELS		POSTS	
A	Approximate	CPQ	Concrete Post
CL	Cover Level	FHM	Fire Hydrant Post
DPIC	Damp Proof Course	FPO	Fence Post
EL	Eaves Level	GM	Gas Marker Post
FFL	Finished Floor Level	GPO	Gate Post
FL	Flat Roof Level	LPO	Lookable Post
IL	Invert Level	MK	Marker Post
RL	Ridge Level	MPO	Metal Post
SSL	Structural Slab Level	RP	Reflector Post
WL	Water Level	TPD	Timber Post
BUILDINGS - HEIGHTS ABOVE FLOOR			
C	Ceiling	STREET FURNITURE	
DH	Door Head	BB	Belisha Beacon
F	False Ceiling	BO	Bollard
WS	Window Head	BS	Bus Stop
WH	Window Sill	DK	Drop Kerb
		EC	Electric Casing
		EP	Electric Pole
INSPECTION CHAMBERS		FB	Flow Board
AC	Access Cover	FL	Flag Pole
CA	Cellar Access	FP	Flood Light
IC	Cable TV Inspection Chamber	LB	Light Bollard
EC	Electric Inspection Chamber	LBO	Letter Box
ER	Earth Rod	LP	Lamp Post
FWIC	Foul Water Inspection Chamber	NP	Name Plate
FH	Fire Hydrant	PM	Parking Meter
GIC	Gas Inspection Chamber	RS	Road Sign
GV	Gas Valve	S	Sign
GY	Gully	STN	Survey Station
IC	Inspection Chamber	TL	Traffic Light
JB	Joiner Box	TLF	Traffic Light Column
KI	Kerb Inlet	TP	Telephone
RE	Rodding Eye		
SV	Stop Valve	FENCES	
SWCP	Surface Water Catch Pit	M/MW	Metal post & wire
SWIC	Surface Water Inspection Chamber	B/W	Barbed Wire
TL	Telephone Inspection Chamber	C/B	Cable Board
U	Unidentified	CL	Chain Link
UTL	Unable to lift	CS	Chestnut Rail
WC	Water Inspection Chamber	CW	Chicken Wire
WM	Water Meter	D/L	Delapidated
WSV	Water Stop Valve	IR	Iron Railings
		PR	Post and Rail
		RTW	Retaining Wall
PIPES		SURFACES	
GP	Gas Pipe	Conc	Concrete
RWP	Rain Water Pipe	CPS	Concrete Paving
SEV	Sewer Vent Pipe	TPav	Tactile Paving
VP	Vent Pipe		

Defect Grade Description

1: Occurances without damage: for example, laterals, joints, etc.

NO DEFECTS WERE DETECTED.

2: Constructional deficiencies or occurances with insignificant influence to tightness, hydraulic or static pressure or pipe: Eg. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc.

REHABILITATION CAN BE SCHEDULED LONG-TERM.

3: Contructional deficiencies diminishing static, hydraulic and tightness: Eg. open joints, untorched intakes, cracks, minor drainage obstructions such as calcide build ups, protruding laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls etc.

REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.

4: Constructional damages with nonsufficient static safety, hydraulic or tightness: Eg. axial/radial pipebursts, pipe deformations, visually noticable infiltration/exfiltration, cavities, in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc.

REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS.
NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.

5: Pipe is already or will shortly be impermeable: Eg. collapsed pipe, deeply rooted pipe or other drainage obstructions. Pipe loses water or danger of backwater in basements etc.


REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE,
NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): 1 X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 3 / 0	Base unit: E1CPYKDBWI	Section number: 1

Road: 23a Ravenshaw Street Place: - London Location: NW6 1NP	Division: - District: Location Details: -		
Purpose: - Duty: Foul Catchment: -	Shape/Size: 150mm Material: Vitrified clay Category: -	start MH: 1 end MH: LAS Total length: 1.00	

Scale: 1:9 Direction: Downstream

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 1 I/L: 1.4 metres				
0.00	ST	Start of Survey Length	1/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	1/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	1/4.jpg	Comment / 0
				
1.00	REM	Enter comment here...	1/5.jpg	Comment / 0
1.00	DER	Settled deposits coarse 15% cross-sectional area loss, Start	1/6.jpg	Service / 3
M/H Ref: LAS I/L: 3 metres				

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
1

Pipe length Reference (PLR):
1 X

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Enter comment here...



