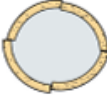

















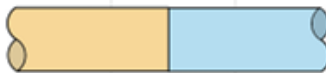



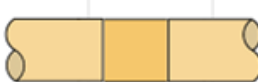









| Code | Observation | Description | Attributes | |
|----------------------|----------------------------------|---|--|--|
| B | Broken | Pieces pipe have visibly moved | Defined by clock references. Associated with deformity in rigid pipe |  |
| CC CL CM CR | Cracks | Cracks are break lines that are 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 |  |
| 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 |  |

| | | | | |
|--------------------------------|------------------------|--|---|--|
| 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 |  |

| | | | | |
|------------|------------------|---|--|--|
| 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 |  |