



TOWN COUNCIL STUDY SESSION AGENDA
October 28, 2019
5:30 PM

I. Town Council Items

II. Study Session Items

1. Stormwater Needs Assessment - Williams/James - 30 minutes
2. Stormwater Ordinance Revision - Williams/James - 15 minutes
3. High Plains Trail Project Update - Trapp/Hudson - 30 minutes
4. Proposed 2020 Budget Overview - Brown - 30 minutes



MEMORANDUM

TO: Mayor and Town Council

FROM: Tom Williams, Director Eng/PW
Jacob James, Stormwater Manager

DATE: October 28, 2019

SUBJECT: Stormwater Needs Assessment Update

ISSUE:

The Public Works/Engineering Department completed a Stormwater Utility Needs Assessment Report in 2007. This report collected all stormwater infrastructure data and used it to determine the needs (or costs) to operate and maintain the infrastructure as well as the entire Utility. The 2007 Report included a 10-year projection of costs to forecast the actual growth in infrastructure since 2007 and forecast growth and the associated need for the next 10 years.

FISCAL/BUDGET IMPACT:

This report will be used to project budget and resource needs in the future.

BACKGROUND:

The Stormwater Division of the Public Works/Engineering Department operates and maintains the Stormwater infrastructure within the Town. As the Town has experienced significant growth in the past 10 years, the stormwater infrastructure has also expanded. A document that encompasses all aspects of the stormwater utility, providing costs associated with operating and maintaining the infrastructure, will help forecast needs in the future to ensure the citizens receive an acceptable level of service as well as keep the public safe from flooding.

RECOMMENDATION:

Staff recommends that the Stormwater Utility Fee remain unchanged in 2019, with increases in future years in accordance with Consumer Price Index (CPI) to offset inflation as currently prescribed in the code.

REQUESTED DIRECTION:

Staff is requesting concurrence from Town Council on the Needs Assessment and guidance on the Stormwater Fees.

ATTACHMENT:

1. Final Parker Utility Assessment Report
2. Needs Assessment PowerPoint Presentation

TOWN OF PARKER

Stormwater Utility Assessment Report

October 18, 2019

Prepared for:

The Town of Parker

Public Works Department
20120 East Main Street
Parker, CO 80138

Prepared by:

Muller Engineering Company

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Muller Project Number: 18-033.01



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**APPENDIX F – BASE PROGRAM COSTS AND MULTIPLE SUMMARIES OF THE STORMWATER
UTILITY PROGRAM PROJECTED COSTS THROUGH 2028**

**APPENDIX G – STORMWATER UTILITY FUND ANNUAL DISTRIBUTION SPREADSHEETS –
2017 THROUGH 2028**

1 INTRODUCTION

Muller Engineering Company has completed an assessment of the Town of Parker's stormwater utility program costs. The intent of this assessment is to evaluate actual costs to the stormwater utility in 2017 and forecast those expenses through 2028. The Town will use these cost data while reviewing the current utility fee structure and reserve funds available to determine if changes to the stormwater utility fees are necessary to keep pace with projected costs.

There are several activities that were evaluated as part of the stormwater utility assessment. These activities range from inspection and routine maintenance to full rehabilitation of storm sewers, detention ponds, water quality ponds and channels. The specific components of the stormwater utility expenditures are described in detail herein.

1.1 Data Sources

There were two primary sources of data for this stormwater utility fee assessment. The first data source was the Town of Parker's Geographic Information System (GIS). The Town's GIS has a comprehensive inventory of the existing infrastructure organized by type, size, and age. The second source of data was the utility's recordkeeping of current expenditures for a variety of maintenance and capital activities. These expenditures include the costs for engineering staff and field crew personnel as well as the actual costs for materials, equipment and vehicle costs to keep the utility functioning. In addition to the data provided by the Town of Parker, Muller Engineering reviewed its own database of baseline cost data for many of the activities performed by a stormwater utility, including channel rehabilitation, pond rehabilitation and storm sewer pipe replacement costs.

1.2 Projected Costs

The following sections provide a summary of the maintenance activities performed on the Town's stormwater infrastructure. Detailed calculations for each activity can be found in the appendices of this report, specifically as follows:

- Storm Sewers – Appendix A
- Outfalls – Appendix B
- Detention and Water Quality Ponds – Appendix C
- Channels – Appendix D
- Swales - Appendix E

Bar charts are provided at the end of each section of this report which provide a cumulative estimated cost for all activities performed annually for the given infrastructure. The bar charts and the related summary tables for each activity are also located in the respective appendices.

2 STORM SEWERS AND OUTFALLS

2.1 Existing System

The Town of Parker's GIS data was used to evaluate the existing storm sewer infrastructure within the Town. The GIS database included several pieces of key information for all components (pipe, inlets,

manholes, outfalls, etc.) of the existing storm sewer system within the Town including material, size, year constructed, ownership, and the year accepted by the Town. The storm sewer pipe was separated into the following categories: owned by Town/maintained by Town, owned by others (e.g. CDOT)/maintained by Town and owned by private entity/maintained by private entity. In 2017, there were approximately 74 miles of public storm sewer (owned by Town/maintained by Town) that had been constructed in the Town to date. An additional 2 miles of storm sewer is located within the Town that is owned by others (e.g. CDOT) and maintained by the Town. Approximately 38 miles of storm sewer is privately owned and maintained. In addition, there were approximately 2200 inlets, 1600 manholes and 674 outfalls owned and maintained by the Town in 2017. Refer to Appendix A for summary charts which depict the cumulative length of storm sewer pipe in the Town by year and material type.

2.2 Projected System Growth

The GIS data provided by the Town included all storm sewer infrastructure constructed through 2017. In order to evaluate projected storm sewer and outfall costs through 2028, an anticipated growth rate in the storm sewer system needed to be determined. An average increase of 2% per year in the length of storm sewer from 2007 through 2017 was calculated for storm sewer owned by the Town/maintained by the Town; therefore projections through 2028 include an increase of 2% in storm sewer pipe and outfalls for systems owned by Town/maintained by Town and owned by others/maintained by Town. Private storm sewer growth increased more rapidly from 2007 through 2017, growing at a rate of 6% per year.

2.3 Inspection (Storm Sewers and Outfalls)

The Town of Parker visually inspects 25% of all storm sewer within the Town each year. This inspection includes storm sewer owned by the Town, owned by other public entities and privately owned. In 2017, Town staff inspected approximately 28 miles of storm sewer. Projected expenditures for storm sewer inspection assumes Town staff will continue to complete annual inspections through the study period ending in 2028. Beginning in 2020, storm sewer inspection will be completed using a pipe camera. Using a camera to complete storm sewer inspection will provide a more comprehensive analysis of the pipe condition but will also result in additional staff time to complete. The storm sewer inspection spreadsheet located in Appendix A provides a detailed summary of the anticipated costs associated with camera inspection for 2020 and beyond. Storm sewer inspection costs increase each year through 2028 due to the construction of additional infrastructure and an assumed annual inflation rate of 3.0%.

The Town of Parker visually inspects 100% of all storm sewer outfalls within the Town each year. This inspection includes outfalls owned by the Town, owned by other public entities, and privately owned. In 2017, Town staff inspected approximately 658 storm sewer outfalls. The costs associated with the inspection of pond outfalls is part of pond inspections, as discussed in Section 3.3. Projected expenditures for outfall inspections assumes Town staff will continue to complete annual inspections through 2028. The costs associated with outfall inspections increase each year through 2028 due to the construction of additional infrastructure and an assumed annual inflation rate of 3.0%. The projected costs associated with outfall inspection can be found in Appendix B of this report.

2.4 Routine Maintenance (Storm Sewers)

Routine maintenance activities for storm sewers includes debris removal and jet-vac operations to remove accumulated sediment within a pipe. The Town of Parker performs routine maintenance activities on approximately 0.5% of the total storm sewer in the Town each year. Routine maintenance activities are completed by Town maintenance crews and seasonal staff. Significant costs associated with this work include staff time and vac-truck rental. In 2017, approximately \$14,000 in routine maintenance work was contracted outside of the Town maintenance crews. The costs associated with routine maintenance on storm sewers are projected to increase each year through 2028 due to the construction of additional infrastructure and an assumed annual inflation rate of 3.0%. The projected costs associated with routine maintenance of storm sewers can be found in Appendix A of this report.

There are currently no routine maintenance activities for outfalls.

2.5 Restoration Activities (Storm Sewers and Outfalls)

Restoration maintenance activities for storm sewers and outfalls include repairs to damaged or failed infrastructure. In 2017, Town maintenance crews spent approximately 10 days to complete restoration activities on storm sewer and one-half day to complete restoration maintenance activities to outfalls. Repairs to outfalls include reconstruction of erosion protection where failure has occurred. All restoration maintenance activities for storm sewers and outfalls were completed by the Town maintenance crews and seasonal staff. Projected expenditures assume Town staff will continue to complete storm sewer and outfall restoration activities through 2028. The costs associated with storm sewer and outfall restoration maintenance are projected to increase each year through 2028 due to the construction of additional infrastructure and an assumed annual inflation rate of 3.0%. The projected costs associated with storm sewer restoration maintenance can be found in Appendix A and outfall restoration maintenance in Appendix B of this report.

2.6 Rehabilitation Activities (Storm Sewer Replacement)

Rehabilitation activities for storm sewers includes replacement of storm sewer pipe that has reached its anticipated lifespan. In 2017, Town of Parker costs for storm sewer replacement were rather negligible but as the storm sewer infrastructure continues to age, replacement costs will begin to increase at a substantial rate. Muller evaluated anticipated storm sewer replacement costs for the Town through 2050 based on the assumptions presented in Table 1.

Table 1: Storm Sewer Replacement Assumptions

Pipe Material	Life Span (years)	% of Pipe Replaced each Year
Corrugated Metal Pipe (CMP)	40	5%
Reinforced Concrete Pipe (RCP)	75	5%
Polyvinyl Chloride (PVC) and "Other"	40	5%

The storm sewer replacement cost projections assume all pipe material will be replaced with RCP once it reaches its life span. A chart depicting the anticipated storm sewer replacement costs for the Town

through 2050 can be found in Appendix A. The chart shows minimal replacement costs in 2020 (\$3,500) but the Town will start to see a significant increase in replacement costs as infrastructure continues to age, with an anticipated annual replacement cost of approximately \$280,000 in 2050.

2.7 Summary of Costs for Storm Sewers and Outfalls

Appendix A includes summary tables and charts which combine all projected costs, maintenance crew hours and seasonal staff hours associated with storm sewer maintenance activities (inspection, routine, restoration and rehabilitation) through 2028. Figure 1 provides a graphical summary of the projected costs to the Town. Appendix B includes summary tables and charts which combine all projected costs, maintenance crew hours and seasonal staff hours associated with outfall maintenance activities (inspection and restoration) through 2028. Figure 2 provides a graphical summary of the projected outfall costs.

Figure 1: Summary of Storm Sewer Activity Costs

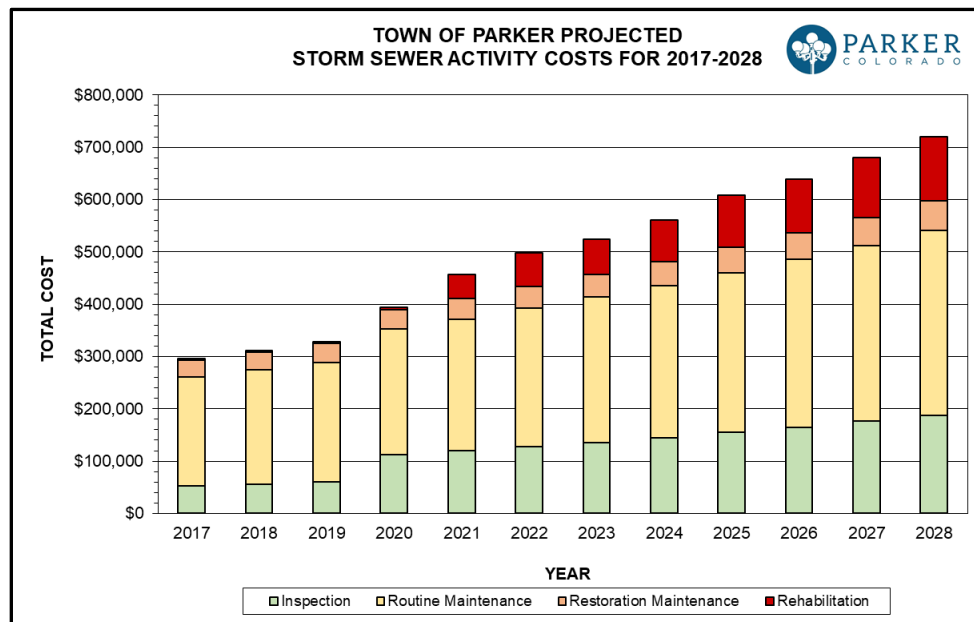
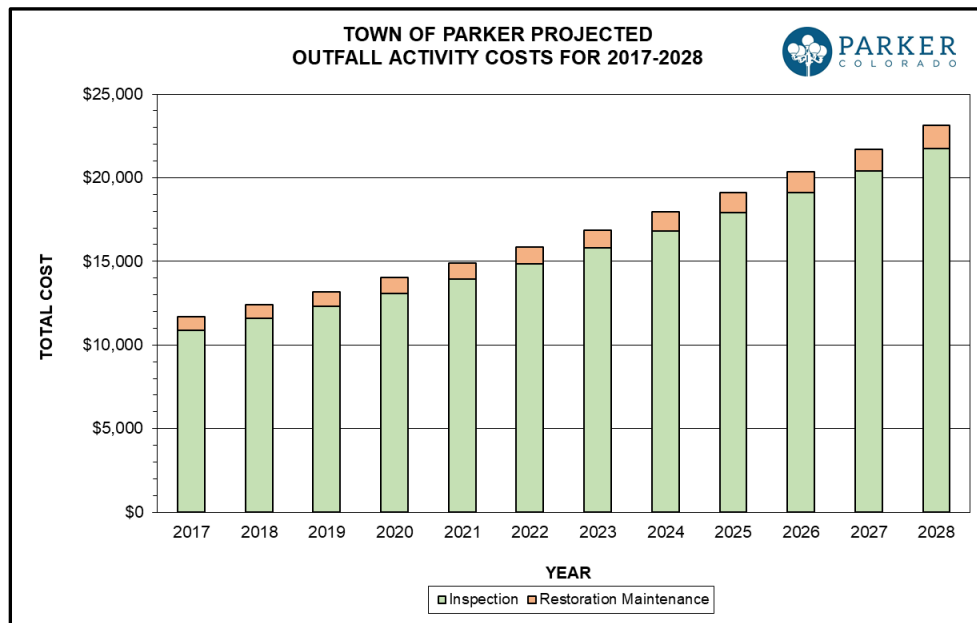


Figure 2: Summary of Outfall Activity Costs



3 DETENTION AND WATER QUALITY PONDS

3.1 Existing Ponds

The Town of Parker's GIS data were used to evaluate the existing detention and water quality ponds within the Town of Parker. The GIS data provided the following information for each pond: footprint area of each pond, the year constructed, and the year the pond was accepted by the Town. For purposes of this study, it was assumed that 20% of all ponds built between 1981 and 2006 are detention only, while 100% of all ponds built after 2007 include water quality. The ponds were separated into the following categories: owned by Town/maintained by Town, owned by others (e.g. CDOT)/maintained by Town and owned by private entity/maintained by private entity. In 2017, there were approximately 45 public ponds (owned by Town/maintained by Town) that had been constructed in the Town to date. An additional 189 ponds were located within the Town that are owned by others (e.g. CDOT) and maintained by the Town. Approximately 68 ponds are privately owned and maintained.

3.2 Projected Pond Growth

The GIS data provided by the Town included all ponds constructed through 2017. In order to evaluate projected pond costs through 2028, an anticipated growth rate needed to be determined. Muller reviewed growth trends from 2013 through 2017, finding an average increase of 8% in the number of ponds owned and maintained by the Town each year. After additional discussion with the Town, it was determined that this increase was not realistic and further discussion revealed more appropriate numbers. Projections through 2028 include an increase of 2.5% in the number of ponds owned by Town/maintained by Town and owned by others/maintained by Town. Private pond growth is slightly higher at a rate of 3% per year.

3.3 Inspection

The Town of Parker visually inspects 100% of all ponds within the Town each year. This inspection includes ponds owned by the Town, owned by other public entities and privately owned. In 2017, Town staff inspected approximately 300 ponds. Projected expenditures for pond inspection assume Town staff will continue to complete annual inspections through 2028. The costs associated with pond inspection are projected to increase each year through 2028 due to the construction of additional water quality facilities and an assumed annual inflation rate of 3.0%. The projected costs associated with pond inspection can be found in Appendix C of this report.

3.4 Routine Activities

Routine maintenance activities for detention and water quality ponds includes debris clean-up and mowing operations. Routine maintenance was completed by the Town of Parker on all ponds owned by the Town and all ponds owned by other public entities in 2017. The Town maintenance crew and seasonal staff performed routine maintenance on 124 of the ponds and 110 ponds received maintenance from outside contractors. In 2017, routine maintenance by outside contractors totaled approximately \$31,000 in costs. The costs associated with routine maintenance of ponds are projected to increase each year through 2028 due to the construction of additional facilities and an assumed annual inflation rate of 3.0%. The costs associated with these routine activities are summarized in the spreadsheet located in Appendix C of this report.

3.5 Restoration Activities

Restoration maintenance of detention and water quality ponds includes sediment removal, repairs to inlet and outlet structures, trickle channel repair and other minor pond modifications. In 2017, Town maintenance crews spent approximately 45 days completing restoration activities to 50% of the Town's ponds. Projected expenditures assume the Town maintenance crew and seasonal staff will continue to complete pond restoration activities through 2028. The costs associated with pond restoration maintenance are projected to increase each year through 2028 due to the construction of additional ponds and an assumed annual inflation rate of 3.0%.

3.6 Rehabilitation Activities

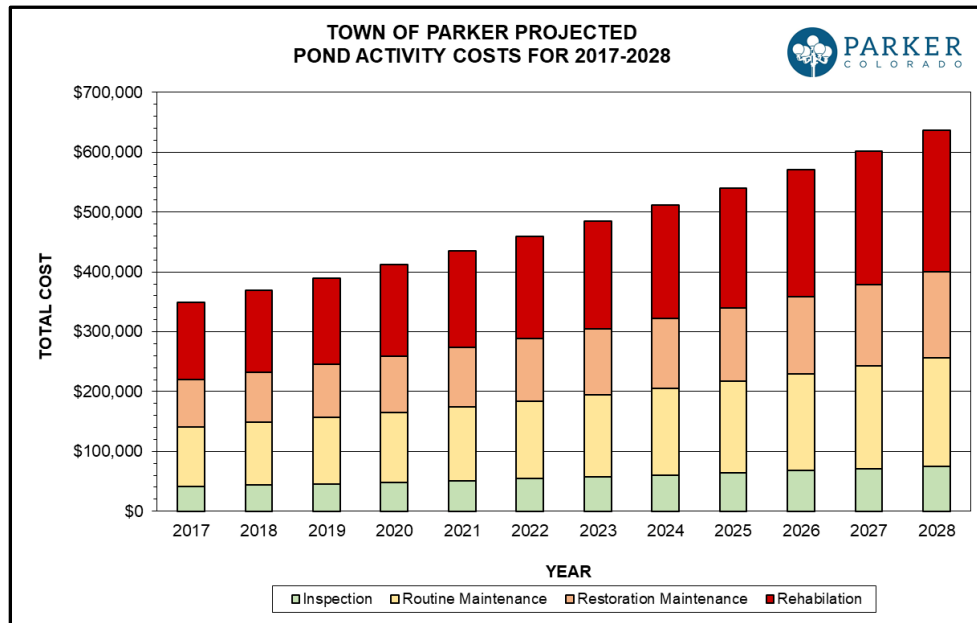
Rehabilitation of detention and water quality ponds includes significant pond re-grading, dredging, inlet/outlet re-construction and other major pond modifications. Pond rehabilitation projects in the Town are currently completed by private contractors. In 2017, it is estimated that one pond will receive rehabilitation maintenance at a cost of \$130,000. The costs for rehabilitation maintenance activities are projected to increase each year through 2028 due to the construction of additional ponds and an assumed annual inflation rate of 3.0%. The summary spreadsheet for pond rehabilitation activities can be found in Appendix C of this report.

3.7 Summary of Costs for Storm Sewers and Outfalls

Appendix C includes summary tables and charts which combine all projected costs, maintenance crew hours and seasonal staff hours associated with pond maintenance activities (inspection, routine,

restoration and rehabilitation) through 2028. Figure 3 provides a graphical summary of the projected costs to the Town.

Figure 3: Summary of Pond Costs



4 CHANNELS

4.1 Existing Conditions

The graphical location of existing stream channels within the Town of Parker was established using the Town's GIS data. The Town has a total of 49 miles of stream channels that are inspected and receive maintenance activities throughout the year. The Town of Parker's Stormwater Manager completed a comprehensive review of all channels located within the Town, including an assessment of channel stability. Each channel has been categorized based on 2019 conditions; channel categories include: stable, channel in need of moderate improvements, channel in need of major improvements, or capital project completed. Channels that will be stabilized by local developers, per the Town's requirements, are also identified. A Stormwater Facilities map which identifies each channel reach and its respective classification can be found in Appendix D of this report. Further discussion regarding stabilization projects for channels identified on the Stormwater Facilities map can be found in Section 4.4.

4.2 Inspection

The Town of Parker visually inspects 100% of all channel reaches within the Town each year. In 2017, Town staff inspected 49 miles of channel. Projected expenditures for channel inspection assume Town staff will continue to complete annual inspections through 2028. The costs associated with channel inspection are projected to increase each year through 2028 due to an anticipated 1% increase in channel length each year due to annexation and an assumed annual inflation rate of 3.0%. The projected costs associated with channel inspection can be found in Appendix D of this report.

4.3 Routine Activities

Routine maintenance of channels includes trash/debris clean-up and mowing operations. The Town maintenance crew and seasonal staff performed routine maintenance on 4.9 miles of channel in 2017. Projected expenditures for channel routine maintenance assume Town staff will continue to complete these maintenance activities through 2028. The costs associated with routine maintenance of channels are projected to increase each year through 2028 due to an increase of channel lengths, typically a result of annexation, and an assumed annual inflation rate of 3.0%. The costs associated with these routine activities are summarized in the spreadsheet located in Appendix D of this report.

4.4 Rehabilitation Activities

Rehabilitation of channels includes the construction of channel stabilization measures (i.e. grade control structures, bank protection, etc.). Channel rehabilitation projects within the Town are currently completed by independent contractors and future projects will continue to be contracted out. Using the existing channel conditions categories summarized in Section 4.1, the Town of Parker has prioritized channel stabilization projects in the Town. There are currently 29 projects identified for a total of 16 miles of channel in need of stabilization. Refer to Appendix D for a comprehensive list of all channel projects and the anticipated cost to complete all projects in 2019 dollars.

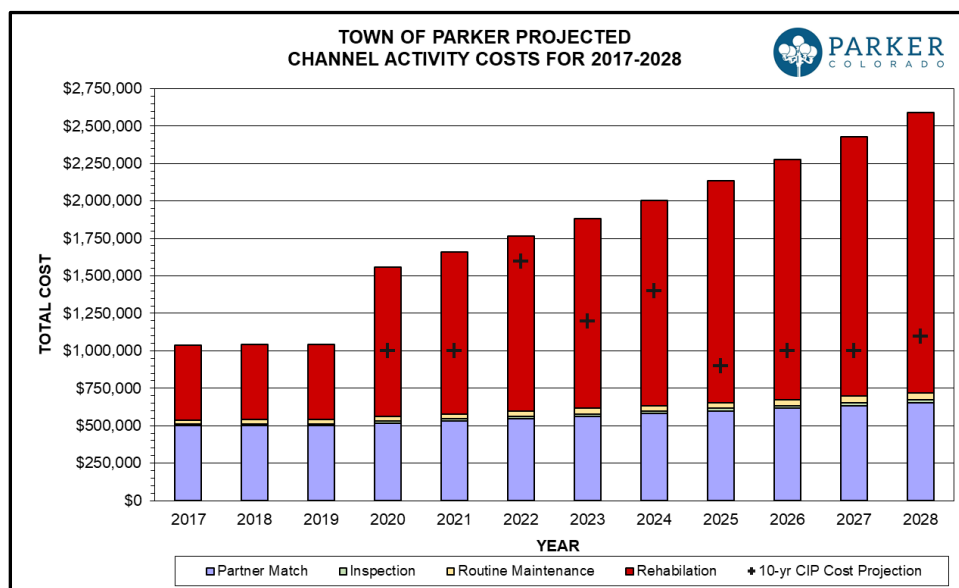
The unit cost for channel rehabilitation/stabilization activities is directly dependent upon several factors, including the 100-year flowrate. In order to generate channel stabilization unit costs for this study, Muller gathered data from multiple projects with varying degrees of degradation, tributary area and estimated 100-year flowrate. Appendix D includes a chart which includes all of the data acquired to develop a relationship between stabilization costs per lineal foot and 100-year flowrate. Using this chart and reviewing the data specific to each drainageway included in this cost comparison, unit costs were developed for stabilization of channels with large tributary areas (Cherry Creek), primary drainageways (e.g. Newlin Gulch, Sulfur Gulch) and secondary drainageways (<320 acres of tributary basin) for channels in need of both moderate and major improvements.

In 2017 through 2019, the Town of Parker spent approximately \$500,000 on channel rehabilitation with an additional \$500,000 contributed via partner match from the Mile High Flood District (MHFD). As the channels in the Town continue to succumb to further degradation, the Town will increase funding in 2020 to \$1,000,000; for purposes of this study it is assumed that the MHFD partner match will increase by 3% per year through 2028. For projecting channel rehabilitation costs beyond 2020, it is assumed that costs will increase through 2028 as a result of an estimated 3% annual inflation rate and an assumed 5% annual increase in stabilization costs due to increasing stream degradation over time. The summary spreadsheet for channel rehabilitation activities can be found in Appendix D of this report.

4.5 Summary of Costs for Channels

Appendix D includes summary tables and charts which combine all projected costs, maintenance crew hours and seasonal staff hours associated with channel maintenance activities (inspection, routine and rehabilitation) through 2028. Figure 4 provides a graphical summary of the projected costs to the Town.

Figure 4: Summary of Channel Costs



+ Cost projections as shown on the 2020 10-Year CIP Worksheet

5 SWALES

5.1 Existing Conditions

The graphical location of existing swales within the Town of Parker was established using the Town's GIS data. For purposes of this study, swales are defined as all channels included on the Town's "Channels and Swales" GIS layer that are NOT categorized as stream channels or given a stability rating and therefore NOT included in the channel rehabilitation costs discussed in Section 4.4. The Town has approximately 23 miles of swales that are inspected and receive maintenance activities throughout the year.

5.2 Inspection

The Town of Parker visually inspects approximately 30% of all swales within the Town each year. In 2017, Town staff inspected 6.5 miles of swales. Projected expenditures for swale inspection assume Town staff will continue to complete annual inspections through 2028. The costs associated with swale inspection are projected to increase each year through 2028 due to an anticipated 1% increase in swale length (due to annexation) each year and an assumed annual inflation rate of 3.0%. The projected costs associated with swale inspection can be found in Appendix E of this report.

5.3 Routine Activities

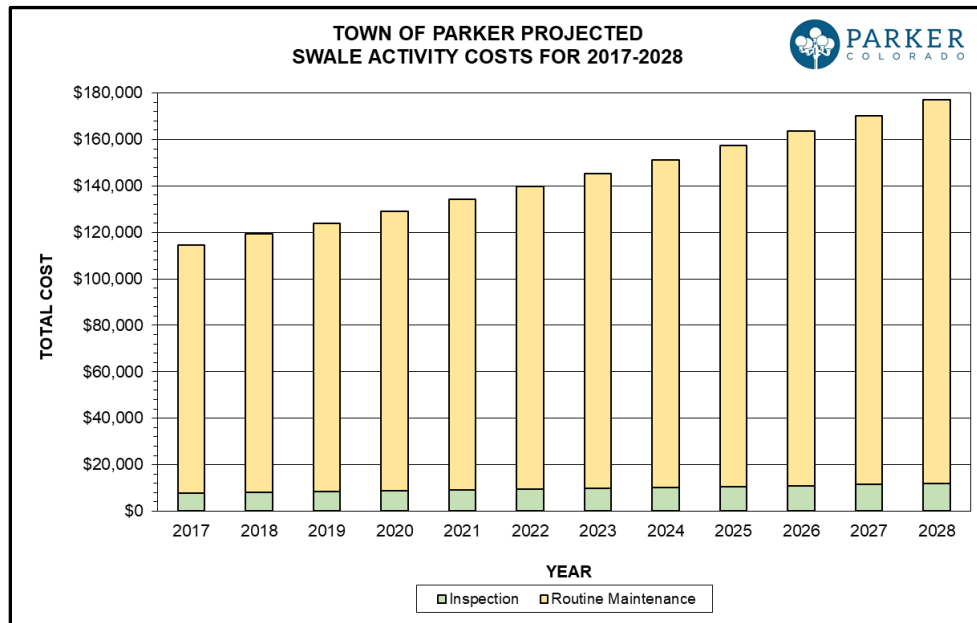
Routine maintenance of swales includes trash/debris clean-up and mowing operations. The Town maintenance crew and seasonal staff performed routine maintenance on 18 miles of swales in 2017. Projected expenditures for swale routine maintenance assume Town staff will continue to complete these maintenance activities through 2028. The costs associated with routine maintenance of swales are projected to increase each year through 2028 due to an anticipated 1% increase in swale length (due to

annexation) and an assumed annual inflation rate of 3.0%. The costs associated with these routine activities are summarized in the spreadsheet located in Appendix E of this report.

5.4 Summary of Costs for Swales

Appendix E includes summary tables and charts which combine all projected costs, maintenance crew hours and seasonal staff hours associated with swale maintenance activities (inspection and routine) through 2028. Figure 5 provides a graphical summary of the projected costs to the Town.

Figure 5: Summary of Swale Costs



6 BASE PROGRAM

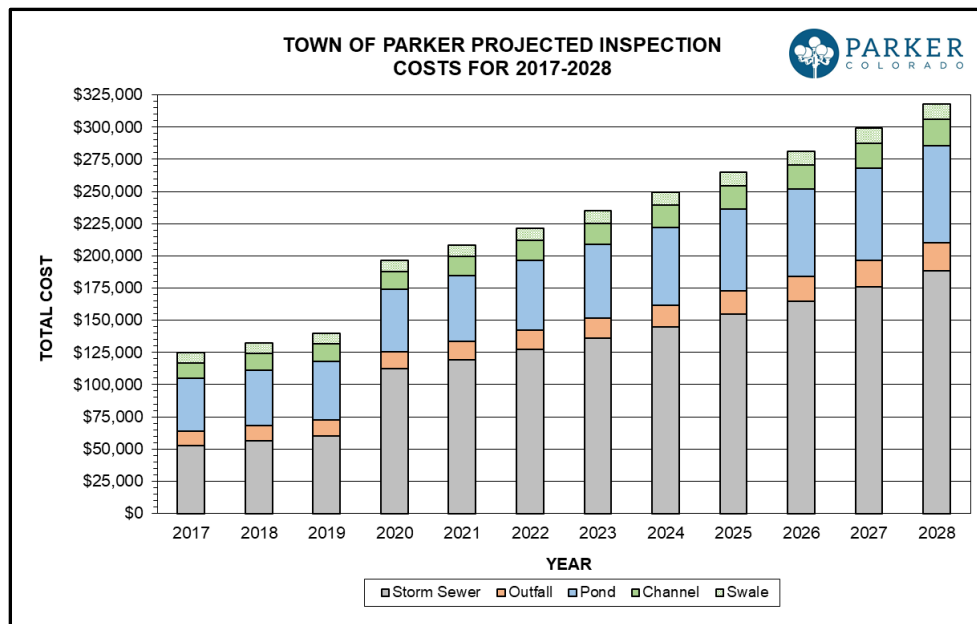
In addition to the inspection and maintenance activities completed on an annual basis as described above, there are also operational costs associated with maintaining the stormwater utility and these are identified as the utility Base Program. Operational costs associated with the Base Program include office staff, purchased services, insurance, workman's compensation, staff training, Municipal Separate Storm Sewer Permit (MS4) Program, floodplain management program, development review, engineering services and other administrative expenses. In 2017, the Base Program included three full time office staff members (engineer, inspector, stormwater manager) and 20% of a full time Public Works Director. A summary table with the projected annual expenditures for the Base Program through 2028 can be found in Appendix F of this report.