Settled deposits coarse 15% cross-sectional area loss, Start

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): 1 X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 3 / 0	Base unit: E1CPYKDBWI	Section number: 2

Road: 23a Ravenshaw Street Place: - London Location: NW6 1NP	Division: - District: Location Details: -	
Purpose: - Duty: Foul Catchment: -	Shape/Size: 150mm Material: Vitrified clay Category: -	start MH: 1 end MH: LAS Total length: 13.38

Scale: 1:125 Direction: Downstream

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 1 I/L: 1.4 metres				
0.00	ST	Start of Survey Length	2/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	2/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	2/4.jpg	Comment / 0
1.50	DEE	Attached deposits, encrustation at 5 o'clock 10% cross-sectional area loss	2/5.jpg	Service / 3
6.13	REM	At boundary approx sewer depth 2.5	2/6.jpg	Comment / 0
13.38	REM	LAS Reached	2/7.jpg	Comment / 0
M/H Ref: LAS I/L: 3 metres				

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
2

Pipe length Reference (PLR):
1 X

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Attached deposits, encrustation at 5 o'clock 10% cross-sectional area loss



At boundary approx sewer depth 2.5



LAS Reached

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): 2 X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 0 / 0	Base unit: E1CPYKDBWI	Section number: 3

Road: 23a Ravenshaw Street Place: - London Location: NW6 1NP	Division: - District: Location Details: -	
Purpose: - Duty: Foul Catchment: -	Shape/Size: 100mm Material: Vitrified clay Category: -	start MH: 1 end MH: 2 Total length: 8.13

Scale: 1:76 Direction: Upstream

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 1 I/L: 1.4 metres				
0.00	ST	Start of Survey Length	3/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	3/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	3/4.jpg	Comment / 0
M/H Ref: 2 I/L: 1 metres				
8.13	MHF	Finish node type, manhole, reference number 2	3/5.jpg	Comment / 0

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
3

Pipe length Reference (PLR):
2 X

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



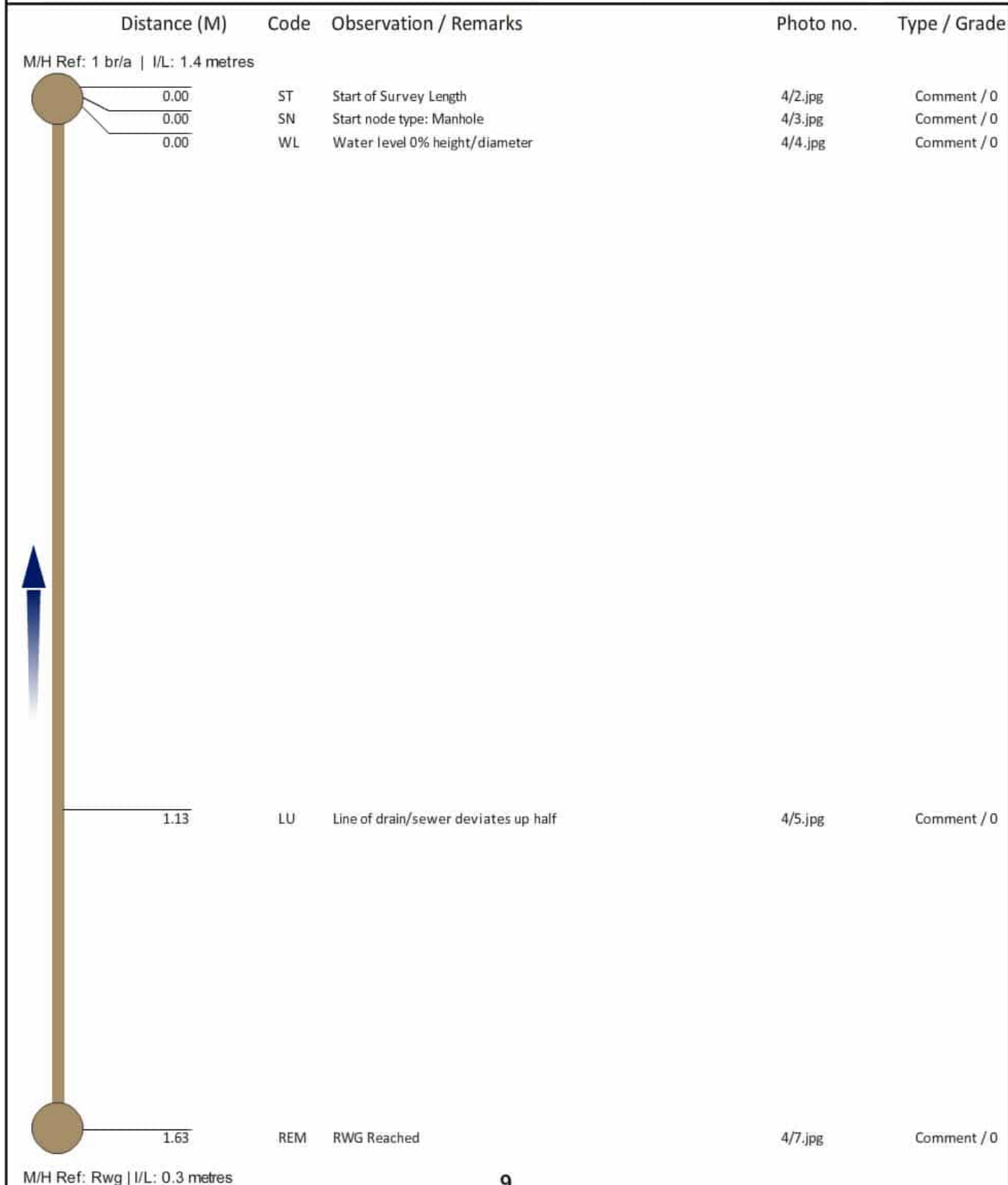
Finish node type, manhole, reference number 2

