

Drainage Report



Prepared For

Morris Construction Ltd
Moorgate Far East Farm
Burnedge
Rochdale
OL16 4QL

Site

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Moorgate Far East Farm
Burnedge
Rochdale
OL16 4QL



ACRO DRAINS & BUILDING SERVICES

Surveyor: Dean Buckley

info@acrod rains.co.uk

07799001410

Total Defects for Project

Total DRB Grades for Project



Moorgate Farm - CCTV Survey Report : 10/10/23

Name : ACRO DRAINS & BUILDING SERVICES
 Contact : Dean Buckley
 Location : 89 Green Lane
 Town : Oldham
 Region : Lancashire
 Postcode : OL8 3BB
 Email : info@acrodrains.co.uk
 Contact Number : 07799001410
 Surveyor : Dean Buckley
 Valid Certification No :

Client Information

Name : Morris Construction Ltd
 Contact : Paul Morris
 Location : Moorgate Far East Farm
 Town : Burnedge
 Region : Rochdale
 Postcode : OL16 4QL
 Tel :
 Mobile : 07817985261
 Email : morrisconstruction8@gmail.com
 Fax :

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Report interpretation.

Overview:

Each section of the drainage system is allocated a score indicating areas that require attention. These areas are detailed in the Overview section on the following page and also at the bottom right of the first few pages. We use colour coding as an indicator of severity. Additional information concerning rehabilitation options/recommendations is included in the Overview page, which can also be used as an, "at a glance" indication of system condition. More in depth information for each section, including images can be found later in the report. Grade indicators are as follows:

Grade A: Drain is serviceable no recommendations required

Grade B: There is an issue that might require remedial works

Grade C: There is a defect that requires remedial works, the drain is not serviceable.

Observations:

Each section of drainage reported on (manhole to manhole for example), contains detailed information about that drain and any observations made concerning condition are detailed below the header section. The observations are colour coded and given a severity score, with more significant defects being given a higher score, using a scale from 1 to 5 as detailed below:

Severity 1 to 2: These defects may require remedial monitoring

Severity 3: These defects probably require some form of remedial works

Severity 4 to 5: Defects that will require remedial repair or replacement

General:

The information provided is relevant at the time of survey. The coding system in this report is based on the Manual of Sewer Condition Classification, 5th edition (MSCC5) domestic codes (BS EN 13508-1:2003). This is the official standard for the water industry.

The severity system is based on significant experience in general practice and the 1 -5 grades represent the severity of individual defects: 5 representing a more serious defect.

Please feel free to contact us for further explanation or pricing for remedial works required.

Total Defects for Project



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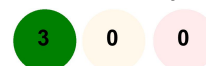
Overview

Section: 1 From: EXCO To: EXCO2	Excavation was carried out at the gate onto the corrugated PVC soakaway pipe. Pipe was surrounded in large MOT stone on removal. Corrugated tracked through field to 50.0m where EXCO2 was created 0.5m depth.	DRB Grade: A Pipe Size: 150 Material: Polyvinyl Chloride Use: Surface Water
Section: 2 From: EXCO2 To: Branch Soak	Grade A	DRB Grade: A Pipe Size: 150 Material: Polyvinyl Chloride Use: Surface Water
Section: 3 From: BRF To: Crushed	Pipe deformed - Unable to pass	DRB Grade: A Pipe Size: 150 Material: Polyvinyl Chloride Use: Surface Water

Total Defects for Project



Total DRB Grades for Project



Site: Moorgate Far East Farm, Burnedge

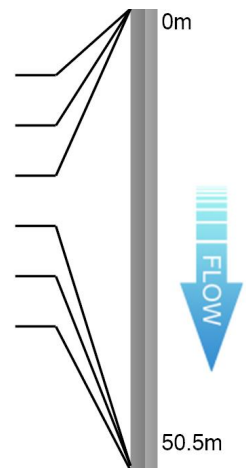
Section 1

Client: Morris Construction Ltd	Location (Street Name): Moorgate Far East Farm	City/Town/Village Burnedge	Cust Job Ref.	Surveyors Name: Dean Buckley	Date: 10/10/2023
Start Node Ref: Start Node Depth: Start Node Coordinate:	EXCO 0.40	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	EXCO2 0.00	Direction: Use: Material:	D S PVC Height/Dia: 150 Shape: C Cleaned N

Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
OF				

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	50.5	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	OF	Start node type, outfall		0_0		
00.00m	WL	Water level 5%		0_1	0:00:00	
00.00m	REM	General remark		0_4	0:06:44	
50.00m	REM	General remark		0_2	0:00:00	
50.00m	REM	General remark		0_3	0:00:00	
50.50m	OFF	Finish node type, outfall		0_99		



Total Defects for section

DRB Grade for Section

0 0 0 0 0



Descriptive Report with Remarks and Observation Images

Section 1

Pos	Video Ref	Code	Description	Image
00.00m		OF	Start node type, outfall EXCO	Image Provided - Ref: 0_0 
00.00m	0:00:00	WL	Water level: 5% Height/Diameter	Image Provided - Ref: 0_1 
00.00m	0:06:44	REM	General remark Blue pin denotes EXCO location	Image Provided - Ref: 0_4 

Total Defects for section

DRB Grade for Section

0 0 0 0 0



Pos	Video Ref	Code	Description	Image
50.00m	0:00:00	REM	General remark Photo shows location for EXCO2 to take place	Image Provided - Ref: 0_2 
50.00m	0:00:00	REM	General remark CO ORDS EXCO2	Image Provided - Ref: 0_3 
50.50m		OFF	Finish node type, outfall EXCO2	Image Provided - Ref: 0_9999 

Total Defects for section

DRB Grade for Section



Site: Moorgate Far East Farm, Burnedge

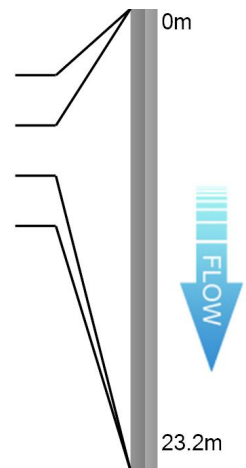
Section 2

Client: Morris Construction Ltd	Location (Street Name): Moorgate Far East Farm	City/Town/Village Burnedge	Cust Job Ref.	Surveyors Name: Dean Buckley	Date: 10/10/2023
Start Node Ref: Start Node Depth: Start Node Coordinate:	EXCO2 0.60	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Branch Soak 0.00	Direction: D Use: S Material: PVC	Height/Dia: 150 Shape: C Cleaned: N

Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
OF				

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	23.2	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	OF	Start node type, outfall		1_0		
00.00m	WL	Water level 5%		1_1	0:00:00	
23.20m	REM	General remark		1_2	0:01:20	
23.20m	BRF	Finish node type, major connection without		1_99		



Total Defects for section

DRB Grade for Section

0 0 0 0 0



Descriptive Report with Remarks and Observation Images

Section 2

Pos	Video Ref	Code	Description	Image
00.00m		OF	Start node type, outfall EXCO2	Image Provided - Ref: 1_0 
00.00m	0:00:00	WL	Water level: 5% Height/Diameter	Image Provided - Ref: 1_1 
23.20m	0:01:20	REM	General remark CO ORDS BRF	Image Provided - Ref: 1_2 

Total Defects for section

DRB Grade for Section

0 0 0 0 0

A

Pos	Video Ref	Code	Description	Image
23.20m		BRF	Finish node type, major connection without manhole Branch Soak	Image Provided - Ref: 1_9999 