7 STORMWATER UTILITY ANNUAL COST PROJECTION

7.1 Summary of Cumulative Costs through 2028

Appendix F includes several bar charts which summarize the projected maintenance crew days, seasonal staff days, and activity costs through 2028. This data is presented in several different ways, both by specific activity and total costs. For example, Figure 6 below provides a breakdown of the cost associated to complete inspection of all infrastructure within the Town. Similar charts can be found in Appendix F for routine maintenance, restoration maintenance and rehabilitation of infrastructure.

Figure 6: Breakdown of Annual Infrastructure Inspection Costs



In addition to the charts which provide a breakdown of each activity, Appendix F also includes two bar charts which combine all activities together for a cumulative annual stormwater utility cost for the Town. These charts are provided below as Figure 7 and Figure 8. Figure 7 provides a breakdown of annual costs by activity (inspection, routine, restoration, rehabilitation) while Figure 8 provides a breakdown by infrastructure (storm sewer, outfalls, ponds, channels, swales).

Figure 7: Stormwater Utility Cost Projection by Activity

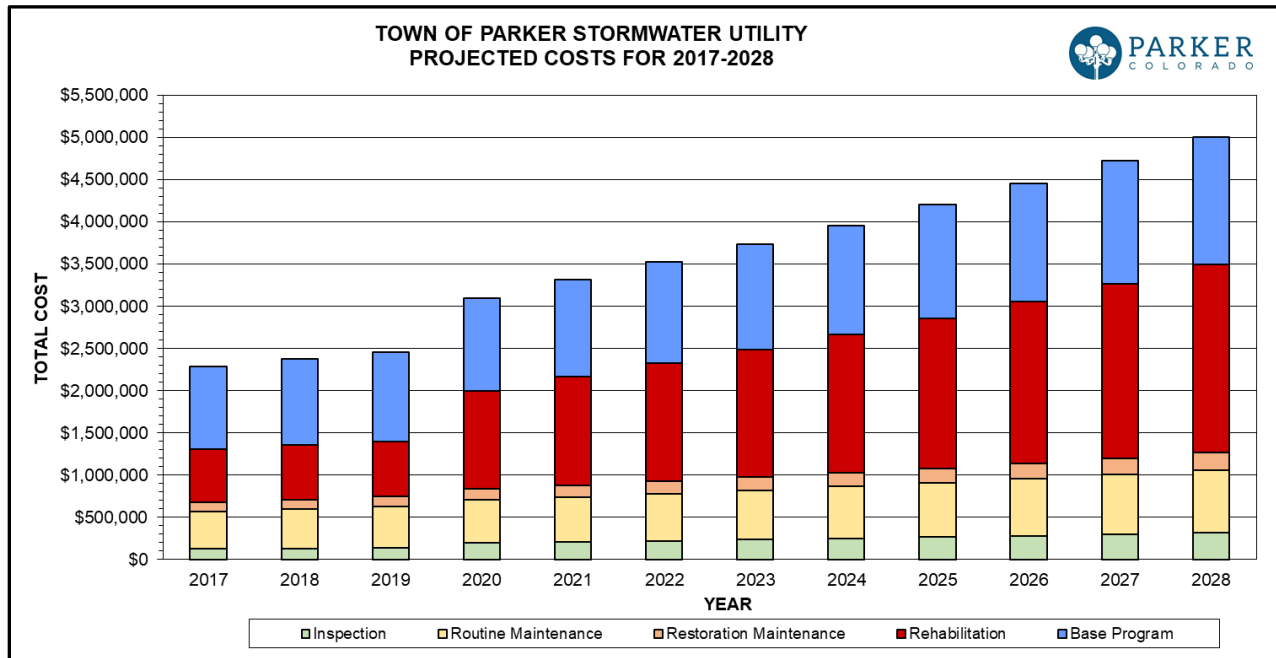
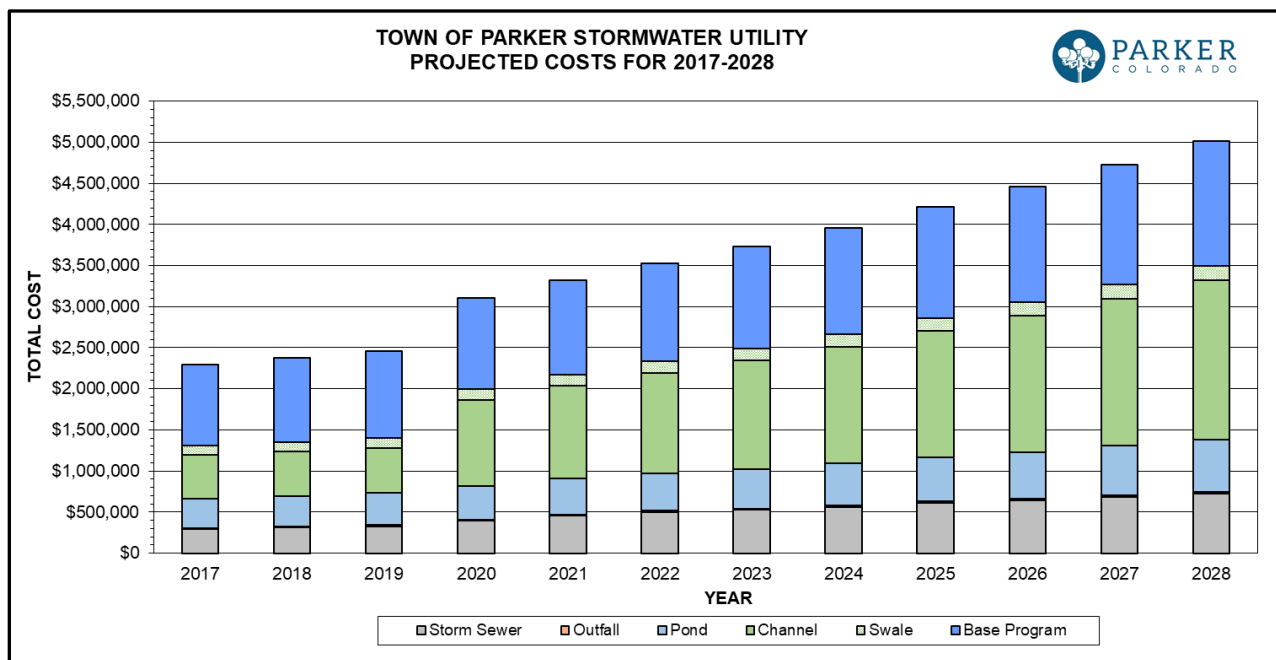


Figure 8: Stormwater Utility Cost Projection by Infrastructure



7.2 Annual Cost Breakdown

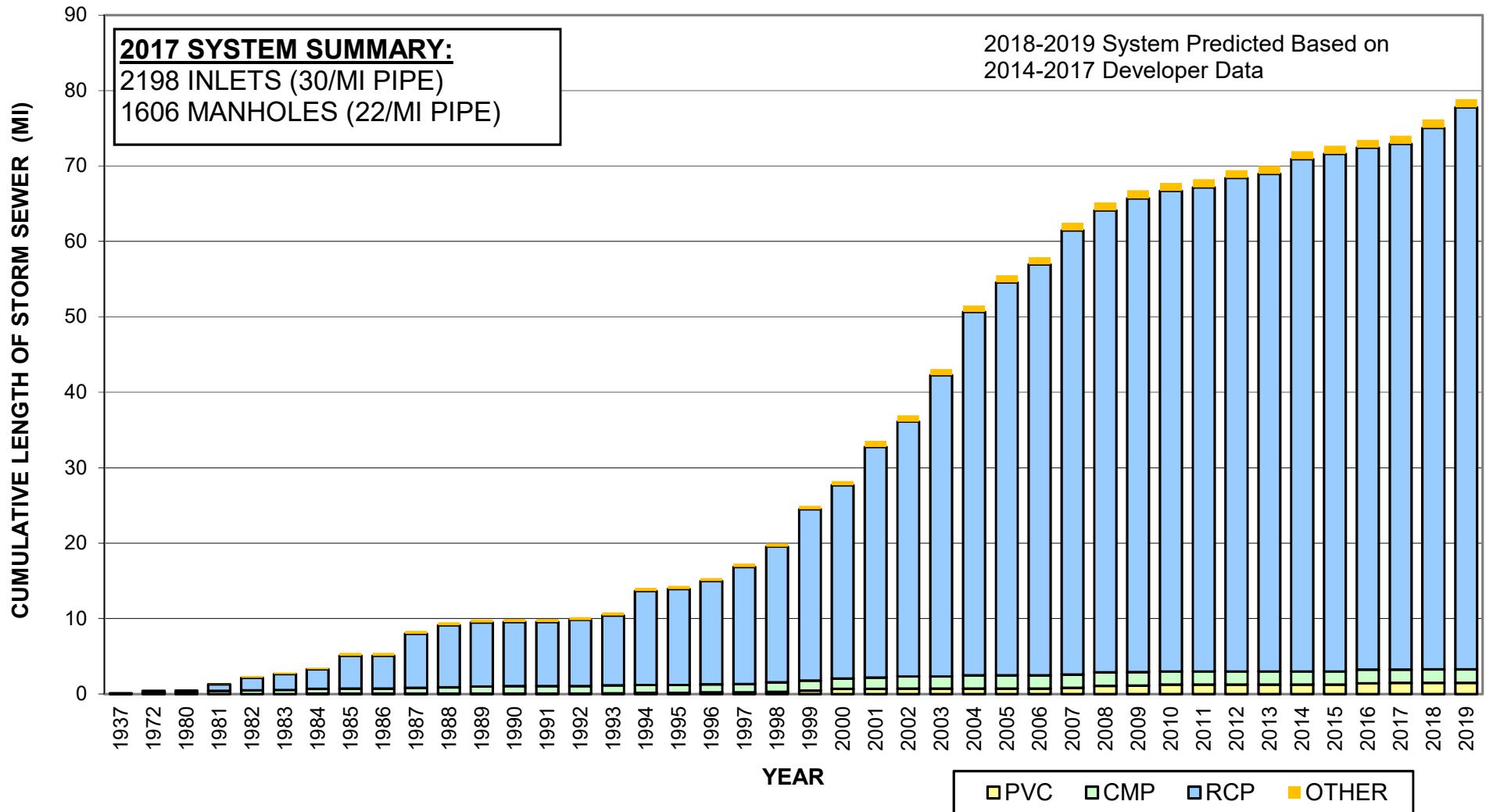
In addition to the cumulative cost bar charts discussed in Section 7.1, Appendix G includes individual spreadsheets that summarize the projected annual stormwater utility fund distribution each year for 2017 through 2028. These spreadsheets include all aspects of the program including the base program,

inspection, routine activities, restoration activities, rehabilitation activities, work by outside contractors and projected contributions by MHFD. The spreadsheet for 2017 matches the level of spending that occurred by the Town of Parker stormwater utility program that year. Each year beyond 2017 incorporates additional expenditures for infrastructure growth and inflation to generate expenses appropriate for years 2018 through 2028.

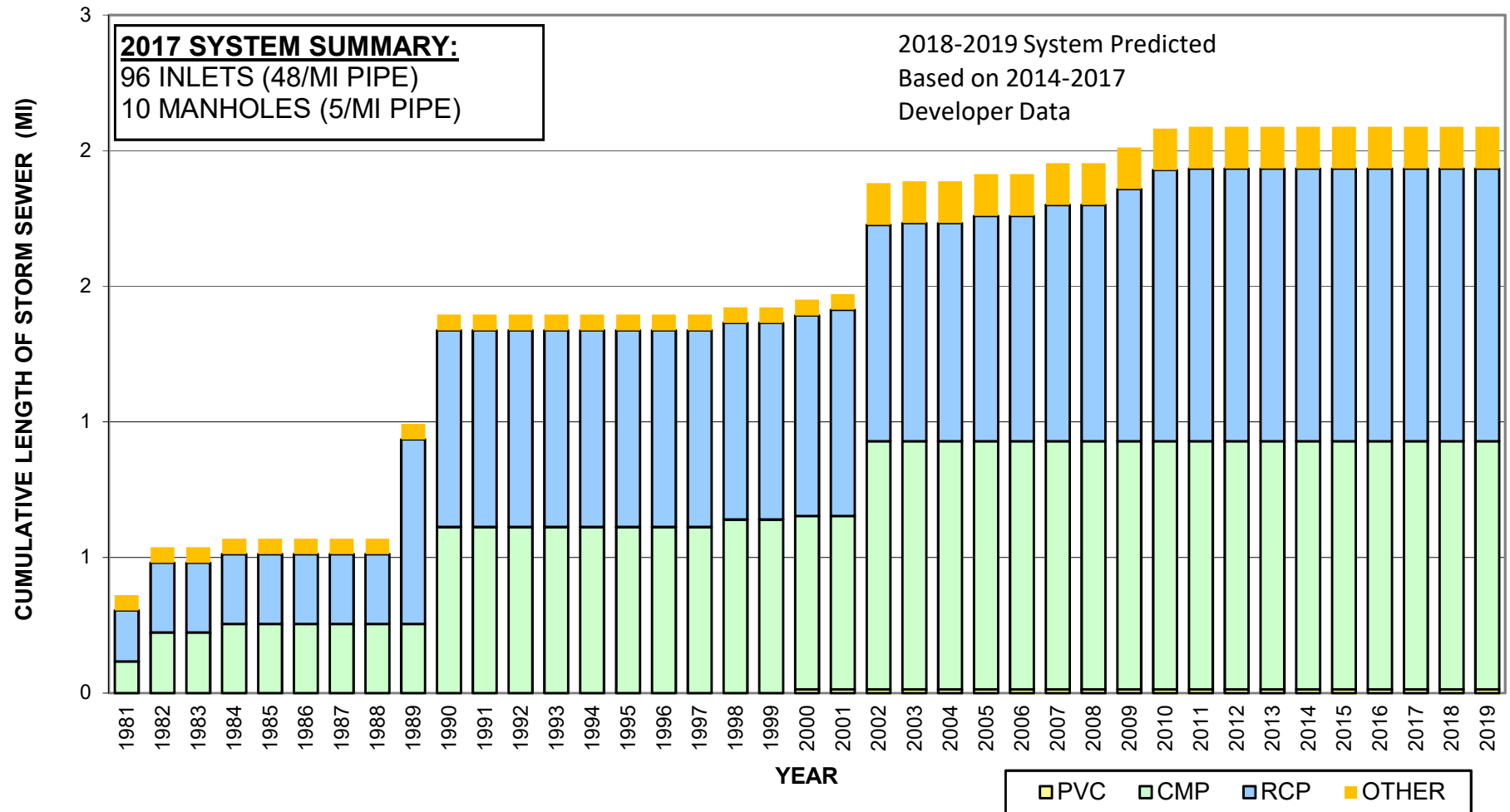
Appendix A

Storm Sewers

**TOWN OF PARKER
SUMMARY OF PUBLIC STORM SEWER SYSTEM
(OWNED BY TOWN, MAINT BY TOWN)**



TOWN OF PARKER SUMMARY OF PUBLIC STORM SEWER SYSTEM (OWNED BY OTHERS, MAINTAINED BY TOWN)





TOWN OF PARKER STORMWATER UTILITY
STORM SEWER INSPECTION
 INCLUDES RCP, CMP AND PLASTIC PIPE

INPUT/VARIABLES (variables from Parker highlighted in green):

Note: Costs associated with storm sewer inspection change in 2020 as the Town begins to utilize camera inspections.

STORM SEWER INSPECTION

PERCENT OF STORM SEWER INSPECTED EACH YEAR = 25%
 INCREASE IN TOTAL LENGTH OF STORM SEWER OWNED BY TOWN AND OTHERS EACH YEAR = 2%
 INCREASE IN TOTAL LENGTH OF STORM SEWER PRIVATELY OWNED = 6%

2017 STORM SEWER DATA

TOTAL LENGTH OF STORM SEWER OWNED BY TOWN AND OTHERS (2017) = 76.1 MI
 TOTAL LENGTH OF STORM SEWER PRIVATELY OWNED (2017) = 38.1 MI
 TOTAL LENGTH OF STORM SEWER (2017) = 114.2 MI
 LENGTH OF STORM SEWER INSPECTED (2017) = 28.6 MI

2020 STORM SEWER DATA

TOTAL LENGTH OF STORM SEWER OWNED BY TOWN AND OTHERS (2020) = 80.8 MI
 TOTAL LENGTH OF STORM SEWER PRIVATELY OWNED (2020) = 45.4 MI
 TOTAL LENGTH OF STORM SEWER (2020) = 126.2 MI
 LENGTH OF STORM SEWER INSPECTED (2020) = 31.5 MI

** The Town inspects ALL storm sewer (owned by Town/Maintained by Town, Owned by Others/Maintained by Town and Private)

2017 CREW DATA

SIZE = 2.5 PPL
 WORK DAY = 8 HRS
 RATE (2017) = \$33 PER HOUR
 QUANTITY OF PIPE INSPECTED BY CREW = 3100 LF PER DAY
 NUMBER OF DAYS TO INSPECT STORM SEWER (2017) = 49
 CREW MAN-DAYS (2017) = 122

2017 COST

TOTAL COST FOR CREW (2017) = \$660 PER DAY
 MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) = \$329 PER DAY
 COST SUBTOTAL = \$989 PER DAY
 CONTINGENCY = 10%
 TOTAL COST (2017) = \$1,088 PER DAY
 ANNUAL INFLATION RATE = 3%

2020 CREW DATA

SIZE = 3.0 PPL
 WORK DAY = 8 HRS
 RATE (2020) = \$36 PER HOUR
 (\$33 in 2017 plus 3% per year inflation)
 QUANTITY OF PIPE INSPECTED BY CREW = 2000 LF PER DAY
 NUMBER OF DAYS TO INSPECT STORM SEWER (2020) = 83
 CREW MAN-DAYS (2020) = 250

2020 COST

TOTAL COST FOR CREW (2020) = \$865 PER DAY
 MATERIALS, EQUIPMENT, AND VEHICLE COST (2020) = \$360 PER DAY
 (\$329 in 2017 plus 3% per year inflation)
 COST SUBTOTAL = \$1,225 PER DAY
 CONTINGENCY = 10%
 TOTAL COST (2020) = \$1,348 PER DAY
 ANNUAL INFLATION RATE = 3%

YEAR	TOTAL L OF STORM SEWER IN TOWN (MI)- OWNED BY TOWN AND OTHERS	TOTAL L OF STORM SEWER IN TOWN (MI)- OWNED BY PRIVATE	TOTAL L OF STORM SEWER IN TOWN (MI)	TOTAL L OF STORM SEWER INSPECTED (MI)	NUMBER OF WORK DAYS TO INSPECT SYSTEM	NUMBER OF CREW-MAN DAYS TO INSPECT SYSTEM	TOTAL COST FOR STORM SEWER INSPECTION
2017	76	38	114	28.6	49	122	\$52,927
2018	78	40	118	29.5	50	126	\$56,333
2019	79	43	122	30.5	52	130	\$59,978
2020	81	45	126	31.5	83	250	\$112,225
2021	82	48	130	32.6	86	258	\$119,567
2022	84	51	135	33.8	89	267	\$127,434
2023	86	54	140	34.9	92	277	\$135,865
2024	87	57	145	36.2	96	287	\$144,905
2025	89	61	150	37.5	99	297	\$154,601
2026	91	64	155	38.8	103	308	\$165,005
2027	93	68	161	40.3	106	319	\$176,172
2028	95	72	167	41.7	110	331	\$188,163



TOWN OF PARKER STORMWATER UTILITY
STORM SEWER ROUTINE MAINTENANCE
 INCLUDES RCP, CMP AND PLASTIC PIPE

INPUT/VARIABLES (variables from Parker highlighted in green):

STORM SEWER MAINTENANCE

TOTAL LENGTH OF STORM SEWER (2017) = 76.1 MI
 PERCENT OF STORM SEWER MAINTAINED EACH YEAR = 0.50%
 LENGTH OF STORM SEWER MAINTAINED (2017) = 2009 FT
 INCREASE IN TOTAL LENGTH OF STORM SEWER EACH YEAR = 2%

**** The Town maintains storm sewer owned by Town/Maintained by Town and Owned by Others/Maintained by Town**

CREW DATA

CREW SIZE = 3.0 PPL 75% of time
 CREW SIZE = 5.0 PPL 25% of time
 WORK DAY = 8 HRS
 RATE (2017) = \$33 PER HOUR
 SEASONAL CREW SIZE = 1.0 PPL
 SEASONAL WORK DAY = 8 HRS
 SEASONAL RATE (2017) = \$14 PER HOUR
 NUMBER OF DAYS TO MAINTAIN STORM SEWER (2017) = 85
 CREW MAN-DAYS (2017) = 298 3 person crew 75% of time, 5 person crew 25% of time
 SEASONAL STAFF-DAYS (2017) = 85
 QUANTITY OF PIPE MAINTAINED BY CREW = 24 LF PER DAY

COST

TOTAL COST FOR CREW (2017) = \$924 PER DAY (Assumes 25%-75% split)
 ADDITIONAL (SEASONAL) STAFF COST (2017) = \$113 PER DAY
 MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) = \$1,035 PER DAY
 COST SUBTOTAL = \$2,072 PER DAY
 CONTINGENCY = 10%
 TOTAL COST (2017) = \$2,279 PER DAY
 ANNUAL INFLATION RATE = 3%

COST OF WORK CONTRACTED OUT

TOTAL COST FOR STORM SEWER MAINTENANCE CONTRACTS (2017) = \$14,114

YEAR	TOTAL L OF STORM SEWER IN TOWN (MI)	TOTAL L OF STORM SEWER MAINTAINED (LF)	NUMBER OF WORK DAYS TO MAINTAIN SYSTEM	NUMBER OF CREW-MAN DAYS TO MAINTAIN SYSTEM	NUMBER OF SEASONAL-STAFF DAYS TO MAINTAIN SYSTEM	COST OF STORM SEWER ROUTINE MAINTENANCE CONTRACTED OUT	TOTAL COST FOR STORM SEWER ROUTINE MAINTENANCE
2017	76.1	2009	85	298	85	\$14,114	\$207,836
2018	77.6	2049	87	303	87	\$14,537	\$218,062
2019	79.2	2090	88	310	88	\$14,973	\$228,796
2020	80.8	2132	90	316	90	\$15,422	\$240,065
2021	82.4	2175	92	322	92	\$15,885	\$251,894
2022	84.0	2218	94	328	94	\$16,361	\$264,313
2023	85.7	2263	96	335	96	\$16,852	\$277,350
2024	87.4	2308	98	342	98	\$17,358	\$291,037
2025	89.2	2354	100	349	100	\$17,879	\$305,406
2026	91.0	2401	102	356	102	\$18,415	\$320,491
2027	92.8	2449	104	363	104	\$18,967	\$336,329
2028	94.6	2498	106	370	106	\$19,536	\$352,956



TOWN OF PARKER STORMWATER UTILITY STORM SEWER RESTORATION MAINTENANCE (REPAIR)

INPUT/VARIABLES (variables from Parker highlighted in green):

STORM SEWER REPAIR

TOTAL LENGTH OF STORM SEWER OWNED BY TOWN (2017) = 74.0 MI
INCREASE IN TOTAL LENGTH OF STORM SEWER EACH YEAR = 2%

CREW DATA

CREW SIZE = 5 PPL
WORK DAY = 8 HRS
RATE (2017) = \$33 PER HOUR
SEASONAL CREW SIZE = 1 PPL
SEASONAL WORK DAY = 8 HRS
SEASONAL RATE (2017) = \$14 PER HOUR
NUMBER OF DAYS TO REPAIR STORM SEWER (2017) = 12
CREW MAN-DAYS (2017) = 60
SEASONAL STAFF-DAYS (2017) = 12

COST

TOTAL COST FOR CREW (2017) = \$1,320 PER DAY
ADDITIONAL (SEASONAL) STAFF COST (2017) = \$113 PER DAY
MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) = \$1,035 PER DAY
COST SUBTOTAL = \$2,468 PER DAY
CONTINGENCY = 10%
TOTAL COST 2017 = \$2,715 PER DAY
ANNUAL INFLATION RATE = 3%

YEAR	NUMBER OF WORK DAYS TO REPAIR STORM SEWER	NUMBER OF CREW-MAN DAYS TO REPAIR STORM SEWER	NUMBER OF SEASONAL- STAFF DAYS TO MAINTAIN SYSTEM	TOTAL COST FOR STORM SEWER RESTORATION MAINTENANCE
2017	12.0	60	12	\$32,576
2018	12.2	61	12	\$34,225
2019	12.5	62	12	\$35,956
2020	12.7	64	13	\$37,776
2021	13.0	65	13	\$39,687
2022	13.2	66	13	\$41,695
2023	13.5	68	14	\$43,805
2024	13.8	69	14	\$46,022
2025	14.1	70	14	\$48,350
2026	14.3	72	14	\$50,797
2027	14.6	73	15	\$53,367
2028	14.9	75	15	\$56,068



TOWN OF PARKER STORMWATER UTILITY STORM SEWER REHABILITATION (REPLACEMENT)

INPUT/VARIABLES (variables from Parker highlighted in green):

CMP REPLACEMENT ASSUMPTIONS

CMP ASSUMED TO BE REPLACED WITH RCP

LIFE SPAN =	40	YEARS
PERCENT OF CMP REPLACED EACH YEAR =	5%	
MATERIAL AND INSTALL FACTOR FROM 2017 DOLLARS =	1.5	
ANNUAL INFLATION RATE =	3%	

RCP REPLACEMENT ASSUMPTIONS

LIFE SPAN =	75	YEARS
PERCENT OF RCP REPLACED EACH YEAR =	5%	
MATERIAL AND INSTALL FACTOR FROM 2017 DOLLARS =	1.5	
ANNUAL INFLATION RATE =	3%	

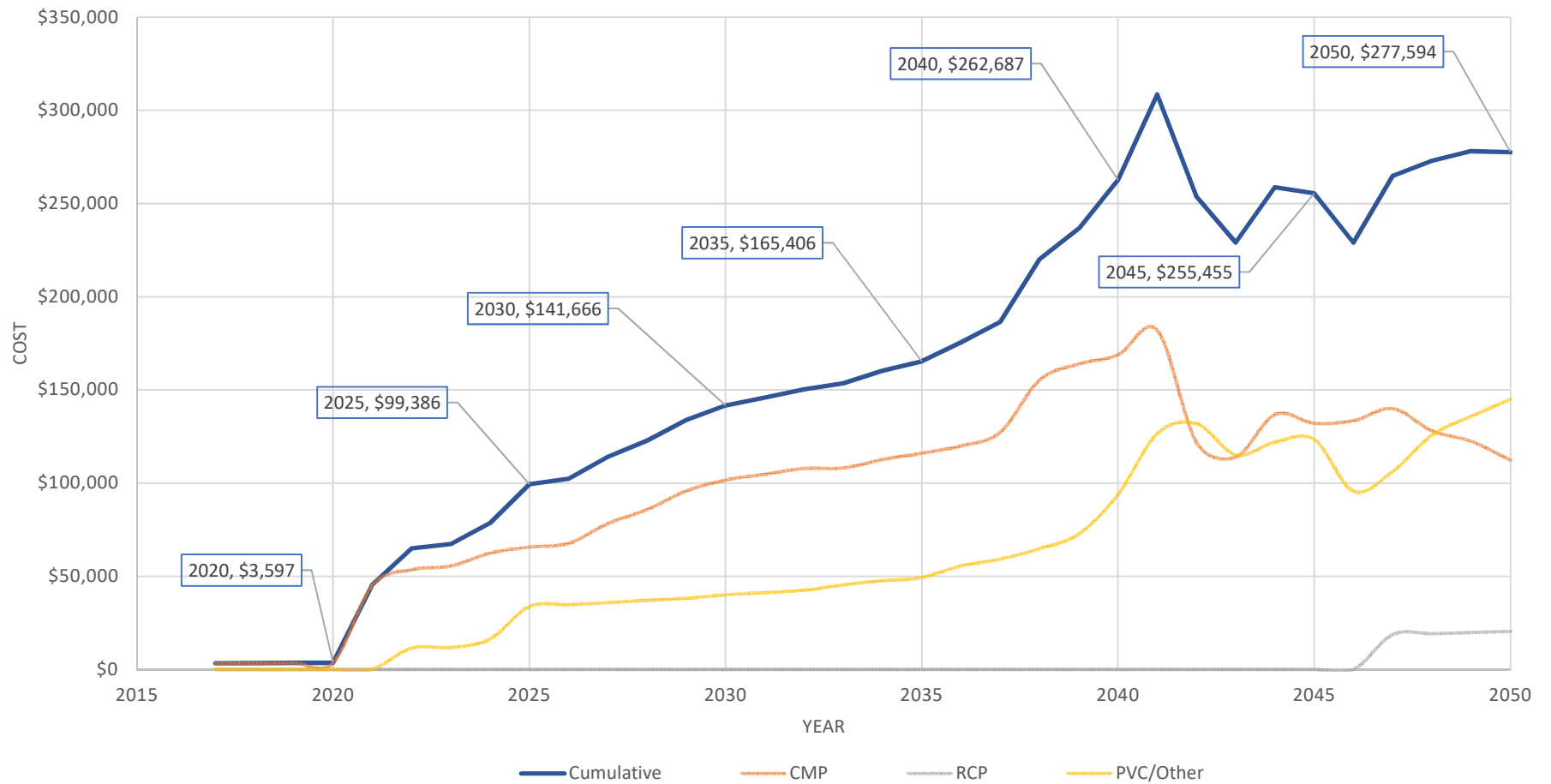
PVC/OTHER PIPE REPLACEMENT ASSUMPTIONS

PVC/OTHER PIPE ASSUMED TO BE REPLACED WITH RCP

LIFE SPAN =	40	YEARS
PERCENT OF PVC/OTHER PIPE REPLACED EACH YEAR =	5%	
MATERIAL AND INSTALL FACTOR FROM 2017 DOLLARS =	1.5	
ANNUAL INFLATION RATE =	3%	

YEAR	CMP REPLACEMENT COST	RCP REPLACEMENT COST	PVC/OTHER PIPE REPLACEMENT COST	TOTAL COST FOR STORM SEWER REHABILITATION (REPLACEMENT)
2017	\$3,292	\$0	\$0	\$3,292
2018	\$3,391	\$0	\$0	\$3,391
2019	\$3,492	\$0	\$0	\$3,492
2020	\$3,597	\$0	\$0	\$3,597
2021	\$45,064	\$0	\$282	\$45,346
2022	\$53,490	\$0	\$11,443	\$64,932
2023	\$55,489	\$0	\$11,786	\$67,275
2024	\$62,397	\$0	\$16,328	\$78,726
2025	\$65,649	\$0	\$33,737	\$99,386
2026	\$67,618	\$0	\$34,749	\$102,367
2027	\$78,327	\$0	\$35,792	\$114,119
2028	\$85,756	\$0	\$37,084	\$122,840

