Wastewater Asset Management Program Hillsborough, New Hampshire Hillsborough Water and Sewer Commission

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1. Introduction

The Hillsborough Water and Sewer Commission (HW&SC) engaged Underwood Engineers, Inc. (UE) to develop an asset management plan (AMP) for their sanitary sewer collection system, pumping stations, and wastewater treatment facility (WWTF) under Engineering Services Request #27 dated December 22, 2020.

The framework of this AMP includes the following core components.

- Asset Inventory and Condition Assessment
 - What sewer assets does the Commission own
 - Which assets are able to serve their purpose and which are beyond their useful life
 - What is their condition
 - What is the relative impact of asset failure
- Criticality
 - Prioritize assets by their probability of failure versus their impact of failure
- Minimum Life Cycle Cost (Practices)
 - Estimate level funded annual budgets required to replace assets over their life cycle
- Long-Term Funding Strategy (Budget)
 - Schedule estimated replacement costs by decade based on the useful life of the assets
 - Provide more detailed description of near term recommended asset replacements identified that may be needed in the next decade

Costs presented in this report are based on present day replacement cost estimates. This allows for the comparison and prioritization of projects. Inflation should be considered during the capital planning process based on when these projects are undertaken. Asset replacement work identified herein is intended to provide the HW&SC with a budgeting framework but is not intended to be a surrogate for detailed Facility Planning. Specific priority/sequencing of identified asset replacements should be refined annually based on available resources and needs.



2. Critical Assets and Priority Project Identification

To allocate scarce financial and physical resources in the most efficient way, it is necessary to systematically prioritize projects. For the purposes of this AMP, assets were ranked by their criticality. Criticality is defined as Probability of Failure (Overall Performance) versus Impact of Failure.

Probability of Failure is evaluated based on numerous factors including functionality, condition, and remaining useful life. For most of the gravity pipes, condition information was available from inspection data and the Probability of Failure score was based on the latest Pipeline Assessment and Certification Program (PACP) rating for each reach. The condition of other assets such as pumps, major equipment, and major components of the pumping stations and WWTF was based on visual observations, operator input and/or remaining useful life.

Probability of Failure				
0.000 to 1.999	Asset is extremely reliable, condition of asset is excellent.			
Excellent (Very Low Risk)	Time to failure is unlikely in the foreseeable future.			
2.000 to 2.999	Failures unlikely, condition of asset is very good.			
Good (Low Risk)	Remaining useful life of 20 years or more.			
3.000 to 3.999	Failure of asset is possible, moderate defects present.			
Fair (Moderate Risk)	Remaining useful life of 10 to 20 years.			
4.000 to 4.999 Poor (High Risk)	Asset sometimes fails to meet performance requirements, significant defects noted. Remaining useful life of 5 to 10 years.			
5.000 to 5.999	Asset is likely to fail or has failed to meet performance			
Immediate Attention (Very	requirements, serious defects noted. Asset has exceeded			
High Risk)	its remaining useful life.			

Table 1. Probability of Failure Scoring

An Impact of Failure score was assigned to each component based on the severity of consequences in the event of a break or malfunction. Factors such as the effect on public health, potential number of customers impacted, lack of redundancy, and cost of repair were considered.

Impact of Failure scoring is detailed in **Table 2**.



Table 2. Impact of Failure Scoring

Impact of Failure			
1 Very Low Impact	Public health and safety is very unlikely to be affected in the event of a failure. A small number of single-family residential customers would be inconvenienced. Repair cost is minimal.		
2 Low Impact	Public health and safety are unlikely to be affected. A small number of single-family residential or small commercial customers would be inconvenienced. Repair cost is low.		
3 Moderate Impact	Public health and safety are moderately likely to be affected. A large number of customers would be inconvenienced, or the impact on the customers affected would be serious. Repair cost is moderate to high.		
4 High Impact	Moderate to high potential for public health and safety to be affected. A large number of customers would be inconvenienced, or the impact on the customers affected would be serious. Repair cost is high.		
5 Major Impact	High potential for public health and public safety to be affected. A large number of customers would be inconvenienced, or the impact on the customers affected would be serious. Repair cost is very high.		

These factors taken together with the condition of the asset form the basis for the criticality of the asset. If an asset is in poor condition (has a high Probability of Failure) but is unlikely to have a significant impact in the event of a failure, then it may be lower on the priority list than an asset in poor condition which would have a major impact in the event of a failure. The impact of failure versus the probability of failure can be generally summarized as follows:

- Highest Risk high probability of failure and high impact of failure.
- Priority Renewal high probability of failure and low-to-moderate impact of failure.
- Frequent Monitoring low-to-moderate probability of failure and low-to-high impact of failure.
- Limited Monitoring low probability of failure and low-to-moderate impact of failure.

The criticality of an asset can be thought of as a matrix as shown in **Figure 1**.



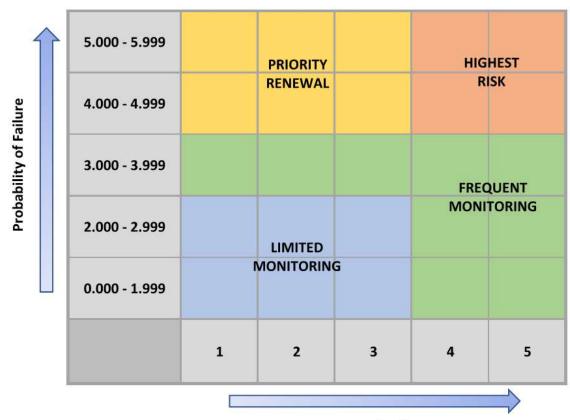


Figure 1. Criticality Matrix

Impact of Failure



3. Horizontal Assets

3.1. Horizontal Asset Overview

Assets associated with the collection system, such as sewer manholes, siphons, gravity sewer mains, and force mains, are considered *horizontal assets* for purposes of this report. HW&SC horizontal assets were categorized as follows:

- Approximately 93,300 LF (17.7 miles) of gravity sewer (includes school district sewers)
- Approximately 2,450 LF (~0.5 miles) of force mains
- Approximately 437 sewer structures

The HW&SC collection system piping ranges between 6" and 18" and was mostly constructed during major infrastructure improvements projects in the late 1970s and early 1980s. The HW&SC has gathered condition information about the collection system through closed-circuit television (CCTV) inspections. The majority of the collection system has been CCTV'd and this information was used for this AMP to help prioritize projects and identify critical assets. Note that evaluation/inspection of the HW&SC sewer manholes and force mains has not been performed with the same regularity as mainline CCTV, so limited information was available about the condition of those assets. Evaluating the condition of force mains is difficult and can be expensive to perform so the condition of those assets is typically based on where they are in their useful life cycle. However, sewer manhole inspections are more feasible and an important consideration when considering sewer rehabilitation (such as mainline lining) and will be discussed in later sections of this report.

3.2. Horizontal Asset Inventory

The inventory of horizontal assets can be found in **Appendix A-1** and was based on available GIS and record drawing information provided by the HW&SC. Sewer record drawings provided year of installation for many sewers and the CCTV inspections provided recent pipe condition information. The age of some sewers was not known so 'existing' horizontal assets shown on record drawings were assigned 1940 as "Year Installed" as a conservative assumption for planning purposes since they are believed to pre-date the major infrastructure improvements of the late 1970s and early 1980s. Similarly, horizontal assets understood to have been installed after 1979 for which record drawings were unavailable were conservatively assigned 1980 as "Year Installed". A summary of the estimated useful life of horizontal assets based on material is provided in **Appendix A-2**.

Private sewer assets were not included in this report or inventory. wWe understand that there are 13 privately-owned sewer manholes, approximately 2,372 LF (~0.5 miles) of privately-owned gravity sewer, and 1,716 LF of school district sewers connected to the HW&SC system. Commission-owned sewer piping is summarized below in **Table 3** and a map showing the HW&SC wastewater collection system by material is provided in **Appendix B-3**.



Material	Gravity Main Length (LF)	% Collection System Length
AC	2,480.96	2.66%
CI	270.40	0.29%
DI	1,917.77	2.06%
PVC	64,202.39	68.83%
VC	24,406.68	26.17%
Grand Total	93,278.20	100.00%

Table 3. HW&SC Sewer Pipe by Material

3.3. Prioritization of Horizontal Asset Replacement

Replacement of horizontal assets was prioritized based on criticality using the methodology described in Section 2 of this report. UE assigned each sewer reach a 'probability of failure' and 'impact of failure score' using the following criteria.

3.3.1. Probability of Failure

The probability of failure score assigned to each sewer was based on the severity and quantity of structural defects understood to exist in each reach. The majority of HW&SC's gravity system has been inspected since 2011 by Vortex Companies (formerly Ted Berry Company) who provided inspection logs and database tables to document observed pipe defects. Where multiple CCTV inspection reports were found for a single sewer reach, UE tried to use the most recent inspection report for the condition assessment. The CCTV inspector rated the severity of each defect using the National Association of Sewer Service Companies (NASSCO) Pipeline Assessment and Certification Program (PACP) standardized 1 through 5 rating system (5 being the most severe defect). The structural Quick Code Ratings (QR) provided from CCTV reports summarizes the number of occurrences for the two highest severity structural defects for each pipe segment and can range from 0000 (no defects) to 5949. For example, if a pipe is noted to have three severity 5 defects, zero severity 4 & 3 defects, and one severity 2 defect, the QR for this reach would be 5321. For purposes of this AMP, this QR was transformed into a decimal version such as 5.321 which was used as the probability of failure for the reach. Refer to **Section 2** and **Table 1** for additional description about the condition rating system used for this report.

Table 4 summarizes the quantities and lengths of gravity main by Probability of Failure.

Probability of Failure	Reach Quantity	Sum of Reach Lengths (LF)	% Collection System Length
0.000-1.999	308	60,391.85	64.74%
2.000-2.999	72	15,091.35	16.18%
3.000-3.999	20	4,321.80	4.63%
4.000-4.999	11	2,906.30	3.12%
5.000-5.999	41	10,566.90	11.33%
Grand Total	452	93,278.20	100.00%

Table 4. Gravity Main by Probability of Failure



The sewer reaches (by street) with the most severe defects (ie. condition scores >4.100) were found on Preston Street, West Main Street, Church Street, Wyman Street, West Mill Street, Whittemore Street, and Bridge Street. Defects with scores of 4.100 or greater observed during the inspections are listed in **Appendix A-3**. A map showing the probability of failure of gravity mains is provided in **Appendix B-6**. The sewer pipes with condition scores of 4.100 to 5.949 have the highest criticality and should be prioritized for replacement.

3.3.2. Impact of Failure

The impact of failure score assigned to each sewer reach was based on the criteria described in Section 2 of this report. However, additional consideration was provided for horizontal assets that service key municipal infrastructure such as fire stations, schools, etc. that may serve an important role during emergencies. The impact of failure score for each horizontal sewer asset is mapped in **Appendix B-5**.

3.3.3. Criticality

Combining probability of failure and impact of failure, the criticality of replacing each horizontal sewer asset is mapped in **Appendix B-7**.

A summary of gravity main reaches by criticality is provided in **Table 5**. Over time, the goal is to move more of the assets out of the "Highest Risk" and "Priority Renewal" categories into the "Limited Monitoring" and "Frequent Monitoring" categories. A program of regular asset renewal can also help the HW&SC save on annual CCTV costs because less frequent condition monitoring would be required for renewed assets and mitigate the risk of costly emergency repairs. HW&SC wastewater collection system assets with scheduled replacements over the next ten years classified as Highest Risk or Priority Renewal are provided in **Table 6** and **Table 7**.

Criticality	Reach Quantity	Sum of Reach Lengths (LF)	% Collection System Length
Highest Risk	13	3,024.89	3.24%
Priority Renewal	39	10,448.31	11.20%
Frequent Monitoring	174	34,986.03	37.51%
Limited Monitoring	226	44,818.97	48.05%
Grand Total	452	93,278.2	100.00%

 Table 5. Gravity Main Reaches by Criticality



Asset ID	Location	Reach Length (LF)	% Collection System Length
SSGM-5009	School St	143.90	0.15%
SSGM-5019	Central St	60.42	0.06%
SSGM-5052	Myrtle St	299.33	0.32%
SSGM-5093	W Main St	235.67	0.25%
SSGM-5099	Church St	208.52	0.22%
SSGM-5133	Central St	279.63	0.30%
SSGM-5188	Church St	333.11	0.36%
SSGM-5202	W Main St	54.61	0.06%
SSGM-5202A	W Main St	513.82	0.55%
SSGM-5218	School St	309.60	0.33%
SSGM-5305	W Main St	72.66	0.08%
SSGM-5310	Church St	192.41	0.21%
SSGM-5370	W Main St	321.21	0.34%
Grand Total		3,024.89	3.24%

Table 6. Highest Risk Gravity Mains



Asset ID	Location	Reach Length (LF)	% Collection System Length
SSGM-5012	W Mill St	209.32	0.22%
SSGM-5022	Whittemore St	207.19	0.22%
SSGM-5024	Jackson St	114.30	0.12%
SSGM-5025	Bear Hill Rd	130.50	0.14%
SSGM-5047A	River St	128.69	0.14%
SSGM-5054	Newman St	402.62	0.43%
SSGM-5068	Bridge St	217.95	0.23%
SSGM-5069	John St	254.88	0.27%
SSGM-5109	Park St	238.64	0.26%
SSGM-5111	Union St	315.11	0.34%
SSGM-5125	Cross St	241.80	0.26%
SSGM-5126	Summer St	290.35	0.31%
SSGM-5128	W Mill St	147.83	0.16%
SSGM-5131	Pleasant St	466.33	0.50%
SSGM-5137	Whittemore St	352.47	0.38%
SSGM-5138	Prospect St	468.76	0.50%
SSGM-5139	W Mill St	334.19	0.36%
SSGM-5159	Park St	241.39	0.26%
SSGM-5165	Central St	456.50	0.49%
SSGM-5182	Bridge St	284.03	0.30%
SSGM-5220	Depot St	345.33	0.37%
SSGM-5221	Union St	390.90	0.42%
SSGM-5232	Brown St	140.01	0.15%
SSGM-5241	Jackson St	197.87	0.21%
SSGM-5243	W Mill St	231.02	0.25%
SSGM-5247	Wyman St	81.72	0.09%
SSGM-5271	Wyman St	182.58	0.20%
SSGM-5285	Church St	327.45	0.35%
SSGM-5304	Bridge St	302.28	0.32%
SSGM-5361	Preston St	404.19	0.43%
SSGM-5362	Preston St	237.78	0.25%
SSGM-5371	High St	336.01	0.36%
SSGM-5379	Pearl St	268.51	0.29%
SSGM-5380	Pearl St	158.89	0.17%
SSGM-5396	Whittemore St	245.43	0.26%
SSGM-5408	Hoyt Ln	231.74	0.25%
SSGM-5428	Wyman St	320.52	0.34%
SSGM-5435	Wyman St	352.52	0.38%
SSGM-5436	Preston St	190.71	0.20%
Grand Total		10,448.31	11.20%

Table 7. Priority Renewal Gravity Mains

3.4. Long-Term Financial Planning

The replacement value of all HW&SC gravity and force mains is estimated to be approximately \$57 million dollars. Replacement cost estimates were based on an all-inclusive number, meaning that both engineering and construction costs (including manholes and services in the ROW) were considered. The unit cost of pipe replacement can vary depending on the size and scope of the project, but for planning purposes a unit cost of \$600 per linear foot was assumed based on the actual costs of the 2018 Bridge Street sewer replacement work. This project was used as a basis for cost projections because it's scale, scope, and complexity appeared to be a good median for other HW&SC sewer replacements. A tabulation of replacement costs for each HW&SC horizontal asset is provided in **Appendix A-1**.

Horizontal asset replacement costs have been scheduled out each decade for the next 100 years to capture the estimated useful life of existing system components. These costs are shown in **Table 8** and **Figure 2**. The annual reserves contribution to level fund these replacement costs would be approximately \$570,000 per year.

Period	Total	% Total 100-Yr Cost
2022-2031	\$13,564,056	23.8%
2032-2041	\$162,240	0.3%
2042-2051		0.0%
2052-2061	\$1,204,866	2.1%
2062-2071	\$3,530,408	6.2%
2072-2081	\$35,821,458	63.0%
2082-2091	\$346,374	0.6%
2092-2101	\$1,645,128	2.9%
2102-2111		0.0%
2112-2121	\$611,226	1.1%
2022-2121	\$56,885,756	100.0%

Table 8. HW&SC Gravity Main Estimated Replacement Cost – Next 100 Years



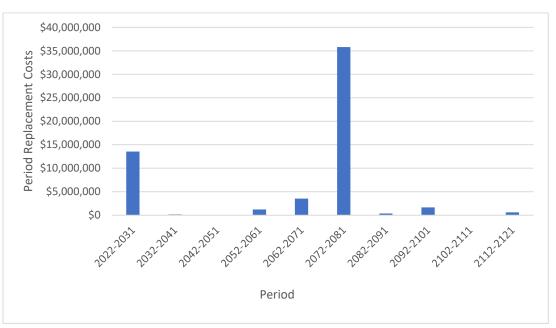


Figure 2. HW&SC Horizontal Asset Replacement Cost – Next 100 Years

As shown in Figure 2, the horizontal asset replacement costs are not uniformly distributed over the next 100 years. Several large sewer replacement capital 'slugs' in 2022-2031 and 2072-2081 correspond to when sewers reach the end of their assumed useful life based on the assumed date they were installed in the model. For example, the first decade (2022-2031) includes replacement of the VC sewers of unknown installation date that were believed to have been installed prior to 1979. UE assumed a conservative 1940 installation date, so these sewers have now exceeded their assumed 80-year useful life for VC sewers in the analysis. These VC sewers represent approximately \$13.5 million of the total \$57 million 100-year replacement cost. It may be possible to refine the modeled replacement date with further desktop investigation into the installation date of these sewers. However, the criticality assessment previously discussed (**Table 6 & Table 7**) is believed to be a better way to prioritize specific replacements and use the condition assessment information the HW&SC has gathered through proactive CCTV. To this end, UE has identified several specific "Short-Term" replacement projects that the HW&SC could consider based on the criticality assessment. However please note that it may be appropriate for the HW&SC to prioritize other areas of similar criticality to align with other infrastructure projects.

3.5. Potential Short-Term Recommended Horizontal Asset Projects (2022-2031)

Based on the criticality assessment, three areas were identified for potential sewer replacement projects in the next decade and are consistent with the previously discussed recommended funding levels for life-cycle asset management. These projects include what we understand as some of the oldest or most defective sewers within the collection system and are mapped in **Appendix B-8**.

Project #1 – West Main Street: This project includes replacing the vitrified clay (VC) gravity main on W. Main Street from just south of Central Street to just south of Wall Street. The probability of failure score for these pipes is very high due to age and condition, and the impact of failure score is high due to their location. However, the typical \$600/ft planning level costs for this



approximately 2,000' project is likely low due to the complexity of this work, so a more detailed estimate is recommended if the HW&SC wishes to pursue this project and a planning level budget of \$800/ft (\$1.6M) may be more appropriate.

Project #2 – Church Street Area: This project includes replacing the 6" VC gravity main around Church Street. The probability of failure score for many of these pipes is either high or very high due to age and condition, and the impact of failure score is high because these pipes service the elementary school. The 6" VC pipe on Church Street in particular should be replaced to match the flow capacity of the upstream 8" pipe carrying wastewater from the elementary school. Other sewers in this area on Newman, Center, Pleasant, and Myrtle Streets also had a high criticality score warranting consideration for replacement and are not good candidates for rehabilitation due to 6" diameter. Pending project scope, a 600/ft planning level budget would be appropriate for sewer replacement work in this area (1.5M +/- pending scope).

Project #3 –Park and Whittemore Street: This project includes replacing the 6" VC sewers on Park and Whittemore Streets. Although these sewers have a relatively low impact of failure score due to their small service area, their high probability of failure score (i.e. condition) raises their criticality for replacement. These sewers are not a good candidate for rehabilitation due to their 6" diameter and we understand that this project may also align with other planned capital projects. Pending project scope, a \$600/ft planning level budget would be appropriate for sewer replacement work in this area (\$1M +/- pending scope).

3.6. Rehabilitation vs. Replacement

The costs assumed in this analysis are based on full replacement of the gravity mains since this is the most reliable method for long-term for asset management. However, sewer rehabilitation can also be used to extend the useful life of gravity sewers. The HW&SC has been using some of these rehabilitation technologies so UE wanted to include a brief discussion about the advantages and disadvantages of sewer rehabilitation compared to sewer replacement as it relates to long-term asset management.

One method of sewer rehabilitation that the HW&SC has used in the past is cured-in-place pipe (CIP) point repairs also sometimes referred to as 'short liners'. Short liners are typically used to repair isolated defects in a main (often around 4' long) from inside the sewer which can be performed without digging up the street. UE identified 10 reaches from the CCTV files that have at least one point repair. Some reaches documented more than one point repair, such as the five repairs noted in the 2020 inspection video of SSGM-5242 on Summer Street. A summary of reaches where UE identified past point repairs are included in **Table 9**.



Asset ID	Location	Material	Diameter (in)	Repair Count	Sum of Repair Length	Reach Length	% Reach Repaired
SSGM-5022	Whittemore St	VC	6	3	15	207.19	7.24%
SSGM-5074	Myrtle St	VC	6	2	12	116.9	10.27%
SSGM-5092	Wyman St	VC	6	2	10	309.16	3.23%
SSGM-5118	Briggs St	VC	6	2	11	150.92	7.29%
SSGM-5138	Prospect St	VC	6	1	Unknown	468.76	Unknown
SSGM-5188	Church St	VC	6	4	16	333.11	4.80%
SSGM-5218	School St	VC	6	3	12	209.6	5.73%
SSGM-5242	Summer St	VC	6	5	19	373.26	5.09%
SSGM-5382	Bear Hill Rd	PVC	8	1	4	75.35	5.31%
SSGM-5386	W Mill St	VC	8	1	4	233.17	1.72%

Table 9. HW&SC Gravity Mains with Known CIPP Repairs

Point repairs help mitigate the risk of imminent emergency failures, but we did not use the presence of point repairs to extend the assumed useful life of the sewer asset in our analysis.

Another method of sewer rehabilitation is CIP lining the entire sewer reach. We have included our understanding of lined reaches in **Table 10**, but this may not be an all-inclusive list for liners installed prior to 2016. Our analysis assumed that the full reach liner extends the sewer main's useful life (50 years assumed), but it is important to note that this technique is not equivalent to sewer replacement since rehabilitation of sewer manholes and laterals connected to the CIP liner are not included in the rehabilitation. We recommend that the HW&SC inspect the manholes where CIP lining has been performed in the past (if not done already) and include manhole rehabilitation costs in the asset management program if appropriate to extend the asset life (mainline and manhole) for the assumed 50-year life-cycle.

			Diameter	Year	Reach	% Collection
Asset ID	Location	Material	(in)	Lined	Length (LF)	System
SSGM-5010	Henniker St	AC	10	2016	46.26	0.05%
SSGM-5032	Henniker St	VC	10	2016	143.74	0.15%
SSGM-5078	Preston St	VC	8	2021	338.07	0.36%
SSGM-5110	Preston St	VC	8	2016	327.11	0.35%
SSGM-5113	Bear Hill Rd	VC	8	2021	110.78	0.12%
SSGM-5166	Henniker St	VC	10	2016	258.84	0.28%
SSGM-5171	Bear Hill Rd	VC	10	2021	152.4	0.16%
SSGM-5191	Preston St	VC	8	2021	184.47	0.20%
SSGM-5194	Bear Hill Rd	VC	10	2021	114.2	0.12%
SSGM-5245	Henniker St	VC	10	2016	269.17	0.29%
SSGM-5291	Henniker St	VC	10	2016	470.52	0.50%
SSGM-5296	Bear Hill Rd	VC	10	2016	136.52	0.15%
Grand Total					2,552.08	2.74%

Table 10. HW&SC Gravity Mains with Full Reach Liners

4. Vertical Assets

4.1. Vertical Asset Inventory

Vertical Assets are those associated with pumping stations or the WWTF. A summary of our understanding of the HW&SC vertical assets were categorized as follows:

- Lagoon wastewater treatment facility (WWTF)
 - Built around 1986 with significant improvements constructed around 2012/2013 to increase the design capacity to 0.6 mgd.
 - The WWTF includes an approximate 3,400 square foot, concrete block main building (constructed around 1986) that houses the blower room, headworks room, operations/laboratory room, and utility/chlorine room with the associated electrical, HVAC, and mechanical equipment required for operation
 - 240 kW Generator (cir. 1986)
 - The WWTF includes an approximate 800 square foot prefabricated chemical building (constructed around 2012) that houses the ferric chloride and sodium hydroxide chemical feed systems used for effluent metals removal
 - Three (3) Hypalon-lined lagoons (constructed around 1986)
 - Lagoon #1 = Approx. 2.5 acres
 - Lagoon #2 = Approx. 1.3 acres
 - Lagoon #3 = Approx. 1.3 acres
 - Exterior chlorine contact chambers (constructed around 1986)
 - Septage receiving facility (not in use)
- West Main Street Pumping Station
 - Built around 1986 +/- to convey wastewater from the west side of town to the main collection system
 - Includes an approximate 200 square foot concrete block building with brick façade that houses the 75 kW generator (cir. 2008)
 - Includes an underground 10'x8' concrete dry pit that houses the pumps and controls (450 gpm each @ 60' TDH)
 - One 8' diameter concrete wet well
 - Influent grinder pump in the wetwell (cir. 2021)
- Bear Hill Pumping Station
 - Constructed around 1986 +/- to lift wastewater from a small collection area on the south side of the Contoocook River
 - Includes a 6'x6' concrete underground pump control chamber
 - Includes a 6' diameter concrete wetwell with duplex submerged submersible pumps, rails, and appurtenances
 - Includes a 1,000 gallon concrete underground overflow tank
 - Emergency generator (cir. 2020)

Much of the information for the vertical assets was gathered from existing record drawings provided by the Commission. An inventory of vertical assets is provided in **Appendix A-4**.



4.2. Vertical Asset Condition Assessment

On November 3rd, 2021, UE staff conducted a site visit to the two pump stations and WWTF with assistance from HW&SC chief operator Paul Dutton. The assets within these facilities were found to be in serviceable condition and some specific information provided during the visit is as follows.

4.2.1. Wastewater Treatment Facility Site Visit

- Three wastewater lagoons
 - Lagoon #1 sludge removed around 2003
 - Lagoon #2 sludge removed around 2013
 - Lagoon #3 sludge is believed to have never been removed
- The two screw pumps replaced around 2013
- Three blowers replaced around 2012 (with one rebuilt in 2018)
- Installation of floating aeration systems in Lagoons #2 and #3 around 2012
- Replacement of diffusers in Lagoon #1 in 2021 (not observed)

During the site visit, the operator identified the WWTF boiler as a concern. He indicated that the boiler requires maintenance two to three times per year and can take up a lot of maintenance and staff time. Another item of concern was the exterior doors to the headworks section of the building which are rusting and are in poor condition. Another identified item of concern was the unit heaters throughout the Operations Building that were reported to work intermittently and do not provide sufficient heat throughout the entire facility.

Lagoons #1 and #2 were both recently cleaned of sludge. However, Lagoon #3 has no history of being cleaned. The lagoon liners are original to WWTF construction and their condition is unknown. One item of concern that has been identified in the past is that the valves used to isolate/drain lagoons for maintenance do not function properly. These valves are not used during normal WWTF operations so are not a high priority asset replacement. However, valve replacement may be required as part of planned future lagoon capital expenditures (such as liner replacement).

Much of the equipment within the Chemical Building, such as the 3,000-gallon ferric chloride tanks, sodium hydroxide tanks, water heaters, and chemical feed pumps, were installed around 2012 and appeared to be in good condition. No assets in this building were identified to require immediate attention, but the operator expressed concern with the condition of some of the associated chemical feed piping in the yard.

Much of the equipment in the headworks area appear to function but are at or beyond their expected useful life except for the screw pumps which were replaced in 2013.

The WWTF standby generator is reported to be operable, however it is the original from around 1986 and approaching the end of its expected useful life. The WWTF generator is a critical piece of equipment with a high impact of failure if a failure occurs when it is needed.



4.2.2. West Main Street Pumping Station Site Visit

The West Main Street Pumping Station, located at 85 W. Main Street, is a duplex wet well/dry pittype pumping station constructed around 1986. We understand Pump #1 is original from 1986 and Pump #2 was rebuilt around 1999. No issues with the pumps, panels, heaters, compressors, piping, etc., much of which are original to the station, were identified by the operator but many of these assets are approaching or exceeded the end of their expected useful life. We understand that the generator was rebuilt around 2008 but is original as well. An influent grinder pump was installed in 2021. The operator noted that improvements to the alarm system would improve pumping station operations efficiency.

4.2.3. Bear Hill Pumping Station Site Visit

The Bear Hill Pump Station, located off Bear Hill Road, is a duplex submersible pumping station constructed around 1986. This pumping station includes a concrete wetwell and a buried concrete vault that houses the pump controls and valves. Most equipment, such as the panel and piping, is understood to be the original and although the operator did not identify issues with the equipment it is approaching the end of its useful life. Pumps #1 and #2 and the heater were replaced around 2015 although it is unclear whether Pump #2 has been installed. The generator and propane tank were installed in 2021. The presence of key operational equipment in the underground vault can make pumping station operations more challenging than if the equipment were above grade.

4.3. Long-Term Financial Planning

Vertical asset replacement costs were projected for each decade over the next 50 years in **Table 11** and **Figure 3** based on the date of installation and estimated useful life. Average annual level funded replacement costs over this time frame are approximately \$260,000 per year. Replacement costs and replacement years for each vertical asset can be found in **Appendix A-4**. However, forecasting replacement costs beyond one life cycle for most major WWTF components is difficult, as regulatory changes could require more costly upgrades beyond current assets to meet higher treatment standards.

Period	Bear Hill Pumping Station	HW&SC WWTF	W Main Street Pumping Station	Grand Total
2022-2031	\$52,000	\$952,000	\$240,000	\$1,244,000
2032-2041	\$98,000	\$4,922,000	\$290,000	\$5,310,000
2042-2051	\$56,000	\$951,000	\$198,000	\$1,205,000
2052-2061	\$123,000	\$3,057,000	\$753,000	\$3,933,000
2062-2071	\$52,000	\$693,000	\$363,000	\$1,108,000
2022-2071	\$381,000	\$10,575,000	\$1,844,000	\$12,800,000

Table 11. HW&SC	Vertical Asset Estimated F	Replacement Cost – Next 50 Years
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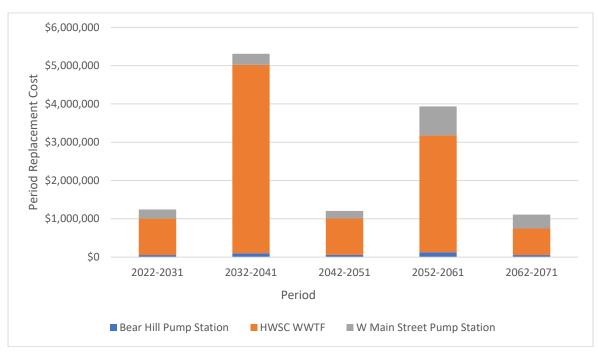


Figure 3. HW&SC Vertical Asset Replacement Cost – Next 50 Years

Asset replacement costs within the WWTF are broken out in **Appendix A-5** and summarized in **Figure 4**. The totals include shorter-lived assets at the WWTF that will need to be replaced multiple times. Full replacement costs for existing WWTF assets are estimated to total approximately \$10.6 million over the next 50 years. Note that forecasted expenditures are not uniform over time there is a large projected WWTF expenditures 'slug' in the 2032-2041 timeframe mostly related to anticipated lagoon liner replacement.



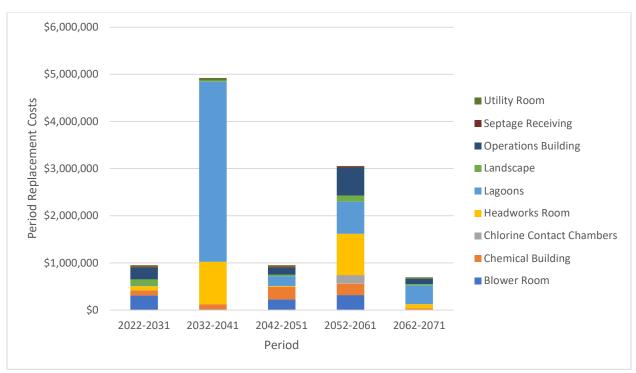


Figure 4. HW&SC WWTF Replacement Costs – Next 50 Years

4.4. Short-Term Recommended Vertical Asset Projects (2022-2031)

The following is a description/summary of the \$1.24M vertical asset replacements (WWTF and pumping stations) that were identified for 2022-2031 (**Table 11**) based on asset conditions observed during site visits and age-based estimated useful life projections included in this analysis.

WWTF Projects:

A total of approximately \$950,000 was identified at the WWTF (**Appendix A-4.2**). The following is not intended to be an all-inclusive list but highlight some of the major items identified for replacement:

Blower Replacement - \$225,000

This is a critical piece of equipment for proper WWTF operation. These were assumed to have a 15-year useful life based on past issues with one of the blowers.

Generator Replacement - \$80,000

The existing generator is original to 1986 and is beyond it's expected 30-year useful life.

WWTF Building Roof Replacement - \$70,000

The roof is understood to be original to 1986 WWTF construction and is believed to be approaching the end of its useful life.



WWTF Exterior Site and Lighting Work - \$150,000

This work includes repairing and relocating the light posts along Lagoon #1, overlaying the paved access drive, and repairing the perimeter fence. Several of the light posts exhibited water damage and had leaking seals and were non-functional at the time of the site visit. The operator noted that the exterior lighting posts were a hazard for truck drivers making chemical deliveries and relocation would be beneficial to site operations. The access drive around the facility, while functional, should be regularly overlayed. The perimeter fence is original, but serviceable so included replacement costs for this item could potentially be deferred to future decades.

Chemical Pumps, Piping, Electrical and Instrumentation - \$150,000

This work includes planning costs for replacing chemical feed pumps, piping, electrical processes and controls associated with those systems that need regular replacement. The operator expressed concern about the longevity of some of the chemical feed piping that is currently in use for these systems.

Grit and Headworks Equipment - \$80,000

This work includes planning costs for replacing mechanical and screening equipment in the headworks since it is understood that it is approaching the end of its expected useful life.

Operations Building Maintenance - \$90,000

This work includes replacing the exterior headworks door, boiler, and HVAC. At the time of the site visit, significant rust was visible on the inside and outside of the headworks door. The operator noted that the boiler needs maintenance several times per year and that the unit heaters are do not provide sufficient heat.

West Main Street Pumping Station:

A total of approximately \$240,000 was identified at the West Main Pumping Station (**Appendix A-4.3**). The following is not intended to be an all-inclusive list but highlight some of the major items identified for replacement:

The West Main Street Pumping Station was found to have a high impact of failure. Pump #1, #2, sump pump, and compressors are critical for station operation and these items are approaching the end of their expected useful life. The operator also identified the need to improve the alarm system to improve recognition and response to station alarms and it is anticipated that scheduled electrical and HVAC replacement would be performed as part of this work. Costs for replacing the roof, buried oil tank, and driveway overlay were also identified and included in this planning horizon.

Bear Hill Pumping Station:

A total of approximately \$50,000 was identified at the Bear Hill Pumping Station (Appendix A-4.1).

This work includes moving pump controls out of the buried concrete vault to an above ground electrical cabinet, paving the access drive, upgrading electrical components and floats and installing the already purchased Pump #2. Although this asset management plan focuses on replacement of existing assets, we recommend that select equipment at this station be relocated to outside the underground vault instead of replacing in-kind.



5. Overall System Financial Planning and Conclusions

5.1. Long-Term Financial Planning

The overall value of existing horizontal and vertical assets is provided in **Table 12** and **Figure 5**. The values below are the estimated cost to replace each existing asset once. However, some assets may need to be replaced multiple times depending on the planning horizon that is evaluated.

 Table 12. HW&SC Horizontal and Vertical Asset Replacement Costs – All Existing Assets

Asset Type	Sum of Replacement Costs	% Total Replacement Costs
Gravity & Force Mains	\$56,886,000	87.0%
Bear Hill Pump Station	\$271,000	0.4%
HW&SC WWTF	\$7,094,000	10.8%
W Main Street Pump Station	\$1,149,000	1.8%
Grand Total	\$65,400,000	100.00%

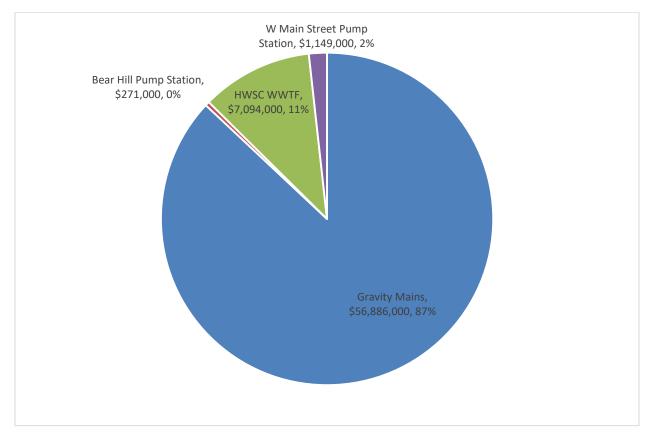


Figure 5. HW&SC Horizontal and Vertical Asset Replacement Costs – All Existing Assets

Table 13 summarizes the costs to replace existing assets identified for replacement during the next50 years by decade totaling approximately \$31.2 million dollars. This cost equates to



approximately **\$625,000/year** present day costs if levelly funded over the 50-year planning horizon. Note that this cost is less than the \$830,000/year that could be extrapolated from previous Sections 3 and 4 of this report (sum of \$570,000/year for horizontal asset and \$260,000/year for vertical assets) due to the different planning time horizons used for horizontal assets (100-years) and vertical assets (50-years) in those sections. The large 'slug' of PVC sewer replacement identified for the 2072-2081 decade (**Figure 2**) is outside this 50-year planning window resulting in lower 50-year annual planning costs show in **Table 13**.

Asset Type	2022-2031	2032-2041	2042-2051	2052-2061	2062-2071	Grand Total
Gravity &						
Force Mains	\$13,564,056	\$162,240		\$1,204,866	\$3,530,408	\$18,461,570
Bear Hill Pump						
Station	\$52,000	\$98,000	\$56,000	\$123,000	\$52,000	\$381,000
HW&SC						
WWTF	\$952,000	\$4,922,000	\$951,000	\$3,057,000	\$693,000	\$10,575,000
W Main Street						
Pump Station	\$240,000	\$290,000	\$198,000	\$753,000	\$363,000	\$1,844,000
Grand Total	\$14,808,056	\$5,472,240	\$1,205,000	\$5,137,866	\$4,638,408	\$31,261,570
50-Yr Annual R	eserve Contribu	ıtion				\$625,000

Table 13. HW&SC Horizontal and Vertical Asset Replacement Costs – 50 Years

HW&SC contributed \$125,000 to its reserve funds in 2020 and \$100,000 each year from 2015 to 2019 which is less than the \$625,000/year planning level asset replacement costs identified above. Since the sewer department is almost wholly funded by the users through billing and fees, the shortfall over the long term would have to be made up by increased revenue, although borrowing could be used to help spread the cost of large capital projects over time.