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): Rwg X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 0 / 0	Base unit: E1CPYKDBWI	Section number: 4
Road: 23a Ravenshaw Street Place: - London Location: NW6 1NP		Division: - District: Location Details: -		
Purpose: - Duty: Foul Catchment: -		Shape/Size: 100mm Material: Vitrified clay Category: -	start MH: 1 br/a end MH: Rwg Total length: 1.63	

Scale: 1:15

Direction: Upstream



CCTV Inspection Photos

Date:
09/02/2015

Section Number:
4

Pipe length Reference (PLR):
Rwg X

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Line of drain/sewer deviates up half



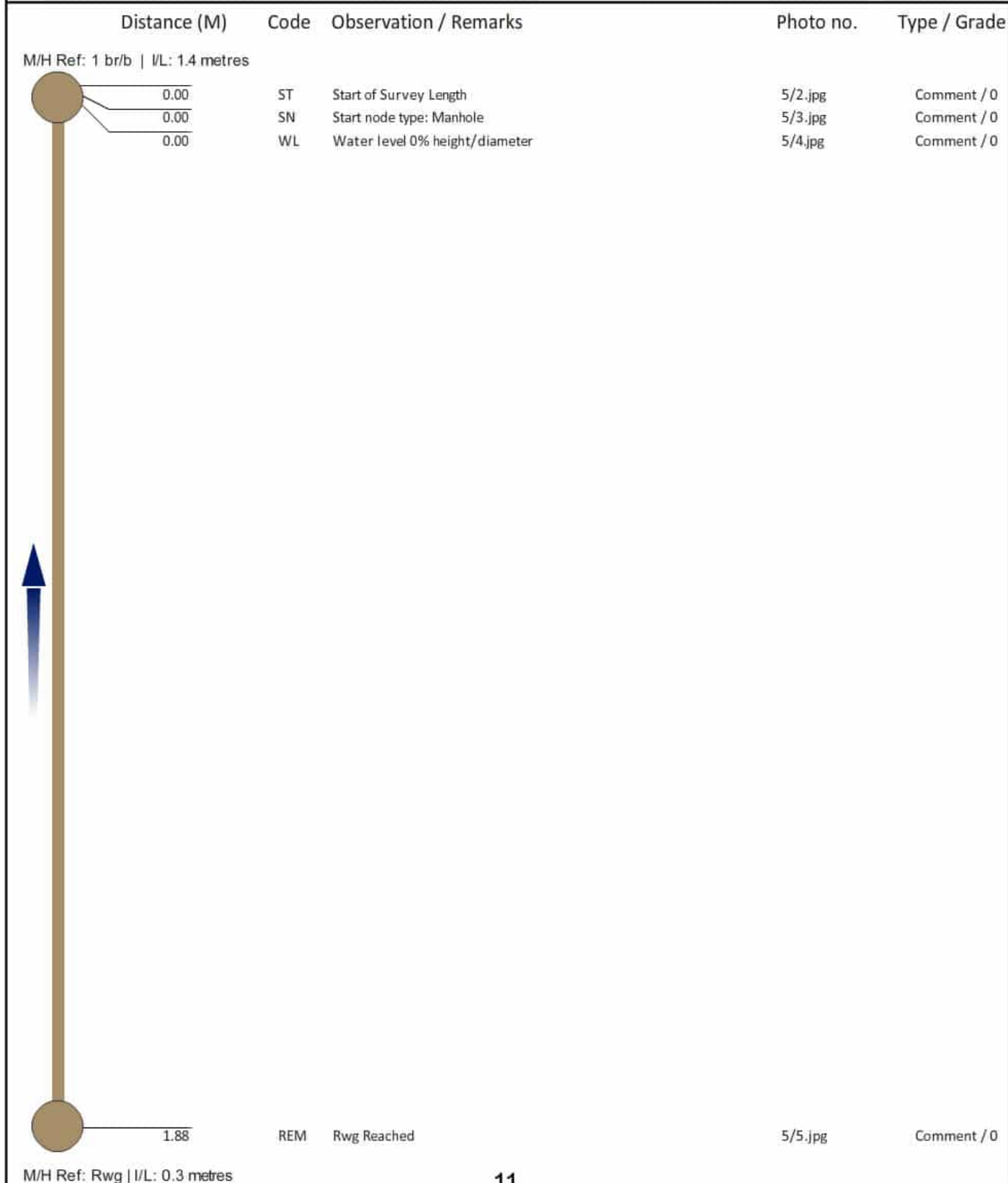
RWG Reached

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): Rwg X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 0 / 0	Base unit: E1CPYKDBWI	Section number: 5
Road: 23a Ravenshaw Street Place: - London Location: NW6 1NP		Division: - District: Location Details: -		
Purpose: - Duty: Combined Catchment: -		Shape/Size: 100mm Material: Vitrified clay Category: -	start MH: 1 br/b end MH: Rwg Total length: 1.88	

Scale: 1:18

Direction: Upstream



CCTV Inspection Photos

Date:
09/02/2015

Section Number:
5

Pipe length Reference (PLR):
Rwg X

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Rwg Reached

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): 3 X	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 0 / 0	Base unit: E1CPYKDBWI	Section number: 6

Road: 23a Ravenshaw Street
Place: - London
Location: NW6 1NP

Division: -
District:
Location Details: -


Purpose: -
Duty: Combined
Catchment: -

Shape/Size: 100mm
Material: Vitrified clay
Category: -

start MH: 1 br/c
end MH: 3
Total length: 4.63

Scale: 1:43

Direction: Upstream

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 1 br/c IL: 1.4 metres				
0.00	ST	Start of Survey Length	6/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	6/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	6/4.jpg	Comment / 0
				
4.63	REM	Mh 3 Reached	6/5.jpg	Comment / 0
M/H Ref: 3 IL: 0.3 metres				

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