TOWN OF PARKER STORM SEWER PIPE REPLACEMENT COST PROJECTION

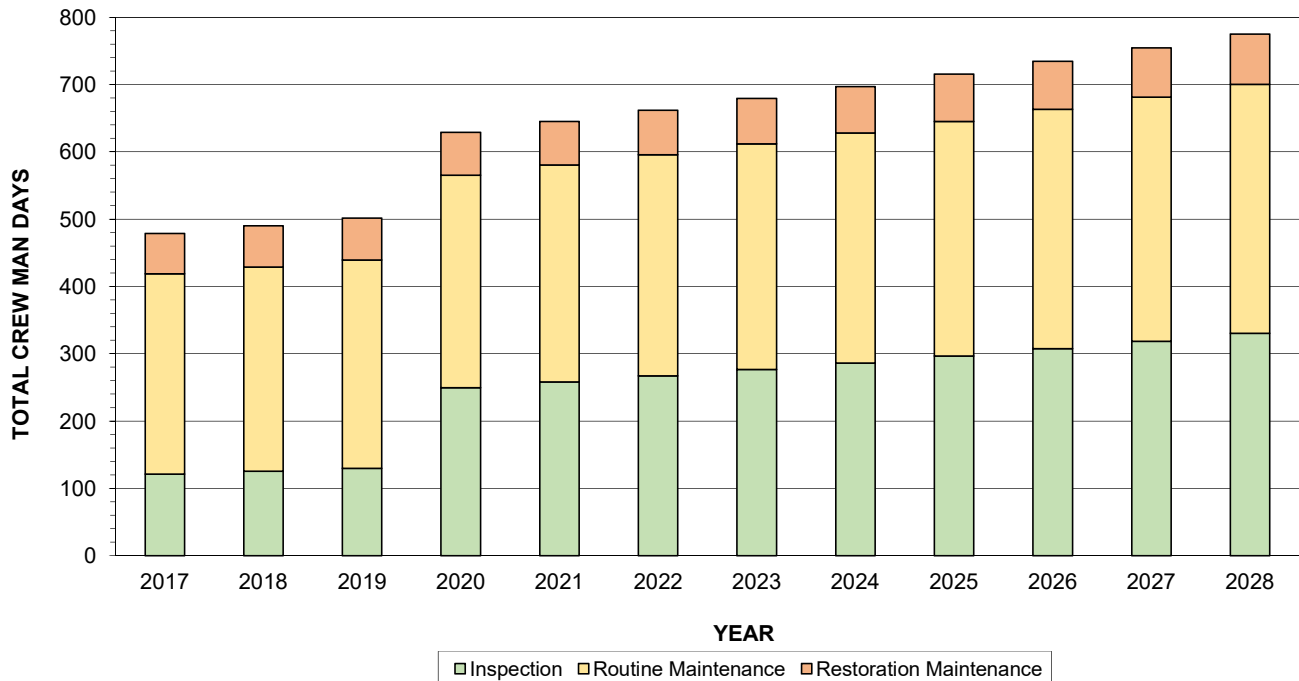




TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME AND COSTS FOR STORM SEWERS

YEAR	CREW TIME			
	CREW DAYS FOR STORM SEWER INSPECTION	CREW DAYS FOR STORM SEWER ROUTINE MAINTENANCE	CREW DAYS FOR STORM SEWER RESTORATION MAINTENANCE	TOTAL CREW MAN DAYS FOR STORM SEWER ACTIVITIES
2017	122	298	60	479
2018	126	303	61	490
2019	130	310	62	502
2020	250	316	64	629
2021	258	322	65	645
2022	267	328	66	662
2023	277	335	68	679
2024	287	342	69	697
2025	297	349	70	716
2026	308	356	72	735
2027	319	363	73	755
2028	331	370	75	775

TOWN OF PARKER PROJECTED STORM SEWER ACTIVITY CREW MAN DAYS FOR 2017-2028

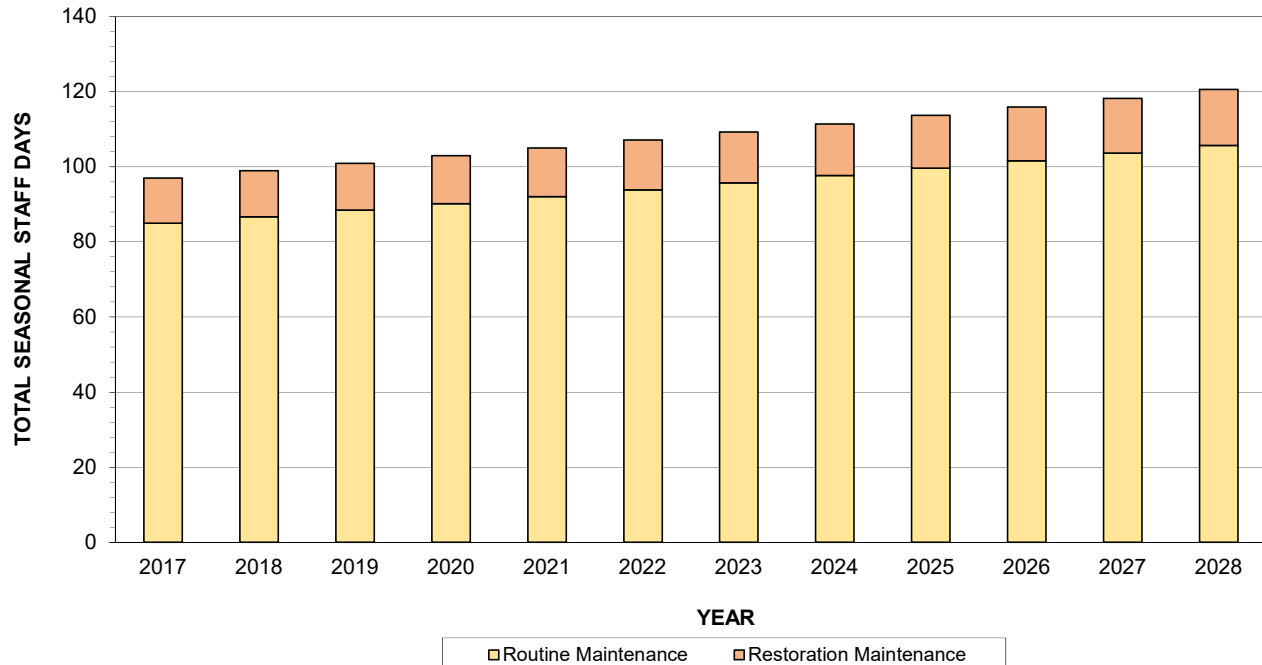




**TOWN OF PARKER STORMWATER UTILITY
TOTAL CREW TIME AND COSTS FOR STORM SEWERS**

YEAR	SEASONAL STAFF TIME			
	SEASONAL STAFF DAYS FOR STORM SEWER INSPECTION	SEASONAL STAFF DAYS FOR STORM SEWER MAINTENANCE	SEASONAL STAFF DAYS FOR STORM SEWER RESTORATION MAINTENANCE	TOTAL SEASONAL STAFF DAYS FOR STORM SEWER ACTIVITIES
2017	0	85	12	97
2018	0	87	12	99
2019	0	88	12	101
2020	0	90	13	103
2021	0	92	13	105
2022	0	94	13	107
2023	0	96	14	109
2024	0	98	14	111
2025	0	100	14	114
2026	0	102	14	116
2027	0	104	15	118
2028	0	106	15	121

**TOWN OF PARKER PROJECTED STORM SEWER
ACTIVITY SEASONAL STAFF DAYS FOR 2017-2028**

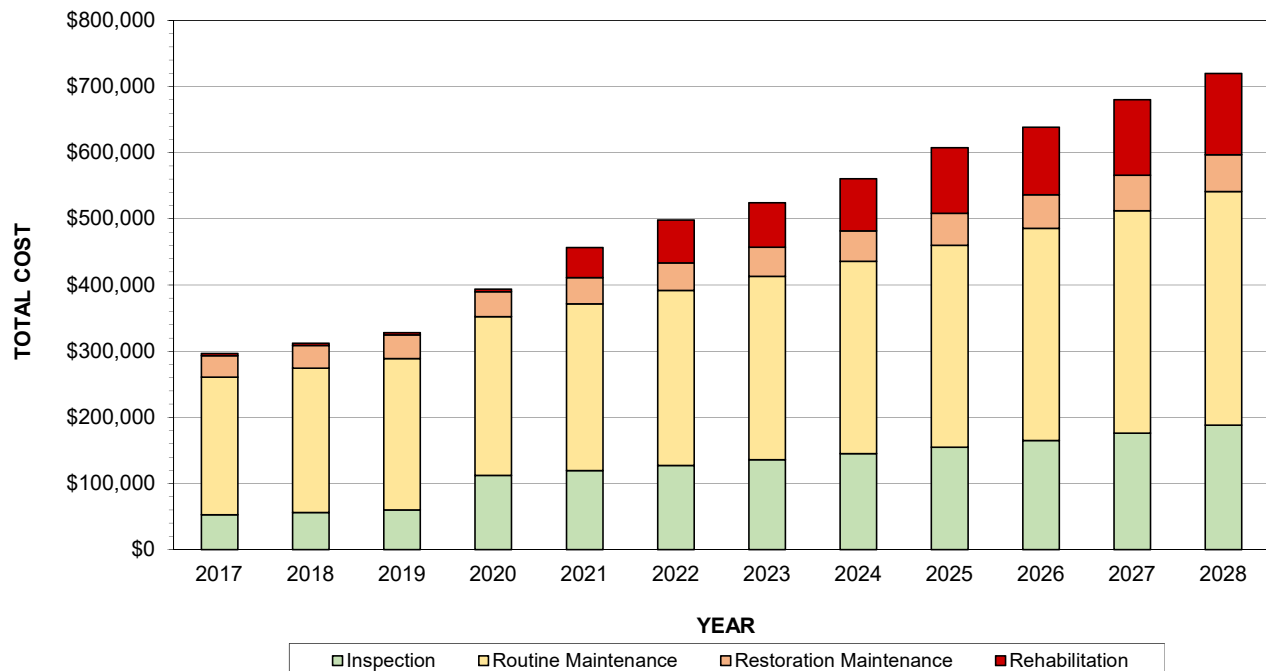




TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME AND COSTS FOR STORM SEWERS

YEAR	COST				TOTAL COST FOR STORM SEWER ACTIVITIES
	COST FOR STORM SEWER INSPECTION	COST FOR STORM SEWER ROUTINE MAINTENANCE	COST FOR STORM SEWER RESTORATION MAINTENANCE	COST FOR STORM SEWER REHABILITATION (REPLACEMENT)	
2017	\$52,927	\$207,836	\$32,576	\$3,292	\$296,631
2018	\$56,333	\$218,062	\$34,225	\$3,391	\$312,010
2019	\$59,978	\$228,796	\$35,956	\$3,492	\$328,222
2020	\$112,225	\$240,065	\$37,776	\$3,597	\$393,662
2021	\$119,567	\$251,894	\$39,687	\$45,346	\$456,495
2022	\$127,434	\$264,313	\$41,695	\$64,932	\$498,374
2023	\$135,865	\$277,350	\$43,805	\$67,275	\$524,295
2024	\$144,905	\$291,037	\$46,022	\$78,726	\$560,689
2025	\$154,601	\$305,406	\$48,350	\$99,386	\$607,743
2026	\$165,005	\$320,491	\$50,797	\$102,367	\$638,660
2027	\$176,172	\$336,329	\$53,367	\$114,119	\$679,987
2028	\$188,163	\$352,956	\$56,068	\$122,840	\$720,027

TOWN OF PARKER PROJECTED STORM SEWER ACTIVITY COSTS FOR 2017-2028



Appendix B

Outfalls



TOWN OF PARKER STORMWATER UTILITY OUTFALL INSPECTION

INPUT/VARIABLES (variables from Parker highlighted in green):

OUTFALL INSPECTION

TOTAL NUMBER OF OUTFALLS OWNED BY TOWN AND OTHERS (2017) =	457	(Pond outfalls inspected annually with ponds - removed from total)
TOTAL NUMBER OF OUTFALLS PRIVATELY OWNED (2017) =	201	
TOTAL NUMBER OF OUTFALLS (2017) =	658	
OUTFALLS INSPECTED EACH YEAR =	100%	
NUMBER OF OUTFALLS INSPECTED (2017) =	658	
INCREASE IN TOTAL NUMBER OF OUTFALLS OWNED BY TOWN AND OTHERS EACH YEAR =	2%	
INCREASE IN TOTAL NUMBER OF OUTFALLS PRIVATELY OWNED EACH YEAR =	6%	

**** The Town inspects ALL outfalls (owned by Town/Maintained by Town, Owned by Others/Maintained by Town and Private)**

CREW DATA

CREW SIZE =	2.5	PPL
WORK DAY =	8	HRS
RATE (2017) =	\$33	PER HOUR
NUMBER OF DAYS TO INSPECT OUTFALLS (2017) =	10	
CREW MAN-DAYS (2017)	25	
NUMBER OF OUTFALLS INSPECTED BY CREW =	66	PER DAY

COST

TOTAL COST FOR CREW (2017) =	\$660	PER DAY
MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) =	\$329	PER DAY
COST SUBTOTAL =	\$989	PER DAY
CONTINGENCY =	10%	
TOTAL COST 2017 =	\$1,088	PER DAY
ANNUAL INFLATION RATE =	3%	

YEAR	TOTAL NUMBER OF OUTFALLS OWNED BY TOWN AND OTHERS IN TOWN	TOTAL NUMBER OF OUTFALLS PRIVATELY OWNED IN TOWN	TOTAL NUMBER OF OUTFALLS IN TOWN	TOTAL NUMBER OF OUTFALLS INSPECTED	NUMBER OF WORK DAYS TO INSPECT OUTFALLS	NUMBER OF CREW-MAN DAYS TO INSPECT OUTFALLS	TOTAL COST FOR OUTFALL INSPECTION
2017	457	201	658	658	10	25	\$10,882
2018	466	213	679	679	10	26	\$11,570
2019	475	226	701	701	11	27	\$12,305
2020	485	239	724	724	11	28	\$13,091
2021	495	254	748	748	11	28	\$13,932
2022	505	269	774	774	12	29	\$14,831
2023	515	285	800	800	12	30	\$15,794
2024	525	302	827	827	13	31	\$16,825
2025	535	320	856	856	13	33	\$17,930
2026	546	340	886	886	13	34	\$19,114
2027	557	360	917	917	14	35	\$20,383
2028	568	382	950	950	14	36	\$21,744



TOWN OF PARKER STORMWATER UTILITY OUTFALL RESTORATION MAINTENANCE

INPUT/VARIABLES (variables from Parker highlighted in green):

OUTFALL REPAIR/MAINTENANCE

TOTAL NUMBER OF OUTFALLS OWNED BY TOWN (2017) = 674 Total number of outfalls includes pond outfalls.
 NUMBER OF OUTFALLS REPAIRED (2017) = 30
 INCREASE IN TOTAL NUMBER OF OUTFALLS EACH YEAR = 2%

CREW DATA

CREW SIZE = 2.5 PPL
 WORK DAY = 8 HRS
 RATE (2017) = \$33 PER HOUR
 NUMBER OF DAYS TO REPAIR OUTFALLS (2017) = 0.5
 CREW MAN-DAYS (2017) = 1.3

COST

TOTAL COST FOR CREW (2017) = \$660 PER DAY
 MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) = \$800 PER DAY
 COST SUBTOTAL = \$1,460 PER DAY
 CONTINGENCY = 10%
 TOTAL COST 2017 = \$1,606 PER DAY
 ANNUAL INFLATION RATE = 3%

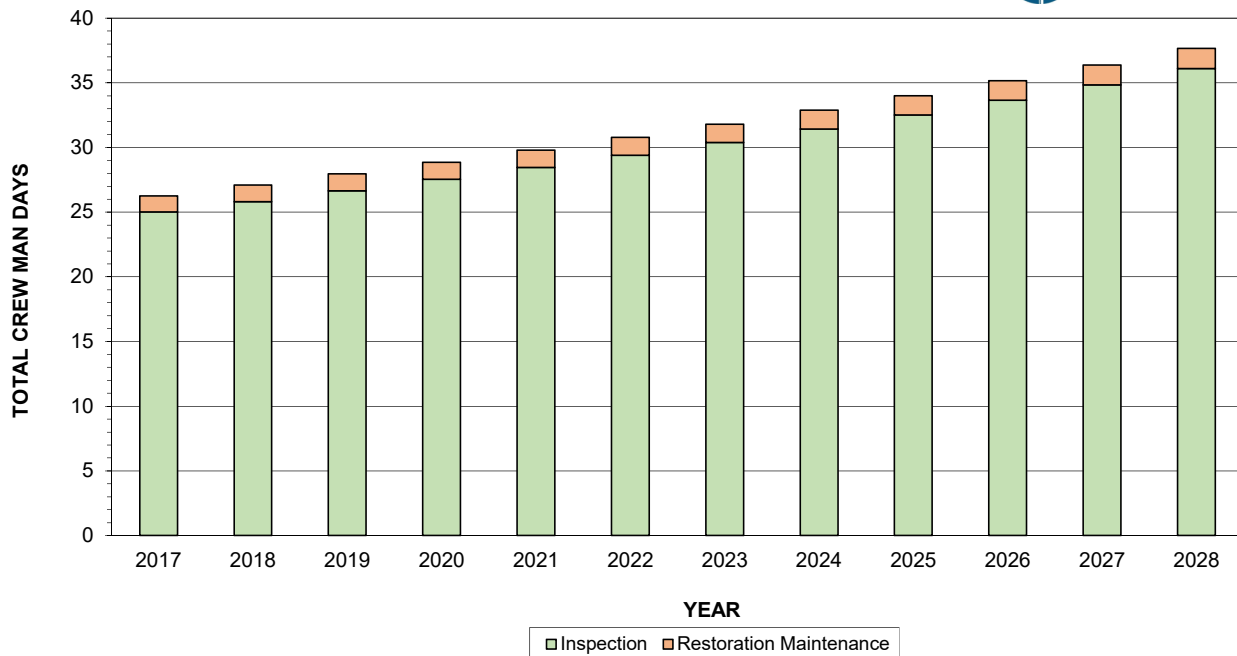
YEAR	TOTAL NUMBER OF OUTFALLS OWNED BY TOWN	TOTAL NUMBER OF OUTFALLS REPAIRED (EA)	NUMBER OF DAYS TO COMPLETE REPAIRS	NUMBER OF CREW-MAN DAYS TO REPAIR OUTFALLS	TOTAL COST FOR OUTFALL REPAIRS
2017	674	30	0.50	1.3	\$803
2018	687	31	0.51	1.3	\$843
2019	701	31	0.52	1.3	\$886
2020	715	32	0.53	1.3	\$931
2021	730	32	0.54	1.4	\$978
2022	744	33	0.55	1.4	\$1,028
2023	759	34	0.56	1.4	\$1,080
2024	774	34	0.57	1.4	\$1,134
2025	790	35	0.59	1.5	\$1,192
2026	805	36	0.60	1.5	\$1,252
2027	822	37	0.61	1.5	\$1,315
2028	838	37	0.62	1.6	\$1,382



TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME AND COSTS FOR OUTFALLS

YEAR	CREW TIME		
	CREW DAYS FOR OUTFALL INSPECTION	CREW DAYS FOR OUTFALL RESTORATION MAINTENANCE	TOTAL CREW MAN DAYS FOR OUTFALL ACTIVITIES
2017	25	1.3	26
2018	26	1.3	27
2019	27	1.3	28
2020	28	1.3	29
2021	28	1.4	30
2022	29	1.4	31
2023	30	1.4	32
2024	31	1.4	33
2025	33	1.5	34
2026	34	1.5	35
2027	35	1.5	36
2028	36	1.6	38

TOWN OF PARKER PROJECTED OUTFALL ACTIVITY CREW MAN DAYS FOR 2017-2028

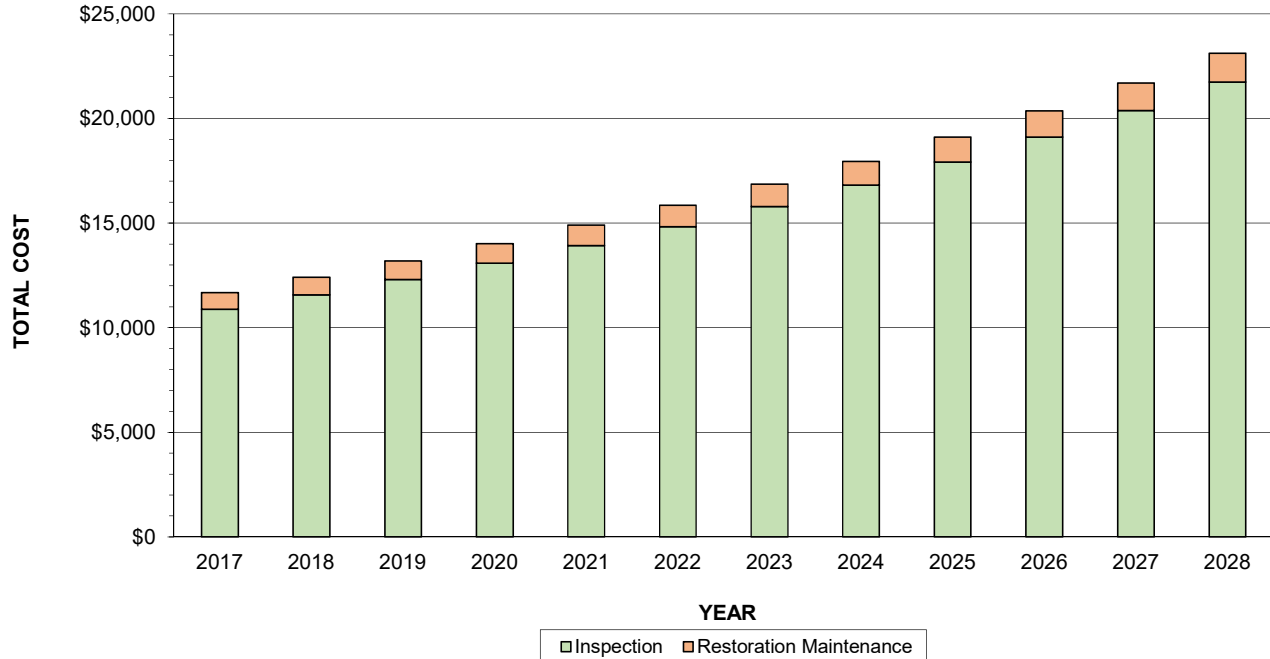




TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME AND COSTS FOR OUTFALLS

YEAR	COST		
	COST FOR OUTFALL INSPECTION	COST FOR OUTFALL RESTORATION MAINTENANCE	TOTAL COST FOR OUTFALL ACTIVITIES
2017	\$10,882	\$803	\$11,685
2018	\$11,570	\$843	\$12,414
2019	\$12,305	\$886	\$13,191
2020	\$13,091	\$931	\$14,022
2021	\$13,932	\$978	\$14,910
2022	\$14,831	\$1,028	\$15,859
2023	\$15,794	\$1,080	\$16,874
2024	\$16,825	\$1,134	\$17,959
2025	\$17,930	\$1,192	\$19,122
2026	\$19,114	\$1,252	\$20,366
2027	\$20,383	\$1,315	\$21,698
2028	\$21,744	\$1,382	\$23,126

TOWN OF PARKER PROJECTED OUTFALL ACTIVITY COSTS FOR 2017-2028



Appendix C

Detention and Water Quality Ponds



TOWN OF PARKER STORMWATER UTILITY POND INSPECTION

INPUT/VARIABLES (variables from Parker highlighted in green):

POND INSPECTION

TOTAL NUMBER OF PONDS OWNED BY TOWN AND OTHERS (2017) =	234
TOTAL NUMBER OF PRIVATELY OWNED PONDS (2017) =	68
TOTAL NUMBER OF PONDS (2017) =	302
PONDS INSPECTED EACH YEAR =	100%
NUMBER OF PONDS INSPECTED (2017) =	302
INCREASE IN NUMBER OF PONDS OWNED BY TOWN AND OTHERS EACH YEAR =	2.5%
INCREASE IN NUMBER OF PRIVATELY OWNED PONDS EACH YEAR =	3%

**** The Town inspects ALL ponds (owned by Town/Maintained by Town, Owned by Others/Maintained by Town and Private)**

CREW DATA

CREW SIZE =	2.5	PPL
WORK DAY =	8	HRS
RATE (2017) =	\$33	PER HOUR
NUMBER OF DAYS TO INSPECT PONDS (2017) =	38	
CREW MAN-DAYS (2017) =	94	
NUMBER OF PONDS INSPECTED BY CREW =	8	PER DAY

COST

TOTAL COST FOR CREW (2017) =	\$660	PER DAY
MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) =	\$329	PER DAY
COST SUBTOTAL =	\$989	PER DAY
CONTINGENCY =	10%	
TOTAL COST 2017 =	\$1,088	PER DAY
ANNUAL INFLATION RATE =	3%	

YEAR	TOTAL NUMBER OF PONDS OWNED BY TOWN AND OTHERS IN TOWN	TOTAL NUMBER OF PONDS OWNED BY PRIVATE IN TOWN	TOTAL NUMBER OF PONDS IN TOWN	TOTAL NUMBER OF PONDS INSPECTED	NUMBER OF WORK DAYS TO INSPECT PONDS	NUMBER OF CREW-MAN DAYS TO INSPECT PONDS	TOTAL COST FOR POND INSPECTION
2017	234	68	302	302	38	94	\$41,081
2018	240	70	310	310	39	97	\$43,419
2019	246	72	318	318	40	99	\$45,890
2020	252	74	326	326	41	102	\$48,502
2021	258	77	335	335	42	105	\$51,263
2022	265	79	344	344	43	107	\$54,182
2023	271	81	353	353	44	110	\$57,266
2024	278	84	362	362	45	113	\$60,527
2025	285	86	371	371	46	116	\$63,973
2026	292	89	381	381	48	119	\$67,616
2027	300	91	391	391	49	122	\$71,467
2028	307	94	401	401	50	125	\$75,537



TOWN OF PARKER STORMWATER UTILITY POND ROUTINE MAINTENANCE

INPUT/VARIABLES (variables from Parker highlighted in green):

POND MAINTENANCE

TOTAL NUMBER OF PONDS (2017) =	234
PONDS WITH ROUTINE MAINTENANCE EACH YEAR =	100%
NUMBER OF PONDS WITH ROUTINE MAINTENANCE (2017) =	234
NUMBER OF PONDS WITH ROUTINE MAINTENANCE CONTRACTED OUT (2017) =	110
NUMBER OF PONDS WITH ROUTINE MAINTENANCE BY TOWN (2017) =	124
INCREASE IN NUMBER OF PONDS EACH YEAR =	2.5%

** The Town maintains ponds Owned by Town/Maintained by Town and Owned by Others/Maintained by Town

CREW DATA

CREW SIZE =	5	PPL
WORK DAY =	8	HRS
RATE (2017) =	\$33	PER HOUR
SEASONAL CREW SIZE =	1	PPL
SEASONAL WORK DAY =	8	HRS
SEASONAL RATE (2017) =	\$14	PER HOUR
NUMBER OF DAYS TO MAINTAIN PONDS (2017) =	31	
CREW MAN-DAYS (2017) =	155	
SEASONAL STAFF-DAYS (2017) =	31	
NUMBER OF PONDS MAINTAINED BY CREW =	4	PER DAY

COST

TOTAL COST FOR CREW (2017) =	\$1,320	PER DAY
ADDITIONAL (SEASONAL) STAFF COST (2017) =	\$113	PER DAY
MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) =	\$565	PER DAY
COST SUBTOTAL =	\$1,997	PER DAY
CONTINGENCY =	10%	
TOTAL COST 2017 =	\$2,197	PER DAY
ANNUAL INFLATION RATE =	3%	

COST OF WORK CONTRACTED OUT

NUMBER OF PONDS WITH ROUTINE MAINTENANCE CONTRACTED OUT (2017) =	110
TOTAL COST FOR POND ROUTINE MAINTENANCE CONTRACTS (2017) =	\$31,334
PRICE PER POND ROUTINE MAINTENANCE (2017) =	\$284

YEAR	TOTAL NUMBER OF PONDS IN TOWN	TOTAL NUMBER OF PONDS MAINTAINED BY TOWN	TOTAL NUMBER OF PONDS MAINTENANCE CONTRACTED OUT	NUMBER OF WORK DAYS TO MAINTAIN PONDS	NUMBER OF CREW-MAN DAYS TO MAINTAIN PONDS	NUMBER OF SEASONAL-STAFF DAYS TO MAINTAIN PONDS	COST OF POND MAINTENANCE CONTRACTED OUT	TOTAL COST FOR POND ROUTINE MAINTENANCE
2017	234	124	110	31	155	31	\$31,334	\$99,297
2018	240	127	113	32	159	32	\$33,081	\$104,833
2019	246	130	116	32	162	32	\$34,925	\$110,678
2020	252	133	119	33	167	33	\$36,872	\$116,848
2021	258	137	122	34	171	34	\$38,928	\$123,362
2022	265	140	125	35	175	35	\$41,098	\$130,240
2023	271	143	128	36	179	36	\$43,389	\$137,501
2024	278	147	131	37	184	37	\$45,808	\$145,166
2025	285	151	134	38	188	38	\$48,362	\$153,259
2026	292	155	138	39	193	39	\$51,058	\$161,803
2027	300	158	141	40	198	40	\$53,905	\$170,824
2028	307	162	145	41	203	41	\$56,910	\$180,347



TOWN OF PARKER STORMWATER UTILITY POND RESTORATION MAINTENANCE

INPUT/VARIABLES (variables from Parker highlighted in green):

POND RESTORATION MAINTENANCE

TOTAL NUMBER OF PONDS (2017) = 234
 PONDS MAINTAINED EACH YEAR = 50%
 NUMBER OF PONDS MAINTAINED (2017) = 117
 INCREASE IN NUMBER OF PONDS EACH YEAR = 2.5%

** The Town provides restoration maintenance to ponds Owned by Town/Maintained by Town and Owned by Others/Maintained by Town

CREW DATA

CREW SIZE = 3 PPL
 WORK DAY = 8 HRS
 RATE (2017) = \$33 PER HOUR
 SEASONAL CREW SIZE = 1 PPL
 SEASONAL WORK DAY = 8 HRS
 SEASONAL RATE (2017) = \$14 PER HOUR
 PERCENT OF TIME WITH SEASONAL CREW = 10%
 NUMBER OF DAYS TO MAINTAIN PONDS (2017) = 45
 CREW MAN-DAYS (2017) = 135
 SEASONAL STAFF-DAYS (2017) = 5
 NUMBER OF PONDS MAINTAINED BY CREW = 2.60 PER DAY

COST

TOTAL COST FOR CREW (2017) = \$792 PER DAY
 MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) = \$800 PER DAY
 COST SUBTOTAL = \$1,592 PER DAY
 CONTINGENCY = 10%
 TOTAL COST = \$1,751 PER DAY
 ANNUAL INFLATION RATE = 3%

SEASONAL CREW COST

ADDITIONAL (SEASONAL) STAFF COST (2017) = \$113 PER DAY
 CONTINGENCY = 10%
 TOTAL COST = \$124 PER DAY

YEAR	NUMBER OF PONDS IN TOWN	NUMBER OF PONDS MAINTAINED	NUMBER OF WORK DAYS TO MAINTAIN PONDS	NUMBER OF SEASONAL WORK DAYS TO MAINTAIN PONDS	NUMBER OF CREW MAN DAYS TO MAINTAIN PONDS	NUMBER OF SEASONAL STAFF DAYS TO MAINTAIN PONDS	COST FOR SEASONAL CREW	TOTAL COST FOR POND RESTORATION MAINTENANCE
2017	234	117	45	4.5	135	4.5	\$559	\$79,351
2018	240	120	46	4.6	138	4.6	\$590	\$83,775
2019	246	123	47	4.7	142	4.7	\$623	\$88,446
2020	252	126	48	4.8	145	4.8	\$658	\$93,376
2021	258	129	50	5.0	149	5.0	\$694	\$98,582
2022	265	132	51	5.1	153	5.1	\$733	\$104,078
2023	271	136	52	5.2	157	5.2	\$774	\$109,880
2024	278	139	53	5.3	160	5.3	\$817	\$116,006
2025	285	143	55	5.5	164	5.5	\$863	\$122,474
2026	292	146	56	5.6	169	5.6	\$911	\$129,302
2027	300	150	58	5.8	173	5.8	\$961	\$136,510
2028	307	154	59	5.9	177	5.9	\$1,015	\$144,121



TOWN OF PARKER STORMWATER UTILITY DETENTION/WQ POND REHABILITATION

INPUT/VARIABLES (variables from Parker highlighted in green):

NUMBER OF PONDS RECEIVING REHABILITATION =	1.00 EACH
INCREASE IN TOTAL NUMBER OF PONDS EACH YEAR =	2.5%
2017 PRICE FOR POND REHABILITATION =	\$130,000 EACH
ANNUAL INFLATION RATE =	3%

