4.3.4 Catch Pits

* Clear weed / vegetation growth around frames, clear, empty silt and debris from Catch Pits

|  |  |
| --- | --- |
|  | * Comply with specifications for the drainage asset as set out in relevant parts of MCHW [Ref 26.N]. * Minimise pollution risk in accordance with GS 801 [Ref 2.N] and LA 113 [Ref 32.N]. * Contractor to control drainage waste arisings such that they comply with legislation at the point of disposal. * Provide drainage and service ducts cyclic and repair maintenance delivery of activity data in accordance with the requirements of the ADMM [Ref 1.N]. * In delivering a drainage and service ducts cyclic or repair maintenance activity, report problems or potential problems of the asset type and of other asset * types to the client for consideration. * Make recommendations to the client to optimise the delivery of the drainage and service ducts cyclic and repair maintenance activities to minimise non-value adding elements.   (GM 701 – PG76) |

# maintenance requirements

* Cleaning of gullies and covers, catchpits, interceptors, soakaways (including both priority and non-priority), manholes and oil separators shall be carried out in accordance with clauses 520 and clause 521.
* The cleaning frequency for gullies and covers, catchpits, interceptors, soakaways, manholes and oil separators will be as stated in GM701-ADAMR.
* The outlet pipe shall be jetted with clean water to ensure that it is flowing freely.
* Polluted water shall not be used to jet, surcharge or to refill gullies.
* All collected sediment debris and polluted water shall be disposed of at a licensed Special Waste Management Facility
* Polluted water shall not be used to dislodge compacted materials in the gully pot if there is any risk of that water being discharged into the drainage system.
* Oil separators shall be cleansed to avoid pollution.
* On completion of cleaning each gully, the *Contractor* will spray a spot of paint in the corner of the gully grating. The colour of the paint shall differ for each cycle of cleaning.
* Details of the Site Operations including the Scheme Identification, Operations Instruction, road name and number of gullies and chambers emptied, and any Defects found in respect to blockages or damages to the drainage system or components together with the location of those Defects shall be recorded and delivered to the *Service Manager* within 5 working days.
* Any damage or Defects to gullies chambers or components shall be repaired or made safe immediately if considered a danger to the public after an instruction from the *Service Manager*.

(M&RC-SPEC PG21)

* Clear/empty silt and debris from catch pits to be completed annually

(GM 701 – PG73)

# UNIT / MEASUREMENT / ITEMISATION

* The units of measurement shall be:

(vi) clear weed/vegetation growth around frames, clear/empty silt and debris, catch pits….number.

* Separate items shall be provided for emptying, clearing, cleaning, low pressure/high volume jetting and proving, weed and vegetation clearance, rubbish / debris / litter / obstruction clearance, silt removal, edge scraping, cutting back, weed spraying, re-cutting, de-silting, cycling, high pressure rotating jetting and powerful suctioning of gullies, gully covers, combined kerb and drainage systems, linear drainage systems, combined channel and pipe systems, catch pits, ditches, outfalls, interceptors, manholes, culverts, filter drains, balancing/attenuation ponds, ancillary items, swales, basins, grassed surface water channels, reservoir pavements and wetlands for drainage purposes in accordance with Chapter II paragraphs 3 and 4 and the following:

Group Feature

I 1 Sub-Asset Type.

II 1 Item.

(MOM Schd. B Issue 7 PG18/19)