6

Pipe length Reference (PLR):
3 X

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Mh 3 Reached

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): Yard GullyX	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 4 / 0	Base unit: E1CPYKDBWI	Section number: 7

Road: 23a Ravenshaw Street
Place: - London
Location: NW6 1NP

Division: -
District:
Location Details: -


Purpose: -
Duty: Combined
Catchment: -

Shape/Size: 100mm
Material: Vitrified clay
Category: -

start MH: 3 br/a
end MH: Yard Gully
Total length: 10.25

Scale: 1:96

Direction: Upstream

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 3 br/a I/L: 0.3 metres				
0.00	ST	Start of Survey Length	7/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	7/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	7/4.jpg	Comment / 0
				
9.38	DER	Settled deposits coarse 25% cross-sectional area loss, Start	7/5.jpg	Service / 4
10.25	REM	Yard gully Reached	7/6.jpg	Comment / 0
M/H Ref: Yard Gully I/L: 0.2 metres				

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
7

Pipe length Reference (PLR):
Yard GullyX

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Settled deposits coarse 25% cross-sectional area loss, Start



Yard gully Reached

CCTV Inspection Report

Surveyed by (Operator): Ricky Smith	Job no: RS100215	Pipe Length Reference (PLR): Yard GullyX	Date: 09/02/2015	Pre-cleaning: -
Weather: 1 - Dry	Customer present: -	Service Grade / Structural Grade 0 / 0	Base unit: E1CPYKDBWI	Section number: 8

Road: 23a Ravenshaw Street
Place: - London
Location: NW6 1NP

Division: -
District:
Location Details: -

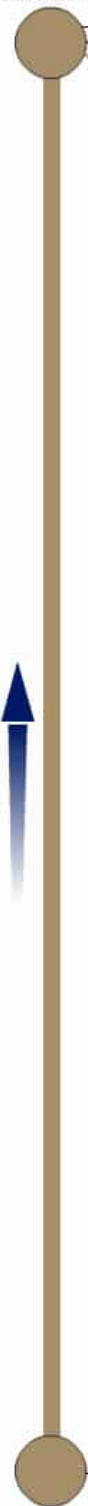
Purpose: -
Duty: Combined
Catchment: -

Shape/Size: 100mm
Material: Vitrified clay
Category: -

start MH: 3 br/b
end MH: Yard Gully
Total length: 0.88

Scale: 1:8

Direction: Upstream

Distance (M)	Code	Observation / Remarks	Photo no.	Type / Grade
M/H Ref: 3 br/b I/L: 0.3 metres				
0.00	ST	Start of Survey Length	8/2.jpg	Comment / 0
0.00	SN	Start node type: Manhole	8/3.jpg	Comment / 0
0.00	WL	Water level 0% height/diameter	8/4.jpg	Comment / 0
				