Total Defects for section

DRB Grade for Section



Site: Moorgate Far East Farm, Burnedge

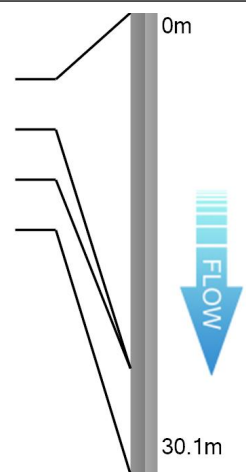
Section 3

Client: Morris Construction Ltd	Location (Street Name): Moorgate Far East Farm	City/Town/Village Burnedge	Cust Job Ref.	Surveyors Name: Dean Buckley	Date: 10/10/2023
Start Node Ref: Start Node Depth: Start Node Coordinate:	BRF 0.60	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Crushed 0.00	Direction: D Use: S Material: PVC	Height/Dia: 150 Shape: C Cleaned: N

Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
BR				

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	30.1	

Position	Code	Description	CD	Pic	Video Ref
00.00m	BR	Start node type, major connection without			
23.20m	WL	Water level 5%		2_1	0:00:00
23.20m	REM	General remark		2_2	0:01:30
30.10m	SA	Survey abandoned		2_99	



Total Defects for section

DRB Grade for Section

0 0 0 0 0



Descriptive Report with Remarks and Observation Images

Section 3

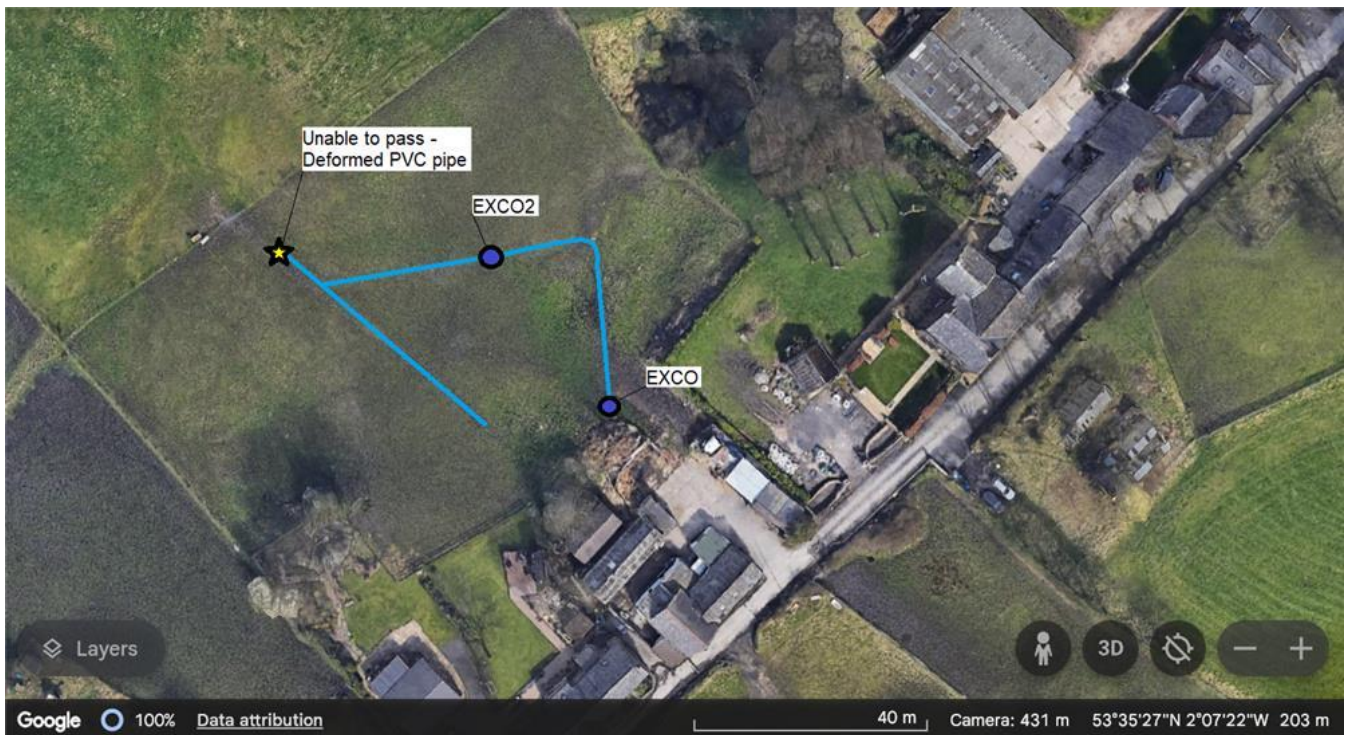
Pos	Video Ref	Code	Description	Image
00.00m		BR	Start node type, major connection without manhole BRF	
23.20m	0:00:00	WL	Water level: 5% Height/Diameter	Image Provided - Ref: 2_1 
23.20m	0:01:30	REM	General remark Start from Branch @ 23.3m	Image Provided - Ref: 2_2 
30.10m		SA	Survey abandoned Pipe deformed - Unable to pass	Image Provided - Ref: 2_9999 