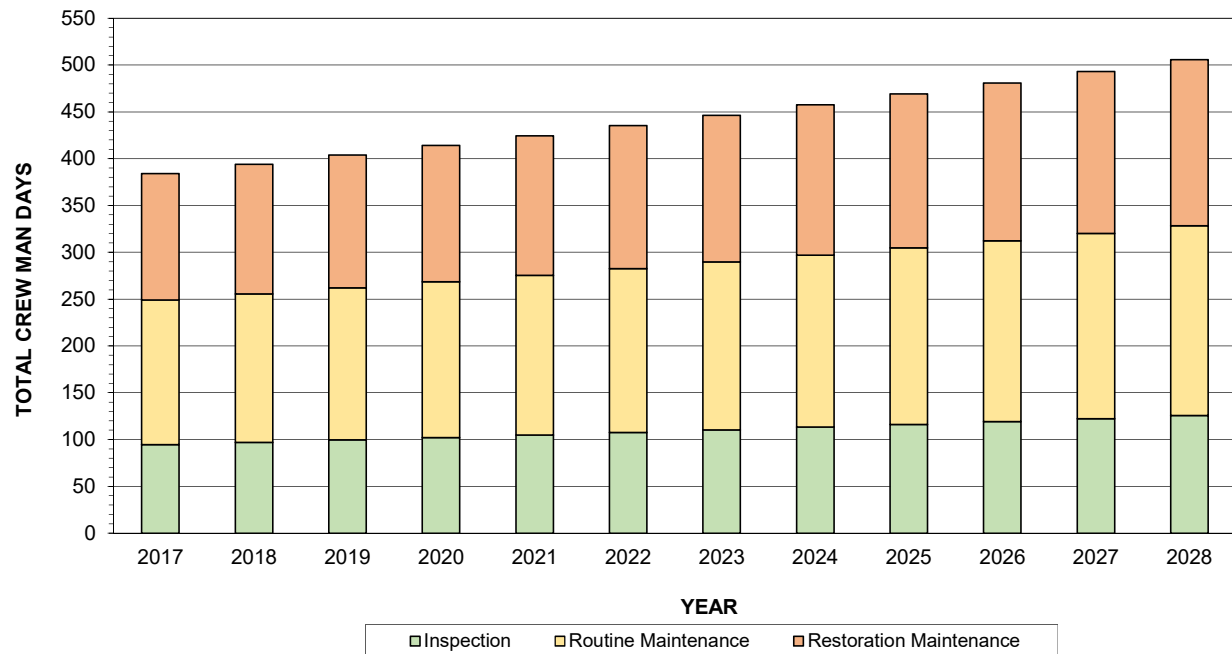
YEAR	NUMBER OF PONDS REHABILITATED	TOTAL COST FOR POND REHABILITATION
2017	1.0	\$130,000
2018	1.0	\$137,248
2019	1.1	\$144,899
2020	1.1	\$152,977
2021	1.1	\$161,506
2022	1.1	\$170,510
2023	1.2	\$180,015
2024	1.2	\$190,051
2025	1.2	\$200,647
2026	1.2	\$211,833
2027	1.3	\$223,642
2028	1.3	\$236,111



TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME AND COSTS FOR DETENTION AND WQ PONDS

YEAR	CREW TIME			
	CREW DAYS FOR POND INSPECTION	CREW DAYS FOR POND ROUTINE MAINTENANCE	CREW DAYS FOR POND RESTORATION MAINTENANCE	TOTAL CREW DAYS FOR POND ACTIVITIES
2017	94	155	135	384
2018	97	159	138	394
2019	99	162	142	404
2020	102	167	145	414
2021	105	171	149	424
2022	107	175	153	435
2023	110	179	157	446
2024	113	184	160	457
2025	116	188	164	469
2026	119	193	169	481
2027	122	198	173	493
2028	125	203	177	505

TOWN OF PARKER PROJECTED POND
ACTIVITY CREW MAN DAYS FOR 2017-2028

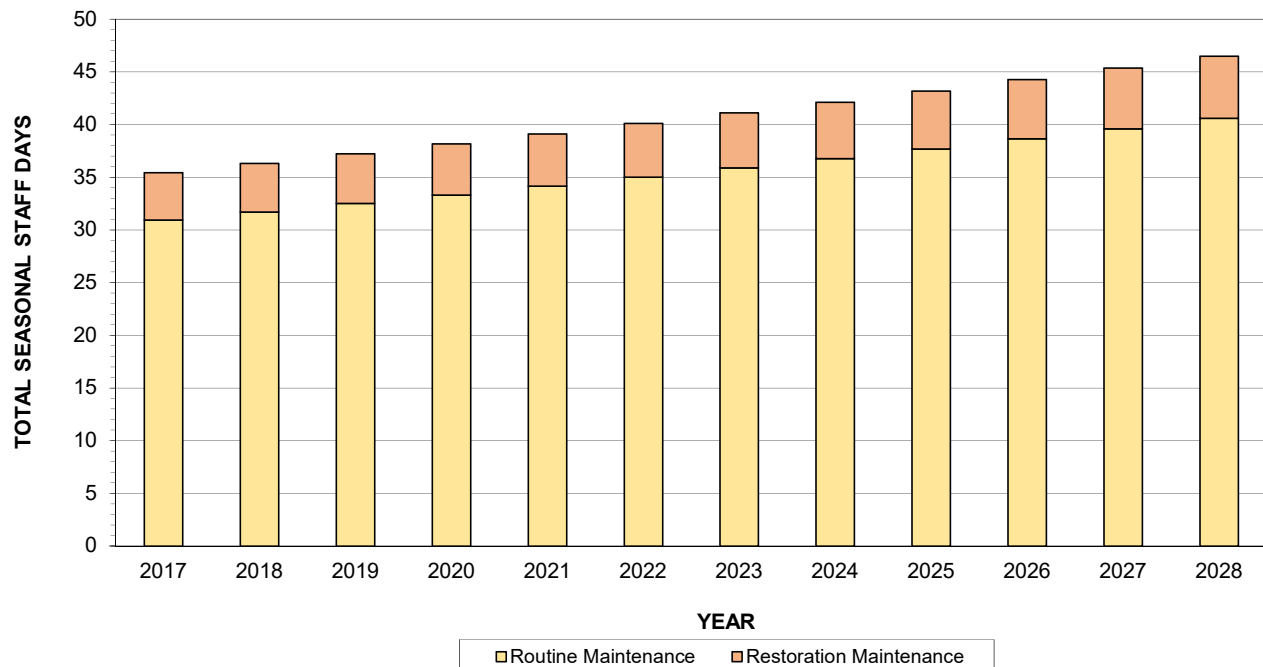




**TOWN OF PARKER STORMWATER UTILITY
TOTAL CREW TIME AND COSTS FOR DETENTION AND WQ PONDS**

YEAR	SEASONAL STAFF TIME		
	SEASONAL STAFF DAYS FOR POND ROUTINE MAINTENANCE	SEASONAL STAFF DAYS FOR POND RESTORATION MAINTENANCE	TOTAL SEASONAL STAFF DAYS FOR POND ACTIVITIES
2017	31	5	35
2018	32	5	36
2019	32	5	37
2020	33	5	38
2021	34	5	39
2022	35	5	40
2023	36	5	41
2024	37	5	42
2025	38	5	43
2026	39	6	44
2027	40	6	45
2028	41	6	46

**TOWN OF PARKER PROJECTED POND
ACTIVITY SEASONAL STAFF DAYS FOR 2017-2028**



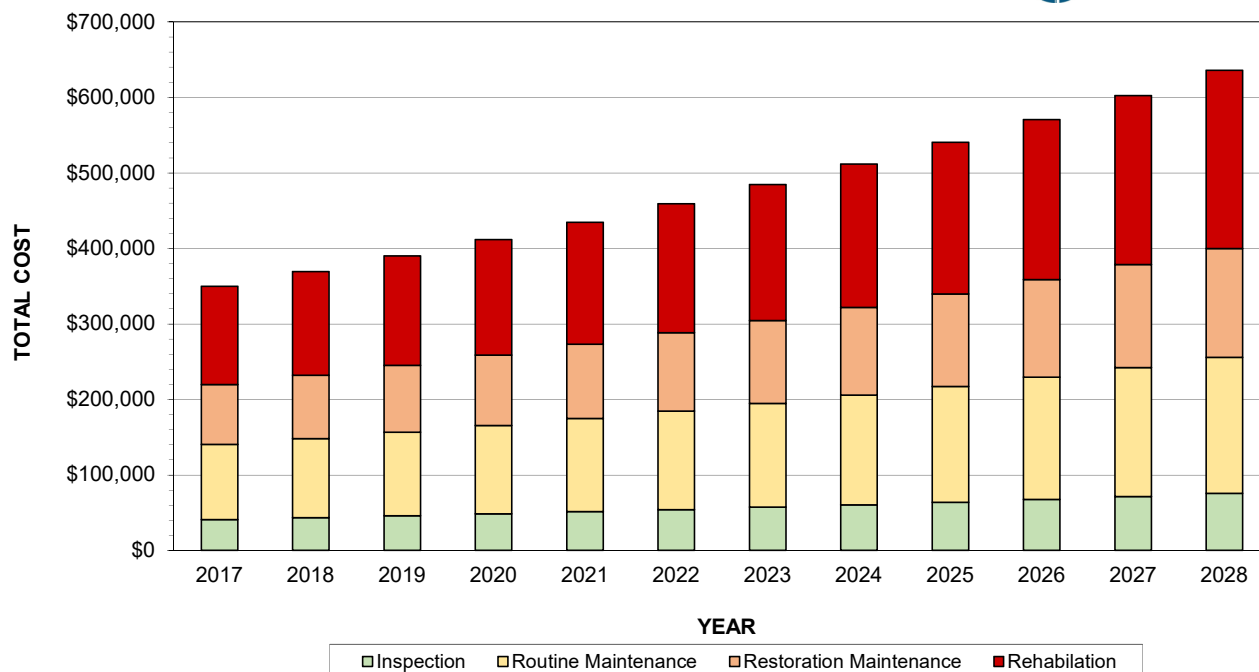


TOWN OF PARKER STORMWATER UTILITY

TOTAL CREW TIME AND COSTS FOR DETENTION AND WQ PONDS

YEAR	COST				TOTAL COSTS FOR FOR POND ACTIVITIES
	COST FOR POND INSPECTION	COST FOR POND ROUTINE MAINTENANCE	COST FOR POND RESTORATION MAINTENANCE	COST FOR POND REHABILITATION	
2017	\$41,081	\$99,297	\$79,351	\$130,000	\$349,730
2018	\$43,419	\$104,833	\$83,775	\$137,248	\$369,275
2019	\$45,890	\$110,678	\$88,446	\$144,899	\$389,913
2020	\$48,502	\$116,848	\$93,376	\$152,977	\$411,704
2021	\$51,263	\$123,362	\$98,582	\$161,506	\$434,713
2022	\$54,182	\$130,240	\$104,078	\$170,510	\$459,009
2023	\$57,266	\$137,501	\$109,880	\$180,015	\$484,663
2024	\$60,527	\$145,166	\$116,006	\$190,051	\$511,751
2025	\$63,973	\$153,259	\$122,474	\$200,647	\$540,353
2026	\$67,616	\$161,803	\$129,302	\$211,833	\$570,554
2027	\$71,467	\$170,824	\$136,510	\$223,642	\$602,443
2028	\$75,537	\$180,347	\$144,121	\$236,111	\$636,116

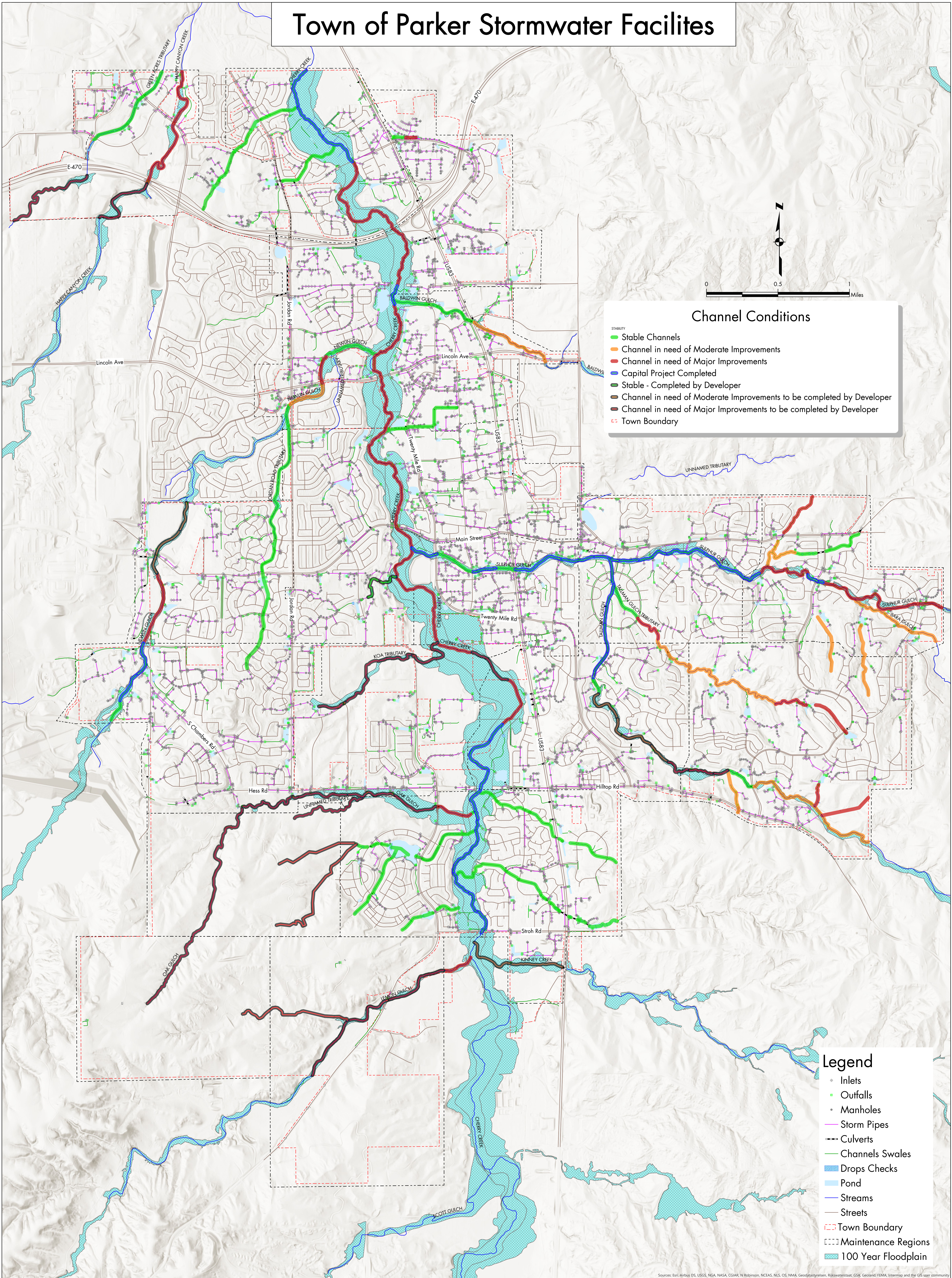
TOWN OF PARKER PROJECTED POND ACTIVITY COSTS FOR 2017-2028



Appendix D

Channels

Town of Parker Stormwater Facilites





TOWN OF PARKER STORMWATER UTILITY CHANNEL INSPECTION

INPUT/VARIABLES (variables from Parker highlighted in green):

CHANNEL INSPECTION

TOTAL LENGTH OF CHANNEL (2017) = 49.0 MI
 PORTION OF CHANNEL INSPECTED EACH YEAR = 100%
 LENGTH OF CHANNEL INSPECTED (2017) = 49.0 MI
 INCREASE IN TOTAL LENGTH OF CHANNEL EACH YEAR = 1%

CREW DATA

CREW SIZE = 2.5 PPL
 WORK DAY = 8 HRS
 RATE (2017) = \$33 PER HOUR
 NUMBER OF DAYS TO INSPECT CHANNELS (2017) = 15 DAYS
 CREW MAN-DAYS (2017) = 38 DAYS
 QUANTITY OF CHANNEL INSPECTED BY CREW = 17241 LF PER DAY

COST

TOTAL COST FOR CREW (2017) = \$660 PER DAY
 MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) = \$75 PER DAY
 COST SUBTOTAL = \$735 PER DAY
 CONTINGENCY = 10%
 TOTAL COST 2017 = \$809 PER DAY
 ANNUAL INFLATION RATE = 3%

YEAR	TOTAL L OF CHANNEL IN TOWN (MI)	TOTAL L OF CHANNEL INSPECTED (MI)	NUMBER OF WORK DAYS TO INSPECT CHANNELS	NUMBER OF CREW-MAN DAYS TO INSPECT CHANNELS	TOTAL COST FOR CHANNEL INSPECTION
2017	49.0	49.0	15	38	\$12,132
2018	50.0	50.0	15	38	\$12,754
2019	51.0	51.0	16	39	\$13,402
2020	52.0	52.0	16	40	\$14,077
2021	53.0	53.0	16	41	\$14,781
2022	54.0	54.0	17	41	\$15,514
2023	55.0	55.0	17	42	\$16,278
2024	56.1	56.1	17	43	\$17,075
2025	57.1	57.1	17	44	\$17,904
2026	58.1	58.1	18	44	\$18,767
2027	59.1	59.1	18	45	\$19,666
2028	60.1	60.1	18	46	\$20,603



TOWN OF PARKER STORMWATER UTILITY CHANNEL ROUTINE MAINTENANCE

INPUT/VARIABLES (variables from Parker highlighted in green):

CHANNEL ROUTINE MAINTENANCE

TOTAL LENGTH OF CHANNEL (2017) = 49.0 MI
 PORTION OF CHANNEL MAINTAINED EACH YEAR = 10%
 LENGTH OF CHANNEL MAINTAINED (2017) = 4.9 MI
 INCREASE IN TOTAL LENGTH OF CHANNEL EACH YEAR = 1%

CREW DATA

CREW SIZE = 4.0 PPL
 WORK DAY = 8 HRS
 RATE (2017) = \$33 PER HOUR
 PPL (Note: seasonal crew size calculated using \$50/day cost as provided by Town of Parker)
 SEASONAL CREW SIZE = 0.4
 SEASONAL WORK DAY = 8 HRS
 SEASONAL RATE (2017) = \$14 PER HOUR
 NUMBER OF DAYS TO MAINTAIN CHANNELS (2017) = 15
 CREW MAN-DAYS (2017) = 60
 LENGTH OF CHANNEL MAINTAINED BY CREW = 1724 LF PER DAY

COST

TOTAL COST FOR CREW (2017) = \$1,056 PER DAY
 ADDITIONAL (SEASONAL) STAFF COST (2017) = \$47 PER DAY
 MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) = \$517 PER DAY
 COST SUBTOTAL = \$1,621 PER DAY
 CONTINGENCY = 10%
 TOTAL COST 2017 = \$1,783 PER DAY
 ANNUAL INFLATION RATE = 3%

YEAR	TOTAL L OF CHANNEL IN TOWN (MI)	TOTAL L OF CHANNEL MAINTAINED (MI)	NUMBER OF WORK DAYS TO MAINTAIN CHANNELS	NUMBER OF CREW-MAN DAYS TO MAINTAIN CHANNELS	NUMBER OF SEASONAL-STAFF DAYS TO MAINTAIN CHANNELS	TOTAL COST FOR CHANNEL ROUTINE MAINTENANCE
2017	49.0	4.9	15.0	60	6.3	\$26,739
2018	50.0	5.0	15.3	61	6.4	\$28,109
2019	51.0	5.1	15.6	62	6.5	\$29,537
2020	52.0	5.2	15.9	64	6.6	\$31,026
2021	53.0	5.3	16.2	65	6.8	\$32,577
2022	54.0	5.4	16.5	66	6.9	\$34,194
2023	55.0	5.5	16.9	67	7.0	\$35,878
2024	56.1	5.6	17.2	69	7.2	\$37,632
2025	57.1	5.7	17.5	70	7.3	\$39,460
2026	58.1	5.8	17.8	71	7.4	\$41,363
2027	59.1	5.9	18.1	72	7.5	\$43,345
2028	60.1	6.0	18.4	74	7.7	\$45,408



PROJECTED COSTS FOR PROJECTS TO BE COMPLETED (DESIGN AND CONSTRUCTION) FOR STREAM STABILIZATION
TOWN OF PARKER STORMWATER UTILITY ASSESSMENT

INPUT/VARIABLES (2019 COST DATA):

Cherry Creek Major Improvement =	\$1,200 Per LF
Cherry Creek Moderate Improvement =	\$800 Per LF
Primary Drainageway Major Improvement =	\$1,600 Per LF
Primary Drainageway Moderate Improvement =	\$1,000 Per LF
Secondary Drainageway Major Improvement =	\$600 Per LF
Secondary Drainageway Moderate Improvement =	\$400 Per LF

PRIORITY NUMBER	PROJECT	CATEGORY	LEVEL OF IMPROVEMENT	REACH LENGTH, FT	REACH LENGTH, MI	REPRESENTATIVE UNIT COST, \$/LF	PROBABLE PROJECT COST IN 2019 DOLLARS
1	Cherry Creek - 0.6 miles downstream of Hess Rd to 0.6 mi downstream of KOA tributary	CHERRY CREEK	MAJOR	2150	0.41	\$1,200	\$2,579,520
2	Cherry Creek - 0.3 mi downstream of KOA tributary to Sulfur Gulch	CHERRY CREEK	MAJOR	6455	1.22	\$1,200	\$7,746,240
3	Newlin Gulch - Lincoln Ave to Recreation Dr	PRIMARY DRAINAGEWAYS	MAJOR	1042	0.20	\$1,600	\$1,667,680
4	Newlin Gulch - S. Jordon Road to Lincoln Ave	PRIMARY DRAINAGEWAYS	MODERATE	1651	0.31	\$1,000	\$1,651,000
5	Happy Canyon Creek - E470 to Town boundary	PRIMARY DRAINAGEWAYS	MAJOR	5611	1.06	\$1,600	\$8,978,080
6	Cherry Creek - Sulfur Gulch to Intersection of Twenty Mile and E. Plaza (Railbender Park)	CHERRY CREEK	MAJOR	3648	0.69	\$1,200	\$4,378,080
7	Sulfur Gulch - 0.1 mi upstream of Canterbury Pkwy to 0.3 mi east of Riva Ridge Dr	PRIMARY DRAINAGEWAYS	MAJOR	2444	0.46	\$1,600	\$3,911,040
8	Cherry Creek - Intersection of Twenty Mile and E. Plaza (Railbender Park) to Newlin Gulch	CHERRY CREEK	MAJOR	5767	1.09	\$1,200	\$6,920,400
9	Newlin Gulch - 0.2 miles downstream of Chambers Rd to 0.1 mile upstream of Mainstreet	PRIMARY DRAINAGEWAYS	MAJOR	2820	0.53	\$1,600	\$4,512,000
10	Tallman Gulch Tributary - 0.5 mi downstream of Canterbury Pkwy to 0.1 mi downstream of Tallman Dr	PRIMARY DRAINAGEWAYS	MODERATE	6702	1.27	\$1,000	\$6,702,000
11	Cherry Creek - Newlin Gulch to 210 feet south of Baldwin Gulch	CHERRY CREEK	MAJOR	2548	0.48	\$1,200	\$3,057,780
12	Cherry Creek - Pine Lane to E470 eastbound off-ramp	CHERRY CREEK	MAJOR	2338	0.44	\$1,200	\$2,805,084
13	Cherry Creek - E470 eastbound off-ramp to Cottonwood Drive	CHERRY CREEK	MAJOR	5145	0.97	\$1,200	\$6,174,360
14	Tallman Gulch Tributary - 0.1 mi downstream of Tallman Dr to Seiber Cir	PRIMARY DRAINAGEWAYS	MAJOR	1301	0.25	\$1,600	\$2,080,800
15	Tallman Gulch Tributary - 0.5 mi downstream of Canterbury Pkwy to Mosey Ct	PRIMARY DRAINAGEWAYS	MAJOR	2873	0.54	\$1,600	\$4,596,320
16	Baldwin Gulch - Lincoln Ave to Parker Rd	PRIMARY DRAINAGEWAYS	MODERATE	3191	0.60	\$1,000	\$3,191,300
17	Oak Gulch - Motsenbocker Rd to 200 LF upstream of Cherry Creek	PRIMARY DRAINAGEWAYS	MAJOR	1408	0.27	\$1,600	\$2,252,800
18	Sulfur Gulch - Town boundary to 0.1 mi upstream of Canterbury Pkwy	PRIMARY DRAINAGEWAYS	MAJOR	5288	1.00	\$1,600	\$8,461,120
19	Sara Gulch - Town boundary to Sulphur Gulch confluence	PRIMARY DRAINAGEWAYS	MODERATE	3642	0.69	\$1,000	\$3,641,900
20	Tallman Gulch - Town boundary to Canterbury Pkwy	PRIMARY DRAINAGEWAYS	MODERATE	5621	1.06	\$1,000	\$5,621,400
21	Tributary at Cottonwood Dr and Parker Rd	SECONDARY DRAINAGEWAYS	MAJOR	365	0.07	\$600	\$219,180
22	Tallman Gulch Tributary - West Tributary Fork upstream to E. Hilltop Rd	SECONDARY DRAINAGEWAYS	MODERATE	1656	0.31	\$400	\$662,440
23	Sulfur Gulch: Silver Meadow Lane Fork - Town boundary to E. Mainstreet	SECONDARY DRAINAGEWAYS	MAJOR	1812	0.34	\$600	\$1,087,320
24	Tallman Gulch: East Tributary Fork - near Legend High School	SECONDARY DRAINAGEWAYS	MAJOR	1895	0.36	\$600	\$1,137,060
25	Tallman Gulch: North Tributary Fork - near Legend High School	SECONDARY DRAINAGEWAYS	MAJOR	837	0.16	\$600	\$502,020
26	Sulfur Gulch: Silver Meadow Lane Fork - upstream to E. Mainstreet (includes both east and west forks)	SECONDARY DRAINAGEWAYS	MODERATE	2237	0.42	\$400	\$894,800
27	Sulphur Gulch: Trib in Black Bear Golf Course - between Canterbury Pkwy and Canterbury Ln	SECONDARY DRAINAGEWAYS	MODERATE	2172	0.41	\$400	\$868,720
28	Sulphur Gulch: Trib in Black Bear Golf Course - E of Canterbury Ln	SECONDARY DRAINAGEWAYS	MODERATE	2802	0.53	\$400	\$1,120,800
29	Lemon Gulch - 0.4 mi downstream N. Crowfoot Valley Rd to confluence with Cherry Creek	PRIMARY DRAINAGEWAYS	MAJOR	1201	0.23	\$1,600	\$1,922,336
		TOTAL CHANNEL LENGTH IN NEED OF WORK =			16		
	GRAND TOTAL =						\$99,343,580

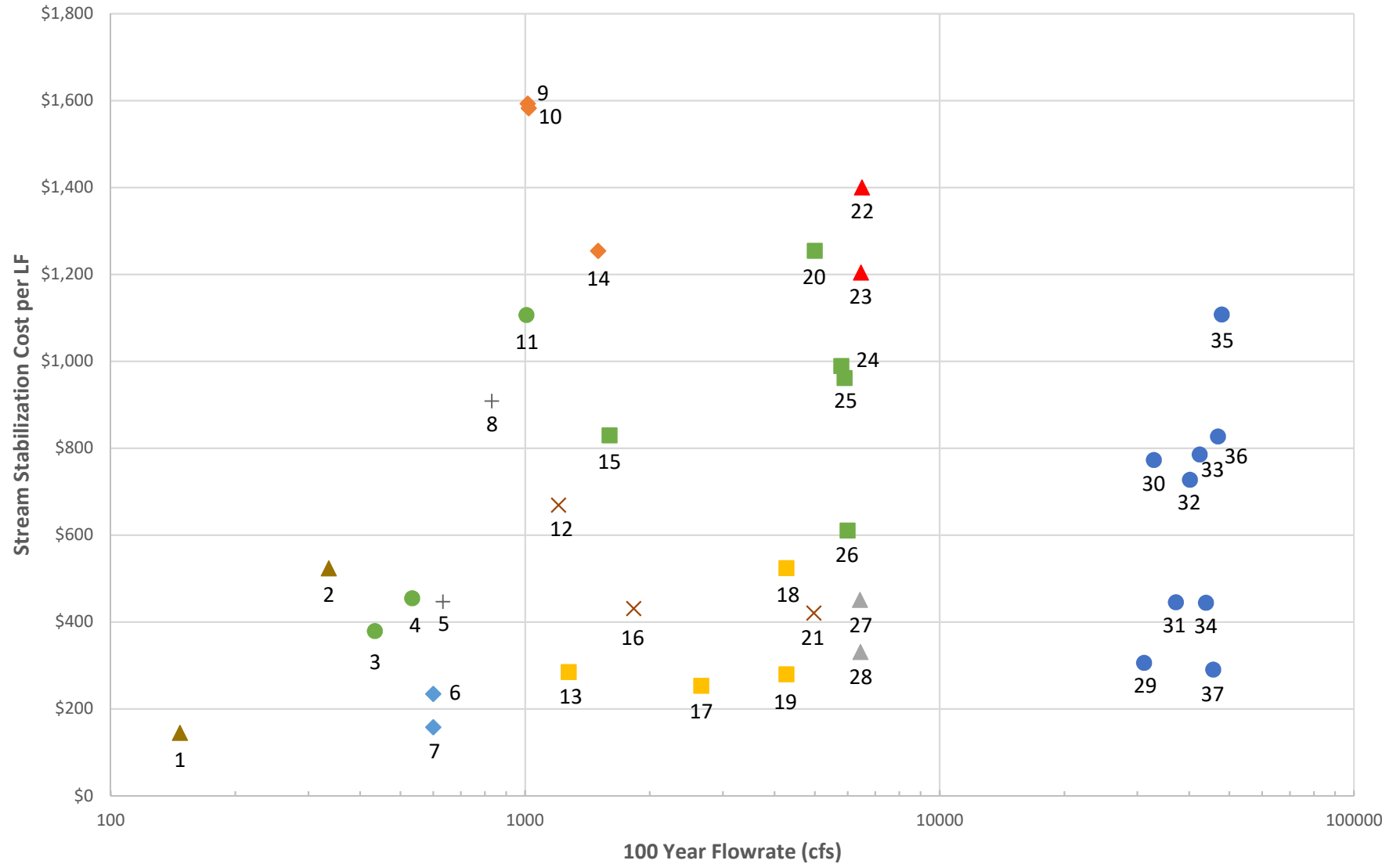
*Secondary drainageways have <320 ac tributary basins

Avg cost/LF \$1,147

Parker Spending (2017) =	\$500,000	
Partner Match (2017) =	\$500,000	
Total Spending (2017) =	\$1,000,000	
Number of Years Required to Complete Needed Projects at Current Spending Rate =	99	YEARS
Parker Spending Required to Complete Needed Projects in 20 Years* =	\$4,942,179	PER YEAR
Parker Spending Required to Complete Needed Projects in 30 Years* =	\$3,278,119	PER YEAR
Parker Spending Required to Complete Needed Projects in 40 Years* =	\$2,483,587	PER YEAR
Parker Spending Required to Complete Needed Projects in 50 Years* =	\$1,986,872	PER YEAR

*Assumes \$500k partner match

Stream Stabilization Projects - Costs per LF



- Cherry Creek
- ◆ Newlin Gulch
- ▲ Sulphur Gulch
- Senac Creek
- ◆ Big Dry Creek
- Oak Gulch
- Happy Canyon
- × Piney Creek
- + Marcy Gulch
- ▲ West Stroh and Tribs
- ▲ Lemon Gulch

