Drainage Operations 2022/23

1. Summary

The 2022/23 gully cleaning programme is currently 37.5% completed (32,004 out of a gully asset of 85,393, as of 26/8/22). Over the next two months, with expected increase of inhouse and supply chain partners (SCP) availability, we plan to accelerate the programme through the remaining summer months.

Comparing the data from the 2021/22 programme with the current year, we are noticing a decrease in gully silt levels, in the region of an average silt level reducing from 74% full to 59% full. This reduction demonstrates the benefits of regular cleansing and reduces the time that is needed to carry out the operation this year.

This year, we have identified a further 779 stuck covers and 359 broken or damaged covers, which have been programmed to be released or replaced. The supersucker gangs have cleared over 2,300 blocked gully outlets (averaging 6,000m of blocked drainage pipes per month) and emptying over 50 large assets (catch pits/soakaways) a month.

2. Objectives for 2022/23

- To visit and clean the 85,000 gully assets in the county of Buckinghamshire.
- To clear any defects found with regards to the gully/drainage asset.
- To capture all gully data and update the drainage asset management system.
- To add any additional data, discovered through the cyclic gully cleaning programme and to correct and amend data as necessary.
- To capture and update the asset management system we will continue to use the Kaarbontech Gully Smart system.











3. Resources for 2022/23

We will employ three in-house two-man gully cleaning gangs using 18t gully cleaning vehicles, one based in each of our operational depots at Aylesbury, Amersham and High Wycombe. These resources will be supported by two specialist gully cleaning companies, Drainline and FM Conway, operating up to four additional vehicles between them.

The gully cleaning operation is followed by a second programme using three high pressure jetting "Supersucker", 26t vehicles. This programme deals with the jetting of blocked assets, and/or the need to carry out CCTV to identify the exact location and nature of the blockage and, lastly, emptying larger assets such as soakaways and catch pits, which can sometimes be the reason why the gully is not actually flowing as it should.

All work gangs will capture live data onto a tablet, which will be uploaded onto the Kaarbontech system daily.

Using our own in-house resource and supported by our SCP we then produce programmes of work to repair defective gully frames and covers and/or broken/fractured pipe work on the gully system.





4. Methodology

Each operational depot has a nominated supervisor who will produce a programme of works for the gully cleaning gangs to follow. The programme is developed by taking a number of things into consideration, including, risk of known issues, available resources in each area and collaboration with other planned works.

The works pack is downloaded onto individual tablets and allocated to a work gang to deliver by visiting each location to update the asset history, confirm silt level on arrival and completion, record the condition of the asset, supported by a photograph. This information is a record of works carried out, asset data and also a tool to manage productivity and time.

If a defect is found which cannot be immediately remedied, the gang will create a service request for a return visit to be carried out. This might include stuck, broken frames and covers, blocked/broken pipework or blocked outlets. A follow up visit may also be necessary where gullies cannot be accessed due to vehicles being parked over or safety related observations being made that require additional planning before they can be carried out. Once the service request has been made, the supervisor will review and add this to the programme so that a repeat visit can be carried out.

The supersucker is a 26t vehicle fitted with high-pressure jetting which is used to clear a blockage, our approach being to do this, end to end point of the drainage system, normally a catchpit, soakaway or a ditch. This approach can limit the number of locations that can be attended in a day but results in a fully functioning drainage system which is unlikely to require further attendance, at least for some time. When working in tandem with the CCTV camera to investigate problematic issues, this may identify vegetation growth within the drainage system and a root cutter will be used to remove this. During periods of severe weather, the supersucker is also often used to attend flooding locations, which understandably impacts on the programmed works.

5. Some examples of thorough gully cleaning







6. Risks and Opportunities

Known risks include the ongoing national /regional shortage of HGV drivers and skilled workers, as well as sickness absence (including Covid). Extreme weather events not only make it unsafe to work during high winds, storms and extreme heat conditions, but also impact working hours that are safe for drivers and operators to carry out.

Some level of machinery breakdown and servicing are always anticipated, however there has been an increased cost and timescale for obtaining parts and repairing vehicles, which has been noted over the last 12 months or so.

We anticipate some slippage to programmed works and make plans to catch up by working outside of normal hours and to accelerate the programme at every opportunity. Additional SCP resource, upskilling of our own workforce, enhanced training programmes and opportunities to work collaboratively with other workstreams are constantly being reviewed to improve productivity.

7. Outputs April to August 2022

On a weekly basis reports are produced and analysed to highlight issues on the network, this gives opportunity to improve the operation and to measure performance against data collected from previous years. Please find a recent report:

WARD	DISTRICT	TOTAL	VEHICLE	STUCK	BROKEN	AVERAGE SILT	TOTAL	STILLTO
		GULLIES	OVER	COVERS	COVERS	LEVELS	CLEANED	CLEAN
					- 45		44.45	45.5
Abboy	Wycombo	1750	110	30	12	68%	1612	138
Amorsham and Chosham Bair	Chiltorn & South Buckr	1326		444		85%	17	1309
Arton Clinton and Biorton	Aylerbury	2369	89	116	21	35%	1965	404
Aylarbury Eart	Aylerbury	1887	1			86%	11	1876
Aylarbury North	Aylerbury	2016		2		56%	9	2007
Aylarbury North-Wast	Aylerbury	2099	1	1	2	55%	11	2088
Aylarbury South-Eart	Aylerbury	1764				58%	3	1761
Aylarbury South-Wart	Aylerbury	1393	2			50	9	1393
Aylarbury Wast	Aylarbury	2243		7		39%		2234
Beaconafield	Chiltorn & South Buckr	2112	21		6	36%	583	1529
Bernund	Aylarbury	2221	69	25	13	38%	1277	944
Banker, Cressex and Cartlefield	Wycambo	1140	94	20	15	34%	1067	73
Buckingham Eart	Aylerbury	2103	29	5	2	50%	602	1501
Buckingham Wort	Aylarbury	2617	131	28	11	37%	2268	349
Chalfont St. Gilor	Chiltorn & South Buckr	1654				77%	9	1645
Chalfant St. Potor	Chiltorn & South Buckr	1423				74%	71	1352
Chorham	Chiltorn & South Buckr	1197				79%	39	1158
Chess Valley	Chiltorn & South Buckr	1430	1		2	92%	47	1383
Chiltorn Ridger	Chiltorn & South Buckr	1136	4.		4	75%	3	1133
Chiltorn Villagor	Wycombe	1413	40	25	9	34%	1338	75
Cliveden	Chiltorn & South Buckr	1519	80	27	17	71%	852	667
Donham	Chiltorn & South Buckr	1913	22	28	6	71%	590	1323
Dounley	Wycombo	1321	32	10	5	58%	482	839
Farnham Common and Burnham Beecher	Chiltorn & South Buckr	1401	84	28	18	62%	1115	286
Flackwell Heath, Little Marlow and Marlow South-	Wycombe	1632 2016	85 18	10	9	39%	1533 250	99
Gerrards Crass	Chiltorn & South Bucks	2572	18	28 32	7	60%		1766 427
Great Brickhill	Aylarbury	1729	62	36	28	54% 40%	2145 1572	157
Great Mirrondon	Chiltorn & South Buckr	2801	**	- 30	2	74%	57	2744
Grendon Underwood Hazlemere	Aylarbury Wydamba	1271		1	2	82%	88	1183
		1594	149					1163
loar Life et en	Chiltorn & South Buckr	1926	44	42 10	39	64% 37%	1438 433	1493
lvinghae Little Chalfant and Amersham Common	Aylorbury Chiltorn & Sputh Buckr	1364	- 44	1	<u>'</u>	93%	24	1340
Marlou	Wycambo	1769	3	10		48%	84	1685
Ponn Wood and Old Amorsham	Chiltorn & South Bucks	2059	58	33	25	47%	1790	269
Ridgoway Eart	Wycambo	1639	2	5	2	47%	77	1562
Ridgoway Wort	Wycambo	1568	-	2		95%	14	1554
Ryomoad and Micklofiold	Wycambo Wycambo	1044	102	11	10	52%	915	129
Stoke Poger and Wexham	Chiltorn & South Bucks	2121	104	72	36	70%	1982	139
Stone and Wadderdon	Aylerbury	2196	104	<u>''-</u>		54%	28	2168
Torriors and Amorsham Hill	Wycomba	1078	2	5	6	71%	102	976
The Richard and American Fill	Wycomba	1538	1	1	ž	27%	26	1512
The Wooburns, Bourne End and Hedror	Wycombo	1509	71	16	9	33%	1422	87
Tottoridge and Bowerdean	Wycambo Wycambo	858	57	10	15	38%	747	111
Tylors Groon and Laudwator	Wycambo Wycambo	1528	4	35	1	67%	198	1330
Wondovor, Halton and Stoke Mandeville	Wycombo Aylarbury	2043	95	102	22	36%	1791	252
West Wycombe	Wycombo	1389	122	15	11	57%	1259	130
Wing	Aylasbury	2341		1	3	61%	32	2309
Windon	Aylasbury	2366	2	- ' -	7	75%	17	2349
TOTAL	Hylorodry	85398	1845	831	381	58%	32004	53394

8. Customer Focus

Fix My Street queries relating to drainage and flooding have steadily decreased over the year, with 1,193 less between Jan – Jul, when compared against the number received in the same period in 2021. This is likely to be partly due to the improvements made to the reporting platform, as well as the enhanced gully cleansing and drainage repair programme that has been ongoing since April 2021.