Total Defects for section

DRB Grade for Section



Plan of Site



Total Defects for section

DRB Grade for Section



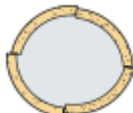
A guide to defects and other observations in drainage systems

More detailed information can be found in the National Standard (BS EN 13508-1:2003) and in the Manual of Sewer Condition Classification (MSCC) 5th Edition, written by the Water Research Centre (WRc).

Use	
Code	Description
C	Combined
F	Foul
S	Surface Water
T	Trade Effluent
W	Culverted Watercourse
Z	Other

Common Materials	
Code	Description
VC	Vitrified Clay
PVC	Polyvinyl Chloride
CO	Concrete
CI	Cast Iron
PF	Pitch Fibre
PE	Polyethylene
DI	Ductile Iron

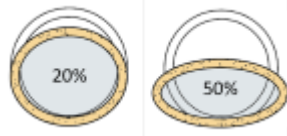
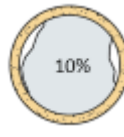
Start Node	Description	Finish Node
MH	Manhole	MHF
IC	Inspection Chamber	ICF
GY	Gulley	GYF
RE	Rodding Eye	REF
SK	Soakaway	SKF
BN	Buchan Trap	BNF
BR	Major Connection without Ref	BRF
CP	Catch Pit	CPF
OC	Other Special Chamber	OCF
OF	Outfall	OFF
OS	Oil Separator	OSF
WR	Major Connection without mh	WRF
LH	Lamphole	LHF

Code	Observation	Description	Attributes	
B	Broken	Pieces pipe have visibly moved	Defined by clock references. Associated with deformity in rigid pipe	
CC CL CM CR	Cracks	Cracks are break lines that are not visibly open	Defined by clock reference position/s. Longitudinal and radiating cracks attract only one clock reference	
CN	Connection	Lateral pipe has been connected after original construction	Described by clock reference position and diameter	