Project Location Description for Stream Stabilization Cost per LF graph

- 1- West Stroh Tributary #2
- 2- West Stroh Mainstem
- 3- Oak Gulch Tributary #2
- 4- Oak Gulch Tributary #1
- 5- Marcy Gulch - Between Broadway and Wildcat
- 6- Big Dry Creek Phase 1 – Highlands Ranch: Upstream of McArthur Ranch Rd to Big Dry Creek park
- 7- Big Dry Creek Predesign - Highlands Ranch: Upstream of McArthur Ranch Rd to Big Dry Creek park
- 8- Marcy Gulch - At Highlands Ranch Golf Course
- 9- Newlin Gulch Draft 6B – Town Boundary to upstream of Hess Road
- 10- Newlin Gulch Draft 6A – Chambers Road to Town Boundary
- 11- Oak Gulch Mainstem
- 12- Piney Creek (15) – (Antelope Creek) Upstream of Long Ave to upstream of E-470
- 13- Senac Creek (S-4) – Confluence with Haynes Gulch to Aurora Reservoir
- 14- Newlin Gulch Draft 5 – Mainstreet to Chambers Road
- 15- Happy Canyon (2b) – Oak Hills Drive to Clydesdale Road
- 16- Piney Creek (14) – (Antelope Creek) Piney Creek to Long Ave
- 17- Senac Creek (S-3) – Confluence with Baldwin Creek to Confluence with Haynes Gulch
- 18- Senac Creek (S-1) – Confluence with Coal Creek to E. Yale Ave
- 19- Senac Creek (S-2) – E. Yale Ave to confluence with Baldwin Creek
- 20- Happy Canyon (4) – Lone Tree South: I-25 to Meridian Commons
- 21- Piney Creek (9) – Upstream of E470 to Aurora Parkway
- 22- Lemon Gulch - Downstream of Crowfoot
- 23- Lemon Gulch - Crowfoot Valley Road
- 24- Happy Canyon (5) – Meridian Commons
- 25- Happy Canyon (6) – Lone Tree North: Meridian Commons to West Parker Road
- 26- Happy Canyon (7a) – West Parker Road to Birch Ave
- 27- Sulphur Gulch - Parker Rd to Town Hall
- 28- Sulphur Gulch - Twenty Mile to Dransfeldt
- 29- Cherry Creek – At Stroh Ranch
- 30- Cherry Creek – At Hess Road
- 31- Cherry Creek – At Main Street
- 32- Cherry Creek – At Pine Lane
- 33- Cherry Creek – At Cottonwood Drive
- 34- Cherry Creek – 17 mile house
- 35- Cherry Creek – Reach 5 and Drop 14
- 36- Cherry Creek – Eco Park
- 37- Cherry Creek – At PJCOS



TOWN OF PARKER STORMWATER UTILITY CHANNEL REHABILITATION

INPUT/VARIABLES (variables from Parker highlighted in green):

TOWN CONTRIBUTION IN 2017 =	\$500,000
PARTNER MATCH (MHFD) IN 2017 =	\$500,000
TOTAL SPENDING FOR CHANNEL REHAB IN 2017 =	\$1,000,000
TOWN CONTRIBUTION IN 2020 =	\$1,000,000
PARTNER MATCH (MHFD) IN 2020 =	\$515,000
TOTAL SPENDING FOR CHANNEL REHAB IN 2020 =	\$1,515,000
INCREASE IN SPENDING DUE TO ADDITIONAL CHANNEL DEGREDDATION =	5% PER YEAR
INCREASE IN MHFD CONTRIBUTION (STARTING IN 2020) =	3% PER YEAR
ANNUAL INFLATION RATE =	3% PER YEAR

YEAR	TOWN OF PARKER CONTRIBUTION	PARTNER MATCH (MHFD)	TOTAL SPENDING FOR CHANNEL REHABILITATION
2017	\$500,000	\$500,000	\$1,000,000
2018	\$500,000	\$500,000	\$1,000,000
2019	\$500,000	\$500,000	\$1,000,000
2020	\$1,000,000	\$515,000	\$1,515,000
2021	\$1,081,500	\$530,450	\$1,611,950
2022	\$1,169,642	\$546,364	\$1,716,006
2023	\$1,264,968	\$562,754	\$1,827,722
2024	\$1,368,063	\$579,637	\$1,947,700
2025	\$1,479,560	\$597,026	\$2,076,586
2026	\$1,600,144	\$614,937	\$2,215,081
2027	\$1,730,556	\$633,385	\$2,363,941
2028	\$1,871,596	\$652,387	\$2,523,983

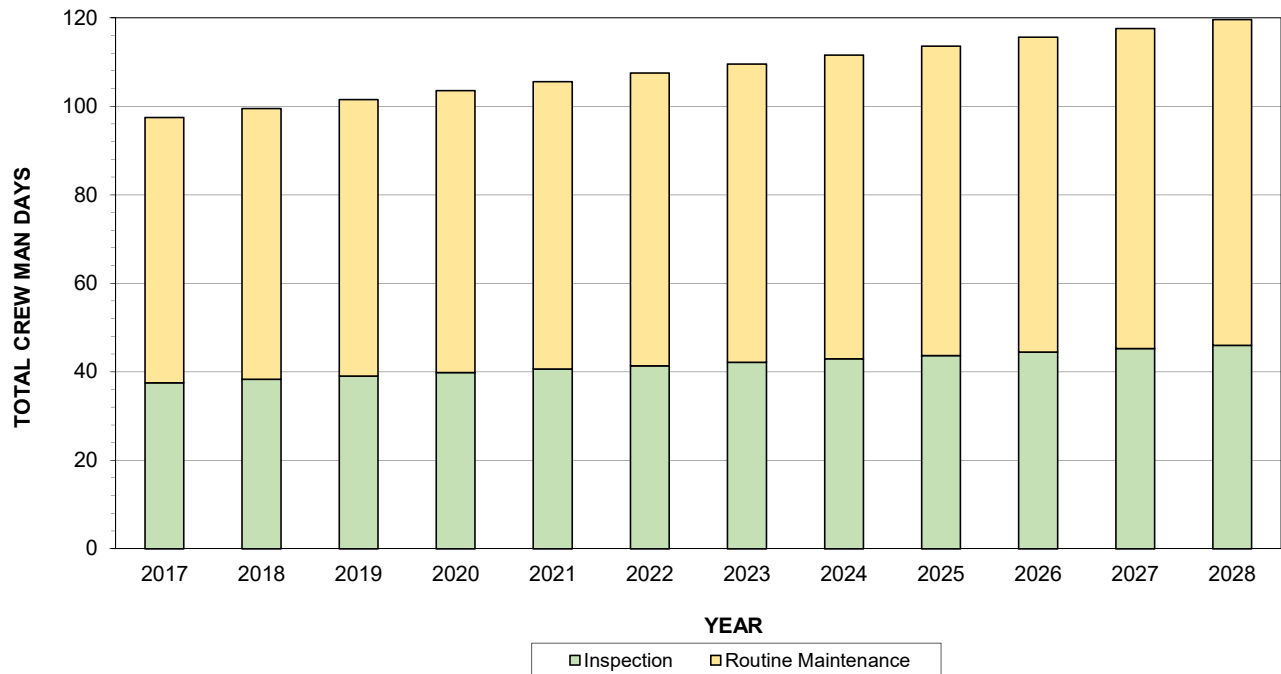
YEAR	10-YR CIP COST PROJECTION
2017	-
2018	-
2019	-
2020	\$1,000,000
2021	\$1,000,000
2022	\$1,600,000
2023	\$1,200,000
2024	\$1,400,000
2025	\$900,000
2026	\$1,000,000
2027	\$1,000,000
2028	\$1,100,000



TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME AND COSTS FOR CHANNELS

YEAR	CREW TIME		
	CREW DAYS FOR CHANNEL INSPECTION	CREW DAYS FOR CHANNEL ROUTINE MAINTENANCE	TOTAL CREW DAYS FOR CHANNEL ACTIVITIES
2017	38	60	98
2018	38	61	100
2019	39	62	102
2020	40	64	104
2021	41	65	106
2022	41	66	108
2023	42	67	110
2024	43	69	112
2025	44	70	114
2026	44	71	116
2027	45	72	118
2028	46	74	120

TOWN OF PARKER PROJECTED CHANNEL ACTIVITY CREW MAN DAYS FOR 2017-2028

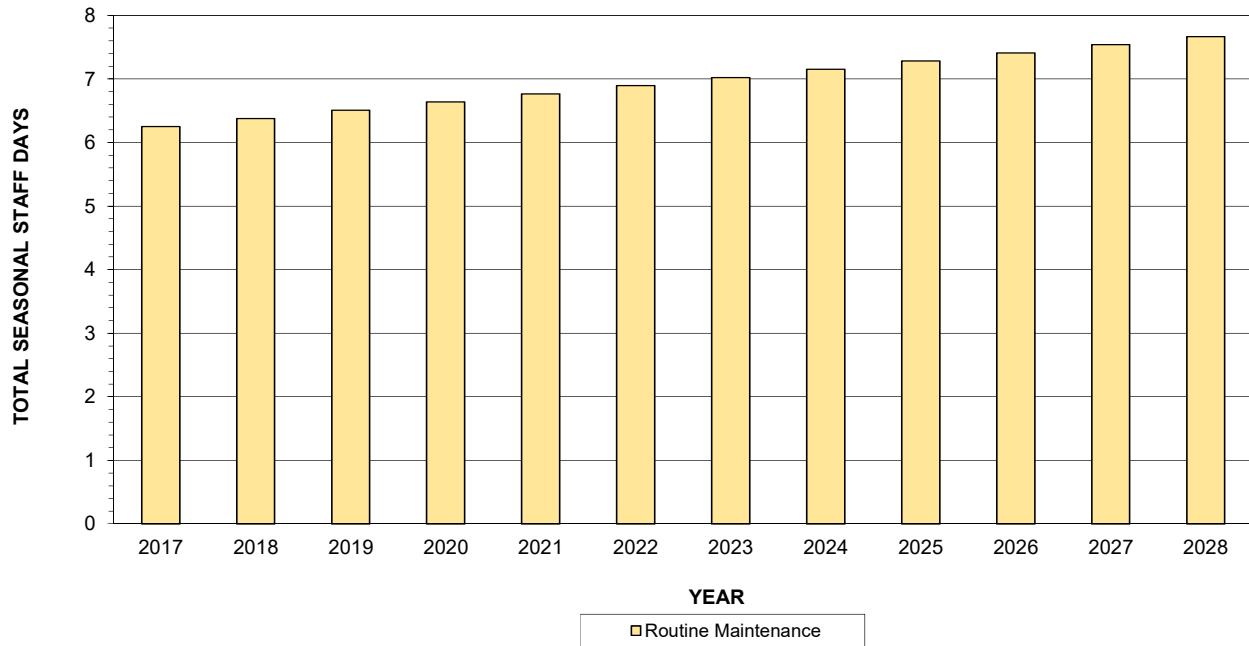




TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME AND COSTS FOR CHANNELS

YEAR	SEASONAL STAFF TIME	
	SEASONAL STAFF DAYS FOR CHANNEL ROUTINE MAINTENANCE	TOTAL SEASONAL STAFF DAYS FOR CHANNEL ACTIVITIES
2017	6.3	6.3
2018	6.4	6.4
2019	6.5	6.5
2020	6.6	6.6
2021	6.8	6.8
2022	6.9	6.9
2023	7.0	7.0
2024	7.2	7.2
2025	7.3	7.3
2026	7.4	7.4
2027	7.5	7.5
2028	7.7	7.7

TOWN OF PARKER PROJECTED CHANNEL ACTIVITY SEASONAL STAFF DAYS FOR 2017-2028

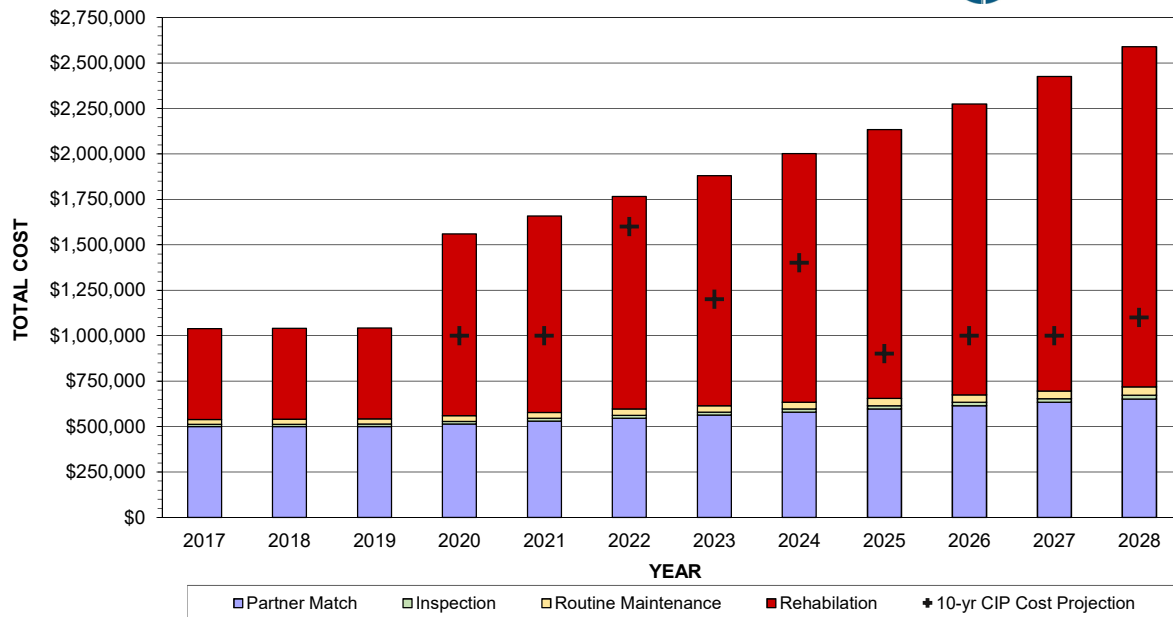




TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME AND COSTS FOR CHANNELS

YEAR	COST				PARTNER MATCH (MHFD) FOR CHANNEL REHABILITATION
	COST FOR CHANNEL INSPECTION	COST FOR CHANNEL ROUTINE MAINTENANCE	COST FOR CHANNEL REHABILITATION	TOTAL COSTS TOWN OF PARKER FOR CHANNEL ACTIVITIES	
2017	\$12,132	\$26,739	\$500,000	\$538,871	\$500,000
2018	\$12,754	\$28,109	\$500,000	\$540,863	\$500,000
2019	\$13,402	\$29,537	\$500,000	\$542,939	\$500,000
2020	\$14,077	\$31,026	\$1,000,000	\$1,045,103	\$515,000
2021	\$14,781	\$32,577	\$1,081,500	\$1,128,858	\$530,450
2022	\$15,514	\$34,194	\$1,169,642	\$1,219,350	\$546,364
2023	\$16,278	\$35,878	\$1,264,968	\$1,317,124	\$562,754
2024	\$17,075	\$37,632	\$1,368,063	\$1,422,770	\$579,637
2025	\$17,904	\$39,460	\$1,479,560	\$1,536,923	\$597,026
2026	\$18,767	\$41,363	\$1,600,144	\$1,660,274	\$614,937
2027	\$19,666	\$43,345	\$1,730,556	\$1,793,567	\$633,385
2028	\$20,603	\$45,408	\$1,871,596	\$1,937,607	\$652,387

**TOWN OF PARKER PROJECTED
CHANNEL ACTIVITY COSTS FOR 2017-2028**



+ Cost projections as shown on 2020 10-year CIP cost projection worksheet.

Appendix E

Swales



TOWN OF PARKER STORMWATER UTILITY SWALE INSPECTION

INPUT/VARIABLES (variables from Parker highlighted in green):

SWALE INSPECTION

TOTAL LENGTH OF SWALE (2017) = 22.6 MI
 PORTION OF SWALE INSPECTED EACH YEAR = 29%
 LENGTH OF SWALE INSPECTED (2017) = 6.5 MI
 INCREASE IN TOTAL LENGTH OF SWALE EACH YEAR = 1%

CREW DATA

CREW SIZE = 2.0 PPL
 WORK DAY = 8 HRS
 RATE (2017) = \$33 PER HOUR
 NUMBER OF DAYS TO INSPECT SWALE (2017) = 10 DAYS
 CREW MAN-DAYS (2017) = 20 DAYS
 QUANTITY OF SWALE INSPECTED BY CREW = 3432 LF PER DAY

COST

TOTAL COST FOR CREW (2017) = \$528 PER DAY
 MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) = \$169 PER DAY
 COST SUBTOTAL = \$697 PER DAY
 CONTINGENCY = 10%
 TOTAL COST 2017 = \$767 PER DAY
 ANNUAL INFLATION RATE = 3%

YEAR	TOTAL L OF SWALE IN TOWN (MI)	TOTAL L OF SWALE INSPECTED (MI)	NUMBER OF WORK DAYS TO INSPECT SWALES	NUMBER OF CREW-MAN DAYS TO INSPECT SWALES	TOTAL COST FOR SWALE INSPECTION
2017	22.6	6.5	10.0	20.0	\$7,671
2018	22.8	6.6	10.1	20.2	\$7,980
2019	23.1	6.6	10.2	20.4	\$8,302
2020	23.3	6.7	10.3	20.6	\$8,636
2021	23.5	6.8	10.4	20.8	\$8,984
2022	23.8	6.8	10.5	21.0	\$9,346
2023	24.0	6.9	10.6	21.2	\$9,723
2024	24.3	7.0	10.7	21.4	\$10,115
2025	24.5	7.0	10.8	21.7	\$10,523
2026	24.7	7.1	10.9	21.9	\$10,947
2027	25.0	7.2	11.0	22.1	\$11,388
2028	25.2	7.3	11.2	22.3	\$11,847



TOWN OF PARKER STORMWATER UTILITY SWALE ROUTINE MAINTENANCE

INPUT/VARIABLES:

SWALE ROUTINE MAINTENANCE

TOTAL LENGTH OF SWALE (2017) = 22.6 MI
 PORTION OF SWALE MAINTAINED EACH YEAR = 80%
 LENGTH OF SWALE MAINTAINED (2017) = 18.1 MI
 INCREASE IN TOTAL LENGTH OF SWALE EACH YEAR = 1%

CREW DATA

CREW SIZE = 4.0 PPL
 WORK DAY = 8 HRS
 RATE (2017) = \$33 PER HOUR
 SEASONAL CREW SIZE = 0.4 PPL
 SEASONAL WORK DAY = 8 HRS
 SEASONAL RATE (2017) = \$14 PER HOUR
 NUMBER OF DAYS TO MAINTAIN SWALES (2017) = 60
 CREW MAN-DAYS (2017) = 240
 LENGTH OF SWALE MAINTAINED BY CREW = 1592 LF PER DAY

COST

TOTAL COST FOR CREW (2017) = \$1,056 PER DAY
 ADDITIONAL STAFF COST (2017) = \$47 PER DAY
 MATERIALS, EQUIPMENT, AND VEHICLE COST (2017) = \$517 PER DAY
 COST SUBTOTAL = \$1,621 PER DAY
 CONTINGENCY = 10%
 TOTAL COST 2017 = \$1,783 PER DAY
 ANNUAL INFLATION RATE = 3%

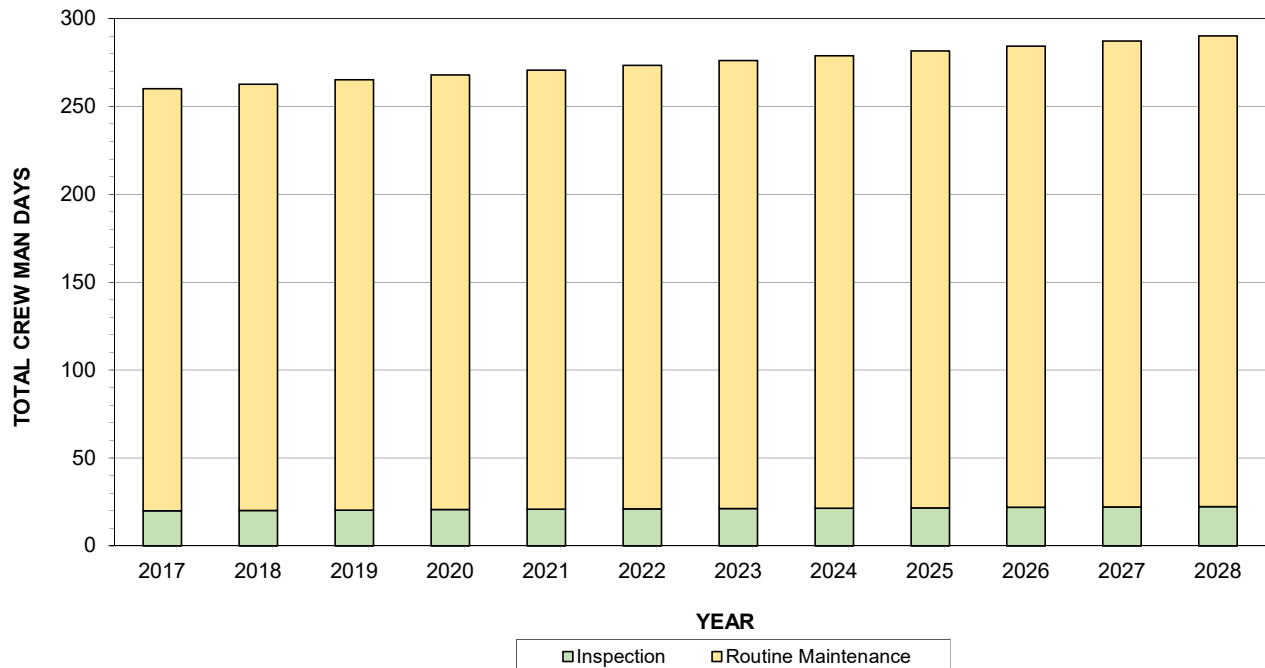
YEAR	TOTAL L OF SWALE IN TOWN (MI)	TOTAL L OF SWALE MAINTAINED (MI)	NUMBER OF WORK DAYS TO MAINTAIN SWALES	NUMBER OF CREW- MAN DAYS TO MAINTAIN SWALES	NUMBER OF SEASONAL-STAFF DAYS TO MAINTAIN SWALES	TOTAL COST FOR SWALE ROUTINE MAINTENANCE
2017	22.6	18.1	60	240	25.0	\$106,956
2018	22.8	18.3	61	242	25.3	\$111,266
2019	23.1	18.5	61	245	25.5	\$115,750
2020	23.3	18.6	62	247	25.8	\$120,415
2021	23.5	18.8	62	250	26.0	\$125,267
2022	23.8	19.0	63	252	26.3	\$130,316
2023	24.0	19.2	64	255	26.5	\$135,567
2024	24.3	19.4	64	257	26.8	\$141,031
2025	24.5	19.6	65	260	27.1	\$146,714
2026	24.7	19.8	66	262	27.3	\$152,627
2027	25.0	20.0	66	265	27.6	\$158,778
2028	25.2	20.2	67	268	27.9	\$165,177



TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME AND COSTS FOR SWALES

YEAR	CREW TIME		
	CREW DAYS FOR SWALE INSPECTION	CREW DAYS FOR SWALE ROUTINE MAINTENANCE	TOTAL CREW DAYS FOR SWALE ACTIVITIES
2017	20	240	260
2018	20	242	263
2019	20	245	265
2020	21	247	268
2021	21	250	271
2022	21	252	273
2023	21	255	276
2024	21	257	279
2025	22	260	282
2026	22	262	284
2027	22	265	287
2028	22	268	290

TOWN OF PARKER PROJECTED SWALE ACTIVITY CREW MAN DAYS FOR 2017-2028

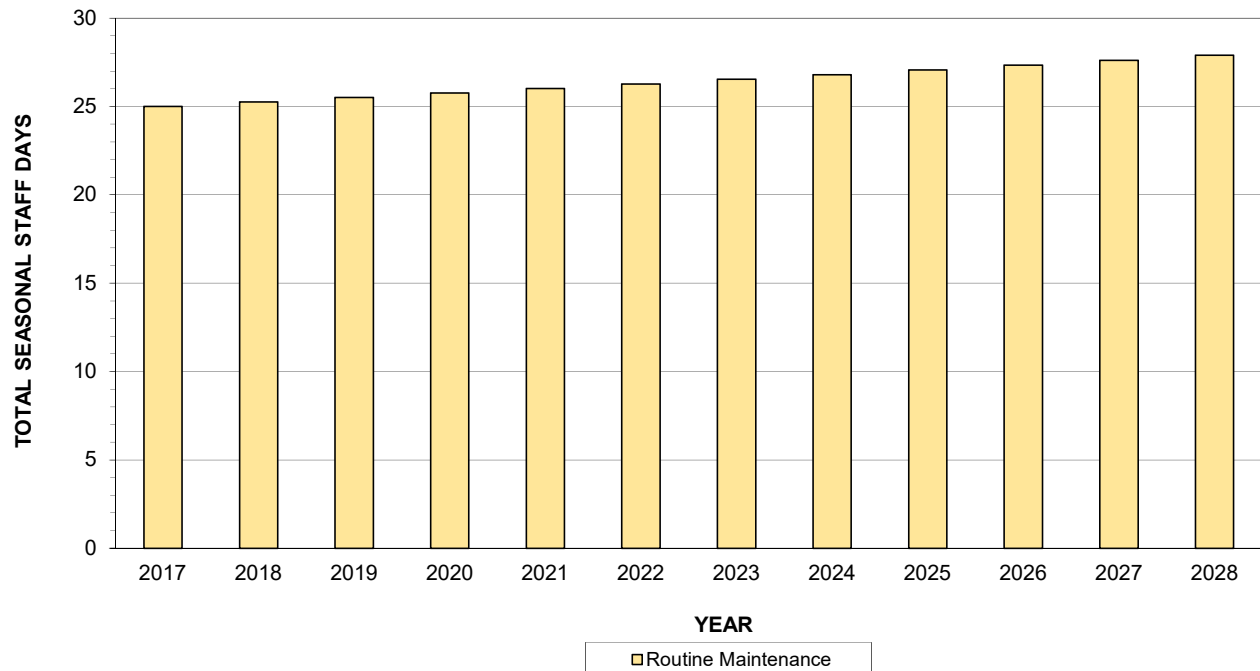




**TOWN OF PARKER STORMWATER UTILITY
TOTAL CREW TIME AND COSTS FOR SWALES**

YEAR	SEASONAL STAFF TIME	
	SEASONAL STAFF DAYS FOR SWALE ROUTINE MAINTENANCE	TOTAL SEASONAL STAFF DAYS FOR CHANNEL ACTIVITIES
2017	25	25
2018	25	25
2019	26	26
2020	26	26
2021	26	26
2022	26	26
2023	27	27
2024	27	27
2025	27	27
2026	27	27
2027	28	28
2028	28	28

**TOWN OF PARKER PROJECTED SWALE
ACTIVITY SEASONAL STAFF DAYS FOR 2017-2028**

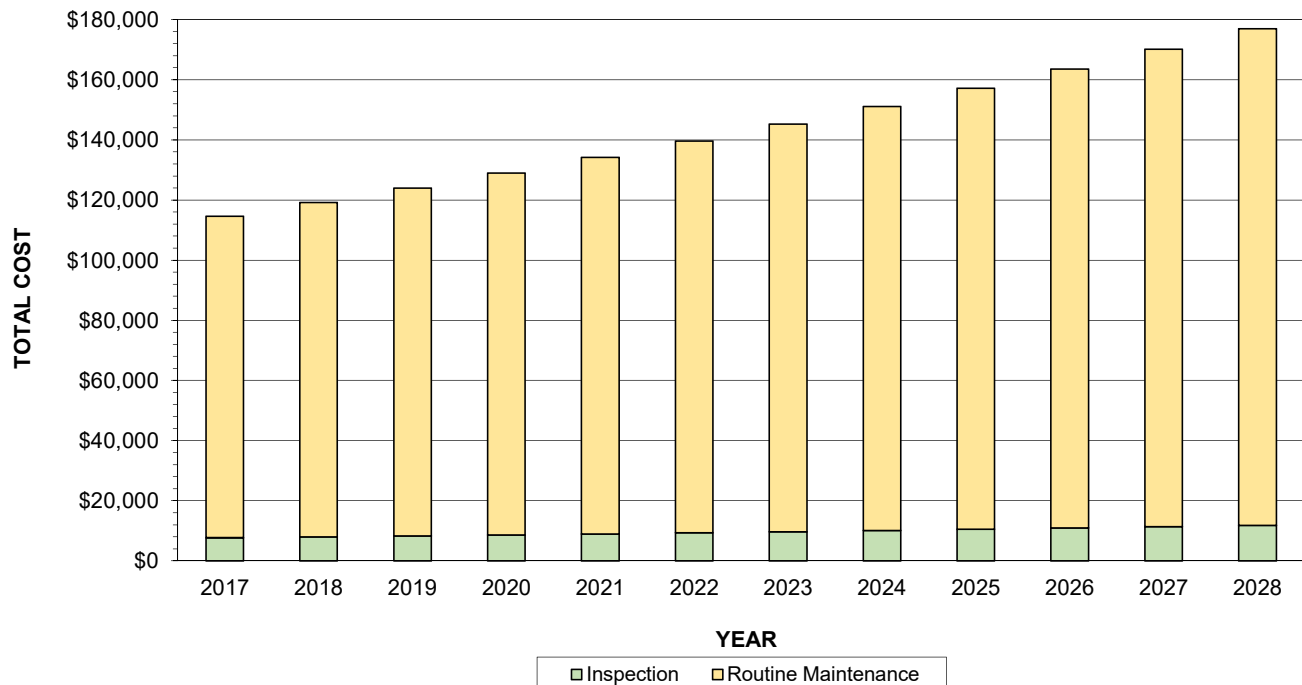




TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME AND COSTS FOR SWALES

YEAR	COST		
	COST FOR SWALE INSPECTION	COST FOR SWALE ROUTINE MAINTENANCE	TOTAL COSTS FOR SWALE ACTIVITIES
2017	\$7,671	\$106,956	\$114,627
2018	\$7,980	\$111,266	\$119,246
2019	\$8,302	\$115,750	\$124,052
2020	\$8,636	\$120,415	\$129,051
2021	\$8,984	\$125,267	\$134,252
2022	\$9,346	\$130,316	\$139,662
2023	\$9,723	\$135,567	\$145,290
2024	\$10,115	\$141,031	\$151,146
2025	\$10,523	\$146,714	\$157,237
2026	\$10,947	\$152,627	\$163,573
2027	\$11,388	\$158,778	\$170,165
2028	\$11,847	\$165,177	\$177,023

TOWN OF PARKER PROJECTED SWALE ACTIVITY COSTS FOR 2017-2028



Appendix F

Base Program Costs and Multiple Summaries of the Stormwater Utility Program Projected Costs through 2028



TOWN OF PARKER STORMWATER UTILITY
BASE PROGRAM PROJECTIONS

yearly inflation rate = 3.00%

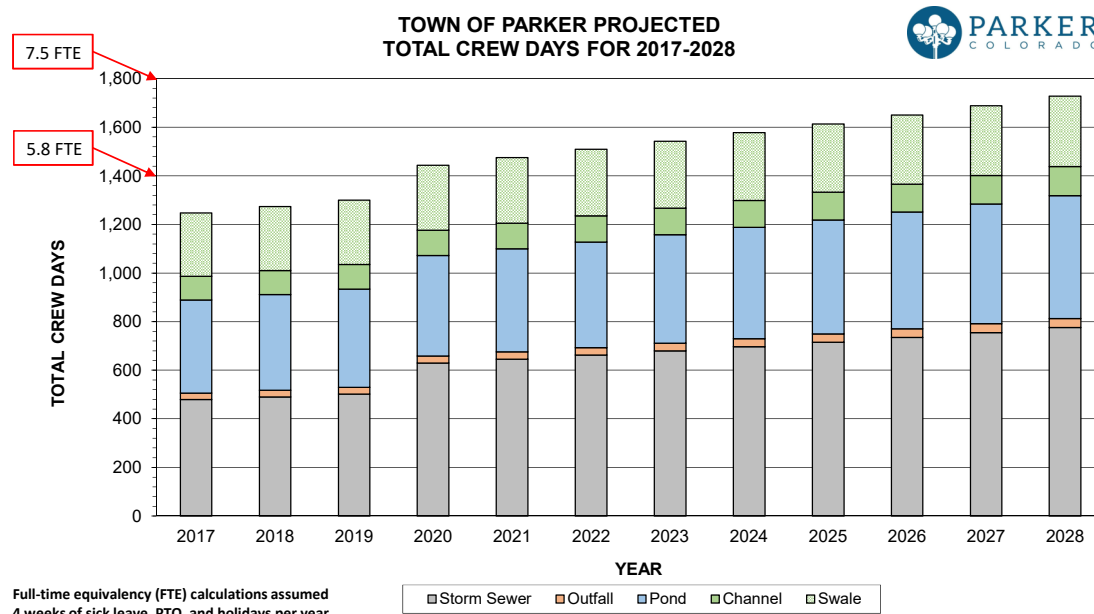
BASE PROGRAM COST PROJECTION										
YEAR	EQUIVALENT NUMBER OF OFFICE STAFF - BASE PROGRAM	BASE PROGRAM OFFICE STAFF - DAYS/YEAR	HOURLY RATE WITH 3% INFLATION PER YEAR	OFFICE STAFF ANNUAL COST	BASE PROGRAM COST FOR PURCHASED SERVICES	BASE PROGRAM COST FOR OFFICE STAFF AND PURCHASE SERVICES	BASE PROGRAM COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH 10% CONTINGENCY ADDED	BASE PROGRAM MATERIALS, EQUIPMENT, AND VEHICLE COSTS WITH 3% INFLATION PER YEAR	BASE PROGRAM MATERIALS, EQUIPMENT, AND VEHICLE COSTS WITH 10% CONTINGENCY ADDED	BASE PROGRAM COST FOR STAFF, MATERIALS, EQUIPMENT, AND VEHICLE COSTS
2017	3.11	746	\$33.89	\$202,189	\$517,495	\$719,684	\$791,652	\$172,078	\$189,286	\$980,938
2018	3.25	780	\$34.94	\$218,026	\$533,500	\$751,526	\$826,678	\$177,400	\$195,140	\$1,021,818
2019	3.39	814	\$35.99	\$234,437	\$550,000	\$784,437	\$862,881	\$182,722	\$200,994	\$1,063,875
2020	3.54	849	\$37.07	\$251,638	\$566,500	\$818,138	\$899,951	\$188,204	\$207,024	\$1,106,976
2021	3.68	883	\$38.18	\$269,659	\$583,495	\$853,154	\$938,469	\$193,850	\$213,235	\$1,151,704
2022	3.82	917	\$39.33	\$288,535	\$601,000	\$889,535	\$978,489	\$199,665	\$219,632	\$1,198,120
2023	3.96	951	\$40.51	\$308,301	\$619,030	\$927,331	\$1,020,064	\$205,655	\$226,221	\$1,246,285
2024	4.11	986	\$41.72	\$328,993	\$637,601	\$966,594	\$1,063,254	\$211,825	\$233,007	\$1,296,261
2025	4.25	1020	\$42.97	\$350,650	\$656,729	\$1,007,379	\$1,108,116	\$218,180	\$239,998	\$1,348,114
2026	4.39	1054	\$44.26	\$373,309	\$676,431	\$1,049,740	\$1,154,714	\$224,725	\$247,198	\$1,401,912
2027	4.54	1089	\$45.59	\$397,013	\$696,724	\$1,093,737	\$1,203,110	\$231,467	\$254,613	\$1,457,724
2028	4.68	1123	\$46.96	\$421,803	\$717,625	\$1,139,428	\$1,253,371	\$238,411	\$262,252	\$1,515,623

- 1. Base Program office staff in 2017: 1-engineer, 1-inspector, 1-stormwater manager, 20% public works director
- 2. Office Staff - 5 days a week for 48 weeks per year (4 weeks PTO)
- 3. Purchased Services - supplies, architect, engineer, insurance, workman's comp
- 4. Variables from Parker highlighted in green



TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME FOR ALL ACTIVITIES

YEAR	CREW TIME					TOTAL CREW DAYS FOR ALL
	CREW DAYS FOR STORM SEWER ACTIVITIES	CREW DAYS FOR OUTFALL ACTIVITIES	CREW DAYS FOR POND ACTIVITIES	CREW DAYS FOR CHANNEL ACTIVITIES	CREW DAYS FOR SWALE ACTIVITIES	
2017	479	26	384	98	260	1247
2018	490	27	394	100	263	1273
2019	502	28	404	102	265	1300
2020	629	29	414	104	268	1443
2021	645	30	424	106	271	1476
2022	662	31	435	108	273	1509
2023	679	32	446	110	276	1543
2024	697	33	457	112	279	1578
2025	716	34	469	114	282	1614
2026	735	35	481	116	284	1651
2027	755	36	493	118	287	1689
2028	775	38	505	120	290	1728



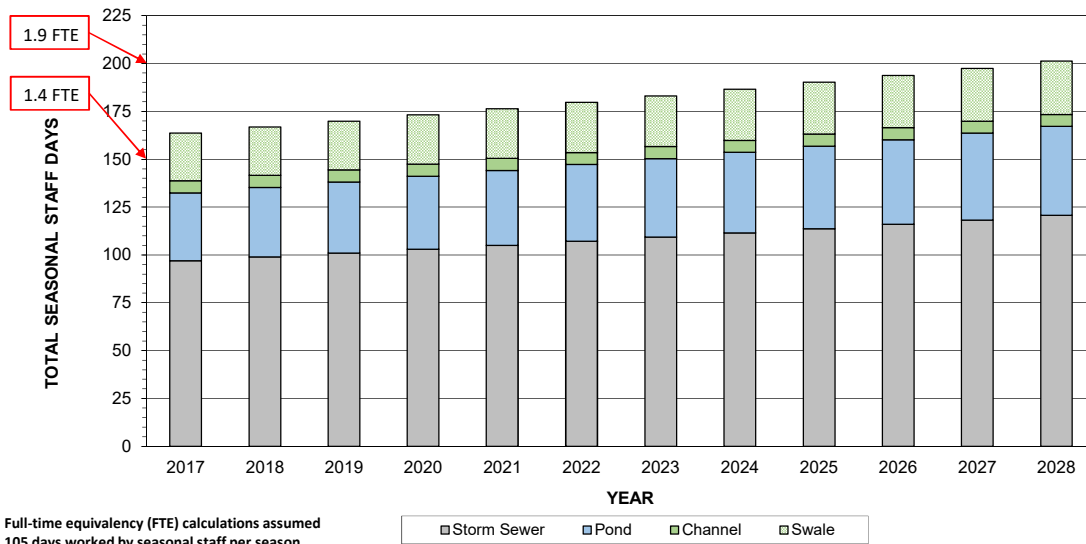
Full-time equivalency (FTE) calculations assumed 4 weeks of sick leave, PTO, and holidays per year.



TOWN OF PARKER STORMWATER UTILITY TOTAL CREW TIME FOR ALL ACTIVITIES

YEAR	SEASONAL STAFF TIME				TOTAL SEASONAL STAFF DAYS FOR ALL
	SEASONAL STAFF DAYS FOR STORM SEWER ACTIVITIES	SEASONAL STAFF DAYS FOR POND ACTIVITIES	SEASONAL STAFF DAYS FOR CHANNEL ACTIVITIES	SEASONAL STAFF DAYS FOR SWALE ACTIVITIES	
2017	97	35	6	25	164
2018	99	36	6	25	167
2019	101	37	6	26	170
2020	103	38	6	26	173
2021	105	39	6	26	176
2022	107	40	6	26	180
2023	109	41	6	27	183
2024	111	42	6	27	187
2025	114	43	6	27	190
2026	116	44	6	27	194
2027	118	45	6	28	197
2028	121	46	6	28	201

TOWN OF PARKER PROJECTED TOTAL SEASONAL STAFF DAYS FOR 2017-2028

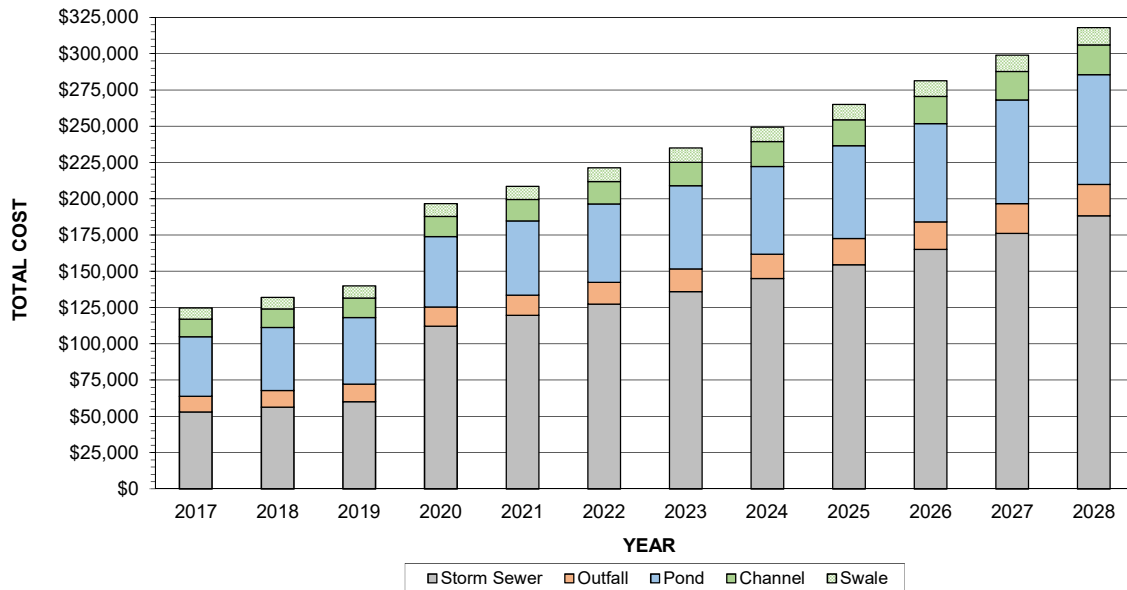




TOWN OF PARKER STORMWATER UTILITY TOTAL COSTS FOR INSPECTION ACTIVITIES

YEAR	TOTAL COST					TOTAL COST FOR INSPECTION ACTIVITIES
	COST FOR STORM SEWER INSPECTION	COST FOR OUTFALL INSPECTION	COST FOR POND INSPECTION	COST FOR CHANNEL INSPECTION	COST FOR SWALE INSPECTION	
2017	\$52,927	\$10,882	\$41,081	\$12,132	\$7,671	\$124,694
2018	\$56,333	\$11,570	\$43,419	\$12,754	\$7,980	\$132,056
2019	\$59,978	\$12,305	\$45,890	\$13,402	\$8,302	\$139,876
2020	\$112,225	\$13,091	\$48,502	\$14,077	\$8,636	\$196,531
2021	\$119,567	\$13,932	\$51,263	\$14,781	\$8,984	\$208,527
2022	\$127,434	\$14,831	\$54,182	\$15,514	\$9,346	\$221,307
2023	\$135,865	\$15,794	\$57,266	\$16,278	\$9,723	\$234,927
2024	\$144,905	\$16,825	\$60,527	\$17,075	\$10,115	\$249,446
2025	\$154,601	\$17,930	\$63,973	\$17,904	\$10,523	\$264,930
2026	\$165,005	\$19,114	\$67,616	\$18,767	\$10,947	\$281,449
2027	\$176,172	\$20,383	\$71,467	\$19,666	\$11,388	\$299,076
2028	\$188,163	\$21,744	\$75,537	\$20,603	\$11,847	\$317,894

**TOWN OF PARKER PROJECTED INSPECTION
COSTS FOR 2017-2028**

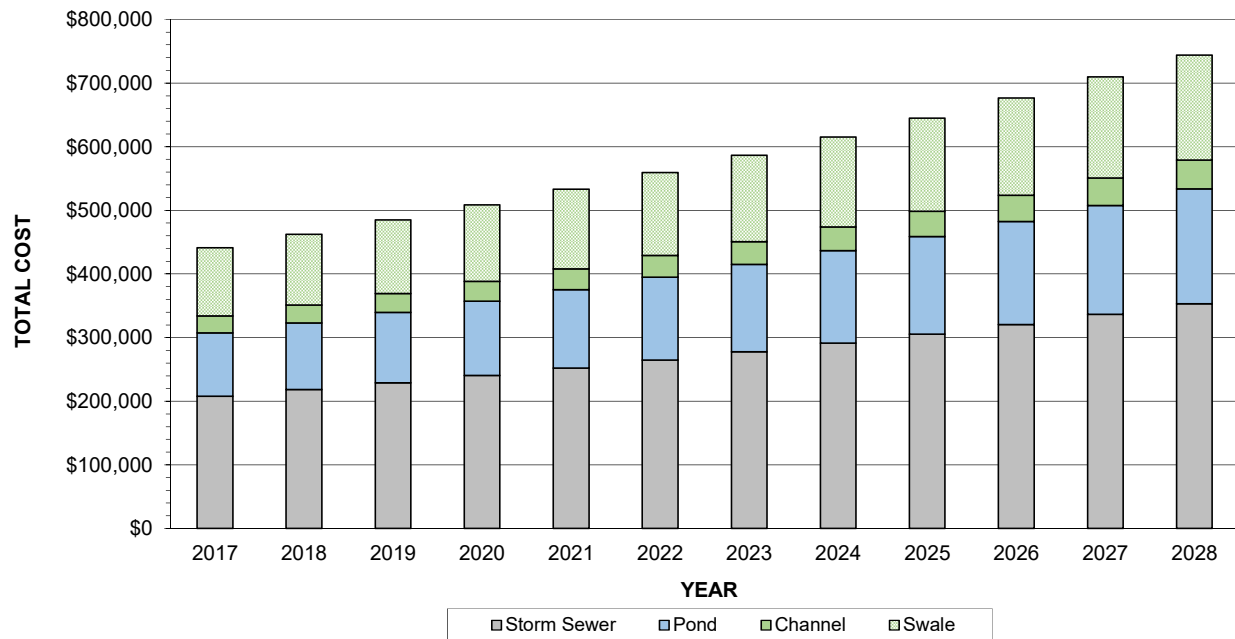




TOWN OF PARKER STORMWATER UTILITY TOTAL COSTS FOR ROUTINE MAINTENANCE ACTIVITIES

YEAR	TOTAL COST				TOTAL COST FOR ROUTINE ACTIVITIES
	COST FOR STORM SEWER ROUTINE MAINTENANCE	COST FOR POND ROUTINE MAINTENANCE	COST FOR CHANNEL ROUTINE MAINTENANCE	COST FOR SWALE ROUTINE MAINTENANCE	
2017	\$207,836	\$99,297	\$26,739	\$106,956	\$440,828
2018	\$218,062	\$104,833	\$28,109	\$111,266	\$462,270
2019	\$228,796	\$110,678	\$29,537	\$115,750	\$484,761
2020	\$240,065	\$116,848	\$31,026	\$120,415	\$508,353
2021	\$251,894	\$123,362	\$32,577	\$125,267	\$533,101
2022	\$264,313	\$130,240	\$34,194	\$130,316	\$559,062
2023	\$277,350	\$137,501	\$35,878	\$135,567	\$586,296
2024	\$291,037	\$145,166	\$37,632	\$141,031	\$614,866
2025	\$305,406	\$153,259	\$39,460	\$146,714	\$644,839
2026	\$320,491	\$161,803	\$41,363	\$152,627	\$676,284
2027	\$336,329	\$170,824	\$43,345	\$158,778	\$709,275
2028	\$352,956	\$180,347	\$45,408	\$165,177	\$743,888

TOWN OF PARKER PROJECTED ROUTINE MAINTENANCE COSTS FOR 2017-2028

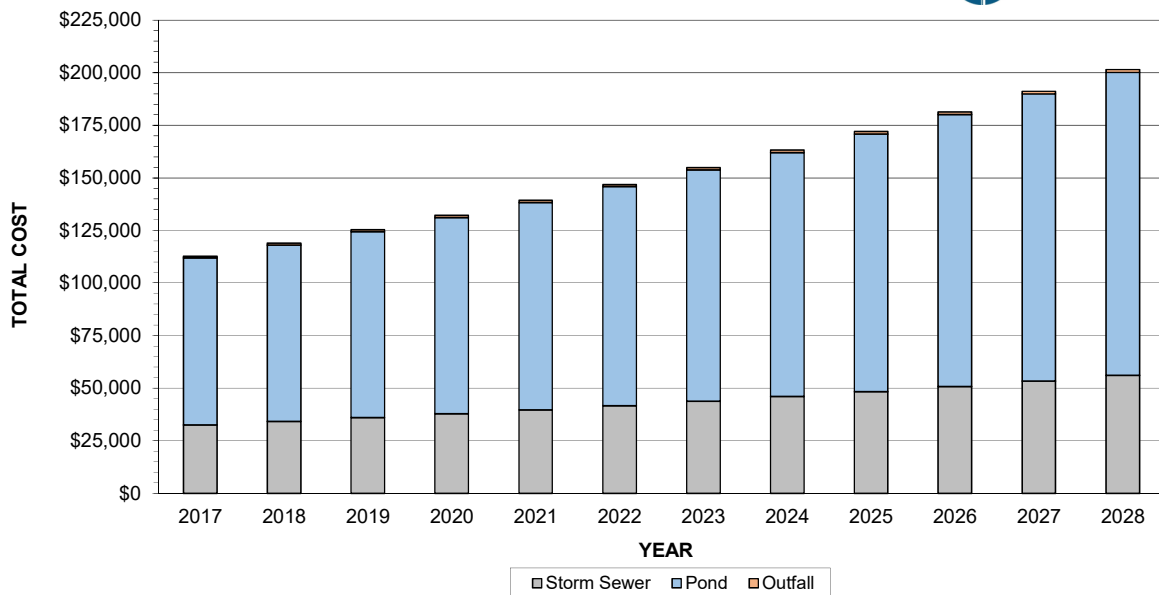




TOWN OF PARKER STORMWATER UTILITY TOTAL COSTS FOR RESTORATION MAINTENANCE ACTIVITIES

YEAR	TOTAL COST			TOTAL COST FOR RESTORATION ACTIVITIES
	COST FOR STORM SEWER RESTORATION MAINTENANCE	COST FOR OUTFALL RESTORATION MAINTENANCE	COST FOR POND RESTORATION MAINTENANCE	
2017	\$32,576	\$803	\$79,351	\$112,730
2018	\$34,225	\$843	\$83,775	\$118,843
2019	\$35,956	\$886	\$88,446	\$125,288
2020	\$37,776	\$931	\$93,376	\$132,083
2021	\$39,687	\$978	\$98,582	\$139,247
2022	\$41,695	\$1,028	\$104,078	\$146,801
2023	\$43,805	\$1,080	\$109,880	\$154,765
2024	\$46,022	\$1,134	\$116,006	\$163,162
2025	\$48,350	\$1,192	\$122,474	\$172,016
2026	\$50,797	\$1,252	\$129,302	\$181,350
2027	\$53,367	\$1,315	\$136,510	\$191,193
2028	\$56,068	\$1,382	\$144,121	\$201,570

TOWN OF PARKER PROJECTED RESTORATION COSTS FOR 2017-2028

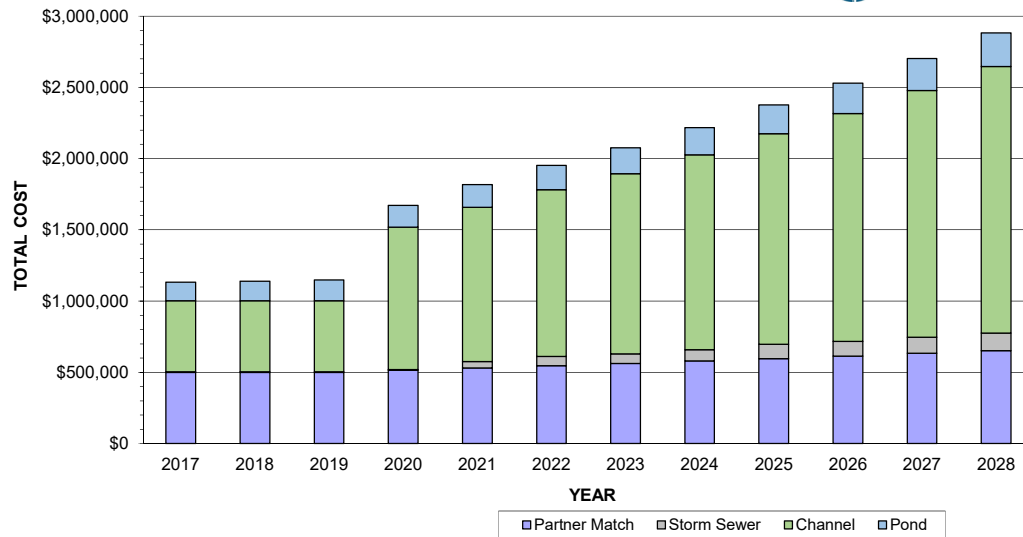




**TOWN OF PARKER STORMWATER UTILITY
TOTAL COSTS FOR REHABILITATION ACTIVITIES**

YEAR	COST FOR STORM SEWER REHABILITATION (REPLACEMENT)	TOTAL COST			PARTNER MATCH (MHFD) FOR CHANNEL REHABILITATION
		COST FOR POND REHABILITATION	COST FOR CHANNEL REHABILITATION	TOTAL COST FOR TOWN OF PARKER REHABILITATION ACTIVITIES	
2017	\$3,292	\$130,000	\$500,000	\$633,292	\$500,000
2018	\$3,391	\$137,248	\$500,000	\$640,638	\$500,000
2019	\$3,492	\$144,899	\$500,000	\$648,391	\$500,000
2020	\$3,597	\$152,977	\$1,000,000	\$1,156,574	\$515,000
2021	\$45,346	\$161,506	\$1,081,500	\$1,288,352	\$530,450
2022	\$64,932	\$170,510	\$1,169,642	\$1,405,084	\$546,364
2023	\$67,275	\$180,015	\$1,264,968	\$1,512,258	\$562,754
2024	\$78,726	\$190,051	\$1,368,063	\$1,636,840	\$579,637
2025	\$99,386	\$200,647	\$1,479,560	\$1,779,593	\$597,026
2026	\$102,367	\$211,833	\$1,600,144	\$1,914,344	\$614,937
2027	\$114,119	\$223,642	\$1,730,556	\$2,068,317	\$633,385
2028	\$122,840	\$236,111	\$1,871,596	\$2,230,547	\$652,387

**TOWN OF PARKER PROJECTED
REHABILITATION COSTS FOR 2017-2028**

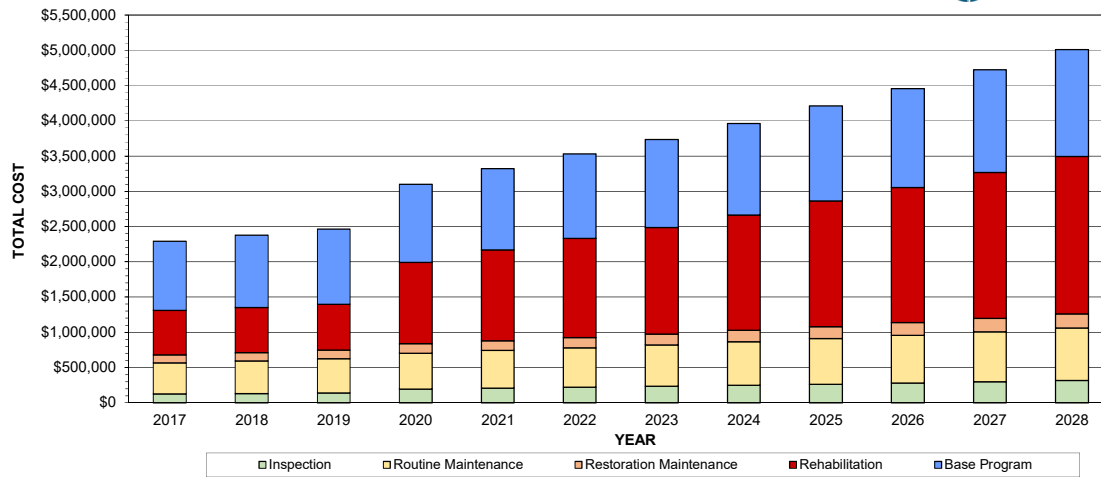




**TOWN OF PARKER STORMWATER UTILITY
GRAND TOTALS**

TOTAL COSTS FOR ALL ACTIVITIES								
YEAR	TOTAL COST FOR INSPECTION	TOTAL COST FOR ROUTINE MAINTENANCE	TOTAL COST FOR RESTORATION MAINTENANCE	TOTAL COST FOR REHABILITATION	PARTNER MATCH (MHFD) FOR CHANNEL REHABILITATION	SUBTOTAL	BASE PROGRAM COSTS	GRAND TOTAL WITH BASE PROGRAM
2017	\$124,694	\$440,828	\$112,730	\$633,292	\$500,000	\$1,811,544	\$980,938	\$2,792,482
2018	\$132,056	\$462,270	\$118,843	\$640,638	\$500,000	\$1,853,807	\$1,021,818	\$2,875,625
2019	\$139,876	\$484,761	\$125,288	\$648,391	\$500,000	\$1,898,317	\$1,063,875	\$2,962,192
2020	\$196,531	\$508,353	\$132,083	\$1,156,574	\$515,000	\$2,508,542	\$1,106,976	\$3,615,518
2021	\$208,527	\$533,101	\$139,247	\$1,288,352	\$530,450	\$2,699,678	\$1,151,704	\$3,851,382
2022	\$221,307	\$559,062	\$146,801	\$1,405,084	\$546,364	\$2,878,618	\$1,198,120	\$4,076,738
2023	\$234,927	\$586,296	\$154,765	\$1,512,258	\$562,754	\$3,051,001	\$1,246,285	\$4,297,286
2024	\$249,446	\$614,866	\$163,162	\$1,636,840	\$579,637	\$3,243,952	\$1,296,261	\$4,540,213
2025	\$264,930	\$644,839	\$172,016	\$1,779,593	\$597,026	\$3,458,404	\$1,348,114	\$4,806,518
2026	\$281,449	\$676,284	\$181,350	\$1,914,344	\$614,937	\$3,668,365	\$1,401,912	\$5,070,276
2027	\$299,076	\$709,275	\$191,193	\$2,068,317	\$633,385	\$3,901,246	\$1,457,724	\$5,358,970
2028	\$317,894	\$743,888	\$201,570	\$2,230,547	\$652,387	\$4,146,286	\$1,515,623	\$5,661,908

**TOWN OF PARKER STORMWATER UTILITY
PROJECTED COSTS FOR 2017-2028**

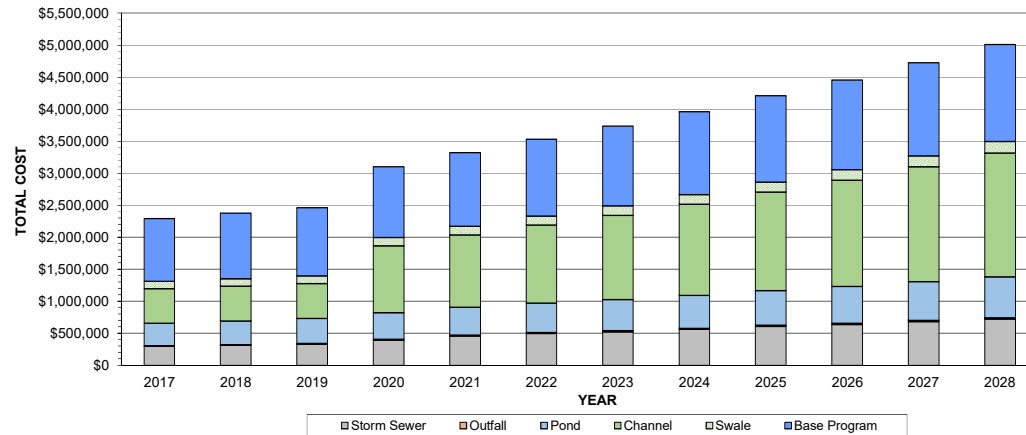




TOWN OF PARKER STORMWATER UTILITY GRAND TOTALS

TOTAL COST FOR ALL									
YEAR	TOTAL COST FOR STORM SEWERS	TOTAL COST FOR OUTFALLS	TOTAL COST FOR PONDS	TOTAL COSTS FOR CHANNELS	TOTAL COSTS FOR SWALES	PARTNER MATCH (MHFD) FOR CHANNEL REHABILITATION	SUBTOTAL	BASE PROGRAM COSTS	GRAND TOTAL WITH BASE PROGRAM
2017	\$296,631	\$11,685	\$349,730	\$538,871	\$114,627	\$500,000	\$1,811,544	\$980,938	\$2,792,482
2018	\$312,010	\$12,414	\$369,275	\$540,863	\$119,246	\$500,000	\$1,853,807	\$1,021,818	\$2,875,625
2019	\$328,222	\$13,191	\$389,913	\$542,939	\$124,052	\$500,000	\$1,898,317	\$1,063,875	\$2,962,192
2020	\$393,662	\$14,022	\$411,704	\$1,045,103	\$129,051	\$515,000	\$2,508,542	\$1,106,976	\$3,615,518
2021	\$456,495	\$14,910	\$434,713	\$1,128,858	\$134,252	\$530,450	\$2,699,678	\$1,151,704	\$3,851,382
2022	\$498,374	\$15,859	\$459,009	\$1,219,350	\$139,662	\$546,364	\$2,878,618	\$1,198,120	\$4,076,738
2023	\$524,295	\$16,874	\$484,663	\$1,317,124	\$145,290	\$562,754	\$3,051,001	\$1,246,285	\$4,297,286
2024	\$560,689	\$17,959	\$511,751	\$1,422,770	\$151,146	\$579,637	\$3,243,952	\$1,296,261	\$4,540,213
2025	\$607,743	\$19,122	\$540,353	\$1,536,923	\$157,237	\$597,026	\$3,458,404	\$1,348,114	\$4,806,518
2026	\$638,660	\$20,366	\$570,554	\$1,660,274	\$163,573	\$614,937	\$3,668,365	\$1,401,912	\$5,070,276
2027	\$679,987	\$21,698	\$602,443	\$1,793,567	\$170,165	\$633,385	\$3,901,246	\$1,457,724	\$5,358,970
2028	\$720,027	\$23,126	\$636,116	\$1,937,607	\$177,023	\$652,387	\$4,146,286	\$1,515,623	\$5,661,908

TOWN OF PARKER STORMWATER UTILITY
PROJECTED COSTS FOR 2017-2028



Appendix G

Stormwater Utility Fund Annual Distribution Spreadsheets – 2017 through 2028

TOWN OF PARKER STORMWATER UTILITY
2017 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2017 Rates
Seasonal Staff Hourly Rate = \$14
Seasonal Staff Daily Rate (8 hours/day) = \$113
Field Crew Hourly Rate = \$33
Field Crew Daily Rate (8 hours/day)= \$264
Office Staff Hourly Rate = \$34
Office Staff Daily Rate (8 hours/day)= \$271
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2017 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					49	10	38	15	10	85	31	15	60	12	1	45	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					122	25	94	38	20	298	155	60	240	60	1	135	1,247
PERCENT OF FIELD CREW TIME					10%	2%	8%	3%	2%	24%	12%	5%	19%	5%	0%	11%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	85	31	6	25	12	0	5	164
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	19%	4%	15%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$32,099	\$6,600	\$24,915	\$9,900	\$5,280	\$78,540	\$40,830	\$15,840	\$63,360	\$15,840	\$330	\$35,640	\$329,174
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$9,597	\$3,492	\$706	\$2,823	\$1,355	\$0	\$508	\$18,481
OFFICE STAFF EQUIVALENT DAYS/YEAR	746																
ANNUAL COST FOR OFFICE STAFF	\$202,189																
ANNUAL COST FOR PURCHASED SERVICES	\$517,495																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$719,684																
+ CONTINGENCY	\$71,968																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$791,652																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$32,099	\$6,600	\$24,915	\$9,900	\$5,280	\$88,137	\$44,323	\$16,546	\$66,183	\$17,195	\$330	\$36,148	\$347,655
+ CONTINGENCY					\$3,210	\$660	\$2,492	\$990	\$528	\$8,814	\$4,432	\$1,655	\$6,618	\$1,719	\$33	\$3,615	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$35,309	\$7,260	\$27,407	\$10,890	\$5,808	\$96,951	\$48,755	\$18,200	\$72,801	\$18,914	\$363	\$39,763	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$791,652				\$35,309	\$7,260	\$27,407	\$10,890	\$5,808	\$96,951	\$48,755	\$18,200	\$72,801	\$18,914	\$363	\$39,763	\$1,174,073
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$329	\$329	\$329	\$75	\$169	\$1,035	\$565	\$517	\$517	\$1,035	\$800	\$800	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$172,078				\$16,016	\$3,293	\$12,432	\$1,129	\$1,694	\$87,974	\$17,462	\$7,762	\$31,050	\$12,420	\$400	\$35,989	
+ CONTINGENCY	\$17,208				\$1,602	\$329	\$1,243	\$113	\$169	\$8,797	\$1,746	\$776	\$3,105	\$1,242	\$40	\$3,599	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$189,286	\$0	\$0	\$0	\$17,618	\$3,622	\$13,675	\$1,242	\$1,863	\$96,772	\$19,209	\$8,539	\$34,155	\$13,662	\$440	\$39,588	\$439,669
WORK CONTRACTED		\$3,292	\$130,000	\$500,000						\$14,114	\$31,334						\$678,739
TOTALS (TOWN)	\$980,938	\$3,292	\$130,000	\$500,000	\$52,927	\$10,882	\$41,081	\$12,132	\$7,671	\$207,836	\$99,297	\$26,739	\$106,956	\$32,576	\$803	\$79,351	\$2,292,482
MHFD CONTRIBUTION				\$500,000													\$500,000
TOTAL (TOWN AND MHFD)	\$980,938	\$3,292	\$130,000	\$1,000,000	\$52,927	\$10,882	\$41,081	\$12,132	\$7,671	\$207,836	\$99,297	\$26,739	\$106,956	\$32,576	\$803	\$79,351	\$2,792,482

TOWN OF PARKER STORMWATER UTILITY
2018 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2018 Rates
Seasonal Staff Hourly Rate = \$15
Seasonal Staff Daily Rate (8 hours/day) = \$116
Field Crew Hourly Rate = \$34
Field Crew Daily Rate (8 hours/day)= \$272
Office Staff Hourly Rate = \$35
Office Staff Daily Rate (8 hours/day)= \$279
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2018 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					50	10	39	15	10	87	32	15	61	12	1	46	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					126	26	97	38	20	303	159	61	242	61	1	138	1,273
PERCENT OF FIELD CREW TIME					10%	2%	8%	3%	2%	24%	12%	5%	19%	5%	0%	11%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	87	32	6	25	12	0	5	167
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	19%	4%	15%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$34,165	\$7,017	\$26,333	\$10,407	\$5,493	\$82,514	\$43,106	\$16,652	\$65,913	\$16,642	\$347	\$37,627	\$346,215
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$10,083	\$3,687	\$742	\$2,936	\$1,423	\$0	\$536	\$19,408
OFFICE STAFF EQUIVALENT DAYS/YEAR	780																
ANNUAL COST FOR OFFICE STAFF	\$218,026																
ANNUAL COST FOR PURCHASED SERVICES	\$533,500																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$751,526																
+ CONTINGENCY	\$75,153																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$826,678																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$34,165	\$7,017	\$26,333	\$10,407	\$5,493	\$92,597	\$46,794	\$17,393	\$68,850	\$18,065	\$347	\$38,163	\$365,623
+ CONTINGENCY					\$3,416	\$702	\$2,633	\$1,041	\$549	\$9,260	\$4,679	\$1,739	\$6,885	\$1,806	\$35	\$3,816	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$37,581	\$7,719	\$28,966	\$11,448	\$6,042	\$101,857	\$51,473	\$19,133	\$75,735	\$19,871	\$381	\$41,980	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$826,678				\$37,581	\$7,719	\$28,966	\$11,448	\$6,042	\$101,857	\$51,473	\$19,133	\$75,735	\$19,871	\$381	\$41,980	\$1,228,864
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$339	\$339	\$339	\$78	\$174	\$1,066	\$581	\$533	\$533	\$1,066	\$824	\$824	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$177,400				\$17,047	\$3,501	\$13,139	\$1,187	\$1,762	\$92,426	\$18,436	\$8,160	\$32,301	\$13,048	\$420	\$37,996	
+ CONTINGENCY	\$17,740				\$1,705	\$350	\$1,314	\$119	\$176	\$9,243	\$1,844	\$816	\$3,230	\$1,305	\$42	\$3,800	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$195,140	\$0	\$0	\$0	\$18,752	\$3,851	\$14,453	\$1,306	\$1,938	\$101,668	\$20,279	\$8,976	\$35,531	\$14,353	\$462	\$41,795	\$458,505
WORK CONTRACTED		\$3,391	\$137,248	\$500,000						\$14,537	\$33,081						\$688,256
TOTALS (TOWN)	\$1,021,818	\$3,391	\$137,248	\$500,000	\$56,333	\$11,570	\$43,419	\$12,754	\$7,980	\$218,062	\$104,833	\$28,109	\$111,266	\$34,225	\$843	\$83,775	\$2,375,625
MHFD CONTRIBUTION				\$500,000													\$500,000
TOTAL (TOWN AND MHFD)	\$1,021,818	\$3,391	\$137,248	\$1,000,000	\$56,333	\$11,570	\$43,419	\$12,754	\$7,980	\$218,062	\$104,833	\$28,109	\$111,266	\$34,225	\$843	\$83,775	\$2,875,625

TOWN OF PARKER STORMWATER UTILITY
2019 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2019 Rates
Seasonal Staff Hourly Rate = \$15
Seasonal Staff Daily Rate (8 hours/day) = \$120
Field Crew Hourly Rate = \$35
Field Crew Daily Rate (8 hours/day)= \$280
Office Staff Hourly Rate = \$36
Office Staff Daily Rate (8 hours/day)= \$288
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2019 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					52	11	40	16	10	88	32	16	61	12	1	47	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					130	27	99	39	20	310	162	62	245	62	1	142	1,300
PERCENT OF FIELD CREW TIME					10%	2%	8%	3%	2%	24%	12%	5%	19%	5%	0%	11%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	88	32	7	26	12	0	5	170
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	19%	4%	15%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$36,375	\$7,463	\$27,832	\$10,936	\$5,714	\$86,689	\$45,510	\$17,498	\$68,570	\$17,484	\$364	\$39,725	\$364,158
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$10,593	\$3,893	\$780	\$3,055	\$1,495	\$0	\$566	\$20,382
OFFICE STAFF EQUIVALENT DAYS/YEAR	814																
ANNUAL COST FOR OFFICE STAFF	\$234,437																
ANNUAL COST FOR PURCHASED SERVICES	\$550,000																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$784,437																
+ CONTINGENCY	\$78,444																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$862,881																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$36,375	\$7,463	\$27,832	\$10,936	\$5,714	\$97,282	\$49,402	\$18,277	\$71,625	\$18,979	\$364	\$40,291	\$384,540
+ CONTINGENCY					\$3,638	\$746	\$2,783	\$1,094	\$571	\$9,728	\$4,940	\$1,828	\$7,162	\$1,898	\$36	\$4,029	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$40,013	\$8,209	\$30,615	\$12,030	\$6,286	\$107,011	\$54,342	\$20,105	\$78,787	\$20,877	\$401	\$44,320	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$862,881				\$40,013	\$8,209	\$30,615	\$12,030	\$6,286	\$107,011	\$54,342	\$20,105	\$78,787	\$20,877	\$401	\$44,320	\$1,285,876
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$349	\$349	\$349	\$80	\$180	\$1,098	\$599	\$549	\$549	\$1,098	\$848	\$848	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$182,722				\$18,150	\$3,724	\$13,887	\$1,247	\$1,833	\$97,102	\$19,464	\$8,575	\$33,603	\$13,709	\$441	\$40,114	
+ CONTINGENCY	\$18,272				\$1,815	\$372	\$1,389	\$125	\$183	\$9,710	\$1,946	\$857	\$3,360	\$1,371	\$44	\$4,011	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$200,994	\$0	\$0	\$0	\$19,965	\$4,096	\$15,276	\$1,372	\$2,016	\$106,813	\$21,410	\$9,432	\$36,963	\$15,079	\$486	\$44,126	\$478,027
WORK CONTRACTED		\$3,492	\$144,899	\$500,000						\$14,973	\$34,925						\$698,290
TOTALS (TOWN)	\$1,063,875	\$3,492	\$144,899	\$500,000	\$59,978	\$12,305	\$45,890	\$13,402	\$8,302	\$228,796	\$110,678	\$29,537	\$115,750	\$35,956	\$886	\$88,446	\$2,462,192
MHFD CONTRIBUTION				\$500,000													\$500,000
TOTAL (TOWN AND MHFD)	\$1,063,875	\$3,492	\$144,899	\$1,000,000	\$59,978	\$12,305	\$45,890	\$13,402	\$8,302	\$228,796	\$110,678	\$29,537	\$115,750	\$35,956	\$886	\$88,446	\$2,962,192

TOWN OF PARKER STORMWATER UTILITY
2020 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2020 Rates
Seasonal Staff Hourly Rate = \$15
Seasonal Staff Daily Rate (8 hours/day) = \$123
Field Crew Hourly Rate = \$36
Field Crew Daily Rate (8 hours/day)= \$288
Office Staff Hourly Rate = \$37
Office Staff Daily Rate (8 hours/day)= \$296
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2020 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					83	11	41	16	10	90	33	16	62	13	1	48	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					250	28	102	40	21	316	167	64	247	64	1	145	1,443
PERCENT OF FIELD CREW TIME					17%	2%	7%	3%	1%	22%	12%	4%	17%	4%	0%	10%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	90	33	7	26	13	0	5	173
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	19%	4%	15%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$72,060	\$7,939	\$29,416	\$11,487	\$5,944	\$91,076	\$48,047	\$18,380	\$71,333	\$18,368	\$383	\$41,939	\$416,372
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$11,129	\$4,110	\$819	\$3,178	\$1,571	\$0	\$598	\$21,404
OFFICE STAFF EQUIVALENT DAYS/YEAR	849																
ANNUAL COST FOR OFFICE STAFF	\$251,638																
ANNUAL COST FOR PURCHASED SERVICES	\$566,500																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$818,138																
+ CONTINGENCY	\$81,814																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$899,951																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$72,060	\$7,939	\$29,416	\$11,487	\$5,944	\$102,205	\$52,156	\$19,198	\$74,511	\$19,939	\$383	\$42,537	\$437,776
+ CONTINGENCY					\$7,206	\$794	\$2,942	\$1,149	\$594	\$10,220	\$5,216	\$1,920	\$7,451	\$1,994	\$38	\$4,254	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$79,266	\$8,733	\$32,357	\$12,636	\$6,539	\$112,425	\$57,372	\$21,118	\$81,962	\$21,933	\$421	\$46,791	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$899,951				\$79,266	\$8,733	\$32,357	\$12,636	\$6,539	\$112,425	\$57,372	\$21,118	\$81,962	\$21,933	\$421	\$46,791	\$1,381,506
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$360	\$360	\$360	\$82	\$185	\$1,131	\$617	\$565	\$565	\$1,131	\$874	\$874	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$188,204				\$29,963	\$3,961	\$14,677	\$1,310	\$1,907	\$102,016	\$20,549	\$9,007	\$34,957	\$14,402	\$464	\$42,350	
+ CONTINGENCY	\$18,820				\$2,996	\$396	\$1,468	\$131	\$191	\$10,202	\$2,055	\$901	\$3,496	\$1,440	\$46	\$4,235	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$207,024	\$0	\$0	\$0	\$32,959	\$4,358	\$16,145	\$1,441	\$2,097	\$112,217	\$22,604	\$9,908	\$38,453	\$15,842	\$510	\$46,586	\$510,143
WORK CONTRACTED		\$3,597	\$152,977	\$1,000,000						\$15,422	\$36,872						\$1,208,869
TOTALS (TOWN)	\$1,106,976	\$3,597	\$152,977	\$1,000,000	\$112,225	\$13,091	\$48,502	\$14,077	\$8,636	\$240,065	\$116,848	\$31,026	\$120,415	\$37,776	\$931	\$93,376	\$3,100,518
MHFD CONTRIBUTION				\$515,000													\$515,000
TOTAL (TOWN AND MHFD)	\$1,106,976	\$3,597	\$152,977	\$1,515,000	\$112,225	\$13,091	\$48,502	\$14,077	\$8,636	\$240,065	\$116,848	\$31,026	\$120,415	\$37,776	\$931	\$93,376	\$3,615,518

TOWN OF PARKER STORMWATER UTILITY
2021 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2021 Rates
Seasonal Staff Hourly Rate = \$16
Seasonal Staff Daily Rate (8 hours/day) = \$127
Field Crew Hourly Rate = \$37
Field Crew Daily Rate (8 hours/day)= \$297
Office Staff Hourly Rate = \$38
Office Staff Daily Rate (8 hours/day)= \$305
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2021 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					86	11	42	16	10	92	34	16	62	13	1	50	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					258	28	105	41	21	322	171	65	250	65	1	149	1,476
PERCENT OF FIELD CREW TIME					18%	2%	7%	3%	1%	22%	12%	4%	17%	4%	0%	10%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	92	34	7	26	13	0	5	177
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	19%	4%	15%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$76,774	\$8,449	\$31,090	\$12,062	\$6,184	\$95,684	\$50,725	\$19,299	\$74,208	\$19,298	\$402	\$44,277	\$438,452
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$11,692	\$4,339	\$860	\$3,306	\$1,651	\$0	\$631	\$22,479
OFFICE STAFF EQUIVALENT DAYS/YEAR	883																
ANNUAL COST FOR OFFICE STAFF	\$269,659																
ANNUAL COST FOR PURCHASED SERVICES	\$583,495																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$853,154																
+ CONTINGENCY	\$85,315																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$938,469																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$76,774	\$8,449	\$31,090	\$12,062	\$6,184	\$107,376	\$55,064	\$20,158	\$77,514	\$20,948	\$402	\$44,909	\$460,931
+ CONTINGENCY					\$7,677	\$845	\$3,109	\$1,206	\$618	\$10,738	\$5,506	\$2,016	\$7,751	\$2,095	\$40	\$4,491	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$84,452	\$9,294	\$34,199	\$13,268	\$6,802	\$118,114	\$60,571	\$22,174	\$85,265	\$23,043	\$442	\$49,399	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$938,469				\$84,452	\$9,294	\$34,199	\$13,268	\$6,802	\$118,114	\$60,571	\$22,174	\$85,265	\$23,043	\$442	\$49,399	\$1,445,493
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$371	\$371	\$371	\$85	\$191	\$1,165	\$635	\$582	\$582	\$1,165	\$900	\$900	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$193,850				\$31,923	\$4,216	\$15,513	\$1,376	\$1,984	\$107,178	\$21,694	\$9,457	\$36,366	\$15,131	\$487	\$44,712	
+ CONTINGENCY	\$19,385				\$3,192	\$422	\$1,551	\$138	\$198	\$10,718	\$2,169	\$946	\$3,637	\$1,513	\$49	\$4,471	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$213,235	\$0	\$0	\$0	\$35,115	\$4,637	\$17,064	\$1,513	\$2,182	\$117,896	\$23,864	\$10,403	\$40,002	\$16,644	\$536	\$49,183	\$532,274
WORK CONTRACTED		\$45,346	\$161,506	\$1,081,500						\$15,885	\$38,928						\$1,343,165
TOTALS (TOWN)	\$1,151,704	\$45,346	\$161,506	\$1,081,500	\$119,567	\$13,932	\$51,263	\$14,781	\$8,984	\$251,894	\$123,362	\$32,577	\$125,267	\$39,687	\$978	\$98,582	\$3,320,932
MHFD CONTRIBUTION				\$530,450													\$530,450
TOTAL (TOWN AND MHFD)	\$1,151,704	\$45,346	\$161,506	\$1,611,950	\$119,567	\$13,932	\$51,263	\$14,781	\$8,984	\$251,894	\$123,362	\$32,577	\$125,267	\$39,687	\$978	\$98,582	\$3,851,382

TOWN OF PARKER STORMWATER UTILITY
2022 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2022 Rates
Seasonal Staff Hourly Rate = \$16
Seasonal Staff Daily Rate (8 hours/day) = \$131
Field Crew Hourly Rate = \$38
Field Crew Daily Rate (8 hours/day)= \$306
Office Staff Hourly Rate = \$39
Office Staff Daily Rate (8 hours/day)= \$314
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2022 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					89	12	43	17	11	94	35	17	63	13	1	51	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					267	29	107	41	21	328	175	66	252	66	1	153	1,509
PERCENT OF FIELD CREW TIME					18%	2%	7%	3%	1%	22%	12%	4%	17%	4%	0%	10%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	94	35	7	26	13	0	5	180
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	19%	4%	15%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$81,825	\$8,995	\$32,860	\$12,660	\$6,433	\$100,526	\$53,553	\$20,256	\$77,198	\$20,274	\$422	\$46,746	\$461,750
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$12,284	\$4,581	\$902	\$3,439	\$1,734	\$0	\$666	\$23,607
OFFICE STAFF EQUIVALENT DAYS/YEAR	917																
ANNUAL COST FOR OFFICE STAFF	\$288,535																
ANNUAL COST FOR PURCHASED SERVICES	\$601,000																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$889,535																
+ CONTINGENCY	\$88,954																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$978,489																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$81,825	\$8,995	\$32,860	\$12,660	\$6,433	\$112,810	\$58,134	\$21,159	\$80,638	\$22,008	\$422	\$47,412	\$485,356
+ CONTINGENCY					\$8,183	\$899	\$3,286	\$1,266	\$643	\$11,281	\$5,813	\$2,116	\$8,064	\$2,201	\$42	\$4,741	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$90,008	\$9,894	\$36,146	\$13,926	\$7,077	\$124,091	\$63,947	\$23,274	\$88,701	\$24,209	\$465	\$52,153	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$978,489				\$90,008	\$9,894	\$36,146	\$13,926	\$7,077	\$124,091	\$63,947	\$23,274	\$88,701	\$24,209	\$465	\$52,153	\$1,512,380
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$382	\$382	\$382	\$87	\$196	\$1,200	\$654	\$600	\$600	\$1,200	\$927	\$927	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$199,665				\$34,023	\$4,488	\$16,396	\$1,444	\$2,064	\$112,601	\$22,904	\$9,927	\$37,831	\$15,897	\$512	\$47,204	
+ CONTINGENCY	\$19,967				\$3,402	\$449	\$1,640	\$144	\$206	\$11,260	\$2,290	\$993	\$3,783	\$1,590	\$51	\$4,720	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$219,632	\$0	\$0	\$0	\$37,426	\$4,937	\$18,036	\$1,588	\$2,270	\$123,861	\$25,194	\$10,919	\$41,614	\$17,486	\$563	\$51,925	\$555,450
WORK CONTRACTED		\$64,932	\$170,510	\$1,169,642						\$16,361	\$41,098						\$1,462,544
TOTALS (TOWN)	\$1,198,120	\$64,932	\$170,510	\$1,169,642	\$127,434	\$14,831	\$54,182	\$15,514	\$9,346	\$264,313	\$130,240	\$34,194	\$130,316	\$41,695	\$1,028	\$104,078	\$3,530,375
MHFD CONTRIBUTION				\$546,364													\$546,364
TOTAL (TOWN AND MHFD)	\$1,198,120	\$64,932	\$170,510	\$1,716,006	\$127,434	\$14,831	\$54,182	\$15,514	\$9,346	\$264,313	\$130,240	\$34,194	\$130,316	\$41,695	\$1,028	\$104,078	\$4,076,738

TOWN OF PARKER STORMWATER UTILITY
2023 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2023 Rates
Seasonal Staff Hourly Rate = \$17
Seasonal Staff Daily Rate (8 hours/day) = \$135
Field Crew Hourly Rate = \$39
Field Crew Daily Rate (8 hours/day)= \$315
Office Staff Hourly Rate = \$40
Office Staff Daily Rate (8 hours/day)= \$324
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2023 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					92	12	44	17	11	96	36	17	64	14	1	52	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					277	30	110	42	21	335	179	67	255	68	1	157	1,543
PERCENT OF FIELD CREW TIME					18%	2%	7%	3%	1%	22%	12%	4%	17%	4%	0%	10%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	96	36	7	27	14	0	5	184
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	20%	4%	14%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$87,239	\$9,579	\$34,731	\$13,284	\$6,692	\$105,612	\$56,539	\$21,254	\$80,309	\$21,300	\$444	\$49,352	\$486,335
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$12,905	\$4,836	\$947	\$3,578	\$1,822	\$0	\$704	\$24,792
OFFICE STAFF EQUIVALENT DAYS/YEAR	951																
ANNUAL COST FOR OFFICE STAFF	\$308,301																
ANNUAL COST FOR PURCHASED SERVICES	\$619,030																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$927,331																
+ CONTINGENCY	\$92,733																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$1,020,064																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$87,239	\$9,579	\$34,731	\$13,284	\$6,692	\$118,518	\$61,375	\$22,201	\$83,887	\$23,122	\$444	\$50,056	\$511,127
+ CONTINGENCY					\$8,724	\$958	\$3,473	\$1,328	\$669	\$11,852	\$6,137	\$2,220	\$8,389	\$2,312	\$44	\$5,006	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$95,963	\$10,537	\$38,204	\$14,612	\$7,362	\$130,370	\$67,512	\$24,421	\$92,276	\$25,434	\$488	\$55,061	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$1,020,064				\$95,963	\$10,537	\$38,204	\$14,612	\$7,362	\$130,370	\$67,512	\$24,421	\$92,276	\$25,434	\$488	\$55,061	\$1,582,304
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$393	\$393	\$393	\$90	\$202	\$1,236	\$674	\$618	\$618	\$1,236	\$955	\$955	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$205,655				\$36,274	\$4,779	\$17,329	\$1,515	\$2,147	\$118,299	\$24,181	\$10,415	\$39,356	\$16,701	\$538	\$49,836	
+ CONTINGENCY	\$20,566				\$3,627	\$478	\$1,733	\$151	\$215	\$11,830	\$2,418	\$1,042	\$3,936	\$1,670	\$54	\$4,984	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$226,221	\$0	\$0	\$0	\$39,902	\$5,257	\$19,062	\$1,666	\$2,361	\$130,128	\$26,599	\$11,457	\$43,291	\$18,371	\$591	\$54,819	\$579,727
WORK CONTRACTED		\$67,275	\$180,015	\$1,264,968						\$16,852	\$43,389						\$1,572,500
TOTALS (TOWN)	\$1,246,285	\$67,275	\$180,015	\$1,264,968	\$135,865	\$15,794	\$57,266	\$16,278	\$9,723	\$277,350	\$137,501	\$35,878	\$135,567	\$43,805	\$1,080	\$109,880	\$3,734,531
MHFD CONTRIBUTION				\$562,754													\$562,754
TOTAL (TOWN AND MHFD)	\$1,246,285	\$67,275	\$180,015	\$1,827,722	\$135,865	\$15,794	\$57,266	\$16,278	\$9,723	\$277,350	\$137,501	\$35,878	\$135,567	\$43,805	\$1,080	\$109,880	\$4,297,286

TOWN OF PARKER STORMWATER UTILITY
2024 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2024 Rates
Seasonal Staff Hourly Rate = \$17
Seasonal Staff Daily Rate (8 hours/day) = \$139
Field Crew Hourly Rate = \$41
Field Crew Daily Rate (8 hours/day)= \$325
Office Staff Hourly Rate = \$42
Office Staff Daily Rate (8 hours/day)= \$333
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2024 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					96	13	45	17	11	98	37	17	64	14	1	53	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					287	31	113	43	21	342	184	69	257	69	1	160	1,578
PERCENT OF FIELD CREW TIME					18%	2%	7%	3%	1%	22%	12%	4%	16%	4%	0%	10%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	98	37	7	27	14	0	5	187
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	20%	4%	14%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$93,044	\$10,204	\$36,708	\$13,933	\$6,962	\$110,956	\$59,691	\$22,293	\$83,546	\$22,378	\$466	\$52,103	\$512,285
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$13,558	\$5,106	\$993	\$3,722	\$1,914	\$0	\$743	\$26,036
OFFICE STAFF EQUIVALENT DAYS/YEAR	986																
ANNUAL COST FOR OFFICE STAFF	\$328,993																
ANNUAL COST FOR PURCHASED SERVICES	\$637,601																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$966,594																
+ CONTINGENCY	\$96,659																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$1,063,254																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$93,044	\$10,204	\$36,708	\$13,933	\$6,962	\$124,515	\$64,797	\$23,286	\$87,268	\$24,292	\$466	\$52,846	\$538,322
+ CONTINGENCY					\$9,304	\$1,020	\$3,671	\$1,393	\$696	\$12,451	\$6,480	\$2,329	\$8,727	\$2,429	\$47	\$5,285	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$102,348	\$11,225	\$40,379	\$15,327	\$7,658	\$136,966	\$71,276	\$25,615	\$95,995	\$26,721	\$513	\$58,131	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$1,063,254				\$102,348	\$11,225	\$40,379	\$15,327	\$7,658	\$136,966	\$71,276	\$25,615	\$95,995	\$26,721	\$513	\$58,131	\$1,655,407
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$405	\$405	\$405	\$93	\$208	\$1,273	\$694	\$636	\$636	\$1,273	\$984	\$984	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$211,825				\$38,688	\$5,091	\$18,316	\$1,589	\$2,233	\$124,284	\$25,529	\$10,925	\$40,942	\$17,546	\$565	\$52,614	
+ CONTINGENCY	\$21,182				\$3,869	\$509	\$1,832	\$159	\$223	\$12,428	\$2,553	\$1,092	\$4,094	\$1,755	\$56	\$5,261	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$233,007	\$0	\$0	\$0	\$42,557	\$5,601	\$20,148	\$1,748	\$2,457	\$136,713	\$28,082	\$12,017	\$45,036	\$19,301	\$621	\$57,876	\$605,162
WORK CONTRACTED		\$78,726	\$190,051	\$1,368,063						\$17,358	\$45,808						\$1,700,006
TOTALS (TOWN)	\$1,296,261	\$78,726	\$190,051	\$1,368,063	\$144,905	\$16,825	\$60,527	\$17,075	\$10,115	\$291,037	\$145,166	\$37,632	\$141,031	\$46,022	\$1,134	\$116,006	\$3,960,576
MHFD CONTRIBUTION				\$579,637													\$579,637
TOTAL (TOWN AND MHFD)	\$1,296,261	\$78,726	\$190,051	\$1,947,700	\$144,905	\$16,825	\$60,527	\$17,075	\$10,115	\$291,037	\$145,166	\$37,632	\$141,031	\$46,022	\$1,134	\$116,006	\$4,540,213

TOWN OF PARKER STORMWATER UTILITY
2025 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2025 Rates
Seasonal Staff Hourly Rate = \$18
Seasonal Staff Daily Rate (8 hours/day) = \$143
Field Crew Hourly Rate = \$42
Field Crew Daily Rate (8 hours/day)= \$334
Office Staff Hourly Rate = \$43
Office Staff Daily Rate (8 hours/day)= \$343
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2025 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					99	13	46	17	11	100	38	17	65	14	1	55	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					297	33	116	44	22	349	188	70	260	70	1	164	1,614
PERCENT OF FIELD CREW TIME					18%	2%	7%	3%	1%	22%	12%	4%	16%	4%	0%	10%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	100	38	7	27	14	0	5	191
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	20%	4%	14%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$99,270	\$10,874	\$38,798	\$14,610	\$7,243	\$116,571	\$63,019	\$23,376	\$86,913	\$23,510	\$490	\$55,008	\$539,681
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$14,244	\$5,390	\$1,041	\$3,872	\$2,011	\$0	\$784	\$27,343
OFFICE STAFF EQUIVALENT DAYS/YEAR	1020																
ANNUAL COST FOR OFFICE STAFF	\$350,650																
ANNUAL COST FOR PURCHASED SERVICES	\$656,729																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$1,007,379																
+ CONTINGENCY	\$100,738																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$1,108,116																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$99,270	\$10,874	\$38,798	\$14,610	\$7,243	\$130,815	\$68,409	\$24,417	\$90,785	\$25,521	\$490	\$55,792	\$567,024
+ CONTINGENCY					\$9,927	\$1,087	\$3,880	\$1,461	\$724	\$13,082	\$6,841	\$2,442	\$9,078	\$2,552	\$49	\$5,579	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$109,197	\$11,962	\$42,678	\$16,071	\$7,967	\$143,897	\$75,250	\$26,859	\$99,863	\$28,073	\$539	\$61,371	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$1,108,116				\$109,197	\$11,962	\$42,678	\$16,071	\$7,967	\$143,897	\$75,250	\$26,859	\$99,863	\$28,073	\$539	\$61,371	\$1,731,843
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$417	\$417	\$417	\$95	\$215	\$1,311	\$715	\$656	\$656	\$1,311	\$1,013	\$1,013	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$218,180				\$41,277	\$5,426	\$19,359	\$1,666	\$2,323	\$130,573	\$26,952	\$11,455	\$42,592	\$18,434	\$594	\$55,547	
+ CONTINGENCY	\$21,818				\$4,128	\$543	\$1,936	\$167	\$232	\$13,057	\$2,695	\$1,146	\$4,259	\$1,843	\$59	\$5,555	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$239,998	\$0	\$0	\$0	\$45,404	\$5,968	\$21,295	\$1,833	\$2,556	\$143,631	\$29,647	\$12,601	\$46,851	\$20,277	\$653	\$61,102	\$631,815
WORK CONTRACTED		\$99,386	\$200,647	\$1,479,560						\$17,879	\$48,362						\$1,845,833
TOTALS (TOWN)	\$1,348,114	\$99,386	\$200,647	\$1,479,560	\$154,601	\$17,930	\$63,973	\$17,904	\$10,523	\$305,406	\$153,259	\$39,460	\$146,714	\$48,350	\$1,192	\$122,474	\$4,209,492
MHFD CONTRIBUTION				\$597,026													\$597,026
TOTAL (TOWN AND MHFD)	\$1,348,114	\$99,386	\$200,647	\$2,076,586	\$154,601	\$17,930	\$63,973	\$17,904	\$10,523	\$305,406	\$153,259	\$39,460	\$146,714	\$48,350	\$1,192	\$122,474	\$4,806,518

TOWN OF PARKER STORMWATER UTILITY
2026 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2026 Rates
Seasonal Staff Hourly Rate = \$18
Seasonal Staff Daily Rate (8 hours/day) = \$147
Field Crew Hourly Rate = \$43
Field Crew Daily Rate (8 hours/day)= \$344
Office Staff Hourly Rate = \$44
Office Staff Daily Rate (8 hours/day)= \$354
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2026 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					103	13	48	18	11	102	39	18	66	14	1	56	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					308	34	119	44	22	356	193	71	262	72	1	169	1,651
PERCENT OF FIELD CREW TIME					19%	2%	7%	3%	1%	22%	12%	4%	16%	4%	0%	10%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	102	39	7	27	14	0	6	195
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	20%	4%	14%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$105,950	\$11,592	\$41,008	\$15,314	\$7,535	\$122,469	\$66,532	\$24,503	\$90,415	\$24,700	\$515	\$58,075	\$568,608
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$14,965	\$5,691	\$1,092	\$4,028	\$2,113	\$0	\$828	\$28,716
OFFICE STAFF EQUIVALENT DAYS/YEAR	1054																
ANNUAL COST FOR OFFICE STAFF	\$373,309																
ANNUAL COST FOR PURCHASED SERVICES	\$676,431																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$1,049,740																
+ CONTINGENCY	\$104,974																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$1,154,714																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$105,950	\$11,592	\$41,008	\$15,314	\$7,535	\$137,434	\$72,223	\$25,595	\$94,443	\$26,812	\$515	\$58,903	\$597,324
+ CONTINGENCY					\$10,595	\$1,159	\$4,101	\$1,531	\$753	\$13,743	\$7,222	\$2,559	\$9,444	\$2,681	\$51	\$5,890	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$116,545	\$12,751	\$45,109	\$16,846	\$8,288	\$151,178	\$79,445	\$28,154	\$103,888	\$29,494	\$566	\$64,793	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$1,154,714				\$116,545	\$12,751	\$45,109	\$16,846	\$8,288	\$151,178	\$79,445	\$28,154	\$103,888	\$29,494	\$566	\$64,793	\$1,811,771
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$430	\$430	\$430	\$98	\$221	\$1,350	\$737	\$675	\$675	\$1,350	\$1,044	\$1,044	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$224,725				\$44,054	\$5,784	\$20,461	\$1,747	\$2,417	\$137,180	\$28,454	\$12,008	\$44,308	\$19,367	\$624	\$58,644	
+ CONTINGENCY	\$22,473				\$4,405	\$578	\$2,046	\$175	\$242	\$13,718	\$2,845	\$1,201	\$4,431	\$1,937	\$62	\$5,864	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$247,198	\$0	\$0	\$0	\$48,460	\$6,362	\$22,507	\$1,921	\$2,658	\$150,898	\$31,300	\$13,209	\$48,739	\$21,303	\$686	\$64,509	\$659,751
WORK CONTRACTED		\$102,367	\$211,833	\$1,600,144						\$18,415	\$51,058						\$1,983,818
TOTALS (TOWN)	\$1,401,912	\$102,367	\$211,833	\$1,600,144	\$165,005	\$19,114	\$67,616	\$18,767	\$10,947	\$320,491	\$161,803	\$41,363	\$152,627	\$50,797	\$1,252	\$129,302	\$4,455,339
MHFD CONTRIBUTION				\$614,937													\$614,937
TOTAL (TOWN AND MHFD)	\$1,401,912	\$102,367	\$211,833	\$2,215,081	\$165,005	\$19,114	\$67,616	\$18,767	\$10,947	\$320,491	\$161,803	\$41,363	\$152,627	\$50,797	\$1,252	\$129,302	\$5,070,276