0.88	REM	Yard Gully	8/5.jpg	Comment / 0

M/H Ref: Yard Gully | I/L: 0.2 metres

CCTV Inspection Photos

Date:
09/02/2015

Section Number:
8

Pipe length Reference (PLR):
Yard GullyX

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,



Start of Survey Length



Start node type: Manhole



Water level 0% height/diameter



Yard Gully

Structural Defects (SRM 4)

Date:
09/02/2015

No.	PLR	Dir.	Use	Shape/ Size	Date	Mat.	Total Length	Insp. Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	1 X	D	F	150	09/02/2015	VC	1.00	1.00	-	0	0	0	0
2	1 X	D	F	150	09/02/2015	VC	13.38	13.38	-	0	0	0	0
3	2 X	U	F	100	09/02/2015	VC	8.13	8.13	-	0	0	0	0
4	Rwg X	U	F	100	09/02/2015	VC	1.63	1.63	-	0	0	0	0
5	Rwg X	U	C	100	09/02/2015	VC	1.88	1.88	-	0	0	0	0
6	3 X	U	C	100	09/02/2015	VC	4.63	4.63	-	0	0	0	0
7	Yard GullyX	U	C	100	09/02/2015	VC	10.25	10.25	-	0	0	0	0
8	Yard GullyX	U	C	100	09/02/2015	VC	0.88	0.88	-	0	0	0	0

Service Defects (SRM 4)

Date:
09/02/2015

No.	PLR	Dir.	Use	Shape/ Size	Date	Mat.	Total Length	Insp. Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	1 X	D	F	150	09/02/2015	VC	1.00	1.00	-	2	3	2.00	2
2	1 X	D	F	150	09/02/2015	VC	13.38	13.38	-	2	3	2.00	2
3	2 X	U	F	100	09/02/2015	VC	8.13	8.13	-	0	0	0	0
4	Rwg X	U	F	100	09/02/2015	VC	1.63	1.63	-	0	0	0	0
5	Rwg X	U	C	100	09/02/2015	VC	1.88	1.88	-	0	0	0	0
6	3 X	U	C	100	09/02/2015	VC	4.63	4.63	-	0	0	0	0
7	Yard GullyX	U	C	100	09/02/2015	VC	10.25	10.25	-	5	4	5.00	5
8	Yard GullyX	U	C	100	09/02/2015	VC	0.88	0.88	-	0	0	0	0

Report summary

Date:
09/02/2015

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,

Job Information:

Total distance surveyed (M): 41.78
 Engineer: Ricky Smith
 Number of surveys: 8
 Number of surveys grade 4 or above: 0

Section 1 overview

Manholes: 1 to LAS
 Pipelength: 1.00
 Grade: 0
 Material: Vitrified clay
 Pipe size: 150
 Use: Foul

Section 2 overview

Manholes: 1 to LAS
 Pipelength: 13.38
 Grade: 0
 Material: Vitrified clay
 Pipe size: 150
 Use: Foul

Section 3 overview

Manholes: 1 to 2
 Pipelength: 8.13
 Grade: 0
 Material: Vitrified clay
 Pipe size: 100
 Use: Foul

Section 4 overview

Manholes: 1 br/a to Rwg
 Pipelength: 1.63
 Grade: 0
 Material: Vitrified clay
 Pipe size: 100
 Use: Foul

Report summary

Date:
09/02/2015

Place:

Road: 23a Ravenshaw Street, London, NW6 1NP,

Section 5 overview

Manholes: 1 br/b to Rwg
Pipelength: 1.88
Grade: 0
Material: Vitrified clay
Pipe size: 100
Use: Combined

Section 6 overview

Manholes: 1 br/c to 3
Pipelength: 4.63
Grade: 0
Material: Vitrified clay
Pipe size: 100
Use: Combined

Section 7 overview

Manholes: 3 br/a to Yard Gully
Pipelength: 10.25
Grade: 0
Material: Vitrified clay
Pipe size: 100
Use: Combined

Survey comments:

HPWJ CLEAN RECOMMENDED

Section 8 overview

Manholes: 3 br/b to Yard Gully
Pipelength: 0.88
Grade: 0
Material: Vitrified clay
Pipe size: 100
Use: Combined