Total Defects for section

DRB Grade for Section



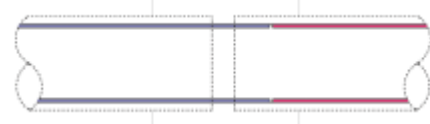
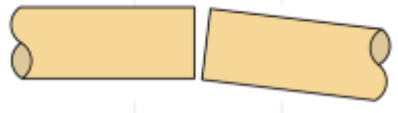
CX(I)	Defective Connection (Intruding)	Defective by intrusion or damage due to factors including: cracks, fractures, obstruction, position etc	Described by clock reference position and diameter (+ % intrusion)	
CU	Loss of Vision	Lens of camera is obscured by debris, water etc. Operator is unable to see drain clearly	'W' can be added if loss of vision is due to water	
D	Deformed	Pipe has lost its structure	Described by percentage loss of height or width. Recorded in 5% increments	
DEE	Deposits Encrustation	Eg. Attached scale deposits evident	Described by clock referenced position and percentage loss of cross-sectional area (5% increments)	
DEG	Deposits Grease	Attached grease deposits evident	Described by clock referenced position and percentage loss of cross-sectional area (5% increments)	
DER DES	Deposits Coarse/Fine	Settled deposits on the invert of the pipe.	Described by percentage loss of height or diameter. Recorded in 5% increments.	
FC FL FM FR	Fractures	Fractures are visibly open. Pieces of pipe have not moved	Defined by clock reference position/s. Longitudinal and radiating fractures attract only one clock reference	
H	Holes	Section of pipe fabric is missing	Defined by clock reference location. Normally two clock references	
I	Infiltration	Water is infiltrating the pipe, normally via a joint but could be via another defect	Can be described in Remarks using terms such as Seeper, Dripper and Runner	
JDL	Joint Displaced Large	Pipe has moved at joint, perpendicular to axis of pipe	More than 1.5 times the pipe wall thickness must be visible	

Total Defects for section

DRB Grade for Section

0 0 0 0 0



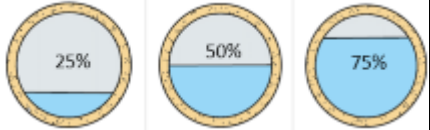
JDM	Joint Displaced Medium	Pipe has moved at joint, perpendicular to axis of pipe	Between 1 and 1.5 times the pipe wall thickness must be visible	
JN	Junction	Lateral pipe was installed at construction	Described by clock reference position and diameter	
JX	Defective Junction	Lateral pipe was installed at construction but is defective in some way	Joint can be defective due to factors including: cracks, fractures, obstruction, position etc	
LD LU LL LR	Line Deviation	LD = Line Down, LU = Line Up, LL = Line Left, LR = Line Right. Not related to CIPP lining.	Additional modifiers are added: Q = Quarter (22.5), H = Half (45), F = Full (90). In degrees.	
LC	Lining Changes	If the drain is lined, the lining material has changed	Position of lining material change	
MC	Material Change	The pipe material has changed	Position of change is noted. Type of material change can be defined	
OB	Obstruction/Obstacle	An obstruction or obstacle is affecting the flow through the pipe	Described in percentage loss of cross-sectional area	
OJL	Open Joint Large	Pipe has moved at joint, along the axis of pipe	More than 1.5 times the pipe wall thickness must be visible	
OJM	Open Joint Medium	Pipe has moved at joint, along the axis of pipe	Between 1 and 1.5 times the pipe wall thickness must be visible	
PC	Pipe Length Changes	Length of individual pipe changes	New length described at this position	

Total Defects for section

DRB Grade for Section

0 0 0 0 0

A

R	Roots	Evidence of root ingress	Roots will normally infiltrate via bad joints, cracks, fractures, breaks etc	
REM	Remark	General remark	Used for additional information	
S	Surface Damage	This might include corrosion, spalling and chemical attack	Position only. Additional information can be added in Remarks	
SA	Survey Abandoned	Used when a survey cannot continue for any reason	The reason for abandoning a survey should be noted in the remarks area	
SC	Shape Changes	Dimension of drain changes	Diameter dimension change recorded. Second dimension is recorded for no circular pipe changes	
SR	Sealing Ring	Sealing ring intrudes into pipe at joint	Described by clock reference position	
V	Vermin	Evidence of Vermin in pipe	Can also be used for evidence within manhole etc	
WL	Water Level	Used to record changes in water level. Always shown at the beginning of every survey, if dry noted as 00.	Described by percentage of height or diameter. Recorded in 5% increments	
XP	Collapsed	Drain is suffering from complete loss of structural integrity. Always followed by SA - Survey Abandoned	Percentage loss of cross-sectional area is recorded. Other related structural defects are not recorded	