TOWN OF PARKER STORMWATER UTILITY
2027 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2027 Rates
Seasonal Staff Hourly Rate = \$19
Seasonal Staff Daily Rate (8 hours/day) = \$152
Field Crew Hourly Rate = \$44
Field Crew Daily Rate (8 hours/day)= \$355
Office Staff Hourly Rate = \$46
Office Staff Daily Rate (8 hours/day)= \$364
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2027 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					106	14	49	18	11	104	40	18	66	15	1	58	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					319	35	122	45	22	363	198	72	265	73	2	173	1,689
PERCENT OF FIELD CREW TIME					19%	2%	7%	3%	1%	21%	12%	4%	16%	4%	0%	10%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	104	40	8	28	15	0	6	199
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	20%	4%	14%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$113,121	\$12,362	\$43,343	\$16,048	\$7,838	\$128,666	\$70,241	\$25,677	\$94,059	\$25,950	\$541	\$61,312	\$599,159
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$15,722	\$6,008	\$1,144	\$4,190	\$2,220	\$0	\$874	\$30,158
OFFICE STAFF EQUIVALENT DAYS/YEAR	1089																
ANNUAL COST FOR OFFICE STAFF	\$397,013																
ANNUAL COST FOR PURCHASED SERVICES	\$696,724																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$1,093,737																
+ CONTINGENCY	\$109,374																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$1,203,110																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$113,121	\$12,362	\$43,343	\$16,048	\$7,838	\$144,389	\$76,249	\$26,821	\$98,250	\$28,169	\$541	\$62,187	\$629,317
+ CONTINGENCY					\$11,312	\$1,236	\$4,334	\$1,605	\$784	\$14,439	\$7,625	\$2,682	\$9,825	\$2,817	\$54	\$6,219	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$124,433	\$13,598	\$47,678	\$17,653	\$8,622	\$158,828	\$83,874	\$29,503	\$108,074	\$30,986	\$595	\$68,405	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$1,203,110				\$124,433	\$13,598	\$47,678	\$17,653	\$8,622	\$158,828	\$83,874	\$29,503	\$108,074	\$30,986	\$595	\$68,405	\$1,895,359
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$443	\$443	\$443	\$101	\$228	\$1,391	\$759	\$695	\$695	\$1,391	\$1,075	\$1,075	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$231,467				\$47,036	\$6,168	\$21,627	\$1,830	\$2,514	\$144,122	\$30,041	\$12,583	\$46,094	\$20,347	\$655	\$61,914	
+ CONTINGENCY	\$23,147				\$4,704	\$617	\$2,163	\$183	\$251	\$14,412	\$3,004	\$1,258	\$4,609	\$2,035	\$66	\$6,191	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$254,613	\$0	\$0	\$0	\$51,739	\$6,785	\$23,789	\$2,013	\$2,766	\$158,534	\$33,045	\$13,841	\$50,703	\$22,381	\$721	\$68,105	\$689,036
WORK CONTRACTED		\$114,119	\$223,642	\$1,730,556						\$18,967	\$53,905						\$2,141,190
TOTALS (TOWN)	\$1,457,724	\$114,119	\$223,642	\$1,730,556	\$176,172	\$20,383	\$71,467	\$19,666	\$11,388	\$336,329	\$170,824	\$43,345	\$158,778	\$53,367	\$1,315	\$136,510	\$4,725,585
MHFD CONTRIBUTION				\$633,385													\$633,385
TOTAL (TOWN AND MHFD)	\$1,457,724	\$114,119	\$223,642	\$2,363,941	\$176,172	\$20,383	\$71,467	\$19,666	\$11,388	\$336,329	\$170,824	\$43,345	\$158,778	\$53,367	\$1,315	\$136,510	\$5,358,970

TOWN OF PARKER STORMWATER UTILITY
2028 STORMWATER UTILITY FUND DISTRIBUTION WITH EXISTING PROGRAM



2028 Rates
Seasonal Staff Hourly Rate = \$20
Seasonal Staff Daily Rate (8 hours/day) = \$156
Field Crew Hourly Rate = \$46
Field Crew Daily Rate (8 hours/day)= \$365
Office Staff Hourly Rate = \$47
Office Staff Daily Rate (8 hours/day)= \$375
Contingency = 10%

	BASE PROGRAM	REHABILITATION			INSPECTION					ROUTINE MAINTENANCE				RESTORATION MAINTENANCE			
	OFFICE STAFF, PURCHASED SERVICES, MATERIALS, EQUIPMENT, VEHICLE COSTS	STORM SEWER	POND	CHANNEL	STORM SEWER	OUTFALL	POND	CHANNEL	SWALE	STORM SEWER	POND	CHANNEL	SWALE	STORM SEWER	OUTFALL	POND	2028 TOTALS
NUMBER OF WORK DAYS TO COMPLETE ANNUALLY					110	14	50	18	11	106	41	18	67	15	1	59	
FIELD CREW EQUIVALENT DAYS PER YEAR TO COMPLETE					331	36	125	46	22	370	203	74	268	75	2	177	1,728
PERCENT OF FIELD CREW TIME					19%	2%	7%	3%	1%	21%	12%	4%	15%	4%	0%	10%	
SEASONAL STAFF EQUIVALENT DAYS PER YEAR TO COMPLETE					0	0	0	0	0	106	41	8	28	15	0	6	203
PERCENT OF SEASONAL STAFF TIME					0%	0%	0%	0%	0%	52%	20%	4%	14%	7%	0%	3%	
ANNUAL COST FOR FIELD CREW					\$120,820	\$13,187	\$45,812	\$16,812	\$8,154	\$135,177	\$74,157	\$26,900	\$97,850	\$27,263	\$568	\$64,731	\$631,430
ANNUAL COST FOR SEASONAL STAFF					\$0	\$0	\$0	\$0	\$0	\$16,518	\$6,343	\$1,198	\$4,359	\$2,332	\$0	\$923	\$31,673
OFFICE STAFF EQUIVALENT DAYS/YEAR	1123																
ANNUAL COST FOR OFFICE STAFF	\$421,803																
ANNUAL COST FOR PURCHASED SERVICES	\$717,625																
ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES	\$1,139,428																
+ CONTINGENCY	\$113,943																
SUBTOTAL: ANNUAL COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH CONTINGENCY	\$1,253,371																
ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$120,820	\$13,187	\$45,812	\$16,812	\$8,154	\$151,695	\$80,500	\$28,098	\$102,209	\$29,594	\$568	\$65,653	\$663,103
+ CONTINGENCY					\$12,082	\$1,319	\$4,581	\$1,681	\$815	\$15,169	\$8,050	\$2,810	\$10,221	\$2,959	\$57	\$6,565	
SUBTOTAL: ANNUAL COST FOR FIELD CREW AND SEASONAL STAFF					\$132,902	\$14,506	\$50,393	\$18,493	\$8,970	\$166,864	\$88,550	\$30,908	\$112,430	\$32,554	\$625	\$72,219	
TOTAL: FIELD CREW, SEASONAL STAFF AND OFFICE STAFF ANNUAL COST	\$1,253,371				\$132,902	\$14,506	\$50,393	\$18,493	\$8,970	\$166,864	\$88,550	\$30,908	\$112,430	\$32,554	\$625	\$72,219	\$1,982,785
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER DAY					\$456	\$456	\$456	\$104	\$234	\$1,433	\$781	\$716	\$716	\$1,433	\$1,107	\$1,107	
MATERIALS, EQUIPMENT AND VEHICLE COSTS PER YEAR	\$238,411				\$50,237	\$6,580	\$22,858	\$1,917	\$2,616	\$151,414	\$31,716	\$13,182	\$47,951	\$21,376	\$688	\$65,365	
+ CONTINGENCY	\$23,841				\$5,024	\$658	\$2,286	\$192	\$262	\$15,141	\$3,172	\$1,318	\$4,795	\$2,138	\$69	\$6,537	
TOTAL MATERIALS EQUIPMENT AND VEHICLE COSTS PER YEAR	\$262,252	\$0	\$0	\$0	\$55,261	\$7,238	\$25,144	\$2,109	\$2,877	\$166,556	\$34,887	\$14,500	\$52,747	\$23,514	\$757	\$71,902	\$719,744
WORK CONTRACTED		\$122,840	\$236,111	\$1,871,596						\$19,536	\$56,910						\$2,306,994
TOTALS (TOWN)	\$1,515,623	\$122,840	\$236,111	\$1,871,596	\$188,163	\$21,744	\$75,537	\$20,603	\$11,847	\$352,956	\$180,347	\$45,408	\$165,177	\$56,068	\$1,382	\$144,121	\$5,009,522
MHFD CONTRIBUTION				\$652,387													\$652,387
TOTAL (TOWN AND MHFD)	\$1,515,623	\$122,840	\$236,111	\$2,523,983	\$188,163	\$21,744	\$75,537	\$20,603	\$11,847	\$352,956	\$180,347	\$45,408	\$165,177	\$56,068	\$1,382	\$144,121	\$5,661,908

STORMWATER NEEDS ASSESSMENT UPDATE

STUDY SESSION 10.28.19

ENGINEERING
DEPARTMENT



PARKER
COLORADO

WHAT IS A NEEDS ASSESSMENT?

- EVALUATE COSTS OF OPERATING A STORMWATER UTILITY
 - INSPECTION OF STORMWATER ASSETS TO ASSESS CONDITION
 - MAINTENANCE OF STORMWATER ASSETS BASED ON INSPECTION OR PREVENTATIVE SCHEDULES
 - REHABILITATION OF STORMWATER ASSETS BASED ON INSPECTION OR END OF SERVICEABLE LIFE
 - BASE STORMWATER PROGRAM INCLUDING ADMINISTRATION, ENGINEERING, AND ENVIRONMENTAL

WHY A NEEDS ASSESSMENT STUDY?

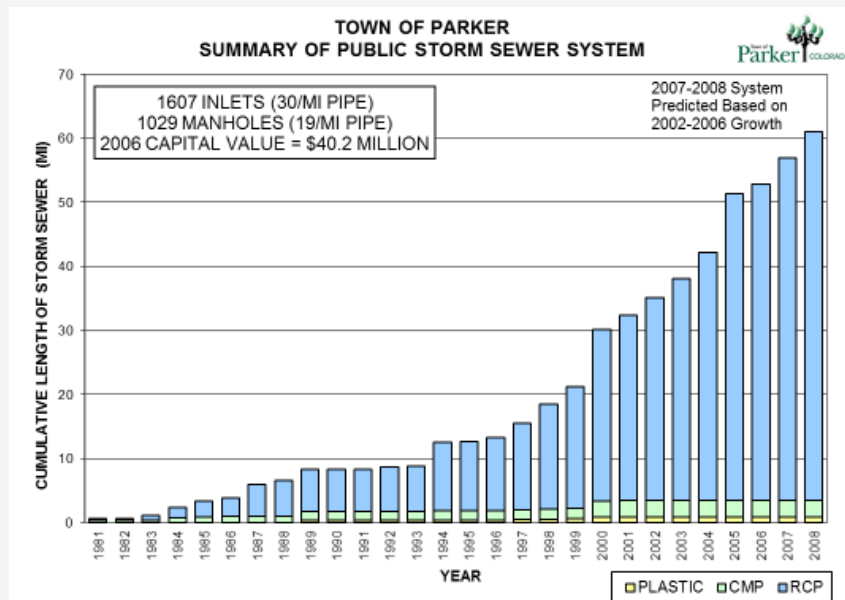
- DETERMINE IF THE PROGRAM NEEDS AND REQUIREMENTS ARE ADEQUATELY FUNDED TO PROVIDE THE EXPECTED LEVEL OF SERVICE TO THE CITIZENS
 - DETERMINE COSTS OF UTILITY TO COMPARE TO REVENUES
 - DEVELOP TRENDS TO PROJECT COSTS INTO THE FUTURE TO COMPARE TO REVENUE PROJECTIONS
- IDENTIFY GAPS IN SERVICE OR ANY PARTS OF THE UTILITY THAT HAVE FUNDING/LEVEL OF SERVICE CONCERNS (CURRENT OR IN THE FUTURE)

STORMWATER NEEDS ASSESSMENT UPDATE

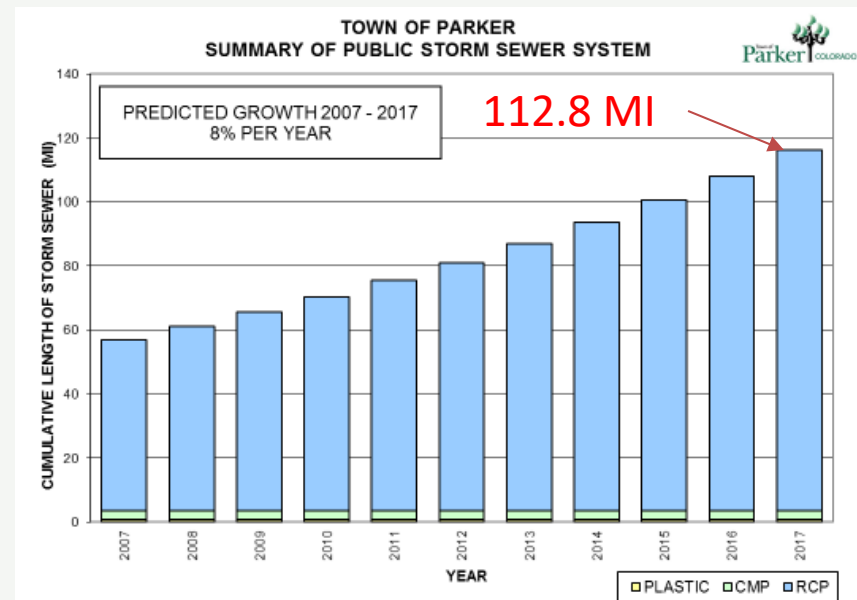
- PREVIOUS STUDY COMPLETED IN 2007
 - IDENTIFIED ALL STORMWATER ASSETS AND PROJECTED SYSTEM GROWTH FOR 10 YEARS (2017)
 - DETERMINED COSTS FOR MAINTENANCE, REHABILITATION AND REPLACEMENT AND PROJECTED THOSE COSTS TO 2017
 - USED INFORMATION TO DETERMINE STORMWATER UTILITY FEE
- NEW UPDATED STUDY REPLACED PROJECTIONS WITH ACTUAL SYSTEM GROWTH AND USED TRENDS TO PROJECT ANOTHER 10 YEARS

STORMWATER PIPE (2007 STUDY)

PREVIOUS STUDY SYSTEM GROWTH

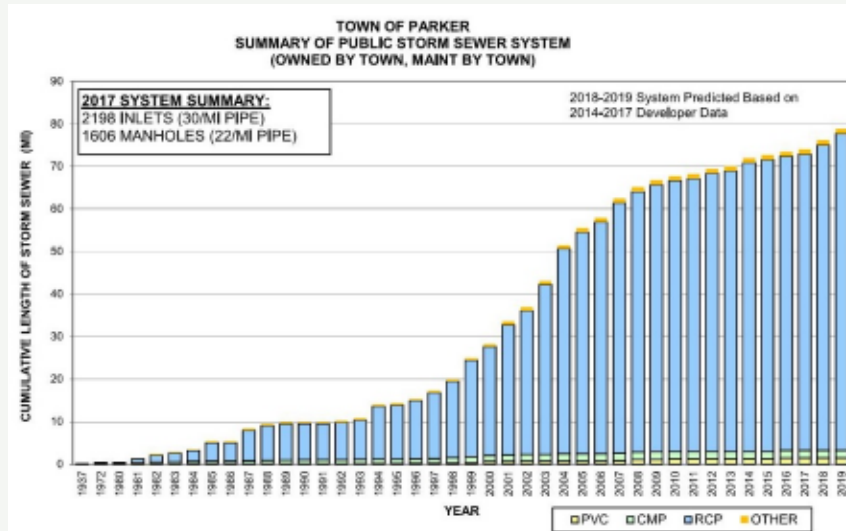


PREVIOUS STUDY SYSTEM PROJECTION

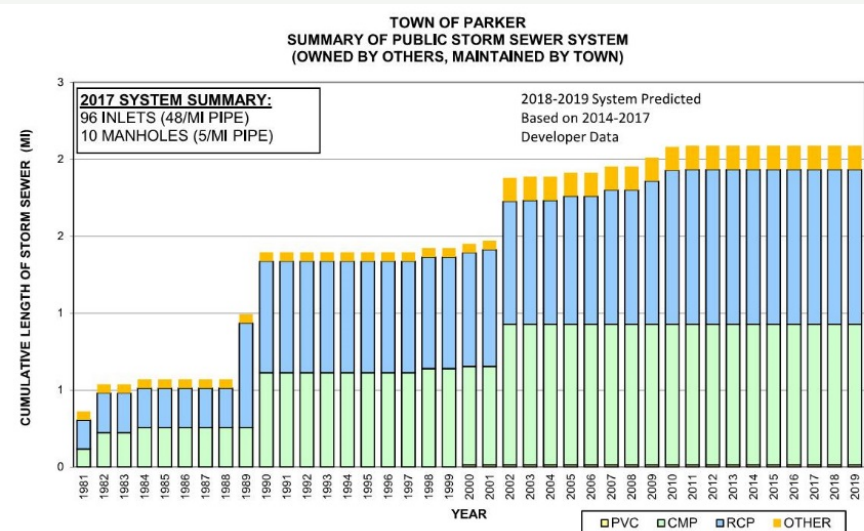


ACTUAL STORMWATER PIPE (2017)

PUBLIC SYSTEM



MAINTAINED BY TOWN



OWNED BY TOWN – MAINTAINED BY TOWN: 74 MILES

OWNED BY OTHERS – MAINTAINED BY TOWN: 2 MILES

OWNED BY OTHERS – MAINTAINED BY OTHERS: 38 MILES

TOTAL STORM PIPE 2017: 114 MILES

(STILL PART OF TOWN INSPECTION PROGRAM)

VS. PREVIOUS STUDY 2017 PROJECTION: 112.8 MILES

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OTHER STORMWATER ASSETS (2006-2019)

Infrastructure	2006	2016	Increase	2019	Increase
Inlets	2,112	3,379	60%	3,904	15%
Outfalls	680	961	41%	1,057	10%
Manholes	1,354	2,236	63%	2,600	16%
Storm Pipe	53 Miles	113 Miles	111%	128 Miles	13%
Culverts	283	430	54%	459	7%
Drop/Check	215	392	84%	419	7%
Detention Ponds	228	319	40%	349	9%

INSPECTION, MAINTENANCE AND REHAB

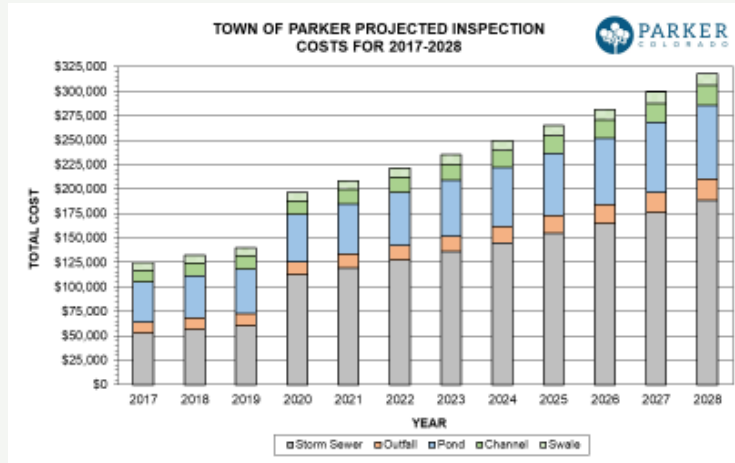


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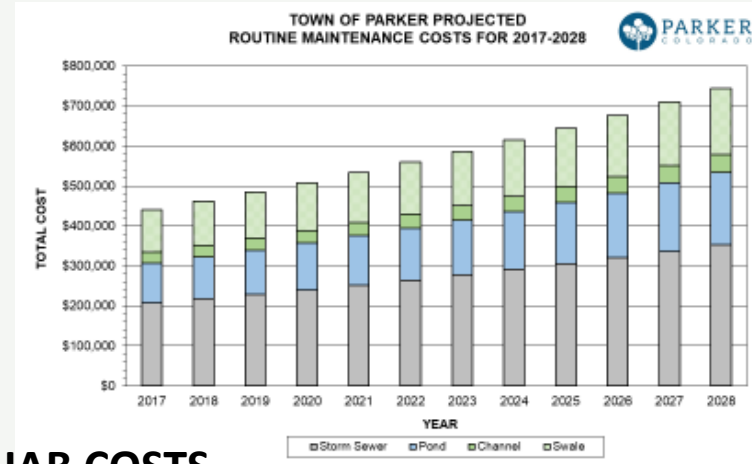


INSPECTION, MAINTENANCE AND REHAB NEEDS

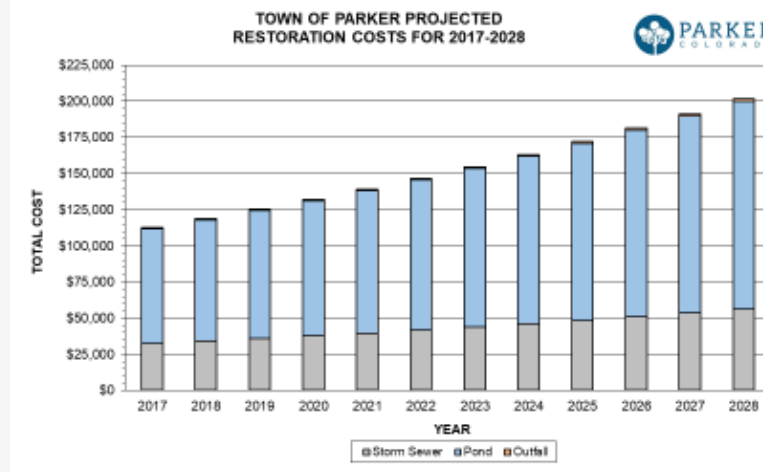
PROJECTED INSPECTION COSTS



PROJECTED MAINTENANCE COSTS



PROJECTED REHAB COSTS



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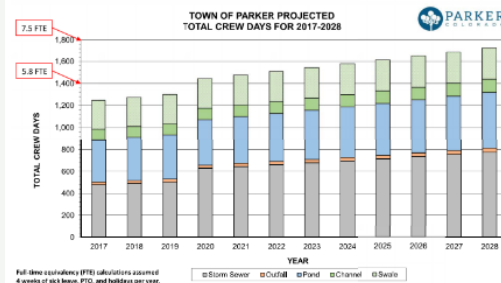


STORMWATER OPERATIONS CREW MAN DAYS

TOTAL CREW TIME FOR ALL ACTIVITIES

**TOWN OF PARKER STORMWATER UTILITY
TOTAL CREW TIME FOR ALL ACTIVITIES**

YEAR	CREW TIME					TOTAL CREW DAYS FOR ALL
	CREW DAYS FOR STORM SEWER ACTIVITIES	CREW DAYS FOR OUTFALL ACTIVITIES	CREW DAYS FOR POND ACTIVITIES	CREW DAYS FOR CHANNEL ACTIVITIES	CREW DAYS FOR SWALE ACTIVITIES	
2017	479	28	384	88	269	1247
2018	490	27	394	100	263	1273
2019	502	28	404	102	265	1300
2020	629	29	414	104	268	1443
2021	645	30	424	105	271	1476
2022	662	31	435	108	273	1509
2023	679	32	446	110	278	1543
2024	697	33	457	112	279	1578
2025	716	34	469	114	282	1614
2026	735	35	481	115	284	1661
2027	755	36	493	118	287	1689
2028	775	38	505	120	290	1728

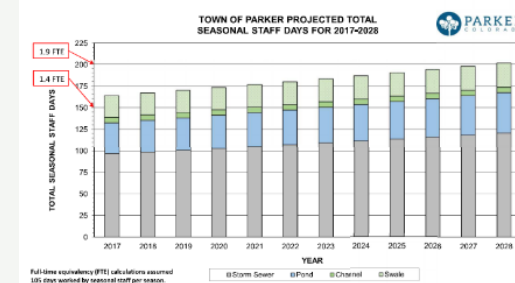


CURRENT STAFFING LEVEL IS AT 5 FTE FOR OPERATIONS

TOTAL SEASONAL CREW TIME FOR ALL ACTIVITIES

**TOWN OF PARKER STORMWATER UTILITY
TOTAL CREW TIME FOR ALL ACTIVITIES**

YEAR	SEASONAL STAFF TIME				TOTAL SEASONAL STAFF DAYS FOR ALL
	SEASONAL STAFF DAYS FOR STORM SEWER ACTIVITIES	SEASONAL STAFF DAYS FOR POND ACTIVITIES	SEASONAL STAFF DAYS FOR CHANNEL ACTIVITIES	SEASONAL STAFF DAYS FOR SWALE ACTIVITIES	
2017	87	35	6	25	154
2018	89	36	6	25	157
2019	121	37	6	26	170
2020	133	38	6	26	173
2021	135	39	6	26	176
2022	137	40	6	26	180
2023	139	41	6	27	183
2024	141	42	6	27	187
2025	144	43	6	27	190
2026	146	44	6	27	194
2027	148	45	6	28	197
2028	151	46	6	28	201



CURRENT TREND IS 1 SEASONAL FOR OPERATIONS AT APROX. 45 DAYS/YEAR AT BEST

**ENGINEERING
DEPARTMENT**



STORMWATER BASE PROGRAM



TOWN OF PARKER STORMWATER UTILITY BASE PROGRAM PROJECTIONS

yearly inflation rate = 3.00%

BASE PROGRAM COST PROJECTION										
YEAR	EQUIVALENT NUMBER OF OFFICE STAFF - BASE PROGRAM	BASE PROGRAM OFFICE STAFF - DAYS/YEAR	HOURLY RATE WITH 3% INFLATION PER YEAR	OFFICE STAFF ANNUAL COST	BASE PROGRAM COST FOR PURCHASED SERVICES	BASE PROGRAM COST FOR OFFICE STAFF AND PURCHASE SERVICES	BASE PROGRAM COST FOR OFFICE STAFF AND PURCHASE SERVICES WITH 10% CONTINGENCY ADDED	BASE PROGRAM MATERIALS, EQUIPMENT, AND VEHICLE COSTS WITH 3% INFLATION PER YEAR	BASE PROGRAM MATERIALS, EQUIPMENT, AND VEHICLE COSTS WITH 10% CONTINGENCY ADDED	BASE PROGRAM COST FOR STAFF, MATERIALS, EQUIPMENT, AND VEHICLE COSTS
2017	3.11	746	\$33.89	\$202,189	\$517,495	\$719,684	\$791,652	\$172,078	\$189,286	\$980,938
2018	3.25	780	\$34.94	\$218,026	\$533,500	\$751,526	\$826,678	\$177,400	\$195,140	\$1,021,818
2019	3.39	814	\$35.99	\$234,437	\$550,000	\$784,437	\$862,881	\$182,722	\$200,994	\$1,063,875
2020	3.54	849	\$37.07	\$261,638	\$566,500	\$818,138	\$899,961	\$188,204	\$207,024	\$1,106,976
2021	3.68	883	\$38.18	\$269,659	\$583,495	\$853,154	\$938,469	\$193,850	\$213,235	\$1,151,704
2022	3.82	917	\$39.33	\$288,535	\$601,000	\$889,535	\$978,489	\$199,665	\$219,632	\$1,198,120
2023	3.96	951	\$40.51	\$308,301	\$619,030	\$927,331	\$1,020,064	\$205,655	\$226,221	\$1,246,285
2024	4.11	986	\$41.72	\$328,993	\$637,601	\$966,594	\$1,063,254	\$211,825	\$233,007	\$1,296,261
2025	4.25	1020	\$42.97	\$350,650	\$656,729	\$1,007,379	\$1,108,116	\$218,180	\$239,998	\$1,348,114
2026	4.39	1054	\$44.26	\$373,309	\$676,431	\$1,049,740	\$1,154,714	\$224,725	\$247,198	\$1,401,912
2027	4.54	1089	\$45.59	\$397,013	\$696,724	\$1,093,737	\$1,203,110	\$231,467	\$254,613	\$1,457,724
2028	4.68	1123	\$46.96	\$421,803	\$717,625	\$1,139,428	\$1,253,371	\$238,411	\$262,252	\$1,515,623

1. Base Program office staff in 2017: 1-engineer, 1-inspector, 1-stormwater manager, 1/public works director
2. Office Staff - 5 days a week for 48 weeks per year (4 weeks PTO)
3. Purchased Services - supplies, architect, engineer, insurance, workman's comp
4. variables from Parker highlighted in green

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PARKER
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MAJOR DRAINAGE PROJECTS



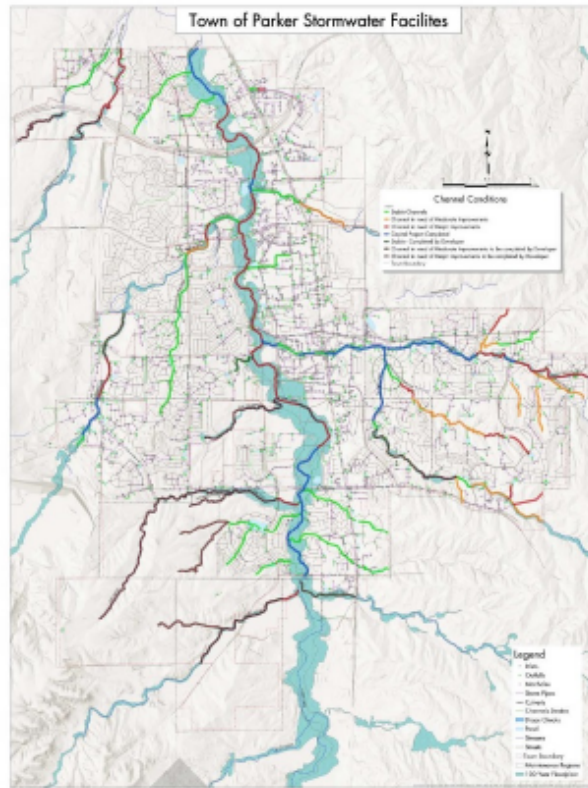
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STORMWATER CHANNELS NEEDS

REHABILITATION NEEDS PRIORITIZED



PROJECT COSTS PER FOOT BASED ON ACTUAL PROJECT DATA IN THE REGION



ROADWAY AVERAGE COSTS PER FOOT:

- LOCAL: \$400/FT
- COLLECTOR: \$600/FT
- ARTERIAL: \$1,000/FT

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STORMWATER CHANNELS NEEDS COST PROJECTIONS

PROJECTED COSTS FOR PROJECTS TO BE COMPLETED (DESIGN AND CONSTRUCTION) FOR STREAM STABILIZATION TOWN OF PARKER STORMWATER UTILITY ASSESSMENT							
INPUT VARIABLES (2019 COST DATA):							
Cherry Creek Major Improvement =				\$1,200 Per LF			
Cherry Creek Moderate Improvement =				\$800 Per LF			
Primary Drainageway Major Improvement =				\$1,600 Per LF			
Primary Drainageway Moderate Improvement =				\$1,000 Per LF			
Secondary Drainageway Major Improvement =				\$800 Per LF			
Secondary Drainageway Moderate Improvement =				\$400 Per LF			
PRIORITY NUMBER	PROJECT	CATEGORY	LEVEL OF IMPROVEMENT	REACH LENGTH, FT	REACH LENGTH, MI	REPRESENTATIVE UNIT COST, \$/LF	PROBABLE PROJECT COST IN 2019 DOLLARS