# additional information

* The measurement of gully emptying and clear covers, clear covers, clear weed/vegetation growth and debris, clean, recut drainage Grip inlet and non-piped drainage Grip, clear weed/vegetation growth and debris, clean, recut counterfort drains, clear weed/vegetation growth and debris, cleaning, rodding, jetting proving of drainage Grip inlet and piped drainage Grip, clear weed/vegetation growth, silt and debris around frames, clean, empty catch pits, clear weed/vegetation growth, silt and debris around frames, clean, empty interceptors, clear weed/vegetation growth around frames, clear manholes by removing all material that could impair operation, clear outfalls by removing all material that could impair operation (Headwalls, Pipe outfall), clear / remove any blockage (silt, overgrown vegetation / weed, debris/rubbish, eroded bank material) restricting the free flow of water through the culvert, Cycle isolation valves of balancing / attenuation ponds to ensure valve functionality and Clear ancillary items (PCDs, siphons trash screens, penstocks) by removing all material that could impair operation to ensure assets are fit for operation shall be the number of assets within which the item is carried out.
* Location and details of existing drainage system is included in Network Information.
* Existing drainage systems shall be cleaned in accordance with MCHW Volume 1 Series 500 clauses 520 and 521, Series 6100 and Schedule 7 Part 1.
* An alternative method to cleaning by jetting should be used for porous concrete or perforated pipes to avoid a risk to the structural integrity of the porous pipes and the risk that exfiltration will enter the unbound pavement layers and wash out fine material in both instances.
* Where jetting is used, work shall be carried out in accordance with MCHW Volume 1 Series 500 Clause 521.
* Jet heads with nozzles set at approximately 20o to the pipe surface have a low jet angle and are unlikely to cause damage to the pipeline. Fan jets have low jet angles and are widely dissipated and hence unlikely to cause damage to the pipeline.
* The use of a high-pressure lance may be used externally to clear gratings or slots of linear drainage systems.
* The pipeline should be deemed to be clean when the silt content of the cross- sectional area of the pipe is between 0 and 10% for pipes 600 mm diameter or less and between 0 and 5% for pipes over 600 mm diameter.
* Suitable measures such as stanks, or stoppers shall be positioned downstream of the drainage system to be cleaned to minimise the risk of sediment causing contamination of watercourses or soakaways.
* To achieve the performance requirements of the drainage systems the cleaning of open surface water drainage channels, grips, balancing ponds, headwalls, ditches, outfalls and the like shall include the clearance and removal of any full or partial blockages resulting from siltation, erosion, detritus, refuse, rubble and vegetation growth including root systems.
* All arisings from the cleaning process shall be disposed of in an environmentally sensitive manner in accordance with current legislation.

**520 (02/20) The Cleaning of Existing Drainage Systems**

1 (02/20) Where stated in contract specific Appendix 5/1, the Contractor shall clean existing drainage systems in accordance with this Clause.

2 (02/20) The Contractor shall take measures when clearing blocked drains to ensure that adjacent water courses or groundwater via soakaways, will not be contaminated. Contamination includes mud or soil being washed or flushed into streams as well as other more obvious contaminants including diesel fuel, oil and chemicals.

3 (02/20) Initial attempts to clear blocked drains prior to jetting, shall be undertaken by hand rodding and any debris and silt removed by the operation shall be removed off site. The Contractor shall report any localised blockages that cannot be cleared by rodding to the Overseeing Organisation.

4 (02/20) Where jetting is required in contract specific Appendix 5/1 the procedures stated in Clause 521 shall be followed.

**(02/20) Cleaning of Gullies, Catchpits, Soakaways and Oil Separators**

5 (02/20) At each chamber all mud and vegetation in the vicinity of the chamber likely to impede the flow of water shall be removed. After lifting the cover or grating the chamber shall be cleansed of all water, detritus, debris and silt, refilled with clean water to the outlet level, and all covers and gratings replaced and evenly bedded.

6 (02/20) Cleaning of chambers shall be by mechanical means. The vehicle used to clean existing chambers shall be equipped with a 125mm dia gulley arm with boom jets, an exhauster with a minimum output of 5.95cum/min and minimum 5455 litres capacity. Sediment, detritus and liquor from the chamber shall not be permitted to discharge into the outlet. This may be achieved either by plugging the outlet during cleaning, or by simultaneous jetting and abstraction of liquor from the chamber using a tanker fitted with low-pressure high-volume water jets around the boom.

7 (02/20) Gullies and chambers not cleaned for whatever reason, blocked connections and broken or cracked covers, gratings or frames shall be marked to aid subsequent identification.

8 (02/20) Oil separators shall be refilled with uncontaminated water following the cleaning operation.

9 (02/20) The Contractor shall dispose of all surplus water, debris, and arisings from the works off site at a licensed