The New Hampshire Water and Wastewater Rates Dashboard is a resource to help communities determine their affordability ratio as well as compare their own rates against the statewide average sewer rates. We understand that the annual sewer bill for a typical household in Hillsborough is \$480 per year which is approximately \$300/year less than the reported \$766 statewide annual average. Median Household Income (MHI) is another metric that is used to evaluate sewer rate affordability within a community. Hillsborough's \$82,395 MHI reported in the 2019 American Community Survey 5-Year Estimates indicates that current sewer rates represent approximately 0.6% of MHI which lower than the 2% MHI threshold that many agencies use to evaluate sewer rate affordability.

The Water and Wastewater Rates Dashboard can be found at this link: <u>https://dashboards.efc.sog.unc.edu/nh</u>



5.2. Conclusions and Recommendations

The HW&SC sanitary sewer collection system, pumping stations, and wastewater treatment facility are serviceable indicating that the HW&SC has effectively managed those assets over time. However, a higher funding level is recommended for planning purposes based on the findings of this evaluation.

Horizontal assets represent the largest portion of the HW&SC system value and forecasted asset management costs identified in this report. The HW&SC has been very proactive managing that asset through CCTV inspection and we recommend that the HW&SC continue with regular sewer CCTV and include manhole inspections to help further inform planning of horizontal asset projects especially when rehabilitation is being considered. In addition, we recommend that the HW&SC prioritize future CCTV and manhole inspections based on the criticality of the sewer reach. For example, approximately 50% of the sewers were identified for 'limited monitoring' (Table 5) so the inspection frequency of those sewers could be reduced to a 20-year inspection cycle at this time. Conversely, we recommend that the inspection frequency of identified 'highest risk' (Table 6) and 'priority renewal' (Table 7) be performed more frequently (5-year or more frequent inspection cycle). However, this process of inspection priority is dynamic and must be continually updated as sewer conditions change and information becomes available. Similarly, regular inspection will enable the HW&SC to prioritize projects to spread replacement projects/costs over time. We recommend that horizontal asset replacement be prioritized by 'criticality' and sewer projects be coordinated with other planned projects (such as drinking water or road reconstruction) to optimize project efficiency.

The vertical assets represent a smaller portion of the HW&SC system value, but many of these assets are critical to the effective function of the sewer system. It was found that these assets currently function as intended, but vertical assets often consist of several inter-related components that have a shorter expected useful life than the horizontal assets. Costs for replacement of these upgrades should be planned for components approaching the end of their estimated useful life before significant issues or emergency situations arise. However, we recognize that some of these replacements (such as lagoon liner or blower replacement) can be significant, but difficult to forecast. The suggested vertical asset replacement sequencing/prioritization provided herein is intended to provide the HW&SC with a budgeting tool, but should not be used as a surrogate for a detailed Facility Planning.

The identified \$625,000/year costs for 50-year asset management planning window are significantly higher than the \$100,000/year to \$125,000/year that the HW&SC has budgeted for capital reserves in recent years. Although a 600% increase in capital reserves to fully fund the asset management program is likely not realistic, we recommend that the HW&SC increase capital reserve annual budgets considering forecasted long-term asset management needs. We understand that this additional revenue would likely need to be generated from user rates and it appears that the HW&SC wastewater rates are lower than the state average. In addition, Hillsborough's recent MHI suggests that some level of sewer rate increase may be affordable by regulatory standards. We recommend that the HW&SC perform a rate study with the objective to increase revenue to plan for future asset management projects. HW&SC should also continue to increase capital



reserve contributions over time to prepare for increasing emergency repairs as the wastewater collection system ages depending on the level of preventative work.

Asset management programs are never fully complete, as they require continual updating when capital projects are completed, or changes are made to the wastewater systems. HW&SC should implement a process for periodically updating the financial planning spreadsheet and GIS data as inspection, rehabilitation, replacement projects are completed. This will help ensure that data on-hand is useful in both monitoring asset condition and planning future projects.



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SSM-b056 Gravity Main B Newman St. 6 inch diameter SSMH-1367 SSMH-1364 V/C Yes 1940 00 2020 2 2022 LF \$500 402.62 \$24,172 2 5,141 10.282 5,141	GM-5052 (Gravity Main		Myrtle St	8 inch diameter	SSMH-1342	SSMH-1339	VC	Yes				2020		2022		\$600	299.33	\$179,598			5.221	Highest Risk
SSCM-5056 Gravity Main E Notch Dr 18 Inch diameter SSMH-1908 PVC Yes 1980 100 2080 58 2080 LF \$600 158.16 58.44.806 5.7 37.7			· ·																			1	Limited Monitoring
SSCM-b056 Gravity Main F McNell Rd 8 inch diameter SSMH-1826 PVC Yes 1980 100 2080 58 2080 LF 5800 62.70 33 1 3 1					-																	5.141	Priority Renewal
SSGM-5057 Gravity Main F Childs Way 8 inch diameter SSMH-1795 PVC Yes 1940 2079 57 2079 LF \$600 27.05 \$162,570 1																						1	Frequent Monitoring Limited Monitoring
SSGM-5058 Gravity Main E Cross St 6 inch diameter SSM1-1732 SSM1-1732 VC Yes 1940 80 2020 -2 2022 LF \$600 103.86 \$83.316 1			-																			1	Limited Monitoring
SSGM-5059 Gravity Main A Myrtle S1Ext 8 inch diameter SSMH-1728 SSMH-1732 PVC Yes 1980 100 2080 58 2080 LF 5800 180.24 \$100.144 1			E																	1 1	1	1	Limited Monitoring
SSGM-5061 Gravity Main D Jefferson Dr 8 inch diameter SSMH-2140 PVC Yes 1980 100 2080 58 2080 LF \$600 239.44 \$143,904 2 1 2 1 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	GM-5059 (Gravity Main				SSMH-1738	SSMH-1732	PVC	Yes			100	2080	58	2080	LF	\$600	180.24	\$108,144	· · ·		•	Limited Monitoring
SSGM-5062 Gravity Main H Henniker St 10 inch diameter SSMH-1165 SSMH-1165 SSMH-1125 AC Yes 1979 100 2079 57 2079 LF \$600 180.65 \$108.390 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 <td></td> <td>Limited Monitoring</td>																							Limited Monitoring
SSGM-5063 Graviv Main I Center Rd 6 inch diameter SSMH-1226 AC Yes 1980 80 2060 38 2060 120.3 \$115,218 1																						1	Limited Monitoring
SSGM-5064 Gravity Main B River St 12 inch diameter SSMH-1405 SSMH-1405 SVML-1405 Yes 1979 100 2079 57 2079 LF \$600 135.48 \$\$1,288 5 1 5 1 5 SSGM-5065 Gravity Main E Henniker St 10 inch diameter SSMH-1075 SSMH-1075 SSMH-1138 VC Yes 1979 85 2064 42 2024 LF \$600 313.71 \$188,226 2 3.2 6.4 3.2 1			H																		5	1	Frequent Monitoring Limited Monitoring
SSGM-5065 Gravity Main H Gay Ave 6 inch diameter SSMH-1306 SSMH-1291 AC Yes 1940 80 2020 -2 2022 LF \$600 426.68 \$5260,008 1 <th1< th=""> 1</th1<>			B																		5	1	Frequent Monitoring
SSGM-5066 Gravity Main E Henniker St 10 inch diameter SSMH-1075 DI Yes 1979 85 2064 42 2064 LF \$600 65.83 \$39,498 2 1 2 1 1 SSGM-5067 Gravity Main E Preston St 6 inch diameter SSMH-1141 SSMH-1138 VC Yes 1979 80 2059 37 2059 LF \$600 31.71 \$183,0,700 3 5.14 6.4 3.2 6.4 3.2 6.4 3.2 6.4 3.2 6.4 3.2 6.4 3.2 6.4 3.2 6.4 3.2 6.4 3.2 6.4 3.2 6.4 3.2 6.4 3.2 7 3 5.14 5.1																					-	1	Limited Monitoring
SSGM-5068 Gravity Main C Bridge St 6 inch diameter SSMH-1431 SSMH-1337 VC Yes 1940 80 2020 -2 2022 LF \$600 217.95 \$130,770 3 5.142 15.426 5.142 SSGM-5069 Gravity Main C John St 6 inch diameter SSMH-1537 VC Yes 1940 80 2020 -2 2022 LF \$600 254.88 \$152,928 1 5.142 5.141 5.141 5.141 <td>GM-5066 (</td> <td></td> <td>E</td> <td></td> <td></td> <td>SSMH-1075</td> <td>SSMH-1057</td> <td>DI</td> <td></td> <td></td> <td></td> <td>85</td> <td>2064</td> <td>42</td> <td></td> <td>LF</td> <td>\$600</td> <td>65.83</td> <td>\$39,498</td> <td></td> <td>_</td> <td>1</td> <td>Limited Monitoring</td>	GM-5066 (E			SSMH-1075	SSMH-1057	DI				85	2064	42		LF	\$600	65.83	\$39,498		_	1	Limited Monitoring
SSGM-5069 Gravity Main C John St 6 inch diameter SSMH-1532 SSMH-1537 VC Yes 1940 80 2020 -2 2022 LF \$600 254.88 \$152,928 1 5.																							Frequent Monitoring
SSGM-5070 Gravity Main A Church St 6 inch diameter SSMH-1681 SSMH-1678 VC Yes 1940 80 2020 -2 2022 LF \$600 168.07 \$100,842 2 3.112 6.224 3.112 F SSGM-5071 Gravity Main D Washington Cir 8 inch diameter SSMH-2170 SSMH-2164 PVC Yes 1980 100 2080 58 2080 LF \$600 203.53 \$122,118 1																					_		Priority Renewal
SSGM-5071 Gravity Main D Washington Cir 8 inch diameter SSMH-2170 SSMH-2164 PVC Yes 1980 100 2080 58 2080 LF \$600 203.53 \$122,118 1			-																				Priority Renewal
SSGM-5072 Gravity Main D Franklin Piece HwyXC 8 inch diameter SSMH-2206 SSMH-2203 PVC Yes 1980 100 2080 58 2080 LF \$600 67.36 \$40,416 4 1 <td></td> <td>_</td> <td></td> <td>Frequent Monitoring Limited Monitoring</td>																					_		Frequent Monitoring Limited Monitoring
SSGM-5073 Gravity Main F Bible Hill Rd 8 inch diameter SSMH-1981 SSMH-1984 PVC Yes 1980 100 2080 58 2080 LF \$600 143.28 \$85,968 3 1 3 1 1 SSGM-5074 Gravity Main B Myrtle St 6 inch diameter SSMH-1351 SSMH-1348 VC Yes 1940 80 2020 -2 2022 LF \$600 116.9 \$70,140 4 1 5 1																				· · ·		1	Frequent Monitoring
SSGM-5074 Gravity Main B Myrtle St 6 inch diameter SSMH-1351 SSMH-1348 VC Yes 1940 6 2020 -2 2022 LF \$600 116.9 \$70,140 4 1 1																					_	1	Limited Monitoring
SSGM-5075 Gravity Main E Preston St XC 18 inch diameter SSMH-1252 SSMH-1202 Yes 1979 100 2079 1F \$600 259 \$155,400 5 1 1 1 1			В																	4 1	4	1	Frequent Monitoring
SSGM-5077 Gravity Main E Henniker St 12 inch diameter SSMH-1063 SSMH-1060 PVC Yes 1979 100 2079 LF \$600 184.71 \$110,826 3 1 3 1 1 SSGM-5078 Gravity Main E Preston St 8 inch diameter SSMH-1069 VC Yes 1940 2021 50 2071 49 2071 LF \$600 38.07 \$202,842 3 1 3 1																						•	Frequent Monitoring
SSGM-5078 Gravity Main E Preston St 8 inch diameter SSMH-1096 SSMH-1093 VC Yes 1940 2021 49 2071 LF \$600 338.07 \$202,842 3 1 3 1 1 SSGM-5079 Gravity Main C River St XC 10 inch diameter SSMH-1252 PVC Yes 1980 100 2080 58 2080 LF \$600 273.83 \$164,298 5 1 5 1 F \$100 2080 LF \$600 273.83 \$164,298 5 1 5 1 F \$100 2080 LF \$600 273.83 \$164,298 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 </td <td></td> <td>_</td> <td></td> <td>Limited Monitoring</td>																					_		Limited Monitoring
SSGM-5079 Gravity Main C River St XC 10 inch diameter SSMH-1309 SSMH-1252 PVC Yes 1980 to 100 2080 58 2080 LF \$\$600 273.83 \$\$164,298 5 1 5 1 5											2021											1	Limited Monitoring
											2021											1	Frequent Monitoring
SSGM-5081 Gravity Main A Myrtle St 8 inch diameter SSMH-1729 SSMH-1693 PVC Yes 1980 100 2080 58 2080 LF \$600 49.94 \$29,964 4 1 4 1 F																						1	Frequent Monitoring

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Hillsborough Co	ollection Syster	m Pipe Data Ta	able	Year 1	Year 2		-		-		-	Year	9 Year 1	0 - 10)	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100	0 - 100	
Accest ID	Accest Trues	Deres Deres	Ofward	0000	0000	0004	0005		0007	0000	0000	0000	0004				0040 0054	0050 0004	0000 0074	0070 0000	0000 0004	0000 0404	0100 0111	0110 0101	0000 0404	100-Yr Replacement
	Asset Type Force Main	Sewer Basin A	Street W Main St	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2022-20	31 2	2032-2041	2042-2051	2052-2061	2062-2071 \$546,758	2072-2082	2082-2091	2092-2101	2102-2111	2112-2121	2022-2121 \$546,758	Count 1
SSFM-5340	Force Main	C	Bear Hill Rd																\$372,079						\$372,079	1
	Gravity Main	D	Washington Cir																	\$184,758					\$184,758	1
	Gravity Main	D	Washington Cir XC										_							\$172,758					\$172,758	1
	Gravity Main Gravity Main	A D	Woodlawn Ave XC Jefferson Dr																	\$142,764 \$176,628					\$142,764 \$176,628	1
	Gravity Main	H	Williams Rd																	\$170,808					\$170,808	1
SSGM-5006	Gravity Main	D	Jefferson Dr																	\$217,530					\$217,530	1
	Gravity Main	D	Washington Cir XC	* ***									_	* ***						\$176,940					\$176,940	1
	Gravity Main Gravity Main	B	School St Henniker St	\$86,340									_	\$86,34	40				\$27,756						\$86,340 \$27,756	1
	Gravity Main	C	Union St	\$203,586										\$203,5	86				ψ21,130						\$203,586	1
	Gravity Main	С	W Mill St	\$125,592										\$125,5											\$125,592	1
	Gravity Main	G	W Main St																	\$95,202					\$95,202	1
	Gravity Main Gravity Main	D E	Jefferson Dr Norton Dr																	\$96,552 \$69,294					\$96,552 \$69,294	1
	Gravity Main	B	River St																	\$58,782					\$58,782	1
	Gravity Main	В	Pleasant St	\$52,476										\$52,47	76					,					\$52,476	1
	Gravity Main	E	Henniker St												-					\$212,496					\$212,496	1
	Gravity Main	BC	Central St	\$36,252 \$249,480										\$36,25 \$249,4											\$36,252 \$249,480	1
	Gravity Main Gravity Main	D	High St Jefferson Dr	⊅∠49,480										 \$249,4	00					\$40,860					\$249,480 \$40,860	1
	Gravity Main	H	Whittemore St	\$124,314										\$124,3	14					÷.0,000					\$124,314	1
SSGM-5023	Gravity Main	F	Bible Hill Rd																	\$55,818					\$55,818	1
	Gravity Main	E	Jackson St	\$68,580 \$78,200										\$68,58											\$68,580 \$78,200	1
	Gravity Main Gravity Main	C C	Bear Hill Rd W Mill St	\$78,300 \$240,654										\$78,30 \$240,6											\$78,300 \$240,654	1
	Gravity Main	F	Gibson Rd	Ψ <u></u> -+0,00+										ψ240,0						\$160,836					\$160,836	1
SSGM-5028	Gravity Main	A	Woodlawn Ave XC																	\$95,412					\$95,412	1
	Gravity Main	G	W Main St																	\$183,864					\$183,864	1
	Gravity Main Gravity Main	G	W Main St W Main St																	\$128,622 \$107,220					\$128,622 \$107,220	1
	Gravity Main	H	Henniker St																\$86,244	\$107,220					\$86,244	1
	Gravity Main	C	High St	\$59,310										\$59,31	0				*** ,_**						\$59,310	1
	Gravity Main	F	Bible Hill Rd																	\$203,634					\$203,634	1
	Gravity Main	D	Jefferson Dr Bible Hill Rd																	\$82,248					\$82,248 \$191,550	1
	Gravity Main Gravity Main	P D	Jefferson Dr XC																	\$191,550 \$193,242					\$191,550	1
	Gravity Main	F	Gibson Rd																	\$118,614					\$118,614	1
	Gravity Main	F	Harvey Way																	\$174,708					\$174,708	1
	Gravity Main	G	W Main St W Main St									_	_							\$14,250 \$101,328					\$14,250 \$101,328	1
	Gravity Main Gravity Main	A	Butler St																	\$105,612					\$105,612	1
	Gravity Main	D	Jefferson Dr XC																	\$164,862					\$164,862	1
	Gravity Main	D	Jefferson Dr																	\$171,798					\$171,798	1
	Gravity Main		Hillcat Dr										_					\$183,408		¢477.400					\$183,408	1
	Gravity Main Gravity Main	E	Norton Dr Easement River St	\$71,724									_	\$71,72	24					\$177,108					\$177,108 \$71,724	1
SSGM-5047A		E	River St	ψ/1,72 1	\$77,214									\$77,21											\$77,214	1
SSGM-5048		D	Jefferson Dr																	\$90,342					\$90,342	1
SSGM-5049		D	Jefferson Dr																	\$123,048					\$123,048	1
SSGM-5050 SSGM-5052		DB	Blair Ave XC Myrtle St	\$179,598										\$179,5	98					\$207,264					\$207,264 \$179,598	1
SSGM-5053		F	Symonds Rd	¢110,000										φ110,0						\$96,108					\$96,108	1
SSGM-5054	Gravity Main	В	Newman St	\$241,572										\$241,5	72										\$241,572	1
SSGM-5055 SSGM-5056		E	Norton Dr																	\$94,896 \$37,674					\$94,896	1
SSGM-5056 SSGM-5057		F	McNeil Rd Childs Way																	\$37,674 \$162,570					\$37,674 \$162,570	1
SSGM-5058		E	Cross St	\$83,316										\$83,31	16					÷102,010					\$83,316	1
SSGM-5059	Gravity Main	A	Myrtle St Ext																	\$108,144					\$108,144	1
SSGM-5060	Gravity Main	D	Jefferson Dr XC																	\$133,314					\$133,314 \$143,004	1
SSGM-5061 SSGM-5062	Gravity Main	D H	Jefferson Dr Henniker St																	\$143,904 \$108,390					\$143,904 \$108,390	1
SSGM-5063	Gravity Main		Center Rd															\$115,218		÷100,000					\$115,218	1
SSGM-5064	Gravity Main	В	River St																	\$81,288					\$81,288	1
SSGM-5065		H	Gay Ave	\$256,008										\$256,0	08				¢20,400						\$256,008	1
SSGM-5066 SSGM-5067		E	Henniker St Preston St															\$188,226	\$39,498						\$39,498 \$188,226	1
SSGM-5068		C	Bridge St	\$130,770										\$130,7	70			ψ100,220							\$130,770	1
SSGM-5069	Gravity Main	С	John St	\$152,928										\$152,9	28										\$152,928	1
SSGM-5070		A	Church St	\$100,842										\$100,8	42					# 400.115					\$100,842	1
SSGM-5071 SSGM-5072	Gravity Main	D	Washington Cir Franklin Pierce Hwy XC																	\$122,118 \$40,416					\$122,118 \$40,416	1
SSGM-5072 SSGM-5073		F	Bible Hill Rd																	\$40,416					\$40,416 \$85,968	1
SSGM-5074		B	Myrtle St	\$70,140										\$70,14	10					÷55,500					\$70,140	1
SSGM-5075		E	Preston St XC																	\$155,400					\$155,400	1
SSGM-5076		D E	Jefferson Dr																	\$73,212					\$73,212 \$110,826	1
SSGM-5077 SSGM-5078		E	Henniker St Preston St																\$202,842	\$110,826					\$110,826 \$202,842	1
SSGM-5079	Gravity Main	C	River St XC																,	\$164,298					\$164,298	1
SSGM-5081	Gravity Main	Α	Myrtle St																	\$29,964					\$29,964	1

Hillsborough C	Collection Syste	em Pipe Data T	able																				
Accest ID		Course Desin	Church	Diamatan	Upstream	Downstream	Meterial	Increated	Year	Year		End Useful					Length	Replacement		Probability		Condition	
Asset ID SSGM-5082	Asset Type Gravity Main	Sewer Basin F	Street Gibson Rd	Diameter 8 inch diameter	Manhole SSMH-1954	Manhole SSMH-1951	Material PVC	Inspected Yes	Installed 1980	Lined	Life 100	Life 2080	Useful Life 58	Year 2080	LF	Unit Cost \$600	t (LF) 239.61	Cost \$143,766	Failure o	of Failure 1	Score 1	Score 1	Criticality Limited Monitoring
SSGM-5083	Gravity Main	F	Harvey Way	8 inch diameter	SSMH-1897	SSMH-1894	PVC	Yes	1979		100	2079	57	2079	LF	\$600	324.02	\$194,412	1	1	1	1	Limited Monitoring
SSGM-5084	Gravity Main	A	Woodlawn Ave XC	8 inch diameter	SSMH-1705	SSMH-1708	PVC	Yes	1979		100	2079	57	2079	LF	\$600	256.38	\$153,828	4	1	4	1	Frequent Monitoring
SSGM-5085 SSGM-5086	Gravity Main Gravity Main	D	Jefferson Dr Boulder Rd	8 inch diameter 8 inch diameter	SSMH-2155 SSMH-1840	SSMH-2152 SSMH-1837	PVC PVC	Yes Yes	1980 1979		100 100	2080 2079	58 57	2080 2079	LF	\$600 \$600	242.01 224.88	\$145,206 \$134,928	1	1	1	1	Limited Monitoring
SSGM-5087	Gravity Main	г Н	Henniker St	10 inch diameter	SSMH-1180	SSMH-1037	PVC	Yes	1979		100	2079	57	2079	LF	\$600	262.2	\$157,320	5	1	5	1	Limited Monitoring Frequent Monitoring
SSGM-5088	Gravity Main	F	Symonds Rd	8 inch diameter	SSMH-1930	SSMH-1927	PVC	Yes	1980		100	2080	58	2080	LF	\$600	320.25	\$192,150	2	1	2	1	Limited Monitoring
SSGM-5089	Gravity Main	В	Bridge St	12 inch diameter	SSMH-1420	SSMH-1411	PVC	No	1979		100	2079	57	2079	LF	\$600	307.76	\$184,656	5	2	10	2	Frequent Monitoring
SSGM-5090	Gravity Main	E	Old Henniker St	8 inch diameter	SSMH-1084	SSMH-1081	PVC	Yes	1980		100	2080	58	2080	LF	\$600	267.89	\$160,734	2	1	2	1	Limited Monitoring
SSGM-5091 SSGM-5092	Gravity Main Gravity Main	C C	Bridge St Wyman St	6 inch diameter 6 inch diameter	SSMH-1450 SSMH-1507	SSMH-1447 SSMH-1498	AC VC	Yes Yes	1940 1940		80 80	2020 2020	-2 -2	2022 2022	LF	\$600 \$600	325.17 309.16	\$195,102 \$185,496	3	1	3	1	Limited Monitoring
SSGM-5092	Gravity Main	A	W Main St	8 inch diameter	SSMH-1654	SSMH-1498	VC	Yes	1940		80	2020	-2	2022	LF	\$600	235.67	\$141,402	4	5.322	21.288	5.322	Highest Risk
SSGM-5094	Gravity Main	F	Bible Hill Rd	8 inch diameter	SSMH-1777	SSMH-1780	PVC	Yes	1979		100	2079	57	2079	LF	\$600	297.83	\$178,698	3	1	3	1	Limited Monitoring
SSGM-5095	Gravity Main	D	Jefferson Dr XC	8 inch diameter	SSMH-2017	SSMH-2014	PVC	Yes	1980		100	2080	58	2080	LF	\$600	120.67	\$72,402	4	1	4	1	Frequent Monitoring
SSGM-5096	Gravity Main	D	Franklin Pierce Hwy XC	8 inch diameter	SSMH-2215	SSMH-2209	PVC	Yes	1980		100	2080	58	2080	LF	\$600	178.92	\$107,352	4 5	1	4	1	Frequent Monitoring
SSGM-5097 SSGM-5098	Gravity Main Gravity Main	G	W Main St Blair Ave XC	12 inch diameter 8 inch diameter	SSMH-1855 SSMH-1195	SSMH-1858 SSMH-1192	PVC PVC	Yes Yes	1979 1979		100 100	2079 2079	57 57	2079 2079	LF	\$600 \$600	314.44 205.08	\$188,664 \$123,048	2 4	1.1	4.4	1.1	Frequent Monitoring
SSGM-5099	Gravity Main	B	Church St	6 inch diameter	SSMH-1375	SSMH-1372	VC	Yes	1940		80	2020	-2	2023	LF	\$600	208.52	\$125,112	4	4.121	16.484	4.121	Highest Risk
SSGM-5100	Gravity Main	В	River St XC	12 inch diameter	SSMH-1015	SSMH-1012	PVC	No	1979		100	2079	57	2079	LF	\$600	200.44	\$120,264	5	2	10	2	Frequent Monitoring
SSGM-5101	Gravity Main	E	Henniker St	12 inch diameter	SSMH-1036	SSMH-1030	PVC	Yes	1979		100	2079	57	2079	LF	\$600	200.63	\$120,378	3	1	3	1	Limited Monitoring
SSGM-5102	Gravity Main	C	Bear Hill Rd	8 inch diameter	SSMH-1474	SSMH-1426	DI	Yes	1979		85	2064	42	2064	LF	\$600 \$600	105.57	\$63,342	3	1 2	3	1	Limited Monitoring
SSGM-5103 SSGM-5103A	Gravity Main Gravity Main	D	Jefferson Dr Madison Cir	8 inch diameter 8 inch diameter	SSMH-2083 SSMH-2083A	SSMH-2083A SSMH-2083B	PVC PVC	No No	1980 1980		100 100	2080 2080	58 58	2080 2080	LF	\$600 \$600	70.26 98.64	\$42,156 \$59,184	1	2	2	2	Limited Monitoring
SSGM-5103B	Gravity Main	D	Madison Cir	8 inch diameter	SSMH-2083B	SSMH-2083C	PVC	No	1980		100	2080	58	2080	LF	\$600	217.25	\$130,350	1	2	2	2	Limited Monitoring
SSGM-5103C	Gravity Main	D	Madison Cir	8 inch diameter	SSMH-2083C	SSMH-2065	PVC	No	1980		100	2080	58	2080	LF	\$600	132.79	\$79,674	1	2	2	2	Limited Monitoring
SSGM-5104	Gravity Main	D	Washington Cir	8 inch diameter	SSMH-2176	SSMH-2173	PVC	Yes	1980	-	100	2080	58	2080	LF	\$600 \$600	268.44	\$161,064	1	1	1	1	Limited Monitoring
SSGM-5105 SSGM-5106	Gravity Main Gravity Main	H	Holman St School St	8 inch diameter Unknown	SSMH-1183 SSMH-1327	SSMH-1273 SSMH-1417	PVC PVC	Yes No	1979 1980		100 100	2079 2080	57 58	2079 2080	LF LF	\$600 \$600	189.16 41.13	\$113,496 \$24,678	5	1	5	1	Frequent Monitoring
SSGM-5107	Gravity Main	G	W Main St	12 inch diameter	SSMH-1327 SSMH-1735	SSMH-1417 SSMH-1684	PVC	Yes	1980		100	2080	57	2080	LF	\$600	224.95	\$134,970	5	1	5	1	Frequent Monitoring
SSGM-5108	Gravity Main	В	School St	6 inch diameter	SSMH-1387	SSMH-1393	VC	Yes	1940		80	2020	-2	2022	LF	\$600	286.4	\$171,840	4	2.1	8.4	2.1	Frequent Monitoring
SSGM-5109	Gravity Main	H	Park St	8 inch diameter	UNK-004	SSMH-1282	VC	Yes	1940		80	2020	-2	2022	LF	\$600	238.64	\$143,184	2	5	10	5	Priority Renewal
SSGM-5110	Gravity Main	E	Preston St	8 inch diameter	SSMH-1103	SSMH-1102	VC	Yes	1940	2016	50	2066	44	2066	LF	\$600	327.11	\$196,266	3	1	3	1	Limited Monitoring
SSGM-5111 SSGM-5112	Gravity Main Gravity Main	D	Union St Jefferson Dr XC	6 inch diameter 8 inch diameter	SSMH-1477 SSMH-2026	SSMH-1471 SSMH-2023	VC PVC	Yes Yes	1940 1980		80 100	2020 2080	-2 58	2023 2080	LF LF	\$600 \$600	315.11 250.95	\$189,066 \$150,570	4	4.133	4.133	4.133	Priority Renewal Frequent Monitoring
	Gravity Main	C	Bear Hill Rd	8 inch diameter	SSMH-1576	SSMH-1579	VC	Yes	1940	2021	50	2071	49	2071	LF	\$600	110.78	\$66,468	4	1	4	1	Frequent Monitoring
SSGM-5114	Gravity Main	E	Norton Dr	18 inch diameter	SSMH-1996	WWTP	DI	No	1984		85	2069	47	2069	LF	\$600	297.7	\$178,620	5	1	5	1	Frequent Monitoring
SSGM-5115	Gravity Main	G	W Main St	12 inch diameter	SSMH-1876	SSMH-1879	PVC	Yes	1979		100	2079	57	2079	LF	\$600	282.38	\$169,428	5	1	5	1	Frequent Monitoring
SSGM-5116 SSGM-5117	Gravity Main Gravity Main	E C	Henniker St Bear Hill Rd	12 inch diameter 6 inch diameter	SSMH-1045 SSMH-1594	SSMH-1042 SSMH-1600	PVC PVC	Yes Yes	1979 1980		100 100	2079 2080	57 58	2079 2080	LF	\$600 \$600	405.91 286.22	\$243,546 \$171,732	3 2	1	3	1	Limited Monitoring
SSGM-5118	Gravity Main	C	Briggs St	6 inch diameter	SSMH-1513	SSMH-1510	VC	Yes	1940		80	2020	-2	2022	LF	\$600	150.92	\$90,552	1	3.4	3.4	3.4	Frequent Monitoring
	Gravity Main	D	Blair Ave XC	8 inch diameter	SSMH-2071	SSMH-2038	PVC	Yes	1980		100	2080	58	2080	LF	\$600	210.81	\$126,486	4	1	4	1	Frequent Monitoring
SSGM-5121	Gravity Main	В	Church St	8 inch diameter	SSMH-2248	SSMH-1378	VC	Yes	1940		80	2020	-2	2022	LF	\$600	123.82	\$74,292	4	1	4	1	Frequent Monitoring
	Gravity Main	E	Norton Dr Easement	18 inch diameter	SSMH-1066	SSMH-1033	PVC PVC	Yes	1979 1979		100 100	2079 2079	57 57	2079 2079	LF	\$600 \$600	255.8 127.27	\$153,480	5	1	5	1	Frequent Monitoring
	Gravity Main Gravity Main	H	Holman St Holman St	10 inch diameter 10 inch diameter	SSMH-1180A SSMH-1261	SSMH-1180 SSMH-1180A	PVC	Yes Yes	1979		100	2079	57	2079	LF LF	\$600 \$600	212.63	\$76,362 \$127,578	5	1	5	1	Frequent Monitoring
SSGM-5124	Gravity Main	A	Willow Rock Rd XC	8 inch diameter	SSMH-2263	SSMH-2260	PVC	Yes	1980		100	2080	58	2080	LF	\$600	202.15	\$121,290	4	1	4	1	Frequent Monitoring
SSGM-5125	Gravity Main	E	Cross St	6 inch diameter	SSMH-1117	SSFT-004	VC	Yes	1940		80	2020	-2	2022	LF	\$600	241.8	\$145,080	2	5.241	10.482	5.241	Priority Renewal
SSGM-5126	Gravity Main	C	Summer St	6 inch diameter	SSMH-1465	SSMH-1438	VC	Yes	1940		80	2020	-2	2022	LF	\$600	290.35	\$174,210	1	5.238	5.238	5.238	Priority Renewal
	Gravity Main Gravity Main	A	Myrtle St W Mill St	8 inch diameter 8 inch diameter	SSMH-1687 SSMH-1567	SSMH-1699 SSMH-1570	PVC VC	Yes Yes	1979 1940		100 80	2079 2020	57 -2	2079 2022	LF LF	\$600 \$600	195.61 147.83	\$117,366 \$88,698	4	1	4	1	Frequent Monitoring Priority Renewal
	Gravity Main	D	Jefferson Dr	8 inch diameter	SSMH-2107	SSMH-2113	PVC	No	1940		100	2020	58	2022	LF	\$600	193.16	\$115,896	1	2	2	2	Limited Monitoring
SSGM-5130		E	Norton Dr	12 inch diameter	SSMH-1027	SSMH-1033	PVC	Yes	1979		100	2079	57	2079	LF	\$600	320.08	\$192,048	5	1	5	1	Frequent Monitoring
	Gravity Main	В	Pleasant St	6 inch diameter	SSMH-1366	SSMH-1390	VC	Yes	1940		80	2020	-2	2023	LF	\$600	466.33	\$279,798	2	4.334	8.668	4.334	Priority Renewal
	Gravity Main Gravity Main	F	Harvey Way Central St	8 inch diameter 6 inch diameter	SSMH-1894 SSMH-1324	SSMH-1891 SSMH-1321	PVC VC	Yes Yes	1979 1940		100 80	2079 2020	57 -2	2079 2022	LF LF	\$600 \$600	343.87 279.63	\$206,322 \$167,778	1 4	1 5	1 20	1 5	Limited Monitoring Highest Risk
	Gravity Main	G	W Main St	12 inch diameter	SSMH-1324 SSMH-1846	SSMH-1321 SSMH-1849	PVC	Yes	1940		100	2020	-2 57	2022	LF	\$600	177.44	\$107,778	5	5	5	1	Frequent Monitoring
	Gravity Main	H	Whittemore St	6 inch diameter	SSMH-1282	SSMH-1276	VC	Yes	1940		80	2020	-2	2022	LF	\$600	352.47	\$211,482	2	5	10	5	Priority Renewal
SSGM-5138	Gravity Main	С	Prospect St	6 inch diameter	SSMH-1432	SSMH-1597	VC	Yes	1940		80	2020	-2	2022	LF	\$600	468.76	\$281,256	1	5.2	5.2	5.2	Priority Renewal
SSGM-5139	Gravity Main	C	W Mill St	8 inch diameter	SSMH-1555	SSMH-1558	VC	Yes	1940		80	2020	-2	2022	LF	\$600	334.19	\$200,514	2	5	10	5	Priority Renewal
	Gravity Main Gravity Main	F	Bible Hill Rd McNeil Rd	8 inch diameter 8 inch diameter	SSMH-1798 SSMH-1903	SSMH-1831 SSMH-1900	PVC PVC	Yes Yes	1980 1980		100 100	2080 2080	58 58	2080 2080	LF LF	\$600 \$600	296.58 102.46	\$177,948 \$61,476	2 3	1	2 3	1	Limited Monitoring
	Gravity Main	F	Windsor Terrace	8 inch diameter	SSMH-1810	SSMH-1807	PVC	Yes	1980		100	2030	57	2000	LF	\$600	355.89	\$213,534	1	1	1	1	Limited Monitoring
SSGM-5144	Gravity Main	G	W Main St	12 inch diameter	SSMH-1864	SSMH-1870	PVC	No	1979		100	2079	57	2079	LF	\$600	248.79	\$149,274	5	2	10	2	Frequent Monitoring
	Gravity Main	F	W Main St	12 inch diameter	SSMH-1786	SSMH-1783	PVC	Yes	1979		100	2079	57	2079	LF	\$600	193.02	\$115,812	5	1	5	1	Frequent Monitoring
	Gravity Main	G	W Main St	12 inch diameter	SSMH-1645 SSMH-2041	SSMH-1684 SSMH-2035	PVC PVC	Yes	1979	<u></u>	100 100	2079 2080	57 58	2079 2080	LF LF	\$600 \$600	371.93 315.7	\$223,158 \$189,420	5	1 2.3	5 6.9	1 2.3	Frequent Monitoring
SSGM-5147 SSGM-5148	Gravity Main Gravity Main	D	Jefferson Dr XC Jefferson Dr XC	8 inch diameter 8 inch diameter	SSMH-2041 SSMH-2119	SSMH-2035 SSMH-2026	PVC	Yes No	1980 1980		100	2080	58	2080	LF	\$600 \$600	315.7	\$189,420 \$106,626	3	2.3	6.9	2.3	Limited Monitoring
	Gravity Main	H	Henniker St	10 inch diameter	SSMH-1090	SSMH-1030	DI	Yes	1979		85	2064	42	2064	LF	\$600	54.8	\$32,880	5	1	5	1	Frequent Monitoring
SSGM-5150	Gravity Main	A	Willow Rock Rd	8 inch diameter	SSMH-2260	SSMH-2257	PVC	Yes	1980		100	2080	58	2080	LF	\$600	164.19	\$98,514	4	1	4	1	Frequent Monitoring
SSGM-5151	Gravity Main	F	Meeting Hill Rd	8 inch diameter	SSMH-1960	SSMH-1957	PVC	Yes	1980	-	100	2080	58	2080	LF	\$600	154.49	\$92,694	1	1	1	1	Limited Monitoring
	Gravity Main Gravity Main	A D	Myrtle St Jefferson Dr XC	8 inch diameter 8 inch diameter	SSMH-1690 SSMH-2062	SSMH-1687 SSMH-2059	PVC PVC	Yes No	1979 1980		100 100	2079 2080	57 58	2079 2080	LF LF	\$600 \$600	92.68 252.66	\$55,608 \$151,596	2	1 2	1 4	1 2	Limited Monitoring
	Gravity Main Gravity Main	F	Gibson Rd	8 inch diameter	SSMH-2062 SSMH-1942	SSMH-2059 SSMH-1909	PVC	Yes	1980		100	2080	58	2080	LF	\$600	99.64	\$151,596	1	1	4	1	Limited Monitoring
	Gravity Main	D	Jefferson Dr	8 inch diameter	SSMH-2137	SSMH-2134	PVC	Yes	1980		100	2080	58	2080	LF	\$600	257.03	\$154,218	2	1	2	1	Limited Monitoring
	Gravity Main	F	Meeting Hill Rd	8 inch diameter	SSMH-1936	SSMH-1933	PVC	Yes	1980		100	2080	58	2080	LF	\$600	260.73	\$156,438	1	1	1	1	Limited Monitoring
	Gravity Main	B	School St	8 inch diameter	SSMH-1393	SSMH-1993	VC	Yes	1940		80	2020	-2	2022	LF	\$600 \$600	354.18	\$212,508	4	1	4	1	Frequent Monitoring
SSGM-5158	Gravity Main Gravity Main	B	River St Park St	10 inch diameter 6 inch diameter	SSMH-1360 SSMH-1285	SSMH-1315 SSMH-1282	PVC VC	Yes Yes	1979 1940		100 80	2079 2020	57 -2	2079 2022	LF LF	\$600 \$600	66.54 241.39	\$39,924 \$144,834	2	1 5	5 10	1 5	Frequent Monitoring Priority Renewal
SSGM-5159			i an ot	5 mon alumeter			PVC	Yes	1940		100	2020	58	2022	LF	\$600	126.32	\$75,792	2	1	2	1	
	Gravity Main	E	Preston St	8 inch diameter	SSMH-1129	SSMH-1120	1.00	100	1000		100	2000	50	2000		φ000	120.02	Ψ10,10L			2	1	Limited Monitoring
SSGM-5160	Gravity Main Gravity Main	E A D	Preston St Church St Jefferson Dr	8 inch diameter 6 inch diameter 8 inch diameter	SSMH-1129 SSMH-1675 SSMH-2128	SSMH-1120 SSMH-1999 SSMH-2125	VC PVC	Yes	1940 1980		80 100	2020 2080	-2 58	2022 2080	LF	\$600	296.21 160.92	\$177,726 \$96,552	2 3	2.3	4.6	2.3	Limited Monitoring Limited Monitoring Limited Monitoring

				со	ST OF AS	SSET REF	PLACEME	NT - FIRST		ARS							COST	OF ASSET RE	PLACEMENT -	NEXT 100 YEA	RS			
Hillsborough Collection Syst	em Pipe Data T	able	Year 1	Year 2						Year 8 Y	ear 9 Yea	ar 10 0) - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100	0 - 100	
Asset ID Asset Type	Sewer Basin	Street	2022	2023	2024	2025	2026	2027	2028	2029 2	2030 20	131 202	22-2031	2032-2041	2042-2051	2052-2061	2062-2071	2072-2082	2082-2091	2092-2101	2102-2111	2112-2121	2022-2121	100-Yr Replacement Count
SSGM-5082 Gravity Main	F	Gibson Rd	2022	2020	2024	2020	2020	2021	2020	2023 2	2000 20	202	2-2001	2002-2041	2042-2001	2002-2001	2002-2011	\$143,766	2002-2031	2032-2101	2102-2111		\$143,766	1
SSGM-5083 Gravity Main	F	Harvey Way																\$194,412					\$194,412	1
SSGM-5084 Gravity Main SSGM-5085 Gravity Main	A	Woodlawn Ave XC Jefferson Dr																\$153,828 \$145,206					\$153,828 \$145,206	1
SSGM-5086 Gravity Main	F	Boulder Rd																\$134,928					\$134,928	1
SSGM-5087 Gravity Main	Н	Henniker St																\$157,320					\$157,320	1
SSGM-5088 Gravity Main	F	Symonds Rd																\$192,150					\$192,150	1
SSGM-5089 Gravity Main SSGM-5090 Gravity Main	E	Bridge St Old Henniker St																\$184,656 \$160,734					\$184,656 \$160,734	1
SSGM-5091 Gravity Main	C	Bridge St	\$195,102									\$19	95,102					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					\$195,102	1
SSGM-5092 Gravity Main	С	Wyman St	\$185,496										85,496										\$185,496	1
SSGM-5093 Gravity Main SSGM-5094 Gravity Main	A	W Main St Bible Hill Rd	\$141,402									\$14	41,402					\$178,698					\$141,402 \$178,698	1
SSGM-5095 Gravity Main	D	Jefferson Dr XC																\$72,402					\$72,402	1
SSGM-5096 Gravity Main	D	Franklin Pierce Hwy XC																\$107,352					\$107,352	1
SSGM-5097 Gravity Main SSGM-5098 Gravity Main	G	W Main St Blair Ave XC																\$188,664 \$123,048					\$188,664 \$123,048	1
SSGM-5099 Gravity Main	B	Church St		\$125,112								\$12	25,112					φ120,0 4 0					\$125,112	1
SSGM-5100 Gravity Main	В	River St XC]										,					\$120,264					\$120,264	1
SSGM-5101 Gravity Main	E	Henniker St															¢60.040	\$120,378					\$120,378	1
SSGM-5102 Gravity Main SSGM-5103 Gravity Main	C D	Bear Hill Rd Jefferson Dr															\$63,342	\$42,156					\$63,342 \$42,156	1
SSGM-5103A Gravity Main	D	Madison Cir																\$59,184					\$59,184	1
SSGM-5103B Gravity Main	D	Madison Cir																\$130,350					\$130,350	1
SSGM-5103C Gravity Main SSGM-5104 Gravity Main	D	Madison Cir Washington Cir																\$79,674 \$161,064					\$79,674 \$161,064	1
SSGM-5104 Gravity Main	H	Holman St																\$101,004					\$113,496	1
SSGM-5106 Gravity Main	В	School St																\$24,678					\$24,678	1
SSGM-5107 Gravity Main SSGM-5108 Gravity Main	GB	W Main St School St	\$171,840									¢4-	71,840					\$134,970					\$134,970 \$171,840	1
SSGM-5108 Gravity Main SSGM-5109 Gravity Main	В	Park St	\$171,840										43,184										\$171,840	1
SSGM-5110 Gravity Main	E	Preston St	¢110,101										10,101				\$196,266						\$196,266	1
SSGM-5111 Gravity Main	С	Union St		\$189,066								\$18	89,066										\$189,066	1
SSGM-5112 Gravity Main SSGM-5113 Gravity Main	D C	Jefferson Dr XC Bear Hill Rd															\$66,468	\$150,570					\$150,570 \$66,468	1
SSGM-5113 Gravity Main	E	Norton Dr															\$178.620						\$178,620	1
SSGM-5115 Gravity Main	G	W Main St																\$169,428					\$169,428	1
SSGM-5116 Gravity Main	E	Henniker St																\$243,546					\$243,546	1
SSGM-5117 Gravity Main SSGM-5118 Gravity Main	C C	Bear Hill Rd Briggs St	\$90,552									\$9	90.552					\$171,732					\$171,732 \$90,552	1
SSGM-5120 Gravity Main	D	Blair Ave XC	\$00,00L									φυ	00,002					\$126,486					\$126,486	1
SSGM-5121 Gravity Main	В	Church St	\$74,292									\$7	74,292					.					\$74,292	1
SSGM-5122 Gravity Main SSGM-5123 Gravity Main	E	Norton Dr Easement Holman St																\$153,480 \$76,362					\$153,480 \$76,362	1
SSGM-5123 Gravity Main	H	Holman St																\$127,578					\$127,578	1
SSGM-5124 Gravity Main	A	Willow Rock Rd XC																\$121,290					\$121,290	1
SSGM-5125 Gravity Main	E	Cross St	\$145,080										45,080										\$145,080	1
SSGM-5126 Gravity Main SSGM-5127 Gravity Main	C A	Summer St Myrtle St	\$174,210									\$1.	74,210					\$117.366					\$174,210 \$117,366	1
SSGM-5128 Gravity Main	C	W Mill St	\$88,698									\$8	38,698					φ117,000					\$88,698	1
SSGM-5129 Gravity Main	D	Jefferson Dr																\$115,896					\$115,896	1
SSGM-5130 Gravity Main SSGM-5131 Gravity Main	E B	Norton Dr Pleasant St		\$279,798								¢ე	79,798					\$192,048					\$192,048 \$279,798	1
SSGM-5131 Gravity Main	F	Harvey Way		φ <i>219,19</i> 0								φ 2	19,190					\$206,322					\$206,322	1
SSGM-5133 Gravity Main	B	Central St	\$167,778									\$16	67,778										\$167,778	1
SSGM-5136 Gravity Main	G	W Main St	¢011.100										11 490					\$106,464					\$106,464	1
SSGM-5137 Gravity Main SSGM-5138 Gravity Main	H C	Whittemore St Prospect St	\$211,482 \$281,256										11,482 81,256										\$211,482 \$281,256	1
SSGM-5139 Gravity Main	C	W Mill St	\$200,514										00,514										\$200,514	1
SSGM-5140 Gravity Main	F	Bible Hill Rd																\$177,948					\$177,948	1
SSGM-5142 Gravity Main SSGM-5143 Gravity Main	F	McNeil Rd Windsor Terrace																\$61,476 \$213,534					\$61,476 \$213,534	1
SSGM-5143 Gravity Main SSGM-5144 Gravity Main	G	Windsor Terrace W Main St																\$213,534 \$149,274					\$149,274	1
SSGM-5145 Gravity Main	F	W Main St																\$115,812					\$115,812	1
SSGM-5146 Gravity Main	G	W Main St																\$223,158					\$223,158	1
SSGM-5147 Gravity Main SSGM-5148 Gravity Main	D D	Jefferson Dr XC Jefferson Dr XC																\$189,420 \$106,626					\$189,420 \$106,626	1
SSGM-5149 Gravity Main	H	Henniker St															\$32,880	÷ 100,020					\$32,880	1
SSGM-5150 Gravity Main	A	Willow Rock Rd																\$98,514					\$98,514	1
SSGM-5151 Gravity Main SSGM-5152 Gravity Main	F	Meeting Hill Rd Myrtle St																\$92,694 \$55,608					\$92,694 \$55,608	1
SSGM-5152 Gravity Main SSGM-5153 Gravity Main	A D	Jefferson Dr XC																\$55,608 \$151,596					\$55,608 \$151,596	1
SSGM-5154 Gravity Main	F	Gibson Rd																\$59,784					\$59,784	1
SSGM-5155 Gravity Main	D	Jefferson Dr																\$154,218					\$154,218	1
SSGM-5156 Gravity Main SSGM-5157 Gravity Main	F B	Meeting Hill Rd School St	\$212,508									\$2	12,508					\$156,438					\$156,438 \$212,508	1
SSGM-5157 Gravity Main	B	River St	ψ212,000									φZ	12,000					\$39,924					\$39,924	1
SSGM-5159 Gravity Main	Н	Park St	\$144,834									\$14	44,834										\$144,834	1
SSGM-5160 Gravity Main	E	Preston St Church St	¢177 700									¢.4-	77 706					\$75,792					\$75,792	1
SSGM-5161 Gravity Main SSGM-5162 Gravity Main	A D	Jefferson Dr	\$177,726									\$1.	77,726					\$96,552					\$177,726 \$96,552	1
			1	1													1	430,33Z	I	1			ψ50,552	

lillsborough C	Collection Syste	em Pipe Data Ta	able		Unstroom	Downstreem			Voar	Voar	lleoful		Pomaining	Poplacoment			Longth	Poplacoment	Impact of	Probability		Condition	
Asset ID	Asset Type	Sewer Basin	Street	Diameter	Upstream Manhole	Downstream Manhole	Material	Inspected	Year Installed	Year Lined	Useful Life	End Useful Life	Remaining Useful Life	Replacement Year	Unit Un	nit Cost	Length (LF)	Replacement Cost	Impact of Failure	Probability of Failure		Score	Criticality
SSGM-5163	Gravity Main	D	Franklin Pierce Hwy XC	8 inch diameter	SSMH-2179	SSMH-2146	PVC	Yes	1980		100	2080	58	2080		\$600	306.39	\$183,834	4	1	4	1	Frequent Monitoring
SSGM-5164	Gravity Main	B	Myrtle St	8 inch diameter	SSMH-1345 SSMH-1363	SSMH-1342	VC	Yes	1940		80	2020	-2	2022 2022		\$600	201.56 456.5	\$120,936	4	2.2	8.8	2.2	Frequent Monitoring
SSGM-5165 SSGM-5166		B H	Central St Henniker St	6 inch diameter 10 inch diameter	SSMH-1363 SSMH-1159	SSMH-1342 SSMH-1156	VC VC	Yes Yes	1940 1940	2016	80 50	2020 2066	-2 44	2022		\$600 \$600	456.5 258.84	\$273,900 \$155,304	2	5.121	10.242	5.121 1	Priority Renewal Limited Monitoring
SSGM-5167	Gravity Main	F	Bible Hill Rd	12 inch diameter	SSMH-1984	SSMH-1987	PVC	Yes	1980	2010	100	2080	58	2080		\$600	142.62	\$85,572	3	1	3	1	Limited Monitoring
SSGM-5168	,	E	Depot St	6 inch diameter	SSMH-1111	SSFT-004	VC	Yes	1940		80	2020	-2	2022		\$600	242.69	\$145,614	1	3.313	3.313	3.313	Frequent Monitoring
SSGM-5169 SSGM-5170		A C	Woodlawn Ave Bear Hill Rd	8 inch diameter 8 inch diameter	SSMH-1726 SSMH-1600	SSMH-1702 SSMH-1603	PVC PVC	Yes Yes	1979 1979		100 100	2079 2079	57 57	2079 2079		\$600 \$600	150.7 133.82	\$90,420 \$80,292	2	1	2	1	Limited Monitoring
SSGM-5170	Gravity Main	C	Bear Hill Rd	10 inch diameter	SSMH-1600 SSMH-1588	SSMH-1603	VC	Yes	1979	2021	50	2079	49	2079		\$600	152.4	\$91,440	4	1	4	1	Frequent Monitoring
SSGM-5172		D	Jefferson Dr	8 inch diameter	SSMH-2047	SSMH-2044	PVC	Yes	1980		100	2080	58	2080		\$600	133.2	\$79,920	2	1	2	1	Limited Monitoring
SSGM-5173	,	D	Jefferson Dr	8 inch diameter	SSMH-2149	SSMH-2143	PVC	Yes	1980		100	2080	58	2080		\$600	223.89	\$134,334	1	1	1	1	Limited Monitoring
SSGM-5174 SSGM-5176		HB	Henniker St River St	10 inch diameter 12 inch diameter	SSMH-1168 SSMH-1408	SSMH-1165 SSMH-1405	PVC PVC	Yes Yes	1979 1979		100 100	2079 2079	57 57	2079 2079		\$600 \$600	197.73 96.89	\$118,638 \$58,134	5	1	5	1	Frequent Monitoring
SSGM-5177	Gravity Main	F	Symonds Rd	8 inch diameter	SSMH-1918	SSMH-1405	PVC	Yes	1979		100	2073	58	2079		\$600	169.9	\$101,940	2	1	2	1	Limited Monitoring
SSGM-5178	,	I	Blair Ave	8 inch diameter	SSMH-1201	SSMH-1198	PVC	Yes	1979		100	2079	57	2079		\$600	252.38	\$151,428	4	1	4	1	Frequent Monitoring
SSGM-5179	,	E	Old Henniker St	8 inch diameter	SSMH-1078	SSMH-1075	PVC	Yes	1980		100	2080	58	2080		\$600	206.13	\$123,678	2	1	2	1	Limited Monitoring
SSGM-5180 SSGM-5181	Gravity Main Gravity Main	F	McNeil Rd W Main St	8 inch diameter 12 inch diameter	SSMH-1825 SSMH-1795	SSMH-1822 SSMH-1792	PVC PVC	Yes Yes	1979 1979		100 100	2079 2079	57 57	2079 2079		\$600 \$600	127.41 205.14	\$76,446 \$123,084	3	1	3	1	Limited Monitoring Frequent Monitorin
SSGM-5182	,	C	Bridge St	6 inch diameter	SSMH-1444	SSMH-1441	VC	Yes	1940		80	2020	-2	2022		\$600	284.03	\$170,418	3	5.133	15.399	5.133	Priority Renewal
SSGM-5183		A	Butler St	8 inch diameter	SSMH-1990	SSMH-1666	PVC	Yes	1980		100	2080	58	2080		\$600	87.37	\$52,422	2	1	2	1	Limited Monitoring
SSGM-5184	Gravity Main	C D	Wyman St	6 inch diameter	SSMH-1495	SSMH-1489	PVC	Yes	1980		100	2080	58	2080		\$600	39.08	\$23,448	2	1	2	1	Limited Monitoring
SSGM-5185 SSGM-5186	Gravity Main Gravity Main	D	Madison Cir Franklin Pierce Hwy XC	8 inch diameter 8 inch diameter	SSMH-2068 SSMH-2212	SSMH-2065 SSMH-2206	PVC PVC	Yes Yes	1980 1980		100 100	2080 2080	58 58	2080 2080		\$600 \$600	273.73 436.42	\$164,238 \$261,852	1 4	1 2.3	9.2	2.3	Limited Monitoring Frequent Monitorin
SSGM-5187	Gravity Main	1	Gay Ave XC	8 inch diameter	SSMH-1189	SSMH-1186	PVC	Yes	1979		100	2079	57	2079		\$600	357.35	\$214,410	4	1	4	1	Frequent Monitorin
SSGM-5188	Gravity Main	В	Church St	6 inch diameter	SSMH-1369	SSMH-1351	VC	Yes	1940		80	2020	-2	2023		\$600	333.11	\$199,866	4	4.231	16.924	4.231	Highest Risk
SSGM-5189 SSGM-5190	Gravity Main Gravity Main	E	Preston St XC Henniker St	12 inch diameter 12 inch diameter	SSMH-1009 SSMH-1069	SSMH-1252 SSMH-1063	PVC PVC	No Yes	1979 1979		100 100	2079 2079	57 57	2079 2079		\$600 \$600	236.75 189.59	\$142,050 \$113,754	5	2	10	2	Frequent Monitoring
SSGM-5190 SSGM-5191	Gravity Main Gravity Main	E	Preston St	8 inch diameter	SSMH-1069 SSMH-1102	SSMH-1063 SSMH-1096	VC	Yes	1979	2021	50	2079	57 49	2079		\$600	189.59	\$113,754 \$110,682	3	1	3	1	Limited Monitoring
SSGM-5192	Gravity Main	Ā	Woodlawn Ave XC	8 inch diameter	SSMH-1708	SSMH-1711	PVC	Yes	1979		100	2079	57	2079	LF	\$600	245.05	\$147,030	4	1	4	1	Frequent Monitoring
SSGM-5193	Gravity Main	С	River St XC	10 inch diameter	SSMH-1006	SSMH-1309	PVC	Yes	1980		100	2080	58	2080		\$600	317.56	\$190,536	5	1	5	1	Frequent Monitoring
SSGM-5194 SSGM-5195	Gravity Main Gravity Main	C D	Bear Hill Rd Jefferson Dr	10 inch diameter 8 inch diameter	SSMH-1579 SSMH-2056	SSMH-1585 SSMH-2053	VC PVC	Yes No	1940 1980	2021	50 100	2071 2080	49 58	2071 2080		\$600 \$600	114.2 176.21	\$68,520 \$105,726	4	1	4	1	Frequent Monitoring
SSGM-5195	Gravity Main	F	Bible Hill Rd	8 inch diameter	SSMH-1906	SSMH-1939	PVC	Yes	1980		100	2080	58	2080		\$600	311.24	\$186,744	3	1	3	1	Limited Monitoring
SSGM-5197	Gravity Main	B	Henniker St	8 inch diameter	SSMH-1414	SSMH-1420	PVC	No	1980		100	2080	58	2080		\$600	68.82	\$41,292	5	2	10	2	Frequent Monitoring
SSGM-5198	Gravity Main	В	School St	8 inch diameter	SSMH-1993	SSMH-1333	VC	Yes	1940		80	2020	-2	2022		\$600	149.96	\$89,976	4	1	4	1	Frequent Monitoring
SSGM-5199 SSGM-5200	Gravity Main Gravity Main	E C	Old Henniker St Hill St	8 inch diameter 8 inch diameter	SSMH-1087 SSMH-1453	SSMH-1084 SSMH-1450	PVC PVC	Yes Yes	1980 1980		100 100	2080 2080	58 58	2080 2080		\$600 \$600	237.13 274.19	\$142,278 \$164,514	2	1	2	1	Limited Monitoring
SSGM-5200	Gravity Main	A	Church St	6 inch diameter	SSMH-1433	SSFT-001	VC	Yes	1980		80	2020	-2	2022		\$600	24.37	\$14,622	2	1	2	1	Limited Monitoring
SSGM-5202	Gravity Main	A	W Main St	6 inch diameter	SSMH-1657	SSMH-1657A	VC	Yes	1940		80	2020	-2	2022		\$600	54.61	\$32,766	4	5.232	20.928	5.232	Highest Risk
SGM-5202A		A	W Main St	6 inch diameter	SSMH-1657A	SSMH-1654	VC	No	1940		80	2020	-2	2022		\$600	513.82	\$308,292	4	5	20	5	Highest Risk
SSGM-5203 SSGM-5204	Gravity Main Gravity Main	F D	Gibson Rd Jefferson Dr XC	8 inch diameter 8 inch diameter	SSMH-1951 SSMH-2020	SSMH-1948 SSMH-2017	PVC PVC	Yes No	1980 1980		100 100	2080 2080	58 58	2080 2080		\$600 \$600	307.8 154.55	\$184,680 \$92,730	1 4	1	1	1	Limited Monitoring
SSGM-5205	Gravity Main	D	Jefferson Dr XC	8 inch diameter	SSMH-2008	SSMH-2215	PVC	Yes	1980		100	2080	58	2080		\$600	153.32	\$91,992	4	1	4	1	Frequent Monitoring
SSGM-5206	Gravity Main	F	Boulder Rd	8 inch diameter	SSMH-1837	SSMH-1834	PVC	Yes	1979		100	2079	57	2079		\$600	231.71	\$139,026	1	1	1	1	Limited Monitoring
SSGM-5207	Gravity Main	F	Symonds Rd	8 inch diameter	SSMH-1927	SSMH-1924	PVC	Yes	1980		100	2080	58	2080		\$600	174.1	\$104,460	2	1	2	1	Limited Monitoring
SSGM-5208 SSGM-5209	Gravity Main Gravity Main	B	River St Blair Ave	12 inch diameter 8 inch diameter	SSMH-1018 SSMH-1210	SSMH-1015 SSMH-1207	PVC PVC	No Yes	1979 1979		100 100	2079 2079	57 57	2079 2079		\$600 \$600	182.09 257.01	\$109,254 \$154,206	5	2	10	2	Frequent Monitorin
SSGM-5210		Ē	Henniker St	12 inch diameter	SSMH-1039	SSMH-1036	PVC	Yes	1979		100	2079	57	2079		\$600	326.81	\$196,086	3	1	3	1	Limited Monitoring
SSGM-5211	Gravity Main	С	Bear Hill Rd	8 inch diameter	SSMH-1525	SSMH-1474	DI	Yes	1979		85	2064	42	2064		\$600	218.44	\$131,064	3	1	3	1	Limited Monitoring
SSGM-5212		D	Jefferson Dr	8 inch diameter	SSMH-2086	SSMH-2083	PVC	No	1980		100	2080	58	2080		\$600	181.93	\$109,158	1	2	2	2	Limited Monitoring
	Gravity Main Gravity Main	G	Bible Hill Rd W Main St	8 inch diameter 12 inch diameter	SSMH-1780 SSMH-1783	SSMH-1783 SSMH-1783A	PVC PVC	Yes No	1979 1979		100 100	2079 2079	57 57	2079 2079		\$600 \$600	106.11 26.4	\$63,666 \$15,840	3	1	10	2	Limited Monitoring Frequent Monitoring
	Gravity Main	D	Washington Cir	8 inch diameter	SSMH-2182	SSMH-2176	PVC	Yes	1980		100	2079	58	2080		\$600 \$600	268.81	\$161,286	1	1	1	1	Limited Monitoring
SSGM-5216	Gravity Main	D	Holman St XC	8 inch diameter	SSMH-2005	SSMH-1183	PVC	Yes	1980		100	2080	58	2080	LF	\$600	318.06	\$190,836	4	1	4	1	Frequent Monitorin
SSGM-5217		B	School St	8 inch diameter	SSMH-1330	SSMH-1327	PVC	No	1979		100	2079	57	2079		\$600 \$600	73.48	\$44,088	5	1	5 16.4	1	Frequent Monitoring
	Gravity Main Gravity Main	BH	School St Park St	6 inch diameter 6 inch diameter	SSMH-1396 UNK-001	SSMH-1387 UNK-001	VC VC	Yes No	1940 1980		80 80	2020 2060	-2 38	2023 2060		\$600 \$600	309.6 181.31	\$185,760 \$108,786	4	4.1	16.4	4.1 2	Highest Risk Limited Monitoring
SSGM-5220		E	Depot St	6 inch diameter	SSMH-1108	SSMH-1105	VC	Yes	1940		80	2020	-2	2022	LF :	\$600	345.33	\$207,198	3	5.134	15.402	5.134	Priority Renewal
SSGM-5221	Gravity Main	С	Union St	6 inch diameter	SSMH-1480	SSMH-1477	VC	Yes	1940		80	2020	-2	2022		\$600	390.9	\$234,540	1	5	5	5	Priority Renewal
SSGM-5222 SSGM-5223		D	Jefferson Dr XC Jefferson Dr	8 inch diameter 8 inch diameter	SSMH-2029 SSMH-2116	SSMH-2026 SSMH-2119	PVC PVC	Yes No	1980 1980		100 100	2080 2080	58 58	2080 2080		\$600 \$600	207.18 164.68	\$124,308 \$98,808	3	2.2	6.6 2	2.2	Limited Monitoring
SSGM-5223 SSGM-5224		E	Norton Dr	18 inch diameter		SSMH-2119 SSMH-1003	PVC	Yes	1980		100	2080	58	2080		\$600	279.88	\$98,808 \$167,928	5	2	5	1	Limited Monitoring Frequent Monitoring
SSGM-5225	Gravity Main	G	W Main St	Unknown	SSMH-1639	SSMH-1630	VC	No	1940		80	2020	-2	2022	LF	\$600	276.17	\$165,702	4	3	12	3	Frequent Monitoring
SSGM-5226		B	Walnut St	6 inch diameter	SSMH-1384	SSMH-1387	AC	Yes	1940		80	2020	-2	2022		\$600	324.34	\$194,604	2	2.2	4.4	2.2	Limited Monitoring
SSGM-5227 SSGM-5228		E C	Henniker St Hill St	12 inch diameter 8 inch diameter	SSMH-1048 SSMH-1459	SSMH-1045 SSMH-1462	PVC PVC	Yes Yes	1979 1980		100 100	2079 2080	57 58	2079 2080		\$600 \$600	324.72 208.3	\$194,832 \$124,980	3	1	3	1	Limited Monitoring
SSGM-5228		C	High St	6 inch diameter	SSMH-1459	SSMH-1402 SSMH-1513	VC	Yes	1980		80	2080	-2	2022		\$600	70.42	\$42,252	1	3.1	3.1	3.1	Frequent Monitoring
SSGM-5230	Gravity Main	A	Butler St	8 inch diameter	SSMH-1660	SSMH-1657	PVC	Yes	1980		100	2080	58	2080	LF	\$600	236.99	\$142,194	2	1	2	1	Limited Monitoring
SSGM-5231		D	Jefferson Dr	8 inch diameter	SSMH-2101	SSMH-2044	PVC	No	1980		100	2080	58	2080		\$600	234.81	\$140,886	1	2	2	2	Limited Monitoring
SSGM-5232 SSGM-5233		B D	Brown St Washington Cir	6 inch diameter 8 inch diameter	SSMH-1381 SSMH-2167	SSMH-1378 SSMH-2164	VC PVC	Yes Yes	1940 1980		80 100	2020 2080	-2 58	2023 2080		\$600 \$600	140.01 115.9	\$84,006 \$69,540	2	4.234	8.468	4.234	Priority Renewal Limited Monitoring
SSGM-5233		A	Washington Ch W Main St XC	12 inch diameter	SSMH-2107 SSMH-1648	SSMH-2104 SSMH-1633	PVC	Yes	1980		100	2080	57	2079		\$600	46.69	\$28,014	5	1	5	1	Frequent Monitorin
SSGM-5234A	Gravity Main	A	W Main St XC	12 inch diameter	SSMH-1633	MSPS	DI	No	1979		85	2064	42	2064	LF 3	\$600	31.11	\$18,666	5	1	5	1	Frequent Monitorin
SSGM-5235		G	W Main St	12 inch diameter		SSMH-1861	PVC	Yes	1979		100	2079	57	2079		\$600	291.7	\$175,020	5	1	5	1	Frequent Monitorin
SSGM-5236 SSGM-5237		B F	Brown St W Main St	8 inch diameter	SSMH-2251 SSMH-1771	SSMH-2248 SSMH-1789	CI PVC	Yes Yes	1940 1980		100 100	2040 2080	18 58	2040 2080		\$600 \$600	103.42 131.76	\$62,052 \$79,056	4 5	1	4	1	Frequent Monitorin
SSGM-5237 SSGM-5238		E	Norton Dr Easement	12 inch diameter 18 inch diameter		SSMH-1789 SSMH-1066	PVC	Yes	1980		100	2080	58 57	2080		\$600	254.94	\$79,056 \$152,964	5	2	5	<u>ک</u>	Frequent Monitorin
SSGM-5239		G	W Main St	12 inch diameter		SSMH-1612	PVC	Yes	1979		100	2079	57	2079		\$600	317.6	\$190,560	5	1	5	1	Frequent Monitorin
	Gravity Main	Н	Holman St	10 inch diameter		SSMH-1261	PVC	Yes	1979		100 80	2079 2059	57 37	2079 2059		\$600 \$600	232.9	\$139,740	5	1 5.132	5 5.132	1 5.132	Frequent Monitorin Priority Renewal
SSGM-5240 SSGM-5241		E	Jackson St	6 inch diameter	SSMH-1123	SSMH-1117	VC	Yes	1979								197.87	\$118,722	1				

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Hillsborough Collection Syste	em Pipe Data T	able	Year 1	Year 2		Year 4 Year	-		-	ear 9 Year	10 0 - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100	0 - 100	
	·																					100-Yr Replacement
	Sewer Basin	Street	2022	2023	2024	2025 2026	2027	2028	2029	.030 203 [,]	2022-2031	2032-2041	2042-2051	2052-2061	2062-2071	2072-2082	2082-2091	2092-2101	2102-2111	2112-2121	2022-2121	Count
SSGM-5163 Gravity Main SSGM-5164 Gravity Main	D B	Franklin Pierce Hwy XC Myrtle St	\$120,936								\$120,936					\$183,834					\$183,834 \$120,936	1
SSGM-5165 Gravity Main	B	Central St	\$273,900								\$273,900										\$273,900	1
SSGM-5166 Gravity Main	Н	Henniker St	,												\$155,304						\$155,304	1
SSGM-5167 Gravity Main	F	Bible Hill Rd														\$85,572					\$85,572	1
SSGM-5168 Gravity Main	E	Depot St	\$145,614								\$145,614					\$90,420					\$145,614 \$90,420	1
SSGM-5169 Gravity Main SSGM-5170 Gravity Main	A C	Woodlawn Ave Bear Hill Rd														\$90,420					\$90,420	1
SSGM-5171 Gravity Main	C	Bear Hill Rd													\$91,440	<i>400,202</i>					\$91,440	1
SSGM-5172 Gravity Main	D	Jefferson Dr														\$79,920					\$79,920	1
SSGM-5173 Gravity Main	D	Jefferson Dr														\$134,334					\$134,334	1
SSGM-5174 Gravity Main SSGM-5176 Gravity Main	H	Henniker St River St														\$118,638 \$58,134					\$118,638 \$58,134	1
SSGM-5170 Gravity Main SSGM-5177 Gravity Main	F	Symonds Rd														\$101,940					\$101,940	1
SSGM-5178 Gravity Main		Blair Ave														\$151,428					\$151,428	1
SSGM-5179 Gravity Main	E	Old Henniker St														\$123,678					\$123,678	1
SSGM-5180 Gravity Main	F	McNeil Rd														\$76,446					\$76,446 \$123,084	1
SSGM-5181 Gravity Main SSGM-5182 Gravity Main	С	W Main St Bridge St	\$170,418								\$170,418					\$123,084					\$123,084	1
SSGM-5183 Gravity Main	A	Butler St	¢110,110								¢170,110					\$52,422					\$52,422	1
SSGM-5184 Gravity Main	С	Wyman St														\$23,448					\$23,448	1
SSGM-5185 Gravity Main	D	Madison Cir														\$164,238					\$164,238	1
SSGM-5186 Gravity Main SSGM-5187 Gravity Main	D	Franklin Pierce Hwy XC Gay Ave XC														\$261,852 \$214,410					\$261,852 \$214,410	1
SSGM-5187 Gravity Main SSGM-5188 Gravity Main	B	Church St		\$199,866							\$199,866					ψ 2 14,41 0					\$214,410	1
SSGM-5189 Gravity Main	E	Preston St XC		,												\$142,050					\$142,050	1
SSGM-5190 Gravity Main	E	Henniker St														\$113,754					\$113,754	1
SSGM-5191 Gravity Main SSGM-5192 Gravity Main	E A	Preston St Woodlawn Ave XC													\$110,682	¢147.000					\$110,682 \$147,030	1
SSGM-5192 Gravity Main SSGM-5193 Gravity Main	C	River St XC														\$147,030 \$190,536					\$147,030 \$190,536	1
SSGM-5194 Gravity Main	C	Bear Hill Rd													\$68,520	φ100,000					\$68,520	1
SSGM-5195 Gravity Main	D	Jefferson Dr														\$105,726					\$105,726	1
SSGM-5196 Gravity Main	F	Bible Hill Rd														\$186,744					\$186,744	1
SSGM-5197 Gravity Main	B	Henniker St	¢00.070								¢90.070					\$41,292					\$41,292	1
SSGM-5198 Gravity Main SSGM-5199 Gravity Main	B	School St Old Henniker St	\$89,976								\$89,976					\$142,278					\$89,976 \$142,278	1
SSGM-5200 Gravity Main	C	Hill St														\$164,514					\$164,514	1
SSGM-5201 Gravity Main	A	Church St	\$14,622								\$14,622										\$14,622	1
SSGM-5202 Gravity Main	A	W Main St	\$32,766								\$32,766										\$32,766	1
SSGM-5202A Gravity Main SSGM-5203 Gravity Main	A	W Main St Gibson Rd	\$308,292								\$308,292					\$184,680					\$308,292 \$184,680	1
SSGM-5203 Gravity Main	D	Jefferson Dr XC														\$92,730					\$92,730	1
SSGM-5205 Gravity Main	D	Jefferson Dr XC														\$91,992					\$91,992	1
SSGM-5206 Gravity Main	F	Boulder Rd														\$139,026					\$139,026	1
SSGM-5207 Gravity Main	F	Symonds Rd														\$104,460					\$104,460	1
SSGM-5208 Gravity Main SSGM-5209 Gravity Main	B	River St Blair Ave														\$109,254 \$154,206					\$109,254 \$154,206	1
SSGM-5210 Gravity Main	E	Henniker St														\$196,086					\$196,086	1
SSGM-5211 Gravity Main	С	Bear Hill Rd													\$131,064						\$131,064	1
SSGM-5212 Gravity Main	D	Jefferson Dr														\$109,158					\$109,158	1
SSGM-5214 Gravity Main SSGM-5214A Gravity Main	F G	Bible Hill Rd W Main St														\$63,666 \$15,840					\$63,666 \$15,840	1
SSGM-5215 Gravity Main	D	Washington Cir														\$161,286					\$161,286	1
SSGM-5216 Gravity Main	D	Holman St XC														\$190,836					\$190,836	1
SSGM-5217 Gravity Main	В	School St		A465 533												\$44,088					\$44,088	1
SSGM-5218 Gravity Main SSGM-5219 Gravity Main	B	School St Park St		\$185,760							\$185,760			\$108,786							\$185,760 \$108,786	1
SSGM-5219 Gravity Main SSGM-5220 Gravity Main	E	Depot St	\$207,198								\$207,198			φ100,700							\$108,786	1
SSGM-5221 Gravity Main	C	Union St	\$234,540								\$234,540										\$234,540	1
SSGM-5222 Gravity Main	D	Jefferson Dr XC														\$124,308					\$124,308	1
SSGM-5223 Gravity Main	D	Jefferson Dr														\$98,808					\$98,808	1
SSGM-5224 Gravity Main SSGM-5225 Gravity Main	E G	Norton Dr W Main St	\$165,702								\$165,702					\$167,928					\$167,928 \$165,702	1
SSGM-5226 Gravity Main	B	Walnut St	\$105,702								\$194,604										\$194,604	1
SSGM-5227 Gravity Main	E	Henniker St									,					\$194,832					\$194,832	1
SSGM-5228 Gravity Main	С	Hill St														\$124,980					\$124,980	1
SSGM-5229 Gravity Main SSGM-5230 Gravity Main	C A	High St Butler St	\$42,252								\$42,252					\$142,194					\$42,252 \$142,194	1
SSGM-5230 Gravity Main SSGM-5231 Gravity Main	A D	Butler St Jefferson Dr														\$142,194					\$142,194 \$140,886	1
SSGM-5232 Gravity Main	B	Brown St		\$84,006							\$84,006					÷110,000					\$84,006	1
SSGM-5233 Gravity Main	D	Washington Cir														\$69,540					\$69,540	1
SSGM-5234 Gravity Main	A	W Main St XC													A 10 C 1	\$28,014					\$28,014	1
SSGM-5234A Gravity Main SSGM-5235 Gravity Main	A G	W Main St XC W Main St													\$18,666	\$175,020					\$18,666 \$175,020	1
SSGM-5235 Gravity Main SSGM-5236 Gravity Main	B	Brown St										\$62,052				φ175,020					\$175,020 \$62,052	1
SSGM-5237 Gravity Main	F	W Main St										402,00Z				\$79,056					\$79,056	1
SSGM-5238 Gravity Main	E	Norton Dr Easement														\$152,964					\$152,964	1
SSGM-5239 Gravity Main	G	W Main St														\$190,560					\$190,560	1
SSGM-5240 Gravity Main SSGM-5241 Gravity Main	H	Holman St Jackson St												\$118,722		\$139,740					\$139,740 \$118,722	1
SSGM-5242 Gravity Main	C	Summer St	\$223,956								\$223,956			ψ110,722							\$223,956	1
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	Asset Type	Sower Basin			Upstream	Downstream			Year	Year	Heeful			Development	- A			Devile e e e e e e e			Dist. 10		
SSGM-5243				Diameter	Manholo	Manholo	Matorial	Increated			Useful	End Useful		Replaceme		Unit Cost	Length	Replacement				Condition	
	Gravity Main	C	Street W Mill St	Diameter 8 inch diameter	Manhole SSMH-1564	Manhole SSMH-1567	Material VC	Inspected Yes	Installed 1940	Lined	Life 80	Life 2020	Useful Life -2	Year 2022	LF	Unit Cost \$600	(LF) 231.02	Cost \$138,612	Failure 2	of Failure 5	Score 10	Score 5	Criticality Priority Renewal
SSGM-5244	Gravity Main	B	Pleasant St	6 inch diameter	SSFT-015	SSMH-1366	VC	Yes	1940		80	2020	-2	2022	LF	\$600	59.36	\$35,616	2	1	2	1	Limited Monitoring
	Gravity Main	Н	Henniker St	10 inch diameter	SSMH-1153	SSMH-1150	VC	Yes	1940	2016	50	2066	44	2066	LF	\$600	269.17	\$161,502	3	1	3	1	Limited Monitoring
SSGM-5246 SSGM-5247	Gravity Main Gravity Main	B C	W Main St Wyman St	10 inch diameter 6 inch diameter	SSMH-1423 SSMH-1486	SSMH-1420 SSMH-1492	PVC VC	No Yes	1979 1940		100 80	2079 2020	57 -2	2079 2022	LF LF	\$600 \$600	251.39 81.72	\$150,834 \$49,032	5	2 5.1	10 10.2	2 5.1	Frequent Monitoring Priority Renewal
SSGM-5248	Gravity Main	F	Bible Hill Rd	8 inch diameter	SSMH-1400	SSMH-1867	PVC	Yes	1940		100	2020	58	2022	LF	\$600	278.56	\$167,136	2	1	2	1	Limited Monitoring
SSGM-5249	Gravity Main	E	Henniker St	12 inch diameter	SSMH-1054	SSMH-1051	PVC	Yes	1979		100	2079	57	2079	LF	\$600	231.72	\$139,032	3	1	3	1	Limited Monitoring
	Gravity Main	F	Harvey Way	8 inch diameter	SSMH-1891	SSMH-1885	PVC	Yes	1979		100	2079	57	2079	LF	\$600	460.34	\$276,204	1	1	1	1	Limited Monitoring
SSGM-5252 SSGM-5253	Gravity Main Gravity Main	F C	Symonds Rd W Mill St	8 inch diameter 6 inch diameter	SSMH-1924 SSFT-006	SSMH-1921 SSMH-1540	PVC VC	Yes Yes	1980 1940		100 80	2080 2020	-2	2080 2022	LF LF	\$600 \$600	273.17 65.65	\$163,902 \$39,390	2	1	2	1	Limited Monitoring
	Gravity Main	G	W Main St	12 inch diameter	SSMH-1849	SSMH-1852	PVC	Yes	1979		100	2020	57	2022	LF	\$600	253.34	\$152,004	5	1	5	1	Frequent Monitoring
SSGM-5255	Gravity Main	D	Jefferson Dr XC	8 inch diameter	SSMH-2032	SSMH-1255	PVC	Yes	1980		100	2080	58	2080	LF	\$600	198.46	\$119,076	3	1	3	1	Limited Monitoring
SSGM-5256	Gravity Main	A	Butler St	8 inch diameter	SSMH-1666	SSMH-1663	PVC	Yes	1980		100	2080	58	2080	LF	\$600	133.34	\$80,004	2	1	2	1	Limited Monitoring
SSGM-5257 SSGM-5258	Gravity Main Gravity Main	D F	Jefferson Dr Boulder Rd	8 inch diameter 8 inch diameter	SSMH-2104 SSMH-1834	SSMH-2101 SSMH-1825	PVC PVC	No Yes	1980 1979		100 100	2080 2079	58 57	2080 2079	LF	\$600 \$600	204.96 182.49	\$122,976 \$109,494	1	2	2	2	Limited Monitoring
SSGM-5259	Gravity Main	B	Church St	8 inch diameter	SSMH-2254	SSMH-2251	CI	No	1940		100	2040	18	2019	LF	\$600	166.98	\$100,188	4	3	12	3	Frequent Monitoring
SSGM-5260	Gravity Main	E	Norton Dr Easement	18 inch diameter	SSMH-1147	SSMH-1099	PVC	Yes	1979		100	2079	57	2079	LF	\$600	277.18	\$166,308	5	1	5	1	Frequent Monitoring
	Gravity Main	G	W Main St	12 inch diameter	SSMH-1642	SSMH-1642A	PVC	Yes	1979		100	2079	57	2079	LF	\$600	126.15	\$75,690	5	1	5	1	Frequent Monitoring
	Gravity Main	G	W Main St McNeil Rd	12 inch diameter 8 inch diameter	SSMH-1642A SSMH-1900	SSMH-1648 SSMH-1828	PVC PVC	No	1979 1980		100 100	2079 2080	57 58	2079 2080	LF LF	\$600 \$600	131.55 184.04	\$78,930 \$110,424	5	2	10	2	Frequent Monitoring
SSGM-5262 SSGM-5263	Gravity Main Gravity Main	F	Windsor Terrace	8 inch diameter	SSMH-1900 SSMH-1807	SSMH-1828	PVC	Yes Yes	1980		100	2080	57	2080	LF	\$600	298.56	\$179,136	1	1	1	1	Limited Monitoring
	Gravity Main	G	W Main St	12 inch diameter	SSMH-1870	SSMH-1873	PVC	Yes	1979		100	2079	57	2079	LF	\$600	110.91	\$66,546	5	1	5	1	Frequent Monitoring
SSGM-5265	Gravity Main	D	Jefferson Dr	8 inch diameter	SSMH-2095	SSMH-2092	PVC	No	1980		100	2080	58	2080	LF	\$600	140.41	\$84,246	1	2	2	2	Limited Monitoring
SSGM-5266	Gravity Main	D	Jefferson Dr	8 inch diameter	SSMH-2122	SSMH-2119	PVC	No	1980		100	2080	58	2080	LF	\$600 \$600	170.35	\$102,210	3	2	6	2	Limited Monitoring
SSGM-5267 SSGM-5268	Gravity Main Gravity Main	D B	Blair Ave XC Myrtle St	8 inch diameter 8 inch diameter	SSMH-2110 SSMH-1339	SSMH-2071 SSMH-1336	PVC VC	Yes Yes	1980 1940		100 80	2080 2020	-2	2080 2022	LF LF	\$600 \$600	317.02 210.74	\$190,212 \$126,444	4	2.1	4 8.4	2.1	Frequent Monitoring
SSGM-5269	Gravity Main	B	Newman St	6 inch diameter	SSMH-1359 SSMH-1354	SSMH-1330	VC	Yes	1940		80	2020	-2	2022	LF	\$600	74.73	\$44,838	2	1	2	1	Limited Monitoring
	Gravity Main	B	W Main St	10 inch diameter	SSMH-1318	SSMH-1423	PVC	No	1979		100	2079	57	2079	LF	\$600	58.74	\$35,244	5	2	10	2	Frequent Monitoring
SSGM-5271	Gravity Main	С	Wyman St	6 inch diameter	SSMH-1489	SSMH-1486	VC	Yes	1940		80	2020	-2	2023	LF	\$600	182.58	\$109,548	2	4.1	8.2	4.1	Priority Renewal
	Gravity Main	A D	Myrtle St	8 inch diameter	SSMH-1732	SSMH-1729	PVC	Yes	1980		100	2080	58	2080	LF	\$600	155.74	\$93,444	1	1	1	1	Limited Monitoring
	Gravity Main Gravity Main	D	Jefferson Dr XC Jefferson Dr	8 inch diameter 8 inch diameter	SSMH-2065 SSMH-2140	SSMH-2062 SSMH-2137	PVC PVC	No Yes	1980 1980		100 100	2080 2080	58 58	2080 2080	LF	\$600 \$600	269 217.49	\$161,400 \$130,494	2	2	4	2	Limited Monitoring
SSGM-5275	Gravity Main	I	Center Rd	6 inch diameter	SSMH-1225	SSMH-1228	VC	Yes	1940		80	2020	-2	2022	LF	\$600	94.17	\$56,502	3	1	3	1	Limited Monitoring
	Gravity Main	В	River St	10 inch diameter	SSMH-1402	SSMH-1360	PVC	Yes	1979		100	2079	57	2079	LF	\$600	100.96	\$60,576	5	1	5	1	Frequent Monitoring
SSGM-5277	Gravity Main	Н	Gay Ave	6 inch diameter	SSMH-1291	SSMH-1285	VC	Yes	1940		80	2020	-2	2022	LF	\$600	238.29	\$142,974	2	3.1	6.2	3.1	Frequent Monitoring
SSGM-5278 SSGM-5279	Gravity Main Gravity Main	E C	Henniker St John St	12 inch diameter 6 inch diameter	SSMH-1057 SSMH-1537	SSMH-1054 SSFT-006	PVC VC	Yes Yes	1979 1940		100 80	2079 2020	57 -2	2079 2022	LF LF	\$600 \$600	164.12 76.48	\$98,472 \$45,888	3	1	3	1	Limited Monitoring
SSGM-5281	Gravity Main	A	Willow Rock Rd	8 inch diameter	SSMH-2257	SSMH-1729	PVC	Yes	1940		100	2020	58	2022	LF	\$600	230.07	\$138,042	4	2.2	8.8	2.2	Frequent Monitoring
SSGM-5282	Gravity Main	F	W Main St	12 inch diameter	SSMH-1801	SSMH-1795	PVC	Yes	1979		100	2079	57	2079	LF	\$600	289.84	\$173,904	4	1	4	1	Frequent Monitoring
SSGM-5283	Gravity Main	F	Meeting Hill Rd	8 inch diameter	SSMH-1957	SSMH-1954	PVC	Yes	1980		100	2080	58	2080	LF	\$600	211.44	\$126,864	1	1	1	1	Limited Monitoring
SSGM-5284 SSGM-5285	Gravity Main	A	Woodlawn Ave Church St	8 inch diameter 6 inch diameter	SSMH-1702 SSMH-1678	SSMH-1705 SSMH-1675	PVC VC	Yes Yes	1979 1940		100 80	2079 2020	57 -2	2079 2023	LF LF	\$600 \$600	196.01 327.45	\$117,606 \$196,470	4	4.125	4 8.25	1 4.125	Frequent Monitoring Priority Renewal
SSGM-5286	Gravity Main Gravity Main	F	Boulder Rd	8 inch diameter	SSMH-1078 SSMH-1843	SSMH-1075	PVC	Yes	1940		100	2020	-2	2023	LF	\$600	178.38	\$190,470	1	4.125	0.25	4.120	Limited Monitoring
SSGM-5287	Gravity Main	D	Franklin Pierce Hwy XC	8 inch diameter	SSMH-2218	SSMH-2179	PVC	Yes	1980		100	2080	58	2080	LF	\$600	273.4	\$164,040	4	1	4	1	Frequent Monitoring
SSGM-5288	Gravity Main	F	Meeting Hill Rd	8 inch diameter	SSMH-1933	SSMH-1930	PVC	Yes	1980		100	2080	58	2080	LF	\$600	310.77	\$186,462	1	1	1	1	Limited Monitoring
SSGM-5289	Gravity Main	B	Myrtle St	8 inch diameter	SSMH-1348	SSMH-1345	VC	Yes	1940		80	2020	-2	2022	LF	\$600	166.56	\$99,936	4	3.121	12.484	3.121	Frequent Monitoring
SSGM-5290 SSGM-5291	Gravity Main Gravity Main	E H	Preston St XC Henniker St	18 inch diameter 10 inch diameter	SSMH-1204 SSMH-1162	SSMH-1177 SSMH-1159	PVC VC	Yes Yes	1979 1940	2016	100 50	2079 2066	57 44	2079 2066	LF LF	\$600 \$600	176.76 470.52	\$106,056 \$282,312	5	1	5	1	Frequent Monitoring
	Gravity Main	E	Henniker St	12 inch diameter	SSMH-1060	SSMH-1057	PVC	Yes	1979	2010	100	2079	57	2000	LF	\$600	164.64	\$98,784	3	1	3	1	Limited Monitoring
	Gravity Main	E	Norton Dr XC	8 inch diameter	SSMH-1093	SSMH-1093A	VC	Yes	1940		80	2020	-2	2022	LF	\$600	180.47	\$108,282	3	1	3	1	Limited Monitoring
	Gravity Main	E	Norton Dr XC	10 inch diameter	SSMH-1093A	SSMH-2245	DI	Yes	1940		65	2005	-17	2022	LF	\$600	41.53	\$24,918	3	1	3	1	Limited Monitoring
	Gravity Main Gravity Main	C F	Bear Hill Rd Bible Hill Rd	8 inch diameter 8 inch diameter	SSMH-1606 SSMH-1774	SSMH-1603 SSMH-1777	PVC PVC	Yes Yes	1979 1979		100 100	2079 2079	57 57	2079 2079	LF LF	\$600 \$600	149.12 275.24	\$89,472 \$165,144	3	1	3	1	Limited Monitoring
	Gravity Main	С	Bear Hill Rd	10 inch diameter	SSMH-1774 SSMH-1585	SSMH-1777 SSMH-1588	VC	Yes	1979	2021	50	2079	44	2079	LF	\$600	136.52	\$81,912	4	1	4	1	Frequent Monitoring
	Gravity Main	D	Jefferson Dr	8 inch diameter	SSMH-2050	SSMH-2047	PVC	Yes	1980		100	2080	58	2080	LF	\$600	164.75	\$98,850	2	1	2	1	Limited Monitoring
	Gravity Main	D	Jefferson Dr	8 inch diameter	SSMH-2152	SSMH-2149	PVC	Yes	1980		100	2080	58	2080	LF	\$600	261.18	\$156,708	1	1	1	1	Limited Monitoring
	Gravity Main Gravity Main	H	Henniker St Holman St XC	10 inch diameter	SSMH-1171 SSMH-1186	SSMH-1174 SSMH-1183	PVC PVC	Yes Yes	1979		100 100	2079 2079	57 57	2079 2079	LF LF	\$600 \$600	73.37 276.39	\$44,022 \$165,834	5	1	5	1	Frequent Monitoring
	Gravity Main Gravity Main	B	River St	8 inch diameter 12 inch diameter	SSMH-1186 SSMH-1411	SSMH-1183 SSMH-1408	PVC	Yes	1979 1979		100	2079	57	2079	LF	\$600	60.15	\$165,834 \$36,090	5	1	4 5	1	Frequent Monitoring
	Gravity Main		Blair Ave	8 inch diameter	SSMH-1207	SSMH-1201	PVC	Yes	1979		100	2079	57	2079	LF	\$600	211.51	\$126,906	4	1	4	1	Frequent Monitoring
SSGM-5303	Gravity Main	E	Old Henniker St	8 inch diameter	SSMH-1081	SSMH-1078	PVC	Yes	1980		100	2080	58	2080	LF	\$600	247.62	\$148,572	2	1	2	1	Limited Monitoring
	Gravity Main	C	Bridge St	6 inch diameter	SSMH-1447	SSMH-1444	VC	Yes	1940		80	2020	-2	2022	LF	\$600 \$600	302.28	\$181,368	3	5.131	15.393	5.131	Priority Renewal
	Gravity Main Gravity Main	A D	W Main St Jefferson Dr XC	8 inch diameter 8 inch diameter	SSMH-1651 SSMH-2014	SSMH-1648 SSMH-2011	VC PVC	Yes Yes	1940 1980		80 100	2020 2080	-2 58	2022 2080	LF LF	\$600 \$600	72.66 155.49	\$43,596 \$93,294	4	5.112	20.448	5.112 1	Highest Risk Frequent Monitoring
	Gravity Main	D	Franklin Pierce Hwy XC	8 inch diameter	SSMH-2209	SSMH-2212	PVC	Yes	1980		100	2080	58	2080	LF	\$600	113.49	\$68,094	4	1	4	1	Frequent Monitoring
SSGM-5309	Gravity Main	I	Blair Ave XC	8 inch diameter	SSMH-1192	SSMH-1189	PVC	Yes	1979		100	2079	57	2079	LF	\$600	356.7	\$214,020	4	2.9	11.6	2.9	Frequent Monitoring
	Gravity Main	B	Church St	6 inch diameter	SSMH-1372	SSMH-1369	VC	Yes	1940		80	2020	-2	2022	LF	\$600 \$600	192.41	\$115,446	4	5.334	21.336	5.334	Highest Risk
	Gravity Main Gravity Main	G B	W Main St River St XC	8 inch diameter 12 inch diameter	SSMH-1741 SSMH-1012	SSMH-1735 SSMH-1009	PVC PVC	Yes No	1979 1979		100 100	2079 2079	57 57	2079 2079	LF LF	\$600 \$600	167.53 206.6	\$100,518 \$123,960	4	1	4 10	1	Frequent Monitoring
	Gravity Main	F	Symonds Rd	8 inch diameter	SSMH-1012 SSMH-1915	SSMH-1009	PVC	Yes	1979		100	2079	58	2079	LF	\$600	200.0	\$123,900	2	1	2	1	Limited Monitoring
	Gravity Main	E	Henniker St	12 inch diameter	SSMH-1072	SSMH-1069	PVC	Yes	1979		100	2079	57	2079	LF	\$600	207.02	\$124,212	3	1	3	1	Limited Monitoring
		F	Boulder Rd XC	Unknown	SSMH-1822	SSMH-1816	PVC	No	1980		100	2080	58	2080	LF	\$600	175.13	\$105,078	3	1	3	1	Limited Monitoring
SSGM-5316		С	River St XC	6 inch diameter	SSMH-1429	SSMH-1006	DI	No	1979		85	2064	42	2064	LF	\$600 \$600	235.24	\$141,144	5	2	10	2	Frequent Monitoring
	Gravity Main Gravity Main	D D	Jefferson Dr Washington Cir	8 inch diameter 8 inch diameter	SSMH-2074 SSMH-2173	SSMH-2056 SSMH-2170	PVC PVC	No Yes	1980 1980		100 100	2080 2080	58 58	2080 2080	LF LF	\$600 \$600	237.35 253.69	\$142,410 \$152,214	1	2	2	2	Limited Monitoring
	Gravity Main	B	Henniker St	10 inch diameter	SSMH-1417	SSMH-1414	PVC	No	1980		100	2080	58	2080	LF	\$600	46.15	\$27,690	5	2	10	2	Frequent Monitoring
SSGM-5320	Gravity Main	G	W Main St	12 inch diameter	SSMH-1873	SSMH-1876	PVC	Yes	1979		100	2079	57	2079	LF	\$600	288.13	\$172,878	5	1	5	1	Frequent Monitoring
	Gravity Main	D	Franklin Pierce Hwy XC	8 inch diameter	SSMH-2203	SSMH-2218	PVC	Yes	1980		100	2080	58	2080	LF	\$600	41.27	\$24,762	4	1	4	1	Frequent Monitoring
CULTURA EDOOD	Gravity Main	н	Park St XC	6 inch diameter	UNK-002	UNK-002	VC	No	1980		80 100	2060 2080	38 58	2060 2080	LF LF	\$600 \$600	155.66 264.75	\$93,396 \$158,850	1	2	2	2	Limited Monitoring
	Gravity Main	C	Hill St	8 inch diameter	SSMH-1456	SSMH-1453	PVC	Yes	1980														Limited Monitoring

				со	ST OF A	SSET REP	LACEME	NT - FIRS	T TEN YE	ARS					COST	OF ASSET RE	PLACEMENT -	NEXT 100 YEA	RS			
Hillsborough Collection Syst	tem Pipe Data	Table	Year 1	Year 2						Year 8 Year 9 Year 10	0 - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100	0 - 100	
Asset ID Asset Type	Sewer Basin	Street	2022	2023	2024	2025	2026	2027	2028	2029 2030 2031	2022-2031	2032-2041	2042-2051	2052-2061	2062-2071	2072-2082	2082-2091	2092-2101	2102-2111	2112-2121	2022-2121	100-Yr Replacement Count
SSGM-5243 Gravity Main		W Mill St	\$138,612	2020	2024	2020	2020	2021	2020	2023 2000 2001	\$138,612	2002-2041	2042-2001	2002-2001	2002-2011	2012-2002	2002-2001	2032-2101	2102-2111	2112-2121	\$138,612	1
SSGM-5244 Gravity Main	В	Pleasant St	\$35,616								\$35,616										\$35,616	1
SSGM-5245 Gravity Main	Н	Henniker St													\$161,502	¢450.004					\$161,502	1
SSGM-5246 Gravity Main SSGM-5247 Gravity Main	B	W Main St Wyman St	\$49,032								\$49,032					\$150,834					\$150,834 \$49,032	1
SSGM-5248 Gravity Main	F	Bible Hill Rd	φ 1 0,002								φ+0,002					\$167,136					\$167,136	1
SSGM-5249 Gravity Main	E	Henniker St														\$139,032					\$139,032	1
SSGM-5250 Gravity Main	F	Harvey Way														\$276,204					\$276,204	1
SSGM-5252 Gravity Main SSGM-5253 Gravity Main	F C	Symonds Rd W Mill St	\$39,390								\$39,390					\$163,902					\$163,902 \$39,390	1
SSGM-5253 Gravity Main SSGM-5254 Gravity Main	G	W Main St	\$39,390								\$39,390					\$152,004					\$152,004	1
SSGM-5255 Gravity Main	D	Jefferson Dr XC														\$119,076					\$119,076	1
SSGM-5256 Gravity Main	A	Butler St														\$80,004					\$80,004	1
SSGM-5257 Gravity Main	D	Jefferson Dr														\$122,976					\$122,976	1
SSGM-5258 Gravity Main SSGM-5259 Gravity Main	B	Boulder Rd Church St										\$100,188				\$109,494					\$109,494 \$100,188	1
SSGM-5260 Gravity Main	E	Norton Dr Easement										φ100,100				\$166,308					\$166,308	1
SSGM-5261 Gravity Main	G	W Main St														\$75,690					\$75,690	1
SSGM-5261A Gravity Main	G	W Main St														\$78,930					\$78,930	1
SSGM-5262 Gravity Main	F	McNeil Rd														\$110,424					\$110,424 \$170,126	1
SSGM-5263 Gravity Main SSGM-5264 Gravity Main	G	Windsor Terrace W Main St														\$179,136 \$66,546					\$179,136 \$66,546	1
SSGM-5265 Gravity Main	D	Jefferson Dr														\$84,246					\$84,246	1
SSGM-5266 Gravity Main	D	Jefferson Dr														\$102,210					\$102,210	1
SSGM-5267 Gravity Main	D	Blair Ave XC	¢100.444								¢100 444					\$190,212					\$190,212	1
SSGM-5268 Gravity Main SSGM-5269 Gravity Main	B	Myrtle St Newman St	\$126,444 \$44,838								\$126,444 \$44,838										\$126,444 \$44,838	1
SSGM-5209 Gravity Main	B	W Main St	ψ44,000								φ44,000					\$35.244					\$35,244	1
SSGM-5271 Gravity Main	С	Wyman St		\$109,548							\$109,548										\$109,548	1
SSGM-5272 Gravity Main	A	Myrtle St														\$93,444					\$93,444	1
SSGM-5273 Gravity Main	D	Jefferson Dr XC Jefferson Dr														\$161,400					\$161,400 \$130,494	1
SSGM-5274 Gravity Main SSGM-5275 Gravity Main		Center Rd	\$56,502								\$56,502					\$130,494					\$130,494 \$56,502	1
SSGM-5276 Gravity Main	B	River St	φ00,002								φ00,002					\$60,576					\$60,576	1
SSGM-5277 Gravity Main	Н	Gay Ave	\$142,974								\$142,974										\$142,974	1
SSGM-5278 Gravity Main	E	Henniker St									* 1 = 0.00					\$98,472					\$98,472	1
SSGM-5279 Gravity Main SSGM-5281 Gravity Main	C A	John St Willow Rock Rd	\$45,888								\$45,888					\$138,042					\$45,888 \$138,042	1
SSGM-5282 Gravity Main	F	W Main St														\$173,904					\$173,904	1
SSGM-5283 Gravity Main	F	Meeting Hill Rd														\$126,864					\$126,864	1
SSGM-5284 Gravity Main	A	Woodlawn Ave														\$117,606					\$117,606	1
SSGM-5285 Gravity Main	A	Church St		\$196,470							\$196,470					\$107,028					\$196,470	1
SSGM-5286 Gravity Main SSGM-5287 Gravity Main	D	Boulder Rd Franklin Pierce Hwy XC														\$164,040					\$107,028 \$164,040	1
SSGM-5288 Gravity Main	F	Meeting Hill Rd														\$186,462					\$186,462	1
SSGM-5289 Gravity Main	В	Myrtle St	\$99,936								\$99,936										\$99,936	1
SSGM-5290 Gravity Main	E	Preston St XC													* 222.0.10	\$106,056					\$106,056	1
SSGM-5291 Gravity Main SSGM-5292 Gravity Main	H F	Henniker St Henniker St													\$282,312	\$98,784					\$282,312 \$98.784	1
SSGM-5293 Gravity Main	E	Norton Dr XC	\$108,282								\$108,282					\$30,704					\$108,282	1
SSGM-5293A Gravity Main	E	Norton Dr XC	\$24,918								\$24,918						\$24,918				\$49,836	1
SSGM-5294 Gravity Main		Bear Hill Rd														\$89,472					\$89,472	1
SSGM-5295 Gravity Main SSGM-5296 Gravity Main		Bible Hill Rd Bear Hill Rd													\$81,912	\$165,144					\$165,144 \$81,912	1
SSGM-5297 Gravity Main	D	Jefferson Dr													φ01,91Z	\$98,850					\$98,850	1
SSGM-5298 Gravity Main		Jefferson Dr														\$156,708					\$156,708	1
SSGM-5299 Gravity Main	Н	Henniker St														\$44,022					\$44,022	11
SSGM-5300 Gravity Main SSGM-5301 Gravity Main	B	Holman St XC River St														\$165,834					\$165,834	1
SSGM-5301 Gravity Main SSGM-5302 Gravity Main		Blair Ave														\$36,090 \$126,906					\$36,090 \$126,906	1
SSGM-5303 Gravity Main	E	Old Henniker St														\$148,572					\$148,572	1
SSGM-5304 Gravity Main	С	Bridge St	\$181,368								\$181,368										\$181,368	1
SSGM-5305 Gravity Main	A	W Main St	\$43,596								\$43,596					\$00.004					\$43,596	1
SSGM-5307 Gravity Main SSGM-5308 Gravity Main		Jefferson Dr XC Franklin Pierce Hwy XC														\$93,294 \$68,094					\$93,294 \$68,094	1
SSGM-5309 Gravity Main		Blair Ave XC	İ													\$214,020					\$214,020	1
SSGM-5310 Gravity Main	В	Church St	\$115,446								\$115,446										\$115,446	1
SSGM-5311 Gravity Main	G	W Main St														\$100,518					\$100,518	1
SSGM-5312 Gravity Main SSGM-5313 Gravity Main	B F	River St XC														\$123,960 \$120,942					\$123,960 \$120,942	1
SSGM-5313 Gravity Main SSGM-5314 Gravity Main	E	Symonds Rd Henniker St														\$120,942 \$124,212					\$120,942 \$124,212	1
SSGM-5315 Gravity Main		Boulder Rd XC														\$105,078					\$105,078	1
SSGM-5316 Gravity Main	С	River St XC													\$141,144						\$141,144	1
SSGM-5317 Gravity Main		Jefferson Dr														\$142,410					\$142,410	1
SSGM-5318 Gravity Main SSGM-5319 Gravity Main	D B	Washington Cir Henniker St														\$152,214 \$27,690					\$152,214 \$27,690	1
SSGM-5319 Gravity Main SSGM-5320 Gravity Main		W Main St														\$172,878					\$27,690 \$172,878	1
SSGM-5321 Gravity Main		Franklin Pierce Hwy XC														\$24,762					\$24,762	1
SSGM-5322 Gravity Main	Н	Park St XC												\$93,396		A 4 5 6 9 7 9					\$93,396	1
SSGM-5323 Gravity Main SSGM-5324 Gravity Main	C C	Hill St Bridge Street														\$158,850				\$22,042	\$158,850 \$33,012	1
Gravity Main	U	Bridge Street	1	1																\$33,012	\$33,012	I

Hillsborough	Collection Syste	em Pipe Data T	able																				
Asset ID	Asset Type	Sewer Basin	Street	Diameter	Upstream Manhole	Downstream Manhole	Material	Inspected	Year Installed	Year Lined	Useful Life	End Useful Life	Remaining Useful Life	Replacement Year		Unit Cost	Length (LF)	Replacement Cost	Impact of Failure	Probability of Failure		Condition Score	Criticality
SSGM-5325	Gravity Main	D	Jefferson Dr XC	8 inch diameter	SSMH-2023	SSMH-2020	PVC	Yes	1980		100	2080	58	2080	LF	\$600	288.24	\$172,944	4	2.2	8.8	2.2	Frequent Monitoring
SSGM-5326	Gravity Main	D	Jefferson Dr XC	8 inch diameter	SSMH-2011	SSMH-2008	PVC	Yes	1980		100	2080	58	2080	LF	\$600	163.9	\$98,340	4	1	4	1	Frequent Monitoring
SSGM-5327 SSGM-5328	Gravity Main Gravity Main	B	River St Blair Ave	10 inch diameter 8 inch diameter	SSMH-1312 SSMH-1213	SSMH-1018 SSMH-1210	PVC PVC	Yes Yes	1979 1979		100 100	2079 2079	57 57	2079 2079	LF	\$600 \$600	178.16 243.72	\$106,896 \$146,232	5	1	5	1	Frequent Monitoring Frequent Monitoring
SSGM-5329	Gravity Main	Ē	Henniker St	12 inch diameter	SSMH-1042	SSMH-1039	PVC	Yes	1979		100	2079	57	2079	LF	\$600	375.75	\$225,450	3	1	3	1	Limited Monitoring
SSGM-5330	Gravity Main	D	Jefferson Dr	8 inch diameter	SSMH-2089	SSMH-2086	PVC	No	1980		100	2080	58	2080	LF	\$600	173.78	\$104,268	1	2	2	2	Limited Monitoring
SSGM-5331	Gravity Main	C	Bear Hill Rd	8 inch diameter	SSMH-1561	SSMH-1525	DI	Yes	1979		85	2064	42	2064	LF	\$600	142.58	\$85,548	3	1	3	1	Limited Monitoring
SSGM-5332 SSGM-5333	Gravity Main Gravity Main	A C	Myrtle St Briggs St	8 inch diameter 6 inch diameter	SSMH-1693 SSMH-1510	SSMH-1687 SSMH-1495	PVC VC	Yes Yes	1979 1940		100 80	2079 2020	57 -2	2079 2022	LF LF	\$600 \$600	356.51 70.82	\$213,906 \$42,492	4	1	4	1	Frequent Monitoring Limited Monitoring
SSGM-5334	Gravity Main	F	Gibson Rd	8 inch diameter	SSMH-1948	SSMH-1495	PVC	Yes	1940		100	2020	58	2022	LF	\$600	298.55	\$179,130	1	1	1	1	Limited Monitoring
SSGM-5335	Gravity Main	D	Blair Ave XC	8 inch diameter	SSMH-2038	SSMH-2005	PVC	Yes	1980		100	2080	58	2080	LF	\$600	323.66	\$194,196	4	1	4	1	Frequent Monitoring
SSGM-5336	Gravity Main	В	Church St	6 inch diameter	SSMH-1378	SSMH-1375	VC	Yes	1940		80	2020	-2	2022	LF	\$600	237.64	\$142,584	4	3.22	12.88	3.22	Frequent Monitoring
SSGM-5339 SSGM-5342	Gravity Main Gravity Main	DE	Jefferson Dr XC Depot St	8 inch diameter 6 inch diameter	SSMH-1255 SSFT-004	SSMH-2029 SSMH-1108	PVC VC	Yes Yes	1980 1940		100 80	2080 2020	58 -2	2080 2022	LF	\$600 \$600	82.85 96.46	\$49,710 \$57,876	3	1	3 3.6	1.2	Limited Monitoring
SSGM-5344	Gravity Main	G	Municipal Dr XC	Unknown	UNK-003	SSMH-1882	PVC	No	1940		100	2020	58	2022	LF	\$600	57.2	\$34,320	4	1	4	1	Frequent Monitoring
SSGM-5345	Gravity Main	G	Municipal Dr	Unknown	SSMH-1882	SSMH-1888	PVC	No	1980		100	2080	58	2080	LF	\$600	255.02	\$153,012	4	1	4	1	Frequent Monitoring
SSGM-5346	Gravity Main	D	Lincoln Cir	8 inch diameter	SSMH-2077	SSMH-2074	PVC	Yes	1980		100	2080	58	2080	LF	\$600	245.05	\$147,030	1	1	1	1	Limited Monitoring
SSGM-5347 SSGM-5348	Gravity Main Gravity Main	D	Madison Cir Blair Ave	8 inch diameter 8 inch diameter	SSMH-2197 SSMH-1198	SSMH-2194 SSMH-1195	PVC PVC	Yes Yes	1980 1979		100 100	2080 2079	58 57	2080 2079	LF	\$600 \$600	311.4 283.94	\$186,840 \$170,364	1	1	1	1	Limited Monitoring Frequent Monitoring
SSGM-5349	Gravity Main		Pine Ridge Rd	8 inch diameter	SSMH-1300	SSMH-1300A	PVC	Yes	1980		100	2080	58	2080	LF	\$600	220.07	\$132,042	1	1	1	1	Limited Monitoring
SSGM-5349A		I	Pine Ridge Rd	8 inch diameter	SSMH-1300A	SSMH-1303	PVC	Yes	1980		100	2080	58	2080	LF	\$600	199.67	\$119,802	1	1	1	1	Limited Monitoring
SSGM-5350	Gravity Main	E	Preston St	8 inch diameter	SSMH-1120	SSMH-1030	PVC	Yes	1979		100	2079	57	2079	LF	\$600	88.15	\$52,890	3	1	3	1	Limited Monitoring
SSGM-5351 SSGM-5356	Gravity Main Gravity Main	E	Preston St Bear Hill Rd	6 inch diameter 8 inch diameter	SSMH-1144 SSMH-1603	SSMH-1141 BHPS	VC PVC	Yes Yes	1940 1979		80 100	2020 2079	-2 57	2022 2079	LF LF	\$600 \$600	308.13 140.44	\$184,878 \$84,264	2	2.1	4.2	2.1	Limited Monitoring
SSGM-5358	Gravity Main	1	Center Rd	8 inch diameter	SSMH-1003	SSMH-1231	PVC	Yes	1979		100	2079	57	2079	LF	\$600	129.75	\$77,850	1	1	1	1	Limited Monitoring
SSGM-5359	Gravity Main	I	Center Rd	8 inch diameter	SSMH-1231	SSMH-1234	AC	Yes	1940		80	2020	-2	2022	LF	\$600	237.62	\$142,572	1	1	1	1	Limited Monitoring
SSGM-5360	Gravity Main	E	Preston St	6 inch diameter	SSMH-1132	SSMH-1129	VC	Yes	1940		80	2020	-2	2022	LF	\$600 \$600	151.05	\$90,630	2	1	2	1	Limited Monitoring
SSGM-5361 SSGM-5362	Gravity Main Gravity Main	E	Preston St Preston St	6 inch diameter 6 inch diameter	SSMH-1135 SSMH-1138	SSMH-1132 SSMH-1135	VC VC	Yes Yes	1940 1940		80 80	2020 2020	-2 -2	2022 2022	LF	\$600 \$600	404.19 237.78	\$242,514 \$142,668	2	5.142	10.284	5.142 5	Priority Renewal Priority Renewal
SSGM-5363	Gravity Main	F	Bradford Cir	8 inch diameter	SSMH-1136 SSMH-1972	SSMH-1135 SSMH-1969	PVC	Yes	1940		100	2020	-2	2022	LF	\$600	107.81	\$64,686	1	1	1	1	Limited Monitoring
SSGM-5364	Gravity Main	F	Bradford Cir	8 inch diameter	SSMH-1969	SSMH-1966	PVC	Yes	1980		100	2080	58	2080	LF	\$600	130.15	\$78,090	1	1	1	1	Limited Monitoring
SSGM-5365	Gravity Main	F	Bradford Cir	8 inch diameter	SSMH-1966	SSMH-1963	PVC	Yes	1980		100	2080	58	2080	LF	\$600	197.06	\$118,236	1	1	1	1	Limited Monitoring
SSGM-5366 SSGM-5367	Gravity Main Gravity Main	F	Bradford Cir Bradford Cir	8 inch diameter 8 inch diameter	SSMH-1963 SSMH-1975	SSMH-1936 SSMH-1972	PVC PVC	Yes Yes	1980 1980		100 100	2080 2080	58 58	2080 2080	LF	\$600 \$600	192.9 117.13	\$115,740 \$70,278	1	1	1	1	Limited Monitoring
SSGM-5368	Gravity Main	F	Bradford Cir	8 inch diameter	SSMH-1978	SSMH-1975	PVC	Yes	1980		100	2080	58	2080	LF	\$600	198.86	\$119,316	1	1	1	1	Limited Monitoring
SSGM-5369	Gravity Main	A	Willow Rock Rd XC	8 inch diameter	SSMH-2266	SSMH-2263	PVC	Yes	1980		100	2080	58	2080	LF	\$600	211.46	\$126,876	4	1	4	1	Frequent Monitoring
SSGM-5370	Gravity Main	G	W Main St	6 inch diameter	SSMH-1630	SSMH-1636	VC	Yes	1940		80 80	2020	-2	2022	LF	\$600 \$600	321.21	\$192,726	4	5.232	20.928	5.232	Highest Risk
SSGM-5371 SSGM-5372	Gravity Main Gravity Main	D	High St Madison Cir	6 inch diameter 8 inch diameter	SSMH-1519 SSMH-2188	SSMH-1516 SSMH-2191	VC PVC	Yes Yes	1940 1980		100	2020 2080	-2 58	2023 2080	LF	\$600	336.01 288.07	\$201,606 \$172,842	1	4.332	4.332	4.332	Priority Renewal Limited Monitoring
SSGM-5373	Gravity Main	D	Madison Cir	8 inch diameter	SSMH-2191	SSMH-2197	PVC	Yes	1980		100	2080	58	2080	LF	\$600	298.52	\$179,112	1	1	1	1	Limited Monitoring
SSGM-5375	Gravity Main	D	Madison Cir	8 inch diameter	SSMH-2194	SSMH-2068	PVC	Yes	1980		100	2080	58	2080	LF	\$600	137.47	\$82,482	1	1	1	1	Limited Monitoring
SSGM-5378 SSGM-5379	Gravity Main Gravity Main	C	Pine Ridge Rd XC Pearl St	8 inch diameter 6 inch diameter	SSMH-1303 SSMH-1504	SSMH-1297 SSMH-1528	PVC VC	Yes Yes	1980 1940		100 80	2080 2020	-2	2080 2022	LF	\$600 \$600	240.33 268.51	\$144,198 \$161,106	3	2.1 5.121	6.3 5.121	2.1 5.121	Limited Monitoring Priority Renewal
SSGM-5380	Gravity Main	C	Pearl St	6 inch diameter	SSMH-1528	SSMH-1520	VC	Yes	1940		80	2020	-2	2022	LF	\$600	158.89	\$95,334	2	4.131	8.262	4.131	Priority Renewal
SSGM-5381	Gravity Main	С	Prospect St	6 inch diameter	SSFT-010	SSMH-1432	VC	Yes	1940		80	2020	-2	2022	LF	\$600	153.75	\$92,250	1	3.1	3.1	3.1	Frequent Monitoring
SSGM-5382	Gravity Main	С	Bear Hill Rd	8 inch diameter	SSMH-1609	SSMH-1561	PVC	Yes	1979		100	2079	57	2079	LF	\$600	75.35	\$45,210	3	1	3	1	Limited Monitoring
SSGM-5383 SSGM-5384	Gravity Main Gravity Main	C C	River St XC Bear Hill Rd	8 inch diameter 10 inch diameter	SSMH-1429 SSMH-1426	SSMH-1006 SSMH-1429	PVC VC	No Yes	1979 1979		85 80	2064 2059	42 37	2064 2059	LF	\$600 \$600	266.35 59.17	\$159,810 \$35,502	5	2	10 5	2	Frequent Monitoring Frequent Monitoring
SSGM-5385	Gravity Main	C	Hill St	8 inch diameter	SSMH-1462	SSMH-1456	PVC	Yes	1980		100	2080	58	2080	LF	\$600	183.88	\$110,328	1	1	1	1	Limited Monitoring
SSGM-5386	Gravity Main	С	W Mill St	8 inch diameter	SSMH-1540	SSMH-1555	VC	Yes	1940		80	2020	-2	2022	LF	\$600	233.17	\$139,902	1	3.1	3.1	3.1	Frequent Monitoring
SSGM-5387 SSGM-5396	Gravity Main	H	Henniker St Whittemore St	10 inch diameter	SSMH-1174 SSMH-1267	SSMH-1168 SSMH-1267A	PVC VC	Yes Yes	1979 1940		100 80	2079 2020	57 -2	2079 2022	LF	\$600 \$600	70.58 245.43	\$42,348	5	1	5	1 5	Frequent Monitoring Priority Renewal
SSGM-5396A	Gravity Main Gravity Main	H	Whittemore St	6 inch diameter 6 inch diameter	SSMH-1267A	SSMH-1207A	AC	Yes	1940		80	2020	-2	2022	LF	\$600	243.43	\$147,258 \$12,300	2	1	2	1	Limited Monitoring
SSGM-5396B		Н	Whittemore St	8 inch diameter	SSMH-1267B	SSMH-1273	PVC	Yes	1979		100	2079	57	2079	LF	\$600	20.11	\$12,066	2	1	2	1	Limited Monitoring
SSGM-5397	Gravity Main	I C	Blair Ave XC	8 inch diameter	SSMH-1297	SSMH-1195	PVC	Yes	1980		100	2080	58	2080	LF	\$600 \$600	244.45	\$146,670	3	2.511	7.533	2.511	Limited Monitoring
SSGM-5398 SSGM-5399	Gravity Main Gravity Main	G	W Main St W Main St	12 inch diameter 12 inch diameter	SSMH-1684 SSMH-1744	SSMH-1744 SSMH-1747	PVC PVC	Yes Yes	1980 1980		100 100	2080 2080	58 58	2080 2080	LF LF	\$600 \$600	283.33 162.83	\$169,998 \$97,698	5	1	5	1	Frequent Monitoring Frequent Monitoring
SSGM-5400	Gravity Main	G	Armory Yard	12 inch diameter	SSMH-1744 SSMH-1747	SSMH-1750	PVC	Yes	1980		100	2080	58	2080	LF	\$600	170.91	\$102,546	5	1	5	1	Frequent Monitoring
SSGM-5401	Gravity Main	G	Armory Yard	12 inch diameter	SSMH-1750	SSMH-1753	PVC	Yes	1980		100	2080	58	2080	LF	\$600	170.31	\$102,186	5	1	5	1	Frequent Monitoring
SSGM-5402		G	Armory Yard	12 inch diameter	SSMH-1753	SSMH-1615	PVC	Yes	1980 1980		100 100	2080	58	2080	LF	\$600 \$600	125.4	\$75,240 \$178,518	5	1	5	1	Frequent Monitoring
SSGM-5403 SSGM-5404	Gravity Main Gravity Main	G	Angus Lea Golf Course XC Angus Lea Golf Course XC	12 inch diameter 12 inch diameter	SSMH-1615 SSMH-1618	SSMH-1618 SSMH-1621	PVC PVC	Yes Yes	1980		100	2080 2080	58 58	2080 2080	LF LF	\$600 \$600	297.53 319.75	\$178,518 \$191,850	5	1	5	1	Frequent Monitoring Frequent Monitoring
SSGM-5405		G	W Main St XC	12 inch diameter	SSMH-1621	SSMH-1624	PVC	Yes	1980		100	2080	58	2080	LF	\$600	196.57	\$117,942	5	1	5	1	Frequent Monitoring
SSGM-5406	Gravity Main	G	W Main St XC	12 inch diameter	SSMH-1624	SSMH-1627	PVC	Yes	1980		100	2080	58	2080	LF	\$600	264.89	\$158,934	5	1	5	1	Frequent Monitoring
SSGM-5407 SSGM-5407A		G	W Main St XC W Main St	12 inch diameter 12 inch diameter	SSMH-1627 SSMH-1627A	SSMH-1627A SSMH-1642	PVC PVC	No No	1980 1979		100 100	2080 2079	58 57	2080 2079	LF LF	\$600 \$600	333.35 212.27	\$200,010 \$127,362	5	2	10 10	2	Frequent Monitoring Frequent Monitoring
SSGM-5407A SSGM-5408		B	Hoyt Ln	4 inch diameter	SSFT-013	SSFT-014	PVC	Yes	1979		100	2079	58	2079	LF	\$600	231.74	\$139,044	2	5.1	10.2	5.1	Priority Renewal
SSGM-5409	Gravity Main	В	River St	10 inch diameter	SSMH-1024	SSMH-1018	PVC	Yes	1979		100	2079	57	2079	LF	\$600	16.83	\$10,098	1	1	1	1	Limited Monitoring
	Gravity Main	F	W Main St	12 inch diameter	SSMH-1792	SSMH-1771	PVC	Yes	1980		100	2080	58	2080	LF	\$600 \$600	66.07	\$39,642	4	2	8	2	Frequent Monitoring
SSGM-5413 SSGM-5417	Gravity Main Gravity Main	G	Municipal Dr Depot St	Unknown 6 inch diameter	SSMH-1888 SSMH-1114	SSMH-2325 SSMH-1111	PVC VC	No Yes	1980 1940		100 80	2080 2020	58 -2	2080 2022	LF LF	\$600 \$600	152.98 158.76	\$91,788 \$95,256	4	1 3.3	4 3.3	1 3.3	Frequent Monitoring
SSGM-5417 SSGM-5422			Hillcat Dr	8 inch diameter	SSMH-1114 SSMH-1222	SSMH-1111 SSMH-1219	AC	No	1940		80	2020	-2	2022	LF	\$600	298.59	\$95,250	4	2	8	2	Frequent Monitoring
SSGM-5423	Gravity Main	l l	Hillcat Dr	8 inch diameter	SSMH-1216	SSMH-1213	AC	No	1980		80	2060	38	2060	LF	\$600	304.09	\$182,454	4	2	8	2	Frequent Monitoring
SSGM-5424		C	Pearl St	6 inch diameter	SSMH-1531	SSMH-1555	VC	Yes	1940		80	2020	-2	2022	LF	\$600	87.2	\$52,320	2	3.1	6.2	3.1	Frequent Monitoring
SSGM-5425 SSGM-5426	Gravity Main Gravity Main	EB	Norton Dr School St	12 inch diameter 8 inch diameter	SSMH-1030 SSMH-1333	SSMH-1027 SSFT-007	PVC VC	Yes Yes	1979 1940		100 80	2079 2020	57 -2	2079 2022	LF LF	\$600 \$600	136.06 128.65	\$81,636 \$77,190	5	1 3.8	5 15.2	1 3.8	Frequent Monitoring Frequent Monitoring
	Gravity Main	B	Myrtle St	8 inch diameter	SSMH-1333 SSMH-1336	SSFT-007 SSFT-007	VC	Yes	1940		80	2020	-2	2022	LF	\$600	36.1	\$77,190	4	3.8	4	3.0 1	Frequent Monitoring
SSGM-5427A	Gravity Main	В	School St	8 inch diameter	SSFT-007	SSMH-1330	VC	Yes	1940		80	2020	-2	2022	LF	\$600	288.31	\$172,986	5	2.1	10.5	2.1	Frequent Monitoring
SSGM-5428		C	Wyman St	6 inch diameter	SSMH-1498	SSMH-1495	VC	Yes	1940		80	2020	-2	2022	LF	\$600 \$600	320.52	\$192,312	1	5.133	5.133	5.133	Priority Renewal
	Gravity Main Gravity Main	C A	Bridge St Butler St	8 inch diameter 8 inch diameter	SSMH-1573 SSMH-1663	SSMH-1576 SSMH-1660	PVC PVC	Yes Yes	2018 1980		100 100	2118 2080	96 58	2118 2080	LF LF	\$600 \$600	55.93 197.76	\$33,558 \$118,656	3	1	3	1	Limited Monitoring
30011-0400	Cravity Mail	A	Dation Of	S mon diametel	55141-1003	00001-1000		103	1000		100	2000	00	2000		\$000	101.10	φ/10,000	-		-		Linited Monitoring

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Hillsborough Collection Syste	m Pipe Data	Table	Year 1	Year 2		-	Year 5	-		-	Year 9	Year 10	0 - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100	0 - 100	
	Sower Booin	Street	2022	2022	2024	2025	2026	2027	2020	2020	2020	2024	2022 2024	2022 2044	2042 2054	2052 2064	2062 2074	2072-2082	2092 2004	2002 2404	2402 2444	2442 2424	2022 2424	100-Yr Replacement
Asset ID Asset Type SSGM-5325 Gravity Main	D D	Street Jefferson Dr XC	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2022-2031	2032-2041	2042-2051	2052-2061	2062-2071	\$172,944	2082-2091	2092-2101	2102-2111	2112-2121	2022-2121 \$172,944	Count 1
SSGM-5326 Gravity Main	D	Jefferson Dr XC																\$98,340					\$98,340	1
SSGM-5327 Gravity Main	В	River St																\$106,896					\$106,896	1
SSGM-5328 Gravity Main		Blair Ave																\$146,232					\$146,232	1
SSGM-5329 Gravity Main SSGM-5330 Gravity Main	E D	Henniker St Jefferson Dr																\$225,450 \$104,268					\$225,450 \$104,268	1
SSGM-5331 Gravity Main	C	Bear Hill Rd															\$85,548	\$104,200					\$85,548	1
SSGM-5332 Gravity Main	A	Myrtle St															<i>•••••••••••••••••••••••••••••••••••••</i>	\$213,906					\$213,906	1
SSGM-5333 Gravity Main	С	Briggs St	\$42,492										\$42,492										\$42,492	1
SSGM-5334 Gravity Main	F	Gibson Rd																\$179,130					\$179,130	1
SSGM-5335 Gravity Main SSGM-5336 Gravity Main	D B	Blair Ave XC Church St	\$142,584										\$142,584					\$194,196					\$194,196 \$142,584	1
SSGM-5339 Gravity Main	D	Jefferson Dr XC	ψ142,304										ψ142,004					\$49,710					\$49,710	1
SSGM-5342 Gravity Main	E	Depot St	\$57,876										\$57,876										\$57,876	1
SSGM-5344 Gravity Main	G	Municipal Dr XC																\$34,320					\$34,320	1
SSGM-5345 Gravity Main SSGM-5346 Gravity Main	G	Municipal Dr Lincoln Cir																\$153,012 \$147,030					\$153,012 \$147,030	1
SSGM-5346 Gravity Main SSGM-5347 Gravity Main	D	Madison Cir																\$186,840					\$147,030	1
SSGM-5348 Gravity Main	1	Blair Ave																\$170,364					\$170,364	1
SSGM-5349 Gravity Main	I	Pine Ridge Rd																\$132,042					\$132,042	1
SSGM-5349A Gravity Main	1	Pine Ridge Rd																\$119,802					\$119,802	1
SSGM-5350 Gravity Main SSGM-5351 Gravity Main	E	Preston St Preston St	¢104.070										\$184,878					\$52,890					\$52,890	1
SSGM-5351 Gravity Main SSGM-5356 Gravity Main	C	Preston St Bear Hill Rd	\$184,878										\$104,078					\$84,264					\$184,878 \$84,264	1
SSGM-5358 Gravity Main	I	Center Rd																\$77,850					\$77,850	1
SSGM-5359 Gravity Main	1	Center Rd	\$142,572										\$142,572										\$142,572	1
SSGM-5360 Gravity Main	E	Preston St	\$90,630										\$90,630										\$90,630	1
SSGM-5361 Gravity Main	E	Preston St	\$242,514										\$242,514										\$242,514	1
SSGM-5362 Gravity Main SSGM-5363 Gravity Main	E F	Preston St Bradford Cir	\$142,668										\$142,668					\$64,686					\$142,668 \$64,686	1
SSGM-5364 Gravity Main	F	Bradford Cir																\$78,090					\$78,090	1
SSGM-5365 Gravity Main	F	Bradford Cir																\$118,236					\$118,236	1
SSGM-5366 Gravity Main	F	Bradford Cir																\$115,740					\$115,740	1
SSGM-5367 Gravity Main	F	Bradford Cir																\$70,278					\$70,278	1
SSGM-5368 Gravity Main SSGM-5369 Gravity Main	A	Bradford Cir Willow Rock Rd XC																\$119,316 \$126,876					\$119,316 \$126,876	1
SSGM-5370 Gravity Main	G	W Main St	\$192,726										\$192,726					\$120,070					\$192,726	1
SSGM-5371 Gravity Main	C	High St	.	\$201,606									\$201,606										\$201,606	1
SSGM-5372 Gravity Main	D	Madison Cir																\$172,842					\$172,842	1
SSGM-5373 Gravity Main	D	Madison Cir																\$179,112					\$179,112	1
SSGM-5375 Gravity Main SSGM-5378 Gravity Main	D	Madison Cir Pine Ridge Rd XC																\$82,482 \$144,198					\$82,482 \$144,198	1
SSGM-5379 Gravity Main	C	Pine Ridge Rd XC	\$161,106										\$161,106					\$144,190					\$161,106	1
SSGM-5380 Gravity Main	C	Pearl St	 ,	\$95,334									\$95,334										\$95,334	1
SSGM-5381 Gravity Main	С	Prospect St	\$92,250										\$92,250										\$92,250	1
SSGM-5382 Gravity Main	С	Bear Hill Rd															* (= 0, 0, (0)	\$45,210					\$45,210	1
SSGM-5383 Gravity Main SSGM-5384 Gravity Main	C C	River St XC Bear Hill Rd														\$35,502	\$159,810						\$159,810 \$35,502	1
SSGM-5384 Gravity Main SSGM-5385 Gravity Main	C C	Hill St														\$35,502		\$110,328					\$110,328	1
SSGM-5386 Gravity Main	C	W Mill St	\$139,902										\$139,902					¢6,626					\$139,902	1
SSGM-5387 Gravity Main	Н	Henniker St																\$42,348					\$42,348	1
SSGM-5396 Gravity Main	Н	Whittemore St	\$147,258										\$147,258										\$147,258	1
SSGM-5396A Gravity Main SSGM-5396B Gravity Main	H	Whittemore St Whittemore St	\$12,300										\$12,300					\$12,066					\$12,300 \$12,066	1
SSGM-5396B Gravity Main		Blair Ave XC																\$12,000					\$12,000	1
SSGM-5398 Gravity Main	G	W Main St																\$169,998					\$169,998	1
SSGM-5399 Gravity Main	G	W Main St																\$97,698					\$97,698	1
SSGM-5400 Gravity Main	G	Armory Yard																\$102,546					\$102,546	1
SSGM-5401 Gravity Main SSGM-5402 Gravity Main	G	Armory Yard Armory Yard																\$102,186 \$75,240					\$102,186 \$75,240	1
SSGM-5402 Gravity Main	G	Angus Lea Golf Course XC																\$178,518					\$178,518	1
SSGM-5404 Gravity Main	G	Angus Lea Golf Course XC																\$191,850					\$191,850	1
SSGM-5405 Gravity Main	G	W Main St XC																\$117,942					\$117,942	1
SSGM-5406 Gravity Main	G	W Main St XC																\$158,934					\$158,934	1
SSGM-5407 Gravity Main SSGM-5407A Gravity Main	G	W Main St XC W Main St																\$200,010 \$127,362					\$200,010 \$127,362	1
SSGM-5407A Gravity Main SSGM-5408 Gravity Main	B	Hoyt Ln																\$127,362 \$139,044					\$127,362 \$139,044	1
SSGM-5409 Gravity Main	B	River St																\$10,098					\$10,098	1
SSGM-5410 Gravity Main	F	W Main St																\$39,642					\$39,642	1
SSGM-5413 Gravity Main	G	Municipal Dr											***					\$91,788					\$91,788	1
SSGM-5417 Gravity Main	E	Depot St	\$95,256										\$95,256			¢170.454							\$95,256 \$170,154	1
SSGM-5422 Gravity Main SSGM-5423 Gravity Main	1	Hillcat Dr Hillcat Dr														\$179,154 \$182,454							\$179,154 \$182,454	1
SSGM-5423 Gravity Main	C	Pearl St	\$52,320										\$52,320			ψ102, 1 04							\$52,320	1
SSGM-5425 Gravity Main	Ē	Norton Dr	,										,,					\$81,636					\$81,636	1
SSGM-5426 Gravity Main	В	School St	\$77,190										\$77,190										\$77,190	1
SSGM-5427 Gravity Main	B	Myrtle St	\$21,660										\$21,660										\$21,660	1
SSGM-5427A Gravity Main SSGM-5428 Gravity Main	B C	School St Wyman St	\$172,986 \$192,312										\$172,986 \$192,312										\$172,986 \$192,312	1
SSGM-5428 Gravity Main	C	Bridge St	ψ132,312										ψ132,312									\$33,558	\$33,558	1
SSGM-5430 Gravity Main	A	Butler St																\$118,656				÷:0,000	\$118,656	1

Hillsborough C	Collection Syste	em Pipe Data Ta	able																				
					Upstream	Downstream			Year	Year	Useful	End Useful	Remaining	Replacement	t I		Length	Replacement	Impact of	Probability	Risk	Condition	
Asset ID	Asset Type	Sewer Basin	Street	Diameter	Manhole	Manhole	Material	Inspected	Installed	Lined	Life	Life	Useful Life	Year	Unit	Unit Cost	(LF)	Cost	Failure	of Failure	Score	Score	Criticality
SSGM-5431	Gravity Main	F	Symonds Rd	8 inch diameter	SSMH-1912	SSMH-1909	PVC	Yes	1980		100	2080	58	2080	LF	\$600	137.79	\$82,674	2	1	2	1	Limited Monitoring
SSGM-5432	Gravity Main	D	Lincoln Cir	8 inch diameter	SSMH-2080	SSMH-2077	PVC	Yes	1980		100	2080	58	2080	LF	\$600	150.36	\$90,216	1	1	1	1	Limited Monitoring
SSGM-5433	Gravity Main	1	Center Rd	8 inch diameter	SSMH-1228	SSMH-1213	PVC	Yes	1979		100	2079	57	2079	LF	\$600	84.01	\$50,406	3	1	3	1	Limited Monitoring
SSGM-5434	Gravity Main	A	W Main St	6 inch diameter	SSFT-008	SSMH-1657	VC	Yes	1940		80	2020	-2	2022	LF	\$600	325.84	\$195,504	4	3.12	12.48	3.12	Frequent Monitoring
SSGM-5435	Gravity Main	С	Wyman St	6 inch diameter	SSFT-009	SSMH-1504	VC	Yes	1940		80	2020	-2	2022	LF	\$600	352.52	\$211,512	1	5.111	5.111	5.111	Priority Renewal
SSGM-5436	Gravity Main	E	Preston St	6 inch diameter	SSMH-1105	SSMH-1103	VC	Yes	1940		80	2020	-2	2022	LF	\$600	190.71	\$114,426	3	5.132	15.396	5.132	Priority Renewal
SSGM-5437	Gravity Main	E	Norton Dr	10 inch diameter	SSMH-2245	SSMH-1027	PVC	No	1979		100	2079	57	2079	LF	\$600	6.14	\$3,684	3	2	6	2	Limited Monitoring
SSGM-5438	Gravity Main	I	Center Rd	Unknown	SSMH-1243	SSMH-1240	PVC	No	1979		100	2079	57	2079	LF	\$600	420.85	\$252,510	3	2	6	2	Limited Monitoring
SSGM-5439	Gravity Main	I	Center Rd	Unknown	SSMH-1240	SSMH-1246	PVC	No	1980		100	2080	58	2080	LF	\$600	208.14	\$124,884	3	2	6	2	Limited Monitoring
SSGM-5440	Gravity Main	I	Center Rd	Unknown	SSMH-1246	SSMH-1249	PVC	No	1979		100	2079	57	2079	LF	\$600	91	\$54,600	3	1	3	1	Limited Monitoring
SSGM-5441	Gravity Main	I	Access Rd	8 inch diameter	SSMH-1249	SSMH-1258	PVC	Yes	1980		100	2080	58	2080	LF	\$600	300	\$180,000	3	1	3	1	Limited Monitoring
SSGM-5442	Gravity Main	I	Access Rd	8 inch diameter	SSMH-1258	SSMH-1264	PVC	Yes	1980		100	2080	58	2080	LF	\$600	305	\$183,000	3	1	3	1	Limited Monitoring
SSGM-5443	Gravity Main	I	Access Rd	8 inch diameter	SSMH-1264	SSMH-1270	PVC	Yes	1980		100	2080	58	2080	LF	\$600	135	\$81,000	3	1	3	1	Limited Monitoring
SSGM-5444	Gravity Main	I	Access Rd XC	8 inch diameter	SSMH-1270	SSMH-1279	PVC	Yes	1980		100	2080	58	2080	LF	\$600	220	\$132,000	3	1	3	1	Limited Monitoring
SSGM-5445	Gravity Main	I	Access Rd XC	8 inch diameter	SSMH-1279A	SSMH-1288	PVC	Yes	1980		100	2080	58	2080	LF	\$600	11.48	\$6,888	3	1	3	1	Limited Monitoring
SSGM-5445A	Gravity Main	I	Access Rd XC	8 inch diameter	SSMH-1279	SSMH-1279A	PVC	Yes	1980		100	2080	58	2080	LF	\$600	172.25	\$103,350	3	1	3	1	Limited Monitoring
SSGM-5446	Gravity Main	1	Access Rd XC	8 inch diameter	SSMH-1288	SSMH-1288A	DI	Yes	1980		85	2065	43	2065	LF	\$600	382.92	\$229,752	3	1	3	1	Limited Monitoring
SSGM-5446A	Gravity Main		Access Rd XC	8 inch diameter	SSMH-1288A	SSMH-1288B	PVC	Yes	1980		100	2080	58	2080	LF	\$600	18.61	\$11,166	3	1	3	1	Limited Monitoring
SSGM-5446B	Gravity Main		Access Rd XC	8 inch diameter	SSMH-1288B	SSMH-1288C	PVC	Yes	1980		100	2080	58	2080	LF	\$600	112.58	\$67.548	3	1	3	1	Limited Monitoring
SSGM-5446C	Gravity Main	· ·	Access Rd XC		SSMH-1288C	SSMH-1288D	PVC	Yes	1980		100	2080	58	2080	LF	\$600	118.44	\$71,064	3	1	3	1	Limited Monitoring
SSGM-5447	Gravity Main		Sunnyridge Dr	8 inch diameter	SSMH-1288D	SSMH-1303	PVC	Yes	1980		100	2080	58	2080	LF	\$600	327.53	\$196,518	3	1	3	1	Limited Monitoring
SSGM-5450	Gravity Main	Ċ	Bridge Street	8 inch diameter	SSMH-1492	SSMH-1573	PVC	No	2018		100	2118	96	2118	LF	\$600	280.93	\$168,558	3	1	3	1	Limited Monitoring
SSGM-5451	Gravity Main	C	Bridge Street	8 inch diameter	SSMH-2270	SSMH-1492	PVC	No	2018		100	2118	96	2118	LF	\$600	183.62	\$110,172	3	1	3	1	Limited Monitoring
SSGM-5452	Gravity Main	C	Bridge Street	8 inch diameter	SSMH-2271	SSMH-2270	PVC	No	2018		100	2118	96	2118	LF	\$600	185.95	\$111,570	3	1	3	1	Limited Monitoring
SSGM-5453	Gravity Main	C	Prospect Street	8 inch diameter	SSMH-2272	SSMH-2271	PVC	No	2018		100	2118	96	2118	LF	\$600	20.14	\$12.084	3	1	3	1	Limited Monitoring
SSGM-5454	Gravity Main	C	Prospect Street	8 inch diameter	SSMH-2272	SSMH-2272	PVC	No	2018		100	2118	96	2118	LF	\$600	106.3	\$63,780	1	1	1	1	Limited Monitoring
SSGM-5455	Gravity Main	C	Bridge Street	8 inch diameter	SSMH-1438	SSMH-2271	PVC	No	2018		100	2118	96	2118	LF	\$600	79.49	\$47,694	3	1	3	1	Limited Monitoring
SSGM-5456	Gravity Main	C C	Summer Street	8 inch diameter	SSMH-2274	SSMH-1438	PVC	No	2018		100	2118	96	2118	LF	\$600	51.33	\$30,798	2	1	2	1	Limited Monitoring
SSGM-5460	Gravity Main	F	Route 202 Ext	8 inch diameter	SSMH-1768	SSMH-1430	PVC	No	1999		100	2099	77	2099	LF	\$600	299.73	\$179,838	4	1	4	1	Frequent Monitoring
SSGM-5461	Gravity Main	F	Route 202 Ext	8 inch diameter	SSMH-1765	SSMH-1768	PVC	No	1999		100	2099	77	2099	LF	\$600	314.99	\$188,994	4	1	4	1	Frequent Monitoring
SSGM-5462	Gravity Main	F	Bible Hill Rd	8 inch diameter	SSMH-1762	SSMH-1765	PVC	No	1999		100	2035	77	2099	LF	\$600	55.15	\$33,090	3	1	3	1	Limited Monitoring
SSGM-5463	Gravity Main	F	Bible Hill Rd	8 inch diameter	SSMH-1759	SSMH-1762	PVC	No	1999		100	2035	77	2099	LF	\$600	103.77	\$62,262	3	2	6	2	Limited Monitoring
SSGM-5464	Gravity Main	F	Bible Hill Rd XC	8 inch diameter	SSMH-1739	SSMH-2275	PVC	No	1999		100	2035	77	2099	LF	\$600	68.31	\$40,986	3	1	3	0	Limited Monitoring
SSGM-5465	Gravity Main	F	Bible Hill Rd	8 inch diameter	SSMH-1759	SSMH-2300	PVC	No	1999		100	2099	57	2099	LF	\$600	107.98	\$64,788	3	2	6	0	Limited Monitoring
SSGM-5466	Gravity Main		Route 202 Ext	8 inch diameter	SSMH-1759 SSMH-2301	SSMH-2300	DI	No	1979		85	2079	62	2079	LF	\$600	153.15	\$91.890	4	2	4	0	Frequent Monitoring
SSGM-5466 SSGM-5467	Gravity Main	F E	Route 202 Ext	8 inch diameter	SSMH-2301 SSMH-2302	SSMH-1765 SSMH-2301	PVC	No	1999		100	2084	77	2084	LF	\$600	52.27	\$91,890	4	1	4	0	Frequent Monitoring
SSGM-5467 SSGM-5468		F	Route 202 Ext	8 inch diameter	SSMH-2302 SSMH-2303	SSMH-2301 SSMH-2302	PVC	No	1999		100	2099	77	2099	LF	\$600	298.41	\$179.046	4	1	4	0	
	Gravity Main	F		-			-				85		62		LF			1 1/1 1	4	1	4	0	Frequent Monitoring
SSGM-5469	Gravity Main	F	Route 202 Ext Route 202 Ext	8 inch diameter	SSMH-2304	SSMH-2303	DI PVC	No	1999		85 100	2084 2099	62	2084	LF	\$600 \$600	299.09 135.86	\$179,454	4	1	4	0	Frequent Monitoring
SSGM-5470	Gravity Main			8 inch diameter	SSMH-2305	SSMH-2304	-	No	1999					2099				\$81,516	4	1	4	•	Frequent Monitoring
SSGM-5471	Gravity Main	F	Route 202 Ext	8 inch diameter	SSMH-2306	SSMH-2305	DI	No	1999		85	2084	62 77	2084	LF	\$600	125.05	\$75,030		1	4	0	Frequent Monitoring
SSGM-5472	Gravity Main	F	Route 202 Ext XC	8 inch diameter	SSMH-2307	SSMH-2306	PVC	No	1999		100	2099		2099	LF	\$600	66.52	\$39,912	3	1	-	0	Limited Monitoring
SSGM-5473	Gravity Main	F	Route 202 Ext XC	8 inch diameter	SSMH-2308	SSMH-2307	PVC	No	1999		100	2099	77	2099	LF	\$600	104.6	\$62,760	3	1	3	0	Limited Monitoring
SSGM-5474	Gravity Main	-	Route 202 Ext XC	8 inch diameter	SSMH-2309	SSMH-2308	PVC	No	1999		100	2099	77	2099	LF	\$600	295.56	\$177,336	3	1	3	0	Limited Monitoring
SSGM-5475	Gravity Main	F	Route 202 Ext XC	8 inch diameter	SSMH-2310	SSMH-2309	PVC	No	1999		100	2099	77	2099	LF	\$600	304.44	\$182,664	3	1	3	0	Limited Monitoring
SSGM-5476	Gravity Main	F	Route 202 Ext XC	8 inch diameter	SSMH-1939	SSMH-2310	PVC	No	1999		100	2099	77	2099	LF	\$600	320.36	\$192,216	3	1	3	0	Limited Monitoring
SSGM-5477	Gravity Main	F	Route 202 Ext XC	8 inch diameter	SSMH-1816	SSMH-2307	PVC	No	1999		100	2099	77	2099	LF	\$600	202.64	\$121,584	3	1	3	0	Limited Monitoring
SSGM-5478	Gravity Main	F	Route 202 Ext XC	8 inch diameter	SSMH-1813	SSMH-1816	PVC	No	1999		100	2099	77	2099	LF	\$600	119.27	\$71,562	3	1	3	0	Limited Monitoring
SSGM-5480	Gravity Main	G	Municipal Dr	Unknown	SSMH-2325	SSMH-2326	PVC	No	1980		100	2080	58	2080	LF	\$600	82.09	\$49,254	4	2	8	0	Frequent Monitoring
SSGM-5481	Gravity Main	G	Municipal Dr	Unknown	SSMH-2326	SSMH-1876	PVC	No	1980		100	2080	58	2080	LF	\$600	102.98	\$61,788	4	2	8	0	Frequent Monitoring

					0	co	ST OF AS	SSET REP		IT - FIRST TEN	YEARS							COST	OF ASSET RE	PLACEMENT -	NEXT 100 YEA	RS			
Hillsborough	Collectio	on System	n Pipe Data Ta	ble	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6 Year	7 Year 8	Year 9	Year 10	0 - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100	0 - 100	,
ewereug.																	• •								100-Yr Replacement
Asset ID	Asset '	Type S	Sewer Basin	Street	2022	2023	2024	2025	2026	2027 2028	2029	2030	2031	2022-2031	2032-2041	2042-2051	2052-2061	2062-2071	2072-2082	2082-2091	2092-2101	2102-2111	2112-2121	2022-2121	Count
SSGM-5431	Gravity		F	Symonds Rd	2022	2020	2024	2020	2020	2027 202		2000	2001	2022-2001	2002-2041	2042-2001	2002-2001	2002-2011	\$82.674	2002-2031	2032-2101	2102-2111	2112-2121	\$82.674	1
SSGM-5432			D	Lincoln Cir							_								\$90,216					\$90,216	1
SSGM-5433		-		Center Rd								-							\$50,406					\$50,406	1
SSGM-5434			A	W Main St	\$195.504									\$195.504					φ00,+00					\$195.504	1
SSGM-5435		-	C	Wyman St	\$211,512									\$211,512										\$211,512	1
SSGM-5436			E	Preston St	\$114,426									\$114,426										\$114,426	1
SSGM-5437			F	Norton Dr	ψ114,420									ψ114,420					\$3.684					\$3,684	1
SSGM-5438		,		Center Rd															\$252,510					\$252,510	1
SSGM-5439				Center Rd															\$124,884					\$124,884	1
SSGM-5440			1	Center Rd															\$54.600					\$54,600	1
SSGM-5440				Access Rd															\$180.000					\$180.000	1
SSGM-5441			1	Access Rd															\$183,000					\$183,000	1
SSGM-5442				Access Rd															\$81.000					\$81.000	1
SSGM-5444		-	1	Access Rd XC															\$132.000					\$132,000	1
SSGM-5444		-		Access Rd XC															\$6,888					\$6,888	1
SSGM-5445A			1	Access Rd XC															\$103.350					\$103,350	1
SSGM-5446		-		Access Rd XC														\$229,752	φ105,550					\$229.752	1
SSGM-5446A			1	Access Rd XC														φ229,1J2	\$11,166					\$11,166	1
SSGM-5446B				Access Rd XC															\$67,548					\$67,548	1
SSGM-5446B			1	Access Rd XC															\$71.064					\$71.064	1
																			1 7.5.5					1 7.5.5	1
SSGM-5447				Sunnyridge Dr															\$196,518				¢400 550	\$196,518	1
SSGM-5450			С	Bridge Street																			\$168,558	\$168,558	
SSGM-5451	Gravity	-	C	Bridge Street							_												\$110,172	\$110,172	1
SSGM-5452		-	C	Bridge Street																			\$111,570	\$111,570	1
SSGM-5453			C	Prospect Street							_												\$12,084	\$12,084	1
SSGM-5454			C C	Prospect Street																			\$63,780	\$63,780 \$47,694	1
SSGM-5455	- ,		-	Bridge Street							_												\$47,694	1 1 1 1	1
SSGM-5456			C F	Summer Street															¢470.000				\$30,798	\$30,798 \$179.838	1
SSGM-5460 SSGM-5461		-	F F	Route 202 Ext Route 202 Ext	_														\$179,838		\$188.994			1	1
SSGM-5461 SSGM-5462	Gravity	,	F	Bible Hill Rd								_									\$188,994			\$188,994 \$33,090	1
SSGM-5462 SSGM-5463	Gravity	,	F F	Bible Hill Rd							_										\$33,090			\$33,090	1
			F																					. ,	
SSGM-5464		-	F	Bible Hill Rd XC							_								004 700		\$40,986			\$40,986	1
SSGM-5465	-		F	Bible Hill Rd															\$64,788	¢01.900				\$64,788	
SSGM-5466 SSGM-5467			F	Route 202 Ext Route 202 Ext																\$91,890	\$31.362			\$91,890 \$31,362	1
	Gravity		F																		1				1
SSGM-5468			F	Route 202 Ext							_									\$470 AFA	\$179,046			\$179,046	1
SSGM-5469	Gravity		F	Route 202 Ext																\$179,454	¢04.540			\$179,454	1
SSGM-5470 SSGM-5471			F	Route 202 Ext																\$75.030	\$81,516			\$81,516	1
	- ,	-	F	Route 202 Ext																\$75,030	¢20.010			\$75,030	
SSGM-5472			F	Route 202 Ext XC																	\$39,912			\$39,912	1
SSGM-5473				Route 202 Ext XC							_										\$62,760			\$62,760	1
SSGM-5474		-	F	Route 202 Ext XC																	\$177,336			\$177,336	1
SSGM-5475			F	Route 202 Ext XC																	\$182,664			\$182,664	1
SSGM-5476	-	,	F	Route 202 Ext XC																	\$192,216			\$192,216	1
SSGM-5477	Gravity	-	F	Route 202 Ext XC																	\$121,584			\$121,584	1
SSGM-5478			F	Route 202 Ext XC															A 40.05 (\$71,562			\$71,562	1
SSGM-5480			G	Municipal Dr															\$49,254					\$49,254	1
SSGM-5481	Gravity	y Main	G	Municipal Dr															\$61,788					\$61,788	1

		e Data Table		Year	Useful	End Useful	Remaining	Replacement		Replacement	Impact of	Pro <u>bability</u>	Risk	
Asset ID	Asset Type	Sewer Basin	Street	Installed	Life	Life	Useful Life	Year	Connected to Lined Pipe	Cost	Failure	of Failure		Criticality
SSMH-1000	Sewer Manhole		Norton Drive	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin
SSMH-1003	Sewer Manhole	E	Norton Drive	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin
	Siphon Outlet	С	River Street XC	1980	75	2055	33	2055		\$25,000	5	2	10	Frequent Monitorin
	Sewer Manhole	B	River Street XC	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin
	Sewer Manhole		River Street XC	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin
	Sewer Manhole		River Street XC	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin
	Sewer Manhole		River Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin
	Sewer Manhole		River Street	1940	75	2015	-7	2022		\$0	1	5	5	Priority Renewal
	Sewer Manhole		River Street	1979	75	2054	32	2054		\$0	1	2	2	Limited Monitoring
	Sewer Manhole		Norton Drive	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin
	Sewer Manhole		Norton Drive	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monitorin
	Sewer Manhole		Norton Drive	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitoring
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitoring
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitoring
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitoring
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	3	2	6	
	Sewer Manhole			1979							3	2	-	Limited Monitoring
			Henniker Street		75	2054	32	2054		\$0 \$0			6	Limited Monitoring
	Sewer Manhole		Henniker Street	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitoring
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0 \$0	3	2	6	Limited Monitoring
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitoring
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitoring
	Sewer Manhole		Norton Drive Easement	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitoring
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitoring
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitoring
	Sewer Manhole		Henniker Road	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitoring
	Sewer Manhole		Henniker Road	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitoring
SSMH-1081	Sewer Manhole		Henniker Road	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitoring
	Sewer Manhole		Henniker Road	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitoring
	Sewer Manhole		Henniker Road	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitoring
SSMH-1090	Sewer Manhole	E	Henniker Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitoring
SSMH-1093	Sewer Manhole	E	Norton Drive XC	1940	75	2015	-7	2022	SSGM-5078	\$0	3	5	15	Priority Renewal
SSMH-1093A	Sewer Manhole	E	Norton Drive XC	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitoring
SSMH-1096	Sewer Manhole	E	Preston Street	1940	75	2015	-7	2022	SSGM-5078 & SSGM-5191	\$0	3	5	15	Priority Renewal
SSMH-1099	Sewer Manhole	E	Norton Drive Easement	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitoring
SSMH-1102	Sewer Manhole	E	Preston Street	1940	75	2015	-7	2022	SSGM-5191 & SSGM-5110	\$0	3	5	15	Priority Renewal
SSMH-1103	Sewer Manhole	E	Preston Street	1940	75	2015	-7	2022	SSGM-5110	\$0	3	5	15	Priority Renewal
SSMH-1105	Sewer Manhole	E	Preston Street	1940	75	2015	-7	2022		\$0	3	5	15	Priority Renewal
	Sewer Manhole		Depot Street	1940	75	2015	-7	2022		\$0	3	5	15	Priority Renewal
	Sewer Manhole		Depot Street	1940	75	2015	-7	2022		\$0	1	5	5	Priority Renewal
	Sewer Manhole		Depot Street	1940	75	2015	-7	2022		\$0	1	5	5	Priority Renewal
	Sewer Manhole		Cross Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewal
	Sewer Manhole		Preston Street	1940	75	2015	-7	2022		\$0	3	5	15	Priority Renewal
	Sewer Manhole		Jackson Street	1940	75	2015	-7	2022		\$0	1	5	5	Priority Renewal
	Sewer Manhole		Jackson Street	1940	75	2015	-7	2022		\$0	1	5	5	Priority Renewal
	Sewer Manhole		Preston Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewal
	Sewer Manhole		Preston Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewal
	Sewer Manhole		Preston Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewal
	Sewer Manhole		Preston Street	1940	75	2015	-7	2022		\$0 \$0	2	5	10	Priority Renewal
	Sewer Manhole		Preston Street	1940	75	2015	-7	2022		\$0 \$0	2	5		Priority Renewal
										\$0 \$0		5	10	
	Sewer Manhole		Preston Street	1940	75	2015	-7	2022			2	-	10	Priority Renewal
	Sewer Manhole		Norton Drive Easement	1979	75	2054	32	2054	SSOM FORD & SSOM FORF	\$0	5	2	10	Frequent Monitorin
	Sewer Manhole		Henniker Street	1940	75	2015	-7	2022	SSGM-5010 & SSGM-5245	\$0	3	5	15	Priority Renewal
	Sewer Manhole		Henniker Street	1940	75	2015	-7	2022	SSGM-5245 & SSGM-5032		3	5	15	Priority Renewal
	Sewer Manhole		Henniker Street	1940	75	2015	-7	2022	SSGM-5032 & SSGM-5166		3	5	15	Priority Renewal
	Sewer Manhole		Henniker Street	1940	75	2015	-7	2022	SSGM-5166 & SSGM-5291	\$0	3	5	15	Priority Renewal
	Sewer Manhole		Henniker Street	1980	75	2055	33	2055	SSGM-5291	\$0	3	2	6	Limited Monitoring
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin
	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitoring
SSMH-1171	Sewer Manhole		Henniker Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin
	Sewer Manhole	Н	Henniker Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin

	Sewer Structure			Year	Useful	End Useful	Remaining	Replacement		Replacement	Impact of	Probability	Risk	
Asset ID	Asset Type		Street	Installed	Life	Life	Useful Life	Year	Connected to Lined Pipe	Cost	Failure	of Failure		Criticality
	Sewer Manhole	E	Norton Drive Easement	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorir
	Sewer Manhole	H	Henniker Street	1979	75	2054	32	2054	SSGM-5010	\$0	5	2	10	Frequent Monitorir
SMH-1180A	Sewer Manhole	Н	Holman Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitorin
	Sewer Manhole	Н	Holman Street	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monitorin
	Sewer Manhole	l	Holman Street XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitorir
SSMH-1189	Sewer Manhole	I	Gay Avenue XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitorir
SSMH-1192	Sewer Manhole	I	Blair Avenue XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitori
SSMH-1195	Sewer Manhole	I	Blair Avenue	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitori
SSMH-1198	Sewer Manhole	I	Blair Avenue	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitori
	Sewer Manhole	I	Blair Avenue	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitori
	Sewer Manhole	E	Norton Drive Easement	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitori
	Sewer Manhole		Blair Avenue	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitori
	Sewer Manhole		Blair Avenue	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitori
	Sewer Manhole		School Street	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitori
	Sewer Manhole	-	Hillcat Drive	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitori
	Sewer Manhole	1	Hillcat Drive	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitor
	Sewer Manhole		Hillcat Drive	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitor
	Sewer Manhole		Center Road	1980	75	2055	33	2055			3	2	6	Limited Monitori
	Sewer Manhole		Center Road	1980	75	2055	33	2055		\$0 \$0	3	2	6	Limited Monitori
		-									3 1		-	
	Sewer Manhole		Center Road	1979	75	2054	32	2054		\$0	1	2	2	Limited Monitorin
	Sewer Manhole		Center Road	1980	75	2055	33	2055		\$0		2	2	Limited Monitorin
	Sewer Manhole		Center Road	1979	75	2054	32	2054		\$0	1	2	2	Limited Monitorin
	Sewer Manhole	I	Center Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitori
	Sewer Manhole		Center Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitori
	Sewer Manhole		Center Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitori
	Sewer Manhole		Access Road	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitori
	Sewer Manhole	E	River Street XC	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitor
	Sewer Manhole	D	Jefferson Drive XC	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitori
	Sewer Manhole	I	Access Road	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitori
	Sewer Manhole	Н	Holman Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitor
SMH-1264	Sewer Manhole	I	Access Road	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitorii
SMH-1267	Sewer Manhole	Н	Whittemore Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewa
SMH-1267A	Sewer Manhole	Н	Whittemore Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewa
SMH-1267B	Sewer Manhole	Н	Whittemore Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewa
SMH-1270	Sewer Manhole	I	Access Road	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitori
SMH-1273	Sewer Manhole	Н	Holman Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitor
SMH-1276	Sewer Manhole	Н	Whittemore Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewa
	Sewer Manhole		Access Road XC	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitori
	Sewer Manhole		Access Road XC	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitori
	Sewer Manhole	H	Whittemore Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewa
	Sewer Manhole	H	Park Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewa
	Sewer Manhole		Access Road XC	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitori
	Sewer Manhole		Access Road XC	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitorin
	Sewer Manhole	1	Access Road XC	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitori
	Sewer Manhole		Access Road XC	1980	75	2055	33	2055			3	2	6	
	Sewer Manhole			1980		2055	33	2055		\$0 \$0	3	2		Limited Monitoria
			Sunny Ridge Drive		75					\$0			6	
	Sewer Manhole	H	Gay Avenue	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewa
	Sewer Manhole	H	Williams Road	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole		Blair Avenue XC	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitori
	Sewer Manhole		Pine Ridge Road	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole	I	Pine Ridge Road	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole		Pine Ridge Road	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitor
	Sewer Manhole	Н	Gay Avenue	1940	75	2015	-7	2022		\$0	1	5	5	Priority Renew
	Sewer Manhole	С	River Street XC	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
	Sewer Manhole	В	River Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
SMH-1315	Sewer Manhole	В	River Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitor
	Sewer Manhole	В	West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monitor
	Sewer Manhole	В	Central Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Risk
	Sewer Manhole	В	Central Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Risk
	Sewer Manhole	B	School Street	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monitor
SIVID-1327							~~			~ ~	-			

Isborough Sewer Structure			Year	Useful	End Useful	Remaining	Replacement		Replacement	Impact of	Probability	Risk	
Asset ID Asset Type S	Sewer Basin	Street	Installed	Life	Life	Useful Life	Year	Connected to Lined Pipe	Cost	Failure	of Failure		Criticality
SMH-1333 Sewer Manhole	В	School Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ris
SMH-1336 Sewer Manhole	В	Myrtle Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ris
SMH-1339 Sewer Manhole	B	Myrtle Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ris
SMH-1342 Sewer Manhole	B	Myrtle Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ris
SMH-1345 Sewer Manhole	B	Myrtle Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ris
SMH-1348 Sewer Manhole	B	Myrtle Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ris
SMH-1351 Sewer Manhole	B	Myrtle Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ri
SMH-1354 Sewer Manhole	B	Newman Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Rene
SMH-1357 Sewer Manhole	B	Newman Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Rene
SMH-1360 Sewer Manhole	B	River Street	1940	75	2015	32	2022			5	2		-
				75			2034		\$0	-	5	10	Frequent Mon
SMH-1363 Sewer Manhole	B	Central Street	1940		2015	-7			\$0	2	-	10	Priority Rene
SMH-1366 Sewer Manhole	B	Pleasant Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Ren
SMH-1369 Sewer Manhole	В	Church Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ri
MH-1372 Sewer Manhole	В	Church Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ri
MH-1375 Sewer Manhole	В	Church Street	1980	75	2055	33	2055		\$0	4	2	8	Frequent Mon
MH-1378 Sewer Manhole	В	Church Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest R
MH-1381 Sewer Manhole	В	Brown Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Ren
MH-1384 Sewer Manhole	В	Walnut Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Ren
MH-1387 Sewer Manhole	В	School Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest R
MH-1390 Sewer Manhole	В	Pleasant Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Ren
MH-1393 Sewer Manhole	B	School Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest R
SMH-1396 Sewer Manhole	B	School Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest R
SMH-1399 Sewer Manhole	B	School Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest R
SMH-1402 Sewer Manhole	B	River Street	1979	75	2013	32	2022		\$0	5	2	10	Frequent Mor
										5			
MH-1405 Sewer Manhole	B	River Street	1979	75	2054	32	2054		\$0	-	2	10	Frequent Mor
MH-1408 Sewer Manhole	В	River Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Mor
MH-1411 Sewer Manhole	В	Bridge Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Mor
SMH-1414 Sewer Manhole	В	West Main Street	1980	75	2055	33	2055		\$0	5	2	10	Frequent Mor
SMH-1417 Sewer Manhole	В	School Street	1980	75	2055	33	2055		\$0	5	2	10	Frequent Mor
SMH-1420 Sewer Manhole	В	West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Mor
SMH-1423 Sewer Manhole	В	West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Mor
SMH-1426 Sewer Manhole	С	Bear Hill Road	1979	75	2054	32	2054	SSGM-5171	\$0	5	2	10	Frequent Mor
SMH-1429 Siphon Inlet	С	River Street XC	1979	75	2054	32	2054		\$25,000	5	2	10	Frequent Mon
MH-1432 Sewer Manhole	С	Prospect Street	1940	75	2015	-7	2022		\$0	1	5	5	Priority Ren
SMH-1438 Sewer Manhole	C	Bridge Street	2018	75	2093	71	2093		\$0	3	1	3	Limited Moni
SMH-1441 Sewer Manhole	C	Bridge Street	1940	75	2015	-7	2022		\$0	3	5	15	Priority Ren
SMH-1444 Sewer Manhole	C	Bridge Street	1980	75	2055	33	2055		\$0	3	2	6	Limited Moni
SMH-1447 Sewer Manhole	0 0	Bridge Street	1980	75	2055	33	2055		\$0	3	2	6	Limited Moni
				-					1.5	<u> </u>	_	-	
SMH-1450 Sewer Manhole	C	Bridge Street	1980	75	2055	33	2055		\$0	3	2	6	Limited Moni
SMH-1453 Sewer Manhole	С	Hill Street	1980	75	2055	33	2055		\$0	1	2	2	Limited Moni
SMH-1456 Sewer Manhole	C	Hill Street	1980	75	2055	33	2055		\$0	1	2	2	Limited Moni
SMH-1459 Sewer Manhole	С	Hill Street	1980	75	2055	33	2055		\$0	1	2	2	Limited Moni
SMH-1462 Sewer Manhole	С	Hill Street	1980	75	2055	33	2055		\$0	1	2	2	Limited Moni
SMH-1465 Sewer Manhole	С	Summer Street	1940	75	2015	-7	2022		\$0	1	5	5	Priority Ren
SMH-1468 Sewer Manhole	С	Summer Street	1940	75	2015	-7	2022		\$0	1	5	5	Priority Ren
SMH-1471 Sewer Manhole	С	Union Street	1980	75	2055	33	2055		\$0	1	2	2	Limited Moni
SMH-1474 Sewer Manhole	С	Bear Hill Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Moni
SMH-1477 Sewer Manhole	C	Union Street	1980	75	2055	33	2055		\$0	1	2	2	Limited Moni
SMH-1480 Sewer Manhole	C	Union Street	1980	75	2055	33	2055		\$0	1	2	2	Limited Moni
SMH-1483 Sewer Manhole	C	Union Street	1980	75	2055	33	2055		\$0	1	2	2	Limited Mon
SMH-1486 Sewer Manhole	C	Wyman Street	1980	75	2055	33	2055		\$0	2	2	4	Limited Mon
			1980	75	2055	33	2055		\$0	2		4	
SMH-1489 Sewer Manhole	C	Wyman Street									2		Limited Mon
MH-1492 Sewer Manhole	C	Bridge Street	2018	75	2093	71	2093		\$0	3	1	3	Limited Mon
	С	Wyman Street	1980	75	2055	33	2055		\$0	2	2	4	Limited Mon
	С	Wyman Street	1980	75	2055	33	2055		\$0	1	2	2	Limited Mon
MH-1498 Sewer Manhole	С	Pearl Street	1980	75	2055	33	2055		\$0	1	2	2	Limited Mon
SMH-1498Sewer ManholeSMH-1504Sewer Manhole		Wyman Street	1940	75	2015	-7	2022		\$0	1	5	5	Priority Ren
SMH-1495Sewer ManholeSMH-1498Sewer ManholeSMH-1504Sewer ManholeSMH-1507Sewer Manhole	С					00	2055		\$0	1	2	0	Limited Moni
SMH-1498Sewer ManholeSMH-1504Sewer ManholeSMH-1507Sewer Manhole	C C		1980	75	2055	33	2055		φU		2	2	
SMH-1498Sewer ManholeSMH-1504Sewer ManholeSMH-1507Sewer ManholeSMH-1510Sewer Manhole	С	Briggs Street								1			
SMH-1498Sewer ManholeSMH-1504Sewer ManholeSMH-1507Sewer Manhole			1980 1980 1980	75 75 75	2055 2055 2055	33 33 33	2055 2055 2055		\$0 \$0 \$0	-	2 2 2	2 2 2	Limited Moni

				Year	Useful	End Useful	Remaining	Replacement		Replacement	Impact of	Probability	Risk	
Asset ID	Asset Type	Sewer Basin	Street	Installed	Life	Life	Useful Life	Year	Connected to Lined Pipe	Cost	Failure	of Failure		Criticality
	Sewer Manhole		High Street	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole		Bear Hill Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitori
	Sewer Manhole		Pearl Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewa
	Sewer Manhole	C	Pearl Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renewa
					75		-7	2022			1	5		
	Sewer Manhole		High Street	1940		2015				\$0	1	-	5	Priority Renewa
	Sewer Manhole	C	John Street	1940	75	2015	-7	2022		\$0	•	5	5	Priority Renewa
	Sewer Manhole		West Mill Street	1940	75	2015	-7	2022		\$0	1	5	5	Priority Renewa
	Sewer Manhole		High Street	1940	75	2015	-7	2022		\$0	1	5	5	Priority Renewa
	Sewer Manhole		West Mill Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renew
	Sewer Manhole	С	West Mill Street	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitori
SMH-1561	Sewer Manhole	С	Bear Hill Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitori
SMH-1564	Sewer Manhole	С	West Mill Street	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitor
SMH-1567	Sewer Manhole	С	West Mill Street	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitor
	Sewer Manhole		West Mill Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renew
	Sewer Manhole		Bridge Street	2018	75	2093	71	2093		\$0	3	1	3	Limited Monitor
	Sewer Manhole		Bear Hill Road	2018	75	2093	71	2093	SSGM-5113	\$0	4	1	4	Frequent Monito
	Sewer Manhole		Bear Hill Road	1940	75	2015	-7	2022	SSGM-5113 & SSGM-5194	\$0	4	5	20	Highest Risk
						2015	-7	2022			4	5		
	Sewer Manhole		Bear Hill Road	1940	75				SSGM-5194 & SSGM-5296	\$0 \$0	•	-	20	Highest Risk
	Sewer Manhole		Bear Hill Road	1940	75	2015	-7	2022	SSGM-5296 & SSGM-5171	\$0	4	5	20	Highest Risk
	Sewer Manhole	С	Bear Hill Road	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renew
	Sewer Manhole	С	Bear Hill Road	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renew
	Sewer Manhole		Bear Hill Road	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renew
SMH-1603	Sewer Manhole	С	Bear Hill Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitor
SMH-1606	Sewer Manhole	С	Bear Hill Road	1979	75	2054	32	2054		\$0	1	2	2	Limited Monitor
	Sewer Manhole	С	Bear Hill Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitor
	Sewer Manhole	G	West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
	Sewer Manhole		West Main Street XC	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
	Sewer Manhole		West Main Street XC	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
	Sewer Manhole			1980	75	2055	33	2055		\$0	5	2	10	
			West Main Street XC								-			Frequent Monito
	Sewer Manhole		West Main Street XC	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
	Sewer Manhole	G	West Main Street XC	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
	Sewer Manhole	G	West Main Street XC	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
	Sewer Manhole	G	West Main Street	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monito
SMH-1633	Sewer Manhole	A	West Main Street XC	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
SMH-1636	Sewer Manhole	G	West Main Street	1979	75	2054	32	2054		\$0	4	2	8	Frequent Monito
SMH-1639	Sewer Manhole	G	West Main Street	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monito
	Sewer Manhole	G	West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
	Sewer Manhole	G	West Main Street XC	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
	Sewer Manhole	-	West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
	Sewer Manhole		West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
											-			
	Sewer Manhole		West Main Street	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monito
	Sewer Manhole		West Main Street	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monito
	Sewer Manhole		West Main Street	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ris
	Sewer Manhole		West Main Street	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monit
SMH-1660	Sewer Manhole	A	Butler Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renev
SMH-1663	Sewer Manhole	A	Butler Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renev
	Sewer Manhole		Butler Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Renew
	Sewer Manhole		Butler Avenue	1980	75	2055	33	2055		\$0	2	2	4	Limited Monito
	Sewer Manhole		Washington Circle XC	1980	75	2055	33	2055		\$0	2	2	4	Limited Monito
	Sewer Manhole		Church Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Rene
	Sewer Manhole		Church Street	1940	75	2015	-7	2022		\$0	2	5		Priority Rene
										· · · · · · · · · · · · · · · · · · ·			10	
	Sewer Manhole		Church Street	1940	75	2015	-7	2022		\$0	2	5	10	Priority Rene
	Sewer Manhole		West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monit
	Sewer Manhole		Myrtle Street Ext	1979	75	2054	32	2054		\$0	4	2	8	Frequent Monit
SMH-1690	Sewer Manhole	A	Myrtle Street Ext	1979	75	2054	32	2054		\$0	1	2	2	Limited Monito
	Sewer Manhole		Myrtle Street Ext	1979	75	2054	32	2054		\$0	4	2	8	Frequent Monit
	Sewer Manhole		Myrtle Street XC	1979	75	2054	32	2054		\$0	4	2	8	Frequent Monit
	Sewer Manhole		Woodlawn Avenue XC	1979	75	2054	32	2054		\$0	4	2	8	Frequent Monit
	Sewer Manhole		Woodlawn Avenue XC	1979	75	2054	32	2054		\$0	4	2	8	Frequent Monit
					75		32	2054			4		8	
	Sewer Manhole		Woodlawn Avenue XC	1979		2054				\$0	-	2		Frequent Monito
	Sewer Manhole	A	Woodlawn Avenue XC	1979	75	2054	32	2054		\$0	4	2	8	Frequent Mon

	re Data Table		Year	Useful	End Useful	Remaining	Replacement		Replacement	Impact of	Probability	Risk	
Asset ID Asset Type	Sewer Basin	Street	Installed	Life	Life	Useful Life	Year	Connected to Lined Pipe	Cost	Failure	of Failure		Criticality
SMH-1726 Sewer Manhol		Woodlawn Avenue	1979	75	2054	32	2054		\$0	2	2	4	Limited Monitorir
SSMH-1729 Sewer Manhol		Myrtle Street Ext	1979	75	2055	33	2055		\$0	4	2	8	Frequent Monitor
SSMH-1729 Sewer Manhol		Myrtle Street Ext	1980	75	2055	33	2055		\$0	4	2	2	Limited Monitorir
SSMH-1732 Sewer Manhol		West Main Street	1980	75	2053	32	2055		\$0	5	2	10	Frequent Monitor
SSMH-1735 Sewer Manhol			1979	75	2054	33	2054			1			
SSMH-1736 Sewer Marinol		Myrtle Street Ext		75			2055		\$0	4	2	2	Limited Monitori
		West Main Street	1979		2054	32			\$0	· ·	2	8	Frequent Monitor
SSMH-1744 Sewer Manhol		West Main Street XC	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monitor
SMH-1747 Sewer Manhol		West Main Street XC	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monitor
SMH-1750 Sewer Manhol		West Main Street XC	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monitor
SMH-1753 Sewer Manhol		West Main Street XC	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
SMH-1756 Sewer Manhol		Bible Hill Road	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitor
SMH-1759 Sewer Manhol		Bible Hill Road	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monito
SSMH-1762 Sewer Manhol		Route 202 Ext XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitor
SSMH-1765 Sewer Manhol		Route 202 Ext	1999	75	2074	52	2074		\$0	4	1	4	Frequent Monitor
SSMH-1768 Sewer Manhol		Route 202 Ext	1999	75	2074	52	2074		\$0	4	1	4	Frequent Monito
SMH-1771 Sewer Manhol	e F	West Main Street	1999	75	2074	52	2074		\$0	5	1	5	Frequent Monitor
SMH-1774 Sewer Manhol	e F	Bible Hill Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitor
SMH-1777 Sewer Manhol	e F	Bible Hill Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitor
SMH-1780 Sewer Manhol	e F	Bible Hill Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitor
SMH-1783 Sewer Manhol		West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
SMH-1783A Sewer Manhol		West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
SMH-1786 Sewer Manhol		West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
SMH-1789 Sewer Manhol		West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
SSMH-1792 Sewer Manhol		West Main Street	1979	75	2054	32	2054		\$0	4	2	8	Frequent Monito
SMH-1795 Sewer Manhol		West Main Street	1979	75	2054	32	2054		\$0	4	2	8	Frequent Monito
SMH-1798 Sewer Manhol		Bible Hill Road	1979	75	2055	33	2055		\$0	2	2	4	Limited Monitor
SMH-1801 Sewer Manhol		West Main Street	1979	75	2054	32	2053		\$0	4	2	8	Frequent Monito
SMH-1804 Sewer Manhol		Windsor Terrace	1979	75	2054	32	2054		\$0	4	2	-	
SSMH-1807 Sewer Manhol										1		2	Limited Monitor
		Windsor Terrace	1979	75	2054	32	2054		\$0	•	2	2	Limited Monitor
SMH-1810 Sewer Manhol		Windsor Terrace	1979	75	2054	32	2054		\$0	1	2	2	Limited Monitor
SMH-1813 Sewer Manhol		Boulder Road XC	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitor
SMH-1816 Sewer Manhol		Route 202 Ext XC	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitor
SMH-1822 Sewer Manhol		Boulder Road XC	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitor
SMH-1825 Sewer Manhol		McNeil Road	1979	75	2054	32	2054		\$0	3	2	6	Limited Monitor
SMH-1828 Sewer Manhol		McNeil Road	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitor
SMH-1831 Sewer Manhol		Bible Hill Road	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitor
SMH-1834 Sewer Manhol		Boulder Road	1979	75	2054	32	2054		\$0	1	2	2	Limited Monitor
SSMH-1837 Sewer Manhol	e F	Boulder Road	1979	75	2054	32	2054		\$0	1	2	2	Limited Monitor
SMH-1840 Sewer Manhol		Boulder Road	1979	75	2054	32	2054		\$0	1	2	2	Limited Monitor
SMH-1843 Sewer Manhol	e F	Boulder Road	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitor
SMH-1846 Sewer Manhol	e G	West Main Street	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
SMH-1849 Sewer Manhol	e G	West Main Street	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
SMH-1852 Sewer Manhol		West Main Street	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
SMH-1855 Sewer Manhol		West Main Street	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
SMH-1858 Sewer Manhol		West Main Street	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
SMH-1861 Sewer Manhol		West Main Street	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
SMH-1864 Sewer Manhol		West Main Street	1980	75	2055	33	2055		\$0	5	2	10	Frequent Monito
SMH-1867 Sewer Manhol		Bible Hill Road	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitor
SMH-1870 Sewer Manhol		West Main Street	1979	75	2054	32	2053		\$0	5	2	10	Frequent Monito
SMH-1873 Sewer Manhol		West Main Street	1979	75	2054	32	2054		\$0	5	2	10	Frequent Monito
SMH-1876 Sewer Manhol		West Main Street	1979	75	2055	33	2054		\$0	5	2	10	Frequent Monito
SMH-1879 Sewer Manhol		West Main Street	1980	75	2053	33	2055		\$0	5	2	10	Frequent Monito
						32	2054			3 4			
SMH-1882 Sewer Manhol		Municipal Drive	1980	75	2055				\$0	4	2	8	Frequent Monito
SMH-1885 Sewer Manhol		Harvey Way	1979	75	2054	32	2054		\$0	1	2	2	Limited Monito
SMH-1888 Sewer Manhol		Municipal Drive	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monit
SMH-1891 Sewer Manhol		Harvey Way	1979	75	2054	32	2054		\$0	1	2	2	Limited Monito
SMH-1894 Sewer Manhol		Harvey Way	1979	75	2054	32	2054		\$0	1	2	2	Limited Monito
SMH-1897 Sewer Manhol		Harvey Way	1979	75	2054	32	2054		\$0	1	2	2	Limited Monito
SMH-1900 Sewer Manhol	e F	McNeil Road	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitor
SMH-1903 Sewer Manhol		McNeil Road XC	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitor
SMH-1906 Sewer Manhol		Bible Hill Road	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitor

SMM1 100 Seven Matchice F Symonic Read 190 75 205 33 2005 80 80 2 0 4 Iuride SMM1 101 Seven Matchice F Symonic Read 190 75 2055 33 2005 100 2 2 4 Iuride SMM1 101 Seven Matchice F Symonic Read 190 75 2055 33 2005 100 2 2 4 Iuride SMM1 101 Seven Matchice F Symonic Read 190 75 2055 33 2005 100 2 2 4 Iuride SMM1 101 Seven Matchice F Meding IHR Sed 190 75 2055 33 2005 100 1 2 2 1 Iuride SMM1 101 Seven Matchice F Meding IHR Sed 190 75 2055 33 2005 100 1 2 2 1 Iuride </th <th></th> <th></th> <th></th> <th></th> <th>Useful</th> <th></th> <th></th> <th>Replacement</th> <th></th> <th></th> <th></th> <th>Probability</th> <th></th> <th></th>					Useful			Replacement				Probability		
Stath Hors F Byronds Road 190 75 2035 33 2035 800 2 2 2 4 Lindia Stath Hurs Sownodt Road 190 76 2056 33 2056 30 2 2 4 Lindia Stath Hurs Sownodt Road 190 76 2056 33 2056 30 2 2 4 Lindia Stath Hurs Sownodt Road 1900 75 2056 33 2056 30 2 2 2 Lindia Lindia 5 2 2 Lindia 1 2 2 Lindia 5 2 2 Lindia 1 2 2 Lindia 5 2 2 Lindia 1 2 2 Lindia 1 2 2 Lindia 1 2 2 Lindia 1 2 2 Lindia 2 2 Lindia 2 2 Lindia									Connected to Lined Pipe					Criticality
Sket-H 100 Sever Martheb F Symods Road 1980 76 2005 33 2005 60 2 2 4 Linding Stati-H 100 Sever Martheb F Symods Road 1980 75 2025 33 2025 60 2 2 4 Linding Stati-H 100 Sever Martheb F Symods Road 1980 75 2025 33 2025 60 2 2 4 Linding Stati-H 20 Sever Martheb F Meeting H Road 1980 75 2025 33 2025 60 6 6 2 2 1 Linding Stati-H 100 Sever Martheb F Biotan Road 1980 75 2025 33 2055 60 60 1 2 2 Linding Stati-H 100 Sever Martheb F 2		•									-		-	Limited Monitor
Solet-I 401 Source Nambo F Symonic Read 190 75 2005 33 2005 800 2 2 4 Limiter Source Marbolo F Symonic Read 100 75 2005 33 2005 800 20 2 4 Limiter Source Marbolo F Symonic Read 100 75 2005 33 2005 800 20 2 4 Limiter Source Marbolo F Meeding iff Road 1800 76 2005 33 2005 800 1 2 2 Limiter Source Marbolo F Meeding iff Road 1800 76 2005 33 2005 800 1 2 2 Limiter Source Marbolo F Disson Road 1900 76 2005 33 2005 800 1 2 2 Limiter Source Marbolo F Disson Road 1900 76 2005		· · ·												Limited Monitor
SMM-1492 Seven Markade F Symouth Read 1980 75 2025 33 2005 SM 2 2 4 United Symouth Read SMM-1402 Seven Markade F Symouth Read 1980 75 2025 33 2005 SM 50 7 2 4 Limited Symouth Read SMM-1403 Seven Markade F Meeting HII Road 1980 75 2025 33 2055 SM 6 1 2 2 Limited Symouth Read SMM-1405 Seven Markade F Meeting HII Road 1980 75 2025 33 2055 SM 10 2 2 Limited Symouth Read SMM-1401 F Globon Road 1980 75 2025 33 2055 SM 1 2 2 Limited Symouth Read SMM-1401 F Meeting HII Road 1980 75 2025 33 2055 SM 10 2 2 Limited Symouth		•											4	Limited Monitor
SMH-192 Seven Karthole F Symonds Road 1980 75 2026 33 2050 830 2 2 4 Lumade SMH-192 Seven Karthole F Moding Hill Road 1160 75 2026 33 2055 30 2 2 4 Lumade SMH-192 Seven Karthole F Balter Hill Road 1160 75 2025 33 2055 90 1 2 2 Lumade SMH-192 Seven Karthole F Balter Hill Road 1180 75 2025 33 2055 90 1 2 2 Lumade SMH-194 Seven Karthole F Globan Road 1180 75 2025 33 2055 90 1 2 2 Lumade SMH-194 Seven Karthole F Moding Hill Road 1180 75 2025 33 2055 90 1 2 2 Lumade SMH-194		· ·											4	Limited Monitor
SMH-192 Seven Mathole F Symonic Road 198 75 205 33 2055 30 2 2 2 4 Lumace SMH-193 Sever Mathole F Meeting Hill Road 1980 75 2055 33 2055 30 30 30 3 2													4	Limited Monitor
SMH 1480 Sever Mathicke F Meeting HII Road 1980 75 2055 33 2055 300 10 2 2 L <thl< th=""> L L <th< td=""><td></td><td>F</td><td>Symonds Road</td><td>1980</td><td></td><td></td><td>33</td><td></td><td></td><td>\$0</td><td>2</td><td>2</td><td>4</td><td>Limited Monitor</td></th<></thl<>		F	Symonds Road	1980			33			\$0	2	2	4	Limited Monitor
SMM-1938 Sever Machine F Meeting HiRoad 1980 75 20.55 33 20.55 30 10 1 2 2 Limited SMM-1938 Saver Machine F Bible HiRoad 1800 75 20.55 33 20.55 30 30 2 2 Limited SMM-1938 Saver Machine F Globen Road 1800 75 20.55 33 20.55 30 1 2 2 Limited SMM-1948 Saver Machine F Globen Road 1800 75 20.55 33 20.55 30 30 1 2 2 Limited SMM-198 Saver Machine F Meeting HiRoad 1800 75 20.55 33 20.55 30 1 2 2 Limited SMM-198 Saver Machine F Bradrod Circle 1800 75 20.55 33 20.55 30 1 2 2 Limited	SMH-1927 Sewer Manhole	F	Symonds Road	1980	75	2055	33			\$0	2	2	4	Limited Monitor
SBMH-108 Sever Manhole F Meeling Hill Road 190 75 2055 33 2055 60 51 2 2 Linited SBMH-198 Sever Manhole F Symonfa Road 180 75 2055 33 2055 60 1 2 2 Linited SBMH-198 Sever Manhole F Gibaon Road 180 75 2056 33 2055 60 1 2 2 Linited SBMH-198 Sever Manhole F Meeling Hill Road 1800 75 2056 33 2055 60 1 2 2 Linited SBMH-198 Sever Manhole F Meeling Hill Road 1800 75 2056 33 2055 60 1 2 2 Linited SBMH-198 Sever Manhole F Bradford Cirle 180 75 2056 33 2055 60 1 2 2 Linited SBMH-198 <td>SMH-1930 Sewer Manhole</td> <td>F</td> <td>Meeting Hill Road</td> <td>1980</td> <td>75</td> <td>2055</td> <td>33</td> <td>2055</td> <td></td> <td>\$0</td> <td>2</td> <td>2</td> <td>4</td> <td>Limited Monitor</td>	SMH-1930 Sewer Manhole	F	Meeting Hill Road	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitor
SMM-1 98 Sever Muncho F Bloe Hu Road 1980 75 2055 33 2066 90 1 2 6 Linthed SMM-1498 Sever Muncho F Giboon Road 1880 75 2055 33 2060 80 1 2 2 Linthed SMM-1498 Sever Muncho F Giboon Road 1890 75 2055 33 2060 80 1 2 2 Linthed SMM-1498 Sever Muncho F Meeting Hil Road 1900 75 2055 33 2065 80 1 2 2 Linthed SMM-1698 Sever Muncho F Bradford Cicle 1980 75 2055 33 2056 80 1 2 2 Linthed SMM+1698 Sever Muncho F Bradford Cicle 1980 75 2055 33 2056 80 1 2 2 Linthed SMM+1698 Sever MunchoF	SMH-1933 Sewer Manhole	F	Meeting Hill Road	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitor
SMH-193 Sever Manhole F Bable HI Road 190 75 2055 33 2050 80 1 2 0 Lumide SMH-194 Sever Manhole F Gibton Road 190 75 2055 33 2055 80 11 2 2 Lumide SMH-194 Sever Manhole F Gibton Road 190 75 2055 33 2055 80 11 2 2 Lumide SMH-194 Sever Manhole F Meeting Hil Road 190 75 2055 33 2055 80 11 2 2 Lumide SMH-195 Sever Manhole F Bradroc Cicle 190 75 2055 33 2055 80 11 2 2 Lumide SMH-195 Sever Manhole F Bradroc Cicle 190 75 2055 33 2055 80 11 2 2 Lumide SMH-196 Sever Manhole	SMH-1936 Sewer Manhole	F	Meeting Hill Road	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
SMM1-198 Sever Manhole F Obios Gailson Road 190 75 2055 33 2058<		F				2055	33	2055		\$0	3	2	6	Limited Monito
SMH-1491 Sever Matchice F Gibson Road 1980 75 2025 33 2055 50 50 1 2 2 Limited SMH-1498 Sever Matchice F Gibson Road 1980 75 2015 33 2055 30 1 2 2 Limited SMH-1498 Sever Matchice F Gibson Road 1980 75 2015 33 2055 400 1 2 2 Limited SMH-1900 Sever Matchice F Bradford Circle 1980 75 2055 33 2055 400 1 2 2 Limited SMH-1905 Sever Matchice F Bradford Circle 1980 75 2055 33 2055 400 1 2 2 Limited SMH-1905 Sever Matchice F Bradford Circle 1980 75 2055 33 2055 400 1 2 2 Limited		F								\$0	1	2	2	Limited Monito
SMH-168 Sever Manhole F Clibson Road 1980 75 2055 33 2055 50 1 2 2 Lumide SMH-161 Sover Manhole F Meeting HI Road 1980 75 2055 33 2055 30 1 2 2 Lumide SMH-161 Sover Manhole F Meeting HI Road 1980 75 2056 33 2055 30 1 2 2 Lumide SMH-169 Sover Manhole F Barded Circle 1980 75 2056 33 2055 S0 1 2 2 Lumide SMH-1695 Sover Manhole F Barded Circle 1980 75 2056 33 2055 S0 1 2 2 Lumide SMH-1695 Sover Manhole F Barded Circle 1980 75 2056 33 2055 S0 1 2 2 Lumide SMH-1695		F	· · · · · · · · · · · · · · · · · · ·								1		2	Limited Monito
SMI-1 59 Sever Manchole F Glasson Road 1980 75 2055 333 2055 S00 1 2 2 Limited SMI-1 490 Sever Manchole F Meeting HI Road 1980 75 2055 333 2055 S00 1 2 2 Limited SMI-1 490 Sever Manchole F Meeting HI Road 1980 75 2055 333 2055 S00 1 2 2 Limited SMI-1 490 Sever Manchole F Bracford Circle 1980 76 2056 333 2055 S00 1 2 2 Limited SMI-1 197 Sever Manchole F Bracford Circle 1980 75 2055 33 2055 S00 1 2 2 Limited SMI-1 197 Sever Manchole F Bracford Circle 1980 75 2055 33 2055 S00 3 2 6 Limited		F									1			Limited Monito
SMH-194 Sever Manhole F Meding Hill Road 1980 75 2005 33 2005 \$30 1 2 2 Limited SMH-1967 Sever Manhole F Meeting Hill Road 1880 75 2055 33 2005 \$30 1 2 2 Limited SMH-1967 Sever Manhole F Bradford Cricle 1880 75 2056 33 2005 \$00 1 2 2 Limited SMH-1969 Sever Manhole F Bradford Cricle 1980 75 2055 33 2065 \$00 1 2 2 Limited SMH-1975 Sever Manhole F Bradford Cricle 1980 75 2055 33 2065 \$00 1 2 2 Limited SMH-1976 Sever Manhole F Bible Hill Road 1980 75 2055 33 2065 \$00 1 2 2 1 Imited		· ·									1			Limited Monito
SMH 1-95 Sever Manhole F Meeting Hill Road 1990 75 2055 33 2055 S00 1 2 2 Limited SMH 1-905 Sever Manhole F Bractord Cricle 1990 75 2055 33 2055 800 1 2 2 Limited SMH 1-905 Sever Manhole F Bractord Cricle 1990 75 2056 33 2055 800 1 2 2 Limited SMH 1-905 Sever Manhole F Bractord Cricle 1990 75 2056 33 2055 800 1 2 2 Limited SMH 1-901 Sever Manhole F Bible HI Raad 1990 75 2055 33 2055 800 3 2 6 Limited SMH 1-901 Sever Manhole F Bible HI Raad 1990 75 2015 33 2055 800 3 2 6 Limited Sever Manhole <td></td> <td>1</td> <td></td> <td></td> <td>Limited Monito</td>											1			Limited Monito
SMH-190 Sever Manhole F Meeting 'Hill Road 1980 75 2055 33 2055 \$00 1 2 2 United SMH-190 Sever Manhole F Bradford Circle 1980 75 2055 33 2055 \$00 1 2 2 United SMH-190 Sever Manhole F Bradford Circle 1980 75 2055 33 2055 \$00 1 2 2 United SMH-190 Sever Manhole F Bradford Circle 1980 75 2055 33 2055 \$00 3 2 6 United SMH-190 Sever Manhole F Bible Hill Road 1980 75 2015 33 2055 \$00 3 2 6 United SMH-190 Sever Manhole F Bible Hill Road 1980 75 2015 33 2055 \$00 3 2 6 United SMH-190 <td></td> <td>•</td> <td></td> <td></td> <td></td>											•			
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SMH-2077 Sewer Manhole D Lincoln Circle 1980 75 2055 33 2055 \$0 \$0 1 2 2 Linited SMH-2080 Sewer Manhole D Lincoln Circle 1980 75 2055 33 2055 \$0 \$0 1 2 2 Linited SMH-2080 Sewer Manhole D Jefferson Drive 1980 75 2055 33 2055 \$0 \$0 1 2 2 Linited SMH-2083 Sewer Manhole D Jefferson Drive 1980 75 2055 33 2055 \$0 \$0 1 2 2 Linited MH-2083A Sewer Manhole D Jefferson Drive 1980 75 2055 33 2055 \$0 \$0 1 2 2 Linited MH-2083A Sewer Manhole D Jefferson Drive 1980 75 2055 33 2055 \$0 \$0											1		-	Limited Monit
MH-2080 Sewer Manhole D Lincoln Circle 1980 75 2055 33 2055 \$0 \$1 2 2 Linited MH-2083 Sewer Manhole D Jefferson Drive 1980 75 2055 33 2055 \$0 \$0 1 2 2 Linited MH-2083 Sewer Manhole D Jefferson Drive 1980 75 2055 33 2055 \$0 \$0 1 2 2 Linited MH-2083A Sewer Manhole D Jefferson Drive 1980 75 2055 33 2055 \$0 \$0 1 2 2 Linited											1			Limited Monit
SMH-2083 Sewer Manhole D Jefferson Drive 1980 75 2055 33 2055 \$0 \$1 2 2 Limited MH-2083A Sewer Manhole D Jefferson Drive 1980 75 2055 33 2055 \$0 1 2 2 Limited											1			
MH-2083A Sewer Manhole D Jefferson Drive 1980 75 2055 33 2055 \$3 2055 \$3 2055 \$\$ 30 2055 \$\$ 10 2 2 Limited											1			Limited Monit
											1			Limited Monit
MH-2083B Sewer Manhole D Madison Circle 1980 75 2055 33 2055 \$60 1 2 2 Limited											1			Limited Monit
	MH-2083B Sewer Manhole	D	Madison Circle	1980	75	2055	33	2055		\$0	1	2	2	Limited Monit Limited Monit

					Useful			Replacement		Replacement		Probability		
Asset ID	Asset Type			Installed	Life	Life	Useful Life		Connected to Lined Pipe	Cost	Failure	of Failure		Criticality
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitori
	Sewer Manhole	D	Blair Avenue XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monito
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitor
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monitor
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitor
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitor
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitor
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitor
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	3	2	6	Limited Monitor
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	2	2	4	Limited Monitor
SMH-2137	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	2	2	4	Limited Monito
SMH-2140	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	2	2	4	Limited Monito
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	2	2	4	Limited Monito
	Sewer Manhole	D	Blair Avenue XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitor
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
SMH-2152	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Jefferson Drive	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Washington Circle	1980	75	2055	33	2055		\$0	2	2	4	Limited Monito
	Sewer Manhole	D	Washington Circle	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Washington Circle	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Washington Circle	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D		1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
			Washington Circle								4			
	Sewer Manhole	D	Franklin Pierce Highway XC	1980	75	2055	33	2055		\$0		2	8	Frequent Monit
	Sewer Manhole	D	Washington Circle	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Washington Circle	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Madison Circle	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Madison Circle	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Madison Circle	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Madison Circle	1980	75	2055	33	2055		\$0	1	2	2	Limited Monito
	Sewer Manhole	D	Franklin Pierce Highway XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monit
	Sewer Manhole	D	Franklin Pierce Highway XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monit
	Sewer Manhole	D	Franklin Pierce Highway XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monit
	Sewer Manhole	D	Franklin Pierce Highway XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monit
	Sewer Manhole	D	Franklin Pierce Highway XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monit
MH-2218	Sewer Manhole	D	Franklin Pierce Highway XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monit
	Sewer Manhole	E	Norton Drive	1979	75	2054	32	2054		\$0	3	2	6	Limited Monito
	Sewer Manhole	В	Church Street XC	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ris
	Sewer Manhole	В	Hillcat Drive	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ris
	Sewer Manhole	В	Hillcat Drive	1940	75	2015	-7	2022		\$0	4	5	20	Highest Ris
	Sewer Manhole	A	Myrtle Street Ext	1980	75	2055	33	2055		\$0	4	2	8	Frequent Moni
	Sewer Manhole	A	Myrtle Street Ext	1980	75	2055	33	2055		\$0	4	2	8	Frequent Moni
	Sewer Manhole	A	Myrtle Street Ext XC	1980	75	2055	33	2055		\$0	4	2	8	Frequent Moni
	Sewer Manhole	A	Hillcat Drive	1980	75	2055	33	2055		\$0	4	2	8	Frequent Moni
	Sewer Manhole	C	Bridge Street	2018	75	2093	71	2093		\$0	3	1	3	Limited Monito
	Sewer Manhole	C	Bridge Street	2018	75	2093	71	2093		\$0	3	1	3	Limited Monito
											3	•	3	
	Sewer Manhole	C	Bridge Street	2018	75	2093	71	2093		\$0 \$0		1	1	Limited Monito
	Sewer Manhole	C	Bridge Street	2018	75	2093	71	2093		\$0	1	· ·		Limited Monito
	Sewer Manhole	<u> </u>	Bridge Street	2018	75	2093	71	2093		\$0	1	1	1	Limited Monito
	Sewer Manhole	F	Route 202 Ext XC	1999	75	2074	52	2074		\$0	3	1	3	Limited Monito
	Sewer Manhole	F	Bible Hill Rd	1999	75	2074	52	2074		\$0	3	1	3	Limited Monito
	Sewer Manhole	F	Route 202 Ext	1999	75	2074	52	2074		\$0	4	1	4	Frequent Monit
MH-2302	Sewer Manhole	F	Route 202 Ext	1999	75	2074	52	2074		\$0	4	1	4	Frequent Mon

				Year	Useful	End Useful	Remaining	Replacement		Replacement	Impact of	Probability	Risk	
Asset ID	Asset Type	Sewer Basin	Street	Installed	Life	Life	Useful Life	Year	Connected to Lined Pipe	Cost	Failure	of Failure	Score	Criticality
SSMH-2303	Sewer Manhole	F	Route 202 Ext	1999	75	2074	52	2074		\$0	4	1	4	Frequent Monitoring
SSMH-2304	Sewer Manhole	F	Route 202 Ext	1999	75	2074	52	2074		\$0	4	1	4	Frequent Monitoring
SSMH-2305	Sewer Manhole	F	Route 202 Ext	1999	75	2074	52	2074		\$0	4	1	4	Frequent Monitoring
SSMH-2306	Sewer Manhole	F	Route 202 Ext	1999	75	2074	52	2074		\$0	4	1	4	Frequent Monitoring
SSMH-2307	Sewer Manhole	F	Route 202 Ext XC	1999	75	2074	52	2074		\$0	3	1	3	Limited Monitoring
SSMH-2308	Sewer Manhole	F	Route 202 Ext XC	1999	75	2074	52	2074		\$0	3	1	3	Limited Monitoring
SSMH-2309	Sewer Manhole	F	Route 202 Ext XC	1999	75	2074	52	2074		\$0	3	1	3	Limited Monitoring
SSMH-2310	Sewer Manhole	F	Route 202 Ext XC	1999	75	2074	52	2074		\$0	3	1	3	Limited Monitoring
SSMH-2325	Sewer Manhole	G	Municipal Dr	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitorin
SSMH-2326	Sewer Manhole	G	Municipal Dr	1980	75	2055	33	2055		\$0	4	2	8	Frequent Monitoring

Appendix A-2

	Pipe Material	Estimated Useful Life
AC	Asbestos Cement	80 Years
CI	Cast Iron	100 Years
DI	Ductile Iron	65 Years (pre-1976)
וט		85 Years (post-1976)
PVC	Polyvinyl Chloride	100 Years
VC	Vitrified Clay	80 Years

Appendix A - 3

Hillsborough H	lighest Risk & F	Priority Ren	newal Pipe Table																		
Ŭ	Ū	Sewer			Upstream	Downstream			Year	Useful	End Useful	Remaining	Replacement		Unit		Replacement	Impact of	Probability of	Risk	
Asset ID	Asset Type	Basin	Street	Diameter	Manhole	Manhole	Material	Inspected	Installed	Life	Life	Useful Life	Year	Unit	Cost	Length (LF)	Cost	Failure	Failure	Score	Criticality
SSGM-5009	Gravity Main	В	School St	6 inch diameter	SSMH-1399	SSMH-1396	VC	Yes	1940	80	2020	-2	2022	LF	\$600	143.90	\$86,340	4.00	5.1	20.4	Highest Risk
SSGM-5012	Gravity Main	С	W Mill St	8 inch diameter	SSMH-1570	SSMH-1576	VC	Yes	1940	80	2020	-2	2022	LF	\$600	209.32	\$125,592	2.00	5	10	Priority Renewal
SSGM-5019	Gravity Main	В	Central St	6 inch diameter	SSMH-1321	SSMH-1318	VC	Yes	1940	80	2020	-2	2022	LF	\$600	60.42	\$36,252	4.00	5	20	Highest Risk
SSGM-5022	Gravity Main	Н	Whittemore St	6 inch diameter	SSMH-1276	SSMH-1267	VC	Yes	1940	80	2020	-2	2022	LF	\$600	207.19	\$124,314	2.00	5.141	10.282	Priority Renewal
SSGM-5024	Gravity Main	E	Jackson St	6 inch diameter	SSMH-1126	SSMH-1123	VC	Yes	1940	80	2020	-2	2022	LF	\$600	114.30	\$68,580	1.00	5.1	5.1	Priority Renewal
SSGM-5025	Gravity Main	С	Bear Hill Rd	6 inch diameter	SSMH-1597	SSMH-1594	VC	Yes	1940	80	2020	-2	2022	LF	\$600	130.50	\$78,300	2.00	5.1	10.2	Priority Renewal
SSGM-5047A	Gravity Main	E	River St	6 inch diameter	SSFT-016	SSMH-1021	VC	Yes	1940	80	2020	-2	2023	LF	\$600	128.69	\$77,214	1.00	4.132	4.132	Priority Renewal
SSGM-5052	Gravity Main	В	Myrtle St	8 inch diameter	SSMH-1342	SSMH-1339	VC	Yes	1940	80	2020	-2	2022	LF	\$600	299.33	\$179,598	4.00	5.221	20.884	Highest Risk
SSGM-5054	Gravity Main	В	Newman St	6 inch diameter	SSMH-1357	SSMH-1354	VC	Yes	1940	80	2020	-2	2022	LF	\$600	402.62	\$241,572	2.00	5.141	10.282	Priority Renewal
SSGM-5068	Gravity Main	С	Bridge St	6 inch diameter	SSMH-1441	SSMH-1438	VC	Yes	1940	80	2020	-2	2022	LF	\$600	217.95	\$130,770	3.00	5.142	15.426	Priority Renewal
SSGM-5069	Gravity Main	С	John St	6 inch diameter	SSMH-1552	SSMH-1537	VC	Yes	1940	80	2020	-2	2022	LF	\$600	254.88	\$152,928	1.00	5.1	5.1	Priority Renewal
SSGM-5093	Gravity Main	A	W Main St	8 inch diameter	SSMH-1654	SSMH-1651	VC	Yes	1940	80	2020	-2	2022	LF	\$600	235.67	\$141,402	4.00	5.322	21.288	Highest Risk
SSGM-5099	Gravity Main	В	Church St	6 inch diameter	SSMH-1375	SSMH-1372	VC	Yes	1940	80	2020	-2	2023	LF	\$600	208.52	\$125,112	4.00	4.121	16.484	Highest Risk
SSGM-5109	Gravity Main	Н	Park St	8 inch diameter	UNK-004	SSMH-1282	VC	Yes	1940	80	2020	-2	2022	LF	\$600	238.64	\$143,184	2.00	5	10	Priority Renewal
SSGM-5111	Gravity Main	С	Union St	6 inch diameter	SSMH-1477	SSMH-1471	VC	Yes	1940	80	2020	-2	2023	LF	\$600	315.11	\$189,066	1.00	4.133	4.133	Priority Renewal
SSGM-5125	Gravity Main	E	Cross St	6 inch diameter	SSMH-1117	SSFT-004	VC	Yes	1940	80	2020	-2	2022	LF	\$600	241.80	\$145,080	2.00	5.241	10.482	Priority Renewal
SSGM-5126	Gravity Main	С	Summer St	6 inch diameter	SSMH-1465	SSMH-1438	VC	Yes	1940	80	2020	-2	2022	LF	\$600	290.35	\$174,210	1.00	5.238	5.238	Priority Renewal
SSGM-5128	Gravity Main	С	W Mill St	8 inch diameter	SSMH-1567	SSMH-1570	VC	Yes	1940	80	2020	-2	2022	LF	\$600	147.83	\$88,698	2.00	5	10	Priority Renewal
SSGM-5131	Gravity Main	В	Pleasant St	6 inch diameter	SSMH-1366	SSMH-1390	VC	Yes	1940	80	2020	-2	2023	LF	\$600	466.33	\$279,798	2.00	4.334	8.668	Priority Renewal
SSGM-5133	Gravity Main	В	Central St	6 inch diameter	SSMH-1324	SSMH-1321	VC	Yes	1940	80	2020	-2	2022	LF	\$600	279.63	\$167,778	4.00	5	20	Highest Risk
SSGM-5137	Gravity Main	Н	Whittemore St	6 inch diameter	SSMH-1282	SSMH-1276	VC	Yes	1940	80	2020	-2	2022	LF	\$600	352.47	\$211,482	2.00	5	10	Priority Renewal
SSGM-5138	Gravity Main	С	Prospect St	6 inch diameter	SSMH-1432	SSMH-1597	VC	Yes	1940	80	2020	-2	2022	LF	\$600	468.76	\$281,256	1.00	5.2	5.2	Priority Renewal
SSGM-5139	Gravity Main	С	W Mill St	8 inch diameter	SSMH-1555	SSMH-1558	VC	Yes	1940	80	2020	-2	2022	LF	\$600	334.19	\$200,514	2.00	5	10	Priority Renewal
SSGM-5159	Gravity Main	Н	Park St	6 inch diameter	SSMH-1285	SSMH-1282	VC	Yes	1940	80	2020	-2	2022	LF	\$600	241.39	\$144,834	2.00	5	10	Priority Renewal
SSGM-5165	Gravity Main	В	Central St	6 inch diameter	SSMH-1363	SSMH-1342	VC	Yes	1940	80	2020	-2	2022	LF	\$600	456.50	\$273,900	2.00	5.121	10.242	Priority Renewal
SSGM-5182	Gravity Main	С	Bridge St	6 inch diameter	SSMH-1444	SSMH-1441	VC	Yes	1940	80	2020	-2	2022	LF	\$600	284.03	\$170,418	3.00	5.133	15.399	Priority Renewal
SSGM-5188	Gravity Main	В	Church St	6 inch diameter	SSMH-1369	SSMH-1351	VC	Yes	1940	80	2020	-2	2023	LF	\$600	333.11	\$199,866	4.00	4.231	16.924	Highest Risk
SSGM-5202	Gravity Main	A	W Main St	6 inch diameter	SSMH-1657	SSMH-1657A	VC	Yes	1940	80	2020	-2	2022	LF	\$600	54.61	\$32,766	4.00	5.232	20.928	Highest Risk
SSGM-5202A	Gravity Main	А	W Main St	6 inch diameter	SSMH-1657A	SSMH-1654	VC	No	1940	80	2020	-2	2022	LF	\$600	513.82	\$308,292	4.00	5	20	Highest Risk
SSGM-5218	Gravity Main	В	School St	6 inch diameter	SSMH-1396	SSMH-1387	VC	Yes	1940	80	2020	-2	2023	LF	\$600	309.60	\$185,760	4.00	4.1	16.4	Highest Risk
SSGM-5220	Gravity Main	E	Depot St	6 inch diameter	SSMH-1108	SSMH-1105	VC	Yes	1940	80	2020	-2	2022	LF	\$600	345.33	\$207,198	3.00	5.134	15.402	Priority Renewal
SSGM-5221	Gravity Main	С	Union St	6 inch diameter	SSMH-1480	SSMH-1477	VC	Yes	1940	80	2020	-2	2022	LF	\$600	390.90	\$234,540	1.00	5	5	Priority Renewal
SSGM-5232	Gravity Main	В	Brown St	6 inch diameter	SSMH-1381	SSMH-1378	VC	Yes	1940	80	2020	-2	2023	LF	\$600	140.01	\$84,006	2.00	4.234	8.468	Priority Renewal
SSGM-5241	Gravity Main	E	Jackson St	6 inch diameter	SSMH-1123	SSMH-1117	VC	Yes	1979	80	2059	37	2059	LF	\$600	197.87	\$118,722	1.00	5.132	5.132	Priority Renewal
SSGM-5243	Gravity Main	С	W Mill St	8 inch diameter	SSMH-1564	SSMH-1567	VC	Yes	1940	80	2020	-2	2022	LF	\$600	231.02	\$138,612	2.00	5	10	Priority Renewal
SSGM-5247	Gravity Main	С	Wyman St	6 inch diameter	SSMH-1486	SSMH-1492	VC	Yes	1940	80	2020	-2	2022	LF	\$600	81.72	\$49,032	2.00	5.1	10.2	Priority Renewal
SSGM-5271	Gravity Main	С	Wyman St	6 inch diameter	SSMH-1489	SSMH-1486	VC	Yes	1940	80	2020	-2	2023	LF	\$600	182.58	\$109,548	2.00	4.1	8.2	Priority Renewal
SSGM-5285	Gravity Main	A	Church St	6 inch diameter	SSMH-1678	SSMH-1675	VC	Yes	1940	80	2020	-2	2023	LF	\$600	327.45	\$196,470	2.00	4.125	8.25	Priority Renewal
SSGM-5304	Gravity Main	С	Bridge St	6 inch diameter	SSMH-1447	SSMH-1444	VC	Yes	1940	80	2020	-2	2022	LF	\$600	302.28	\$181,368	3.00	5.131	15.393	Priority Renewal
SSGM-5305	Gravity Main	A	W Main St	8 inch diameter	SSMH-1651	SSMH-1648	VC	Yes	1940	80	2020	-2	2022	LF	\$600	72.66	\$43,596	4.00	5.112	20.448	Highest Risk
SSGM-5310	Gravity Main	В	Church St	6 inch diameter	SSMH-1372	SSMH-1369	VC	Yes	1940	80	2020	-2	2022	LF	\$600	192.41	\$115,446	4.00	5.334	21.336	Highest Risk
SSGM-5361	Gravity Main	E	Preston St	6 inch diameter	SSMH-1135	SSMH-1132	VC	Yes	1940	80	2020	-2	2022	LF	\$600	404.19	\$242,514	2.00	5.142	10.284	Priority Renewal
SSGM-5362	Gravity Main	E	Preston St	6 inch diameter	SSMH-1138	SSMH-1135	VC	Yes	1940	80	2020	-2	2022	LF	\$600	237.78	\$142,668	2.00	5	10	Priority Renewal
SSGM-5370	Gravity Main	G	W Main St	6 inch diameter	SSMH-1630	SSMH-1636	VC	Yes	1940	80	2020	-2	2022	LF	\$600	321.21	\$192,726	4.00	5.232	20.928	Highest Risk
SSGM-5371	Gravity Main	С	High St	6 inch diameter	SSMH-1519	SSMH-1516	VC	Yes	1940	80	2020	-2	2023	LF	\$600	336.01	\$201,606	1.00	4.332	4.332	Priority Renewal
SSGM-5379	Gravity Main	С	Pearl St	6 inch diameter	SSMH-1504	SSMH-1528	VC	Yes	1940	80	2020	-2	2022	LF	\$600	268.51	\$161,106	1.00	5.121	5.121	Priority Renewal
SSGM-5380	Gravity Main	С	Pearl St	6 inch diameter	SSMH-1528	SSMH-1531	VC	Yes	1940	80	2020	-2	2023	LF	\$600	158.89	\$95,334	2.00	4.131	8.262	Priority Renewal
SSGM-5396	Gravity Main	Н	Whittemore St	6 inch diameter	SSMH-1267	SSMH-1267A	VC	Yes	1940	80	2020	-2	2022	LF	\$600	245.43	\$147,258	2.00	5	10	Priority Renewal
SSGM-5408	Gravity Main	В	Hoyt Ln	4 inch diameter	SSFT-013	SSFT-014	PVC	Yes	1980	75	2055	33	2055	LF	\$600	231.74	\$139,044	2.00	5.1	10.2	Priority Renewal
SSGM-5428	Gravity Main	С	Wyman St	6 inch diameter	SSMH-1498	SSMH-1495	VC	Yes	1940	80	2020	-2	2022	LF	\$600	320.52	\$192,312	1.00	5.133	5.133	Priority Renewal
SSGM-5435	Gravity Main	С	Wyman St	6 inch diameter	SSFT-009	SSMH-1504	VC	Yes	1940	80	2020	-2	2022	LF	\$600	352.52	\$211,512	1.00	5.111	5.111	Priority Renewal
SSGM-5436	Gravity Main	E	Preston St	6 inch diameter	SSMH-1105	SSMH-1103	VC	Yes	1940	80	2020	-2	2022	LF	\$600	190.71	\$114,426	3.00	5.132	15.396	Priority Renewal

Hillsborough Bear Hill	Pump Statio	n Asset Data Table											
			Estimated Year	Replacement		End Useful	Remaining	Replacement	Impact of	Condition	Probability of	Risk	
Facility Name	Process	Asset Description	Installed	Cost	Useful Life	Life	Useful Life	Year	Failure	Score	Failure	Score	Criticality
Bear Hill Pump Station	Electrical	Alarm control box	1982	\$2,000	15	1997	-25	2022	3	2	2	6	Limited Monitoring
Bear Hill Pump Station	Electrical	Electrical panel	1982	\$15,000	40	2022	0	2022	5	2	2	10	Frequent Monitoring
Bear Hill Pump Station	Electrical	Pump controls	1982	\$10,000	40	2022	0	2022	5	2	2	10	Frequent Monitoring
Bear Hill Pump Station	HVAC	Heater	2015	\$3,000	20	2035	13	2035	1	1	1	1	Limited Monitoring
Bear Hill Pump Station	Mechanical	Ventallation Blower and piping	1982	\$5,000	15	1997	-25	2022	5	3	3	15	Frequent Monitoring
Bear Hill Pump Station	Mechanical	Sump pump and piping	1982	\$2,000	20	2002	-20	2022	2	2	2	4	Limited Monitoring
Bear Hill Pump Station	Mechanical	Generator	2020	\$30,000	30	2050	28	2050	4	1	1	4	Frequent Monitoring
Bear Hill Pump Station	Mechanical	Propane tank	2020	\$6,000	30	2050	28	2050	4	1	1	4	Frequent Monitoring
Bear Hill Pump Station	Process	Switches and Floats	1982	\$3,000	10	1992	-30	2023	1	4	4	4	Priority Renewal
Bear Hill Pump Station	Process	Process piping and valves	1982	\$50,000	50	2032	10	2032	5	3	3	15	Frequent Monitoring
Bear Hill Pump Station	Process	Pump #1	2015	\$15,000	20	2035	13	2035	5	2	2	10	Frequent Monitoring
Bear Hill Pump Station	Process	Pump #2	2015	\$15,000	20	2022	0	2022	5	5	5	25	Highest Risk
Bear Hill Pump Station	Process	Emergency Overflow Storage Tank	1982	\$20,000	75	2057	35	2057	1	0	2	2	Limited Monitoring
Bear Hill Pump Station	Site	Chain link fence	1982	\$15,000	50	2032	10	2032	1	1	1	1	Limited Monitoring
Bear Hill Pump Station	Site	Paved access drive	1982	\$5,000	50	2032	10	2032	1	2	2	2	Limited Monitoring
Bear Hill Pump Station	Structural	Precast chamber and wetwell	1982	\$75,000	75	2057	35	2057	5	2	2	10	Frequent Monitoring

				COS	ST OF A	SSET R	EPLACE	MENT -	FIRST	TEN YE	ARS	
Hillsborough Bear Hill	Pump Statio	n Asset Data Table	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Facility Name	Process	Asset Description	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Bear Hill Pump Station	Electrical	Alarm control box	\$2,000									
Bear Hill Pump Station	Electrical	Electrical panel	\$15,000									
Bear Hill Pump Station	Electrical	Pump controls	\$10,000									
Bear Hill Pump Station	HVAC	Heater										
Bear Hill Pump Station	Mechanical	Ventallation Blower and piping	\$5,000									
Bear Hill Pump Station	Mechanical	Sump pump and piping	\$2,000									
Bear Hill Pump Station	Mechanical	Generator										
Bear Hill Pump Station	Mechanical	Propane tank										
Bear Hill Pump Station	Process	Switches and Floats		\$3,000								
Bear Hill Pump Station	Process	Process piping and valves										
Bear Hill Pump Station	Process	Pump #1										
Bear Hill Pump Station	Process	Pump #2	\$15,000									
Bear Hill Pump Station	Process	Emergency Overflow Storage Tank										
Bear Hill Pump Station	Site	Chain link fence										
Bear Hill Pump Station	Site	Paved access drive										
Bear Hill Pump Station	Structural	Precast chamber and wetwell										

							COST O	F ASSET RE	EPLACEME	NT - NEXT	100 YEARS			
Hillsborough Bear Hill	Pump Statio	n Asset Data Table	0 - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100	0 - 100	
Facility Name	Process	Asset Description	2022-2031	2032-2041	2042-2051	2052-2061	2062-2071	2072-2082	2082-2091	2092-2101	2102-2111	2112-2121	2022-2121	100-Yr Replacement Count
Bear Hill Pump Station	Electrical	Alarm control box	\$2,000	\$2,000		\$2,000	\$2,000		\$2,000	\$2,000		\$2,000	\$8,000	7
Bear Hill Pump Station	Electrical	Electrical panel	\$15,000				\$15,000				\$15,000		\$30,000	3
Bear Hill Pump Station	Electrical	Pump controls	\$10,000				\$10,000				\$10,000		\$20,000	3
Bear Hill Pump Station	HVAC	Heater		\$3,000		\$3,000		\$3,000		\$3,000		\$3,000	\$6,000	5
Bear Hill Pump Station	Mechanical	Ventallation Blower and piping	\$5,000	\$5,000		\$5,000	\$5,000		\$5,000	\$5,000		\$5,000	\$20,000	7
Bear Hill Pump Station	Mechanical	Sump pump and piping	\$2,000		\$2,000		\$2,000		\$2,000		\$2,000		\$6,000	5
Bear Hill Pump Station	Mechanical	Generator			\$30,000			\$30,000			\$30,000		\$30,000	3
Bear Hill Pump Station	Mechanical	Propane tank			\$6,000			\$6,000			\$6,000		\$6,000	3
Bear Hill Pump Station	Process	Switches and Floats	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$15,000	10
Bear Hill Pump Station	Process	Process piping and valves		\$50,000					\$50,000				\$50,000	2
Bear Hill Pump Station	Process	Pump #1		\$15,000		\$15,000		\$15,000		\$15,000		\$15,000	\$30,000	5
Bear Hill Pump Station	Process	Pump #2	\$15,000		\$15,000		\$15,000		\$15,000		\$15,000		\$45,000	5
Bear Hill Pump Station	Process	Emergency Overflow Storage Tank				\$20,000							\$20,000	1
Bear Hill Pump Station	Site	Chain link fence		\$15,000					\$15,000				\$15,000	2
Bear Hill Pump Station	Site	Paved access drive		\$5,000					\$5,000				\$5,000	2
Bear Hill Pump Station	Structural	Precast chamber and wetwell				\$75,000							\$75,000	1

	Asset Data Table			Estimated Year	Replacement		End Useful	Remaining	Replacement	Impact of	Condition	Probability	Risk	
Facility Name	Category	Process	Asset Description	Installed	Cost	Useful Life	Life	Useful Life	Year	Failure	Score	of Failure	Score	Criticality
HWSC WWTF	Blower Room	Mechanical	Grit aeration tank blower	1986	\$0	10	1996	-26	2022	4	0	5	20	Highest Risk
HWSC WWTF	Blower Room	Mechanical	Generator	1986	\$80,000	30	2016	-20	2022	4	2	2	8	Frequent Monitoring
HWSC WWTF	Blower Room	Site	Fuel Tank	1986	\$4,000	40	2026	4	2022	1	2	2	2	Limited Monitoring
HWSC WWTF	Blower Room	Mechanical	Blower #1	2012	\$75,000	15	2027	5	2027	5	2	2	10	Frequent Monitoring
HWSC WWTF	Blower Room	Mechanical	Blower #2	2012	\$75,000	15	2027	5	2027	5	2	2	10	Frequent Monitoring
HWSC WWTF	Blower Room	Mechanical	Blower #3	2012	\$75,000	15	2027	5	2027	5	2	2	10	Frequent Monitoring
HWSC WWTF	Blower Room	HVAC	Unit heater	2012	\$12,000	20	2032	10	2032	1	3	3	3	Frequent Monitoring
HWSC WWTF	Chemical Building	Electrical	Electrical and Instrumentation	2012	\$90,000	15	2027	5	2027	5	2	2	10	Frequent Monitoring
HWSC WWTF	Chemical Building	Mechanical	Peristaltic pump, 4	2012	\$20,000	15	2027	5	2027	5	1	1	5	Frequent Monitoring
HWSC WWTF	Chemical Building	HVAC	On-demand water heaters, 2	2012	\$30,000	20	2032	10	2032	1	1	1	1	Limited Monitoring
HWSC WWTF	Chemical Building	HVAC	Vents and HVAC	2012	\$35,000	20	2032	10	2032	2	1	1	2	Limited Monitoring
HWSC WWTF	Chemical Building	Mechanical	Deep containment sump and coating	2012	\$30,000	20	2032	10	2032	2	0	4	8	Priority Renewal
HWSC WWTF	Chemical Building	Miscellaneous	Eyewash station	2012	\$16,000	20	2032	10	2032	1	1	1	1	Limited Monitoring
HWSC WWTF	Chemical Building	Process	Ferric chloride tank	2012	\$55,000	30	2042	20	2042	2	1	1	2	Limited Monitoring
HWSC WWTF	Chemical Building	Process	Magnesium hydroxide tank	2012	\$80,000	30	2042	20	2042	3	1	1	3	Limited Monitoring
HWSC WWTF	Chemical Building	Structural	Windows	2012	\$20,000	30	2042 2052	20	2042 2052	1	1	1	1	Limited Monitoring
HWSC WWTF	Chemical Building	Structural	Doors Roof	2012 2012	\$20,000 \$30,000	40 50	2052	30 40	2052	3	1	1	3	Limited Monitoring
HWSC WWTF HWSC WWTF	Chemical Building Chemical Building	Structural Structural	Concrete foundation and floor	2012	\$30,000	75	2062	40 65	2062	3	1	1	3	Limited Monitoring
HWSC WWTF	Chemical Building	Structural	Pre-fab structure	2012	\$120,000	75	2087	65	2087	3	1	1	3	Limited Monitoring
HWSC WWTF	Chlorine Contact Chambers	Structural	Concrete chamber #1	1986	\$60,000	75	2067	39	2087	5	2	2	10	Frequent Monitoring
HWSC WWTF	Chlorine Contact Chambers	Structural	Concrete chamber #1	1986	\$60,000	75	2061	39	2061	5	2	2	10	Frequent Monitoring
HWSC WWTF	Chlorine Contact Chambers	Structural	Distribution box chlorine contact tank #2	1986	\$60,000	75	2001	39	2001	3	2	2	6	Limited Monitoring
HWSC WWTF	Headworks Room	Mechanical	Grit screw conveyer	1986	\$24,000	15	2001	-21	2022	4	3	3	12	Frequent Monitoring
HWSC WWTF	Headworks Room	HVAC	Unit heater	1986	\$12,000	20	2006	-16	2022	1	3	3	3	Frequent Monitoring
HWSC WWTF	Headworks Room	Mechanical	Influent meter	2003	\$5,000	10	2013	-9	2022	2	2	2	4	Limited Monitoring
HWSC WWTF	Headworks Room	Mechanical	Grit washing unit	2003	\$12,000	15	2018	-4	2022	3	2	2	6	Limited Monitoring
HWSC WWTF	Headworks Room	Mechanical	Grit strainer	2007	\$6,000	15	2022	0	2022	3	2	2	6	Limited Monitoring
HWSC WWTF	Headworks Room	Mechanical	Grit collector	2007	\$12,000	15	2022	0	2022	3	2	2	6	Limited Monitoring
HWSC WWTF	Headworks Room	Process	Bar rack	1986	\$18,000	40	2026	4	2026	4	3	3	12	Frequent Monitoring
HWSC WWTF	Headworks Room	Mechanical	Screw Pump #1	2013	\$400,000	20	2033	11	2033	5	2	2	10	Frequent Monitoring
HWSC WWTF	Headworks Room	Mechanical	Screw Pump #2	2013	\$400,000	20	2033	11	2033	5	2	2	10	Frequent Monitoring
HWSC WWTF	Headworks Room	Process	Process piping and valves	1986	\$40,000	50	2036	14	2036	5	3	3	15	Frequent Monitoring
HWSC WWTF	Headworks Room	Process	Parshall flume	1995	\$20,000	60	2055	33	2055	2	1	1	2	Limited Monitoring
HWSC WWTF	Headworks Room	Mechanical	Grit aeration tank	1986	\$0	75	2061	39	2061	4	2	2	8	Frequent Monitoring
HWSC WWTF	Lagoons	Process	Floating baffle lagoon #1	2012	\$12,000	15	2027	5	2027	5	2	2	10	Frequent Monitoring
HWSC WWTF	Lagoons	Process	Floating aeration system lagoon #2	2012	\$170,000	20	2032	10	2032	5	2	2	10	Frequent Monitoring
HWSC WWTF	Lagoons	Process	Floating aeration system lagoon #3	2012	\$100,000	20	2032	10	2032	5	2	2	10	Frequent Monitoring
HWSC WWTF	Lagoons	Process	Sludge removal lagoon #1	2003	\$400,000	30	2033	11	2033	3	1	1	3	Limited Monitoring
HWSC WWTF	Lagoons	Process	Sludge removal lagoon #3	1986	\$200,000	50	2036	14	2036	3	3	3	9	Frequent Monitoring
HWSC WWTF	Lagoons	Process	Lagoon Liner Replacement #1	1986	\$1,250,000	50	2036	14	2036	2	3	3	6	Frequent Monitoring
HWSC WWTF	Lagoons	Process	Lagoon Liner Replacement #2	1986	\$650,000	50	2036	14	2036	2	3	3	6	Frequent Monitoring
HWSC WWTF	Lagoons	Process	Lagoon Liner Replacement #3	1986	\$650,000	50	2036	14	2036	2	3	3	6	Frequent Monitoring
HWSC WWTF	Lagoons	Process	Floating aeration system lagoon #1	2021	\$400,000	20	2041	19	2041	5	2	2	10	Frequent Monitoring
HWSC WWTF	Lagoons	Process	Sludge removal lagoon #2	2013	\$200,000	30	2043	21	2043	3	1	1	3	Limited Monitoring
HWSC WWTF	Landscape	Site	Paved access drive overlay Perimeter fence	1986	\$30,000	10	1996	-26	2022	1	2	2	2	Limited Monitoring
HWSC WWTF HWSC WWTF	Landscape Operations Building	Site HVAC	Air conditioning system	1986	\$100,000	30	2016 1996	-6 -26	2022 2022	1	2	2	2	Limited Monitoring Frequent Monitoring
HWSC WWTF	Operations Building	Electrical	Exterior lighting	1986 1986	\$6,000 \$24,000	10 20	2006	-26 -16	2022	1	3	3	4	Priority Renewal
HWSC WWTF	Operations Building	HVAC	Boiler	1986	\$24,000	20	2006	-16	2023	1	4	4	4	Priority Renewal
HWSC WWTF		Miscellaneous		1986	\$24,000	20	2006	-16	2023	1	3	3	3	Frequent Monitoring
HWSC WWTF	Operations Building	HVAC	Exhaust vent	1986	\$6,000	20	2008	-10	2022	2	3	3	6	Frequent Monitoring
HWSC WWTF	Operations Building	Structural	Roof	1986	\$68,000	25	2011	-11	2022	3	1	1	3	Limited Monitoring
HWSC WWTF		Miscellaneous	Sink and Laboratory Equipment	1986	\$40,000	30	2016	-6	2022	1	3	3	3	Frequent Monitoring
HWSC WWTF	Operations Building	Structural	Windows	1986	\$24,000	30	2016	-6	2022	1	3	3	3	Frequent Monitoring
HWSC WWTF	Operations Building	Electrical	Interior lighting	1986	\$24,000	40	2026	4	2026	1	3	3	3	Frequent Monitoring
HWSC WWTF	Operations Building	Structural	Exterior doors	1986	\$12,000	40	2026	4	2023	. 1	4	4	4	Priority Renewal
HWSC WWTF	Operations Building	Structural	Concrete block walls, foundation, floor	1986	\$510,000	75	2061	39	2061	3	1	1	3	Limited Monitoring
HWSC WWTF	Operations Building	Structural	Interior doors	1986	\$12,000	75	2061	39	2061	1	3	3	3	Frequent Monitoring
HWSC WWTF	Septage Receiving	Electrical	PLC Panel #2	2012	\$24,000	15	2027	5	2027	5	2	2	10	Frequent Monitoring
HWSC WWTF	Septage Receiving	Structural	Concrete tank septage receiving	1986	\$0	75	2061	39	2061	1	2	2	2	Limited Monitoring
HWSC WWTF	Utility Room	Mechanical	Sodium Hypochlorite Metering Pump #1	1986	\$6,000	10	1996	-26	2022	5	3	3	15	Frequent Monitoring
HWSC WWTF	Utility Room	Mechanical	Sodium Hypochlorite Metering Pump #2	1986	\$6,000	10	1996	-26	2022	5	2	2	10	Frequent Monitoring
HWSC WWTF	Utility Room	HVAC	Unit heater	1986	\$12,000	20	2006	-16	2023	1	4	4	4	Priority Renewal
HWSC WWTF	Utility Room	Mechanical	Plant water pump	1990	\$6,000	20	2010	-12	2022	2	3	3	6	Frequent Monitoring
	Utility Room	Process	Plant water pressure tank	1986	\$12,000	50	2036	14	2036	2	2	2	4	Limited Monitoring
HWSC WWTF		1100033		1000	ψ12,000	00	2000	14	2000	-	-	-		

borough WWTF	Asset Data Table			Year 1	Year 2	COST OF Year 3	Year 4		Year 6		Year 8		Year 1
Facility Name	Category	Process	Asset Description	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
HWSC WWTF	Blower Room	Mechanical	Grit aeration tank blower	\$00.000									L
HWSC WWTF	Blower Room	Mechanical	Generator	\$80,000									
HWSC WWTF	Blower Room	Site	Fuel Tank					\$4,000					
HWSC WWTF	Blower Room	Mechanical	Blower #1						\$75,000				
HWSC WWTF	Blower Room	Mechanical	Blower #2						\$75,000				
HWSC WWTF	Blower Room	Mechanical	Blower #3						\$75,000				
HWSC WWTF	Blower Room	HVAC	Unit heater										
HWSC WWTF	Chemical Building	Electrical	Electrical and Instrumentation						\$90,000				
HWSC WWTF	Chemical Building	Mechanical	Peristaltic pump, 4						\$20,000				
HWSC WWTF	Chemical Building	HVAC	On-demand water heaters, 2										
HWSC WWTF	Chemical Building	HVAC	Vents and HVAC										
HWSC WWTF	Chemical Building	Mechanical	Deep containment sump and coating										
HWSC WWTF	Chemical Building	Miscellaneous	Eyewash station										
HWSC WWTF	Chemical Building	Process	Ferric chloride tank										
HWSC WWTF	Chemical Building	Process	Magnesium hydroxide tank										<u> </u>
HWSC WWTF	Chemical Building	Structural	Windows										
HWSC WWTF	Chemical Building	Structural	Doors										
HWSC WWTF	Chemical Building	Structural	Roof										
HWSC WWTF	Chemical Building	Structural	Concrete foundation and floor										
HWSC WWTF	Chemical Building	Structural	Pre-fab structure										
HWSC WWTF	Chlorine Contact Chambers	Structural	Concrete chamber #1										
HWSC WWTF	Chlorine Contact Chambers	Structural	Concrete chamber #2										
HWSC WWTF	Chlorine Contact Chambers	Structural	Distribution box chlorine contact tank #2										
HWSC WWTF	Headworks Room	Mechanical	Grit screw conveyer	\$24,000									
HWSC WWTF	Headworks Room	HVAC	Unit heater	\$12,000									
HWSC WWTF	Headworks Room	Mechanical	Influent meter	\$5,000									
HWSC WWTF	Headworks Room	Mechanical	Grit washing unit	\$12,000									
HWSC WWTF			0										——
	Headworks Room	Mechanical	Grit strainer	\$6,000									
HWSC WWTF	Headworks Room	Mechanical	Grit collector	\$12,000									
HWSC WWTF	Headworks Room	Process	Bar rack					\$18,000					
HWSC WWTF	Headworks Room	Mechanical	Screw Pump #1										
HWSC WWTF	Headworks Room	Mechanical	Screw Pump #2										
HWSC WWTF	Headworks Room	Process	Process piping and valves										
HWSC WWTF	Headworks Room	Process	Parshall flume										
HWSC WWTF	Headworks Room	Mechanical	Grit aeration tank										
HWSC WWTF	Lagoons	Process	Floating baffle lagoon #1						\$12,000				
HWSC WWTF	Lagoons	Process	Floating aeration system lagoon #2										
HWSC WWTF	Lagoons	Process	Floating aeration system lagoon #3										
HWSC WWTF	Lagoons	Process	Sludge removal lagoon #1										
HWSC WWTF	Lagoons	Process	Sludge removal lagoon #3										
HWSC WWTF		Process	Lagoon Liner Replacement #1										<u> </u>
	Lagoons												
HWSC WWTF	Lagoons	Process	Lagoon Liner Replacement #2										
HWSC WWTF	Lagoons	Process	Lagoon Liner Replacement #3										
HWSC WWTF	Lagoons	Process	Floating aeration system lagoon #1										
HWSC WWTF	Lagoons	Process	Sludge removal lagoon #2										
HWSC WWTF	Landscape	Site	Paved access drive overlay	\$30,000									
HWSC WWTF	Landscape	Site	Perimeter fence	\$100,000									
HWSC WWTF	Operations Building	HVAC	Air conditioning system	\$6,000									
HWSC WWTF	Operations Building	Electrical	Exterior lighting		\$24,000								
HWSC WWTF	Operations Building	HVAC	Boiler		\$24,000								
HWSC WWTF	Operations Building	Miscellaneous	Bathroom and Fixtures	\$20,000	,								
HWSC WWTF	Operations Building	HVAC	Exhaust vent	\$6,000									
HWSC WWTF	Operations Building	Structural	Roof	\$68,000									
HWSC WWTF	Operations Building	Miscellaneous	Sink and Laboratory Equipment	\$40,000									
	1 0												
HWSC WWTF	Operations Building	Structural	Windows	\$24,000				0 04 000					
HWSC WWTF	Operations Building	Electrical	Interior lighting					\$24,000					
HWSC WWTF	Operations Building	Structural	Exterior doors		\$12,000								
HWSC WWTF	Operations Building	Structural	Concrete block walls, foundation, floor										
HWSC WWTF	Operations Building	Structural	Interior doors										
HWSC WWTF	Septage Receiving	Electrical	PLC Panel #2						\$24,000				
HWSC WWTF	Septage Receiving	Structural	Concrete tank septage receiving						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
HWSC WWTF	Utility Room	Mechanical	Sodium Hypochlorite Metering Pump #1	\$6,000									
HWSC WWTF		Mechanical		\$6,000									
	Utility Room		Sodium Hypochlorite Metering Pump #2	\$0,000	¢10.000								
HWSC WWTF	Utility Room	HVAC	Unit heater	AO 000	\$12,000								
HWSC WWTF	Utility Room	Mechanical	Plant water pump	\$6,000									
HWSC WWTF	Utility Room	Process	Plant water pressure tank										

									OF ASSET REP						
llsborough WWTF	Asset Data Table			0 - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100	0 - 100	
Facility Name	Category	Process	Asset Description	2022-2031	2032-2041	2042-2051	2052-2061	2062-2071	2072-2082	2082-2091	2092-2101	2102-2111	2112-2121	2022-2121	100-Yr Replaceme Count
HWSC WWTF	Blower Room	Mechanical	Grit aeration tank blower	2022-2001	2002-2041	2042-2001	2002-2001	2002-2011	2012-2002	2002-2001	2002-2101				0
HWSC WWTF	Blower Room	Mechanical	Generator	\$80,000			\$80,000			\$80,000			\$80,000	\$160,000	4
HWSC WWTF	Blower Room	Site	Fuel Tank	\$4,000				\$4,000		. ,		\$4,000		\$8,000	3
HWSC WWTF	Blower Room	Mechanical	Blower #1	\$75,000		\$75,000	\$75,000		\$75,000	\$75,000		\$75,000	\$75,000	\$225,000	7
HWSC WWTF	Blower Room	Mechanical	Blower #2	\$75,000		\$75,000	\$75,000		\$75,000	\$75,000		\$75,000	\$75,000	\$225,000	7
HWSC WWTF	Blower Room	Mechanical	Blower #3	\$75,000		\$75,000	\$75,000		\$75,000	\$75,000		\$75,000	\$75,000	\$225,000	7
HWSC WWTF	Blower Room	HVAC	Unit heater	<u> </u>	\$12,000	<u> </u>	\$12,000		\$12,000	*• •••	\$12,000	*• •••	\$12,000	\$24,000	5
HWSC WWTF	Chemical Building	Electrical	Electrical and Instrumentation	\$90,000		\$90,000	\$90,000		\$90,000	\$90,000		\$90,000	\$90,000	\$270,000	7
HWSC WWTF	Chemical Building Chemical Building	Mechanical HVAC	Peristaltic pump, 4 On-demand water heaters, 2	\$20,000	\$30,000	\$20,000	\$20,000 \$30,000		\$20,000 \$30,000	\$20,000	\$30,000	\$20,000	\$20,000 \$30,000	\$60,000 \$60,000	5
HWSC WWTF	Chemical Building	HVAC	Vents and HVAC		\$35,000		\$35,000		\$35,000		\$35,000		\$35,000	\$70,000	5
HWSC WWTF	Chemical Building	Mechanical	Deep containment sump and coating		\$30,000		\$30,000		\$30,000		\$30,000		\$30,000	\$60,000	5
HWSC WWTF	Chemical Building	Miscellaneous	Eyewash station		\$16,000		\$16,000		\$16,000		\$16,000		\$16,000	\$32,000	5
HWSC WWTF	Chemical Building	Process	Ferric chloride tank		, , , , , , , , , , , , , , , , , , , 	\$55,000			\$55,000			\$55,000		\$55,000	3
HWSC WWTF	Chemical Building	Process	Magnesium hydroxide tank			\$80,000			\$80,000			\$80,000		\$80,000	3
HWSC WWTF	Chemical Building	Structural	Windows			\$20,000			\$20,000			\$20,000		\$20,000	3
HWSC WWTF	Chemical Building	Structural	Doors				\$20,000				\$20,000			\$20,000	2
HWSC WWTF	Chemical Building	Structural	Roof					\$30,000					\$30,000	\$30,000	2
HWSC WWTF	Chemical Building	Structural	Concrete foundation and floor							\$80,000				\$0	1
HWSC WWTF	Chemical Building	Structural	Pre-fab structure				000			\$120,000				\$0	1
HWSC WWTF	Chlorine Contact Chambers		Concrete chamber #1				\$60,000							\$60,000	1
HWSC WWTF	Chlorine Contact Chambers	Structural	Concrete chamber #2				\$60,000							\$60,000	1
HWSC WWTF	Chlorine Contact Chambers Headworks Room	Structural Mechanical	Distribution box chlorine contact tank #2 Grit screw conveyer	\$24,000	\$24,000		\$60,000 \$24,000	\$24,000		\$24,000	\$24,000		\$24,000	\$60,000 \$96,000	1
HWSC WWTF	Headworks Room	HVAC	Unit heater	\$24,000 \$12,000	\$24,000	\$12,000	\$24,000	\$24,000		\$24,000 \$12,000	\$24,000	\$12,000	\$24,000	\$96,000	5
HWSC WWTF	Headworks Room	Mechanical	Influent meter	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$12,000	\$5,000	\$25,000	10
HWSC WWTF	Headworks Room	Mechanical	Grit washing unit	\$12,000	\$12,000	ψ0,000	\$12,000	\$12,000	\$3,000	\$12,000	\$12,000	ψ0,000	\$12,000	\$48,000	7
HWSC WWTF	Headworks Room	Mechanical	Grit strainer	\$6,000	\$6,000		\$6,000	\$6,000		\$6,000	\$6,000		\$6,000	\$24,000	7
HWSC WWTF	Headworks Room	Mechanical	Grit collector	\$12,000	\$12,000		\$12,000	\$12,000		\$12,000	\$12,000		\$12,000	\$48,000	7
HWSC WWTF	Headworks Room	Process	Bar rack	\$18,000	, ,			\$18,000		, ,	, ,	\$18,000	, ,	\$36,000	3
HWSC WWTF	Headworks Room	Mechanical	Screw Pump #1		\$400,000		\$400,000		\$400,000		\$400,000		\$400,000	\$800,000	5
HWSC WWTF	Headworks Room	Mechanical	Screw Pump #2		\$400,000		\$400,000		\$400,000		\$400,000		\$400,000	\$800,000	5
HWSC WWTF	Headworks Room	Process	Process piping and valves		\$40,000					\$40,000				\$40,000	2
HWSC WWTF	Headworks Room	Process	Parshall flume				\$20,000						\$20,000	\$20,000	2
HWSC WWTF	Headworks Room	Mechanical	Grit aeration tank	* 10.000		.	\$0		A 10,000	* 4 * • • • • • • • • • • • • • • • • • • •		.	* 4 0 0 0 0	\$0	1
HWSC WWTF	Lagoons	Process	Floating baffle lagoon #1	\$12,000	¢470.000	\$12,000	\$12,000		\$12,000	\$12,000	¢470.000	\$12,000	\$12,000	\$36,000	/
HWSC WWTF	Lagoons	Process	Floating aeration system lagoon #2		\$170,000		\$170,000		\$170,000		\$170,000		\$170,000	\$340,000	5
HWSC WWTF	Lagoons	Process Process	Floating aeration system lagoon #3 Sludge removal lagoon #1		\$100,000 \$400,000		\$100,000	\$400,000	\$100,000		\$100,000 \$400,000		\$100,000	\$200,000 \$800,000	3
HWSC WWTF	Lagoons Lagoons	Process	Sludge removal lagoon #3		\$200,000			φ400,000		\$200,000	\$400,000			\$200,000	2
HWSC WWTF	Lagoons	Process	Lagoon Liner Replacement #1		\$1,250,000					\$1,250,000				\$1,250,000	2
HWSC WWTF	Lagoons	Process	Lagoon Liner Replacement #2		\$650,000					\$650,000				\$650,000	2
HWSC WWTF	Lagoons	Process	Lagoon Liner Replacement #3		\$650,000					\$650,000				\$650,000	2
HWSC WWTF	Lagoons	Process	Floating aeration system lagoon #1		\$400,000		\$400,000		\$400,000	,,	\$400,000		\$400,000	\$800,000	5
HWSC WWTF	Lagoons	Process	Sludge removal lagoon #2			\$200,000			\$200,000			\$200,000		\$200,000	3
HWSC WWTF	Landscape	Site	Paved access drive overlay	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$150,000	10
HWSC WWTF	Landscape	Site	Perimeter fence	\$100,000			\$100,000			\$100,000			\$100,000	\$200,000	4
HWSC WWTF	Operations Building	HVAC	Air conditioning system	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$30,000	10
HWSC WWTF	Operations Building	Electrical	Exterior lighting	\$24,000		\$24,000		\$24,000		\$24,000		\$24,000		\$72,000	5
HWSC WWTF	Operations Building	HVAC	Boiler	\$24,000		\$24,000		\$24,000		\$24,000		\$24,000		\$72,000	5
HWSC WWTF	Operations Building	Miscellaneous	Bathroom and Fixtures	\$20,000 \$6,000		\$20,000		\$20,000	¢c.000	\$20,000	¢c.000	\$20,000		\$60,000	5
HWSC WWTF	Operations Building	HVAC	Exhaust vent	\$6,000		\$6,000			\$6,000		\$6,000			\$12,000	4
HWSC WWTF	Operations Building Operations Building	Structural Miscellaneous	Roof Sink and Laboratory Equipment	\$68,000 \$40,000		\$68,000	\$40,000		\$68,000	\$40,000	\$68,000		\$40,000	\$136,000 \$80,000	4
HWSC WWTF	Operations Building	Structural	Windows	\$40,000			\$40,000			\$40,000			\$40,000	\$48,000	4
HWSC WWTF	Operations Building	Electrical	Interior lighting	\$24,000			Ψ24,000	\$24,000		φ24,000		\$24,000	Ψ24,000	\$48,000	3
IWSC WWTF	Operations Building	Structural	Exterior doors	\$12,000				\$12,000				\$12,000		\$40,000	3
IWSC WWTF	Operations Building	Structural	Concrete block walls, foundation, floor	÷.2,000			\$510,000	Ţ. <u>_</u> ,000				÷.=,000		\$510,000	1
IWSC WWTF	Operations Building	Structural	Interior doors				\$12,000							\$12,000	1
IWSC WWTF	Septage Receiving	Electrical	PLC Panel #2	\$24,000		\$24,000	\$24,000		\$24,000	\$24,000		\$24,000	\$24,000	\$72,000	7
WSC WWTF	Septage Receiving	Structural	Concrete tank septage receiving				\$0							\$0	1
HWSC WWTF	Utility Room	Mechanical	Sodium Hypochlorite Metering Pump #1	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$30,000	10
HWSC WWTF	Utility Room	Mechanical	Sodium Hypochlorite Metering Pump #2	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$30,000	10
HWSC WWTF	Utility Room	HVAC	Unit heater	\$12,000		\$12,000		\$12,000		\$12,000		\$12,000		\$36,000	5
HWSC WWTF	Utility Room	Mechanical	Plant water pump	\$6,000		\$6,000		\$6,000		\$6,000		\$6,000		\$18,000	5
HWSC WWTF	Utility Room	Process	Plant water pressure tank		\$12,000					\$12,000				\$12,000	2
HWSC WWTF	Utility Room	Process	Sodium Hypochlorite Tank		\$20,000					\$20,000				\$20,000	2

Hillsborough W. Main Street	Pump Static	on Asset Data Table											
			Estimated	Replacement		End Useful	Remaining	Replacement	Impact of	Condition	Probability	Risk	
Facility Name	Process	Asset Description	Year Installed	Cost	Useful Life	Life	Useful Life	Year	Failure	Score	of Failure	Score	Criticality
W Main Street Pump Station	Electrical	Alarms and Controls	1986	\$24,000	15	2001	-21	2022	5	2	2	10	Frequent Monitoring
W Main Street Pump Station	Electrical	Liquid level control	1986	\$10,000	40	2026	4	2026	2	2	2	4	Limited Monitoring
W Main Street Pump Station	Electrical	Telemetry control panels	1986	\$15,000	40	2026	4	2026	2	3	3	6	Frequent Monitoring
W Main Street Pump Station	Electrical	Transfer panel and Electrical	1986	\$24,000	40	2026	4	2026	4	2	2	8	Frequent Monitoring
W Main Street Pump Station	HVAC	Dehumidifier	1986	\$1,000	10	1996	-26	2022	2	2	2	4	Limited Monitoring
W Main Street Pump Station	HVAC	Unit heater #1	1986	\$3,000	20	2006	-16	2022	1	2	2	2	Limited Monitoring
W Main Street Pump Station	HVAC	Unit heater #2	1986	\$3,000	20	2006	-16	2022	1	2	2	2	Limited Monitoring
W Main Street Pump Station	HVAC	Unit heater #3	1986	\$3,000	20	2006	-16	2022	1	2	2	2	Limited Monitoring
W Main Street Pump Station	HVAC	Unit heater #4	1986	\$3,000	20	2006	-16	2022	1	2	2	2	Limited Monitoring
W Main Street Pump Station	Mechanical	Compressor #1	1986	\$12,000	10	1996	-26	2022	5	2	2	10	Frequent Monitoring
W Main Street Pump Station	Mechanical	Compressor #2	1986	\$12,000	10	1996	-26	2022	5	2	2	10	Frequent Monitoring
W Main Street Pump Station	Mechanical	Generator	2008	\$48,000	30	2038	16	2038	4	2	2	8	Frequent Monitoring
W Main Street Pump Station	Mechanical	Inline exhaust fan	1986	\$6,000	10	1996	-26	2022	2	2	2	4	Limited Monitoring
W Main Street Pump Station	Mechanical	Pump #1	1999	\$24,000	20	2019	-3	2022	5	2	2	10	Frequent Monitoring
W Main Street Pump Station	Mechanical	Pump #2	1986	\$24,000	20	2006	-16	2022	5	2	2	10	Frequent Monitoring
W Main Street Pump Station	Mechanical	Sump pump and piping	1986	\$6,000	20	2006	-16	2022	2	1	1	2	Limited Monitoring
W Main Street Pump Station	Process	Flow meter	1986	\$6,000	10	1996	-26	2022	2	1	1	2	Limited Monitoring
W Main Street Pump Station	Process	Influent Grinder Pump	2021	\$91,000	15	2036	14	2036	1	1	1	1	Limited Monitoring
W Main Street Pump Station	Process	Process piping and valves	1986	\$80,000	50	2036	14	2036	5	2	2	10	Frequent Monitoring
W Main Street Pump Station	Site	Buried fiberglass oil tank	1986	\$48,000	40	2026	4	2026	3	1	1	3	Limited Monitoring
W Main Street Pump Station	Site	Paved access drive	1986	\$10,000	50	2036	14	2036	1	3	3	3	Frequent Monitoring
W Main Street Pump Station	Structural	Brick Building	1986	\$30,000	75	2061	39	2061	3	1	1	3	Limited Monitoring
W Main Street Pump Station	Structural	Concrete Wetwell	1986	\$250,000	75	2061	39	2061	5	1	1	5	Frequent Monitoring
W Main Street Pump Station	Structural	Underground Dry Pit	1986	\$400,000	75	2061	39	2061	5	1	1	5	Frequent Monitoring
W Main Street Pump Station	Structural	Doors	1986	\$12,000	30	2016	-6	2022	1	2	2	2	Limited Monitoring
W Main Street Pump Station	Structural	Roof	1986	\$4,000	25	2011	-11	2022	3	1	1	3	Limited Monitoring

					COST C	OF ASSET	REPLAC	EMENT -	FIRST TE	N YEARS		
Hillsborough W. Main Street	Pump Statio	on Asset Data Table	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Facility Name	Process	Asset Description	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
W Main Street Pump Station	Electrical	Alarms and Controls	\$24,000									
W Main Street Pump Station	Electrical	Liquid level control					\$10,000					
W Main Street Pump Station	Electrical	Telemetry control panels					\$15,000					
W Main Street Pump Station	Electrical	Transfer panel and Electrical					\$24,000					
W Main Street Pump Station	HVAC	Dehumidifier	\$1,000									
W Main Street Pump Station	HVAC	Unit heater #1	\$3,000									
W Main Street Pump Station	HVAC	Unit heater #2	\$3,000									
W Main Street Pump Station	HVAC	Unit heater #3	\$3,000									
W Main Street Pump Station	HVAC	Unit heater #4	\$3,000									
W Main Street Pump Station	Mechanical	Compressor #1	\$12,000									
W Main Street Pump Station	Mechanical	Compressor #2	\$12,000									
W Main Street Pump Station	Mechanical	Generator										
W Main Street Pump Station	Mechanical	Inline exhaust fan	\$6,000									
W Main Street Pump Station	Mechanical	Pump #1	\$24,000									
W Main Street Pump Station	Mechanical	Pump #2	\$24,000									
W Main Street Pump Station	Mechanical	Sump pump and piping	\$6,000									
W Main Street Pump Station	Process	Flow meter	\$6,000									
W Main Street Pump Station	Process	Influent Grinder Pump										
W Main Street Pump Station	Process	Process piping and valves										
W Main Street Pump Station	Site	Buried fiberglass oil tank					\$48,000					
W Main Street Pump Station	Site	Paved access drive										
W Main Street Pump Station	Structural	Brick Building										
W Main Street Pump Station	Structural	Concrete Wetwell										
W Main Street Pump Station	Structural	Underground Dry Pit										
W Main Street Pump Station	Structural	Doors	\$12,000									
W Main Street Pump Station	Structural	Roof	\$4,000									

						C	OST OF AS	SET REPLA	CEMENT -	NEXT 100 Y	/EARS			
Hillsborough W. Main Street	Pump Static	on Asset Data Table	0 - 10	11 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80	81 - 90	91 - 100	0 - 100	
Facility Name	Process	Asset Description	2022-2031	2032-2041	2042-2051	2052-2061	2062-2071	2072-2082	2082-2091	2092-2101	2102-2111	2112-2121	2022-2121	100-Yr Replacement Count
W Main Street Pump Station	Electrical	Alarms and Controls	\$24,000	\$24,000		\$24,000	\$24,000		\$24,000	\$24,000		\$24,000	\$96,000	7
W Main Street Pump Station	Electrical	Liquid level control	\$10,000				\$10,000				\$10,000		\$20,000	3
W Main Street Pump Station	Electrical	Telemetry control panels	\$15,000				\$15,000				\$15,000		\$30,000	3
W Main Street Pump Station	Electrical	Transfer panel and Electrical	\$24,000				\$24,000				\$24,000		\$48,000	3
W Main Street Pump Station	HVAC	Dehumidifier	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$5,000	10
W Main Street Pump Station	HVAC	Unit heater #1	\$3,000		\$3,000		\$3,000		\$3,000		\$3,000		\$9,000	5
W Main Street Pump Station	HVAC	Unit heater #2	\$3,000		\$3,000		\$3,000		\$3,000		\$3,000		\$9,000	5
W Main Street Pump Station	HVAC	Unit heater #3	\$3,000		\$3,000		\$3,000		\$3,000		\$3,000		\$9,000	5
W Main Street Pump Station	HVAC	Unit heater #4	\$3,000		\$3,000		\$3,000		\$3,000		\$3,000		\$9,000	5
W Main Street Pump Station	Mechanical	Compressor #1	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$60,000	10
W Main Street Pump Station	Mechanical	Compressor #2	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$60,000	10
W Main Street Pump Station	Mechanical	Generator		\$48,000			\$48,000			\$48,000			\$96,000	3
W Main Street Pump Station	Mechanical	Inline exhaust fan	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$30,000	10
W Main Street Pump Station	Mechanical	Pump #1	\$24,000		\$24,000		\$24,000		\$24,000		\$24,000		\$72,000	5
W Main Street Pump Station	Mechanical	Pump #2	\$24,000		\$24,000		\$24,000		\$24,000		\$24,000		\$72,000	5
W Main Street Pump Station	Mechanical	Sump pump and piping	\$6,000		\$6,000		\$6,000		\$6,000		\$6,000		\$18,000	5
W Main Street Pump Station	Process	Flow meter	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$30,000	10
W Main Street Pump Station	Process	Influent Grinder Pump		\$91,000	\$91,000		\$91,000	\$91,000		\$91,000	\$91,000		\$273,000	6
W Main Street Pump Station	Process	Process piping and valves		\$80,000					\$80,000				\$80,000	2
W Main Street Pump Station	Site	Buried fiberglass oil tank	\$48,000				\$48,000				\$48,000		\$96,000	3
W Main Street Pump Station	Site	Paved access drive		\$10,000					\$10,000				\$10,000	2
W Main Street Pump Station	Structural	Brick Building				\$30,000							\$30,000	1
W Main Street Pump Station	Structural	Concrete Wetwell				\$250,000							\$250,000	1
W Main Street Pump Station	Structural	Underground Dry Pit				\$400,000							\$400,000	1
W Main Street Pump Station	Structural	Doors	\$12,000			\$12,000			\$12,000			\$12,000	\$24,000	4
W Main Street Pump Station	Structural	Roof	\$4,000		\$4,000			\$4,000		\$4,000			\$8,000	4

illsborough WWTF 50-Yea	ar Asset Replac	ement Schedule							0 - 10	11 - 20	21 - 30	31 - 40	41 - 50	0 - 50	
			Estimated Year			End Useful	Remaining	Replacement							50-Yr Replace
Category	Process	Asset Description	Installed	Cost	Useful Life	Life	Useful Life	Year	2022-2031	2032-2041	2042-2051	2052-2061	2062-2071	2022-20711	Count
Blower Room	HVAC	Unit heater	2012	\$12,000	20	2032	10	2032		\$12,000		\$12,000		\$24,000	2
Blower Room	Mechanical	Blower #1	2012	\$75,000	15	2027	5	2027	\$75,000		\$75,000	\$75,000		\$225,000	3
Blower Room	Mechanical	Blower #2	2012	\$75,000	15	2027	5	2027	\$75,000		\$75,000	\$75,000		\$225,000	3
Blower Room	Mechanical	Blower #3	2012	\$75,000	15	2027	5	2027	\$75,000		\$75,000	\$75,000		\$225,000	3
Blower Room	Mechanical	Generator	1986	\$80,000	30	2016	-6	2022	\$80,000			\$80,000		\$160,000	2
Blower Room	Mechanical	Grit aeration tank blower	1986	\$0	10	1996	-26	2022							0
Blower Room	Site	Fuel Tank	1986	\$4,000	40	2026	4	2026	\$4,000				\$4,000	\$8,000	2
Chemical Building	Electrical	Electrical and Instrumentation	2012	\$90,000	15	2027	5	2027	\$90,000		\$90,000	\$90,000		\$270,000	3
Chemical Building	HVAC	On-demand water heaters, 2	2012	\$30,000	20	2032	10	2032		\$30,000		\$30,000		\$60,000	2
Chemical Building	HVAC	Vents and HVAC	2012	\$35,000	20	2032	10	2032		\$35,000		\$35,000		\$70,000	2
Chemical Building	Mechanical	Deep containment sump and coating	2012	\$30,000	20	2032	10	2032		\$30,000		\$30,000		\$60,000	2
Chemical Building	Mechanical	Peristaltic pump, 4	2012	\$20,000	15	2027	5	2027	\$20,000		\$20,000	\$20,000		\$60,000	3
Chemical Building	Miscellaneous	Eyewash station	2012	\$16,000	20	2032	10	2032		\$16,000		\$16,000		\$32,000	2
Chemical Building	Process	Ferric chloride tank	2012	\$55,000	30	2042	20	2042			\$55,000			\$55,000	1
Chemical Building	Process	Magnesium hydroxide tank	2012	\$80,000	30	2042	20	2042			\$80,000			\$80,000	1
Chemical Building	Structural	Concrete foundation and floor	2012	\$80,000	75	2087	65	2087						\$0	0
Chemical Building	Structural	Doors	2012	\$20,000	40	2052	30	2052				\$20,000		\$20,000	1
Chemical Building	Structural	Pre-fab structure	2012	\$120,000	75	2087	65	2087						\$0	0
Chemical Building	Structural	Roof	2012	\$30,000	50	2062	40	2062					\$30,000	\$30,000	1
Chemical Building	Structural	Windows	2012	\$20,000	30	2042	20	2042			\$20,000			\$20,000	1
nlorine Contact Chambers		Concrete chamber #1	1986	\$60,000	75	2061	39	2061				\$60,000		\$60,000	1
nlorine Contact Chambers		Concrete chamber #2	1986	\$60,000	75	2061	39	2061				\$60,000		\$60,000	1
nlorine Contact Chambers		Distribution box chlorine contact tank #2	1986	\$60,000	75	2061	39	2061				\$60,000		\$60,000	1
Headworks Room	HVAC	Unit heater	1986	\$12,000	20	2006	-16	2022	\$12,000		\$12.000		\$12.000	\$36,000	3
Headworks Room	Mechanical	Grit aeration tank	1986	\$0	75	2061	39	2061			,	\$0	• ••=,••••	\$0	0
Headworks Room	Mechanical	Grit screw conveyer	1986	\$24,000	15	2001	-21	2022	\$24.000	\$24,000		\$24.000	\$24,000	\$96,000	4
Headworks Room	Mechanical	Grit strainer	2007	\$6,000	15	2022	0	2022	\$6,000	\$6,000		\$6,000	\$6,000	\$24,000	4
Headworks Room	Mechanical	Grit washing unit	2003	\$12,000	15	2018	-4	2022	\$12,000	\$12,000		\$12,000	\$12,000	\$48,000	4
Headworks Room	Mechanical	Grit collector	2003	\$12,000	15	2010	-4	2022	\$12,000	\$12,000		\$12,000	\$12,000	\$48,000	4
Headworks Room	Mechanical	Influent meter	2007	\$5,000	10	2022	-9	2022	\$5,000	\$5,000	\$5,000	\$5,000	\$5.000	\$48,000	5
Headworks Room	Mechanical	Screw Pump #1	2003	\$400,000	20	2013	-9	2022	φ0,000	\$400,000	\$5,000	\$400,000	\$5,000	\$800,000	2
Headworks Room	Mechanical	Screw Pump #1	2013	\$400,000	20	2033	11	2033		\$400,000		\$400,000		\$800,000	2
												\$400,000			2
Headworks Room	Process	Process piping and valves	1986	\$40,000	50	2036	14	2036	A 40.000	\$40,000				\$40,000	1
Headworks Room	Process	Bar rack	1986	\$18,000	40	2026	4	2026	\$18,000				\$18,000	\$36,000	2
Headworks Room	Process	Parshall flume	1995	\$20,000	60	2055	33	2055				\$20,000		\$20,000	1
Lagoons	Process	Floating aeration system lagoon #1	2021	\$400,000	20	2041	19	2041		\$400,000		\$400,000		\$800,000	2
Lagoons	Process	Floating baffle lagoon #1	2012	\$12,000	15	2027	5	2027	\$12,000		\$12,000	\$12,000		\$36,000	3
Lagoons	Process	Sludge removal lagoon #1	2003	\$400,000	30	2033	11	2033		\$400,000			\$400,000	\$800,000	2
Lagoons	Process	Floating aeration system lagoon #2	2012	\$170,000	20	2032	10	2032		\$170,000		\$170,000		\$340,000	2
Lagoons	Process	Sludge removal lagoon #2	2013	\$200,000	30	2043	21	2043			\$200,000			\$200,000	1
Lagoons	Process	Floating aeration system lagoon #3	2012	\$100,000	20	2032	10	2032		\$100,000		\$100,000		\$200,000	2
Lagoons	Process	Sludge removal lagoon #3	1986	\$200,000	50	2036	14	2036		\$200,000				\$200,000	1
Lagoons	Process	Lagoon Liner Replacement #1	1986	\$1,250,000	50	2036	14	2036		\$1,250,000				\$1,250,000	1
Lagoons	Process	Lagoon Liner Replacement #2	1986	\$650,000	50	2036	14	2036		\$650,000				\$650,000	1
Lagoons	Process	Lagoon Liner Replacement #3	1986	\$650,000	50	2036	14	2036		\$650,000				\$650,000	1
Landscape	Site	Paved access drive overlay	1986	\$30,000	10	1996	-26	2022	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$150,000	5
Landscape	Site	Perimeter fence	1986	\$100,000	30	2016	-6	2022	\$100,000			\$100,000		\$200,000	2
Operations Building	Electrical	Exterior lighting	1986	\$24,000	20	2006	-16	2023	\$24,000		\$24,000		\$24,000	\$72,000	3
Operations Building	Electrical	Interior lighting	1986	\$24,000	40	2026	4	2026	\$24,000				\$24,000	\$48,000	2
Operations Building	HVAC	Air conditioning system	1986	\$6,000	10	1996	-26	2022	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$30,000	5
Operations Building	HVAC	Boiler	1986	\$24,000	20	2006	-16	2023	\$24.000		\$24,000		\$24,000	\$72,000	3
Operations Building	HVAC	Exhaust vent	1986	\$6,000	25	2000	-11	2022	\$6.000		\$6,000		Q2 1,000	\$12,000	2
Operations Building	Miscellaneous	Sink and Laboratory Equipment	1986	\$40,000	30	2016	-6	2022	\$40,000		\$0,000	\$40.000		\$80,000	2
Operations Building	Miscellaneous	Bathroom and Fixtures	1986	\$20,000	20	2006	-16	2022	\$20,000		\$20,000	φ 1 0,000	\$20,000	\$60,000	3
Operations Building	Structural	Concrete block walls, foundation, floor	1986	\$20,000	75	2006	- 16	2022	φ20,000		φ20,000	\$510,000	φ20,000	\$510,000	
Operations Building	Structural	Exterior doors	1986	\$12,000	40	2001	4	2001	\$12,000			\$510,000	\$12,000	\$510,000	2
	Structural	Interior doors	1986	\$12,000	75	2026	39	2023	φ12,000			\$12,000	φ12,000		2
Operations Building									000.000		000.000	\$12,000		\$12,000	1
Operations Building	Structural	Roof	1986	\$68,000	25	2011	-11	2022	\$68,000		\$68,000	004.000		\$136,000	2
Operations Building	Structural	Windows	1986	\$24,000	30	2016	-6	2022	\$24,000		004.000	\$24,000		\$48,000	2
Septage Receiving	Electrical	PLC Panel #2	2012	\$24,000	15	2027	5	2027	\$24,000		\$24,000	\$24,000		\$72,000	3
Septage Receiving	Structural	Concrete tank septage receiving	1986	\$0	75	2061	39	2061				\$0		\$0	0
Utility Room	HVAC	Unit heater	1986	\$12,000	20	2006	-16	2023	\$12,000		\$12,000		\$12,000	\$36,000	3
Utility Room	Mechanical	Plant water pump	1990	\$6,000	20	2010	-12	2022	\$6,000		\$6,000		\$6,000	\$18,000	3
Utility Room	Mechanical	Sodium Hypochlorite Metering Pump #1	1986	\$6,000	10	1996	-26	2022	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$30,000	5
Utility Room	Mechanical	Sodium Hypochlorite Metering Pump #2	1986	\$6,000	10	1996	-26	2022	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$30,000	5
Utility Room	Process	Plant water pressure tank	1986	\$12,000	50	2036	14	2036		\$12,000				\$12,000	1
Utility Room	Process	Sodium Hypochlorite Tank	1986	\$20,000	50	2036	14	2036		\$20,000				\$20,000	1

		Main	
Material	Asset ID	Length (LF)	Replacement Cost
AC			
6 inch diameter	SSGM-5065	426.68	\$256,00
	SSGM-5091	325.17	\$195,10
	SSGM-5226	324.34	\$194,60
	SSGM-5396A	20.50	\$12,30
8 inch diameter	SSGM-5359	237.62	\$142,5
וכ			
10 inch diameter	SSGM-5293A	41.53	\$24,9
/C			
6 inch diameter	SSGM-5009	143.90	\$86,34
	SSGM-5011	339.31	\$203,5
	SSGM-5017	87.46	\$52,4
	SSGM-5019	60.42	\$36,2
	SSGM-5020	415.80	\$249,4
	SSGM-5022	207.19	\$124,3
	SSGM-5024	114.30	\$68,5
	SSGM-5025	130.50	\$78,3
	SSGM-5033	98.85	\$59,3
	SSGM-5047	119.54	\$71,7
	SSGM-5047A	128.69	\$77,2
	SSGM-5054	402.62	\$241,5
	SSGM-5058	138.86	\$83,3
	SSGM-5068	217.95	\$130,7
	SSGM-5069	254.88	\$152,9
	SSGM-5070	168.07	\$100,8
	SSGM-5074	116.90	\$70,1
	SSGM-5092	309.16	\$185,4
	SSGM-5099	208.52	\$125,1
	SSGM-5108	286.40	\$171,8
	SSGM-5111	315.11	\$189,0
	SSGM-5118	150.92	\$90,5
	SSGM-5125	241.80	\$145,0
	SSGM-5126	290.35	\$174,2
	SSGM-5131	466.33	\$279,7
	SSGM-5133	279.63	\$167,7
	SSGM-5137	352.47	\$211,4
	SSGM-5138	468.76	\$281,2
	SSGM-5159	241.39	\$144,8
	SSGM-5161	296.21	\$177,7
	SSGM-5165	456.50	\$273,9
	SSGM-5168	242.69	\$145,6
	SSGM-5182	284.03	\$170,4
	SSGM-5188	333.11	\$199,8
	SSGM-5201	24.37	\$14,6
	SSGM-5202	54.61	\$32,7
	SSGM-5202A	513.82	\$308,2
	SSGM-5218	309.60	\$185,7
	SSGM-5220	345.33	\$207,1
	SSGM-5221	390.90	\$234,54
	SSGM-5229	70.42	\$42,2
	SSGM-5229	140.01	\$84,0
	SSGM-5232 SSGM-5242	373.26	\$223,9

SSGM-5242 HWSC Gravity Main to Replace Within 10 Years

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HWSC Gravity Main to Replace Within 10 Years Main Length (LF) Replacement Cost Material Asset ID 6 inch diameter SSGM-5244 59.36 \$35,616 SSGM-5247 81.72 \$49,032 65.65 SSGM-5253 \$39,390 SSGM-5269 74.73 \$44,838 SSGM-5271 182.58 \$109,548 SSGM-5275 94.17 \$56,502 SSGM-5277 238.29 \$142,974 SSGM-5279 76.48 \$45,888 SSGM-5285 327.45 \$196,470 SSGM-5304 302.28 \$181,368 SSGM-5310 192.41 \$115,446 70.82 SSGM-5333 \$42,492 SSGM-5336 237.64 \$142,584 SSGM-5342 96.46 \$57,876 308.13 \$184,878 SSGM-5351 151.05 \$90,630 SSGM-5360 404.19 SSGM-5361 \$242,514 SSGM-5362 237.78 \$142,668 321.21 SSGM-5370 \$192,726 SSGM-5371 336.01 \$201,606 SSGM-5379 268.51 \$161,106 158.89 \$95,334 SSGM-5380 SSGM-5381 153.75 \$92,250 245.43 SSGM-5396 \$147,258 SSGM-5417 158.76 \$95,256 SSGM-5424 87.20 \$52,320 SSGM-5428 320.52 \$192,312 SSGM-5434 325.84 \$195,504 SSGM-5435 352.52 \$211,512 190.71 \$114,426 SSGM-5436 8 inch diameter SSGM-5012 209.32 \$125,592 SSGM-5026 401.09 \$240,654 SSGM-5052 299.33 \$179,598 235.67 \$141,402 SSGM-5093 238.64 \$143,184 SSGM-5109 \$74,292 SSGM-5121 123.82 SSGM-5128 147.83 \$88,698 SSGM-5139 334.19 \$200,514 354.18 SSGM-5157 \$212,508 SSGM-5164 201.56 \$120,936 SSGM-5198 149.96 \$89,976 SSGM-5243 231.02 \$138,612 210.74 SSGM-5268 \$126,444 166.56 SSGM-5289 \$99,936 SSGM-5293 180.47 \$108,282 SSGM-5305 72.66 \$43,596 SSGM-5386 233.17 \$139,902 SSGM-5426 128.65 \$77,190 SSGM-5427 36.10 \$21,660 SSGM-5427A 288.31 \$172,986 Unknown SSGM-5225 276.17 \$165,702 Grand Total 22,606.76 \$13,564,056

HWSC Gravity Main to Replace Within 10 Years

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sset Type	2022	2023	2026	2027	2041
Bear Hill Pump Station					
Pump Station					
Alarm control box	\$2,000				
Electrical panel	\$15,000				
Pump #2	\$15,000				
Pump controls	\$10,000				
Sump pump and piping	\$2,000				
Switches and Floats	<i>+_,</i>	\$3,000			
Ventallation Blower and piping	\$5,000	<i>v</i> , <i>v v</i>			
HWSC WWTF	40,000				
Blower Room					
Blower #1				\$75,000	
Blower #2				\$75,000	
Blower #3				\$75,000	
Fuel Tank			\$4,000	ψ10,000	
Generator	\$80,000		φ 4 ,000		
Generation Grit aeration tank blower	\$80,000				
Chemical Building	ቅ ሀ				
Electrical and Instrumentation				¢00.000	
				\$90,000	
Peristaltic pump, 4				\$20,000	
Headworks Room			\$10,000		
Bar rack	* (0 0 0 0		\$18,000		
Grit collector	\$12,000				
Grit screw conveyer	\$24,000				
Grit strainer	\$6,000				
Grit washing unit	\$12,000				
Influent meter	\$5,000				
Unit heater	\$12,000				
Lagoons					
Floating aeration system lagoon #1					\$400,0
Floating baffle lagoon #1				\$12,000	
Landscape					
Paved access drive overlay	\$30,000				
Perimeter fence	\$100,000				
Operations Building					
Air conditioning system	\$6,000				
Bathroom and Fixtures	\$20,000				
Boiler		\$24,000			
Exhaust vent	\$6,000				
Exterior doors		\$12,000			
Exterior lighting		\$24,000			
Interior lighting			\$24,000		
Roof	\$68,000				
Sink and Laboratory Equipment	\$40,000				
Windows	\$24,000				
Septage Receiving	Ţ= :,5 00				
PLC Panel #2				\$24,000	
Utility Room				, ,•	
Plant water pump	\$6,000				
Sodium Hypochlorite Metering Pump #1	\$6,000				
Sodium Hypochlorite Metering Pump #2	\$6,000				
Unit heater	ψ0,000	\$12,000			
W Main Street Pump Station		Ψ12,000			
Pump Station					

HWSC Vertical Assets to Replace Within 10 Years

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HWSC Vertical Assets to Replace Within 10 Years					
Asset Type	2022	2023	2026	2027	2041
Alarms and Controls	\$24,000				
Buried fiberglass oil tank			\$48,000		
Compressor #1	\$12,000				
Compressor #2	\$12,000				
Dehumidifier	\$1,000				
Doors	\$12,000				
Flow meter	\$6,000				
Inline exhaust fan	\$6,000				
Liquid level control			\$10,000		
Pump #1	\$24,000				
Pump #2	\$24,000				
Roof	\$4,000				
Sump pump and piping	\$6,000				
Telemetry control panels			\$15,000		
Transfer panel and Electrical			\$24,000		
Unit heater #1	\$3,000				
Unit heater #2	\$3,000				
Unit heater #3	\$3,000				
Unit heater #4	\$3,000				
Grand Total	\$655,000	\$75,000	\$143,000	\$371,000	\$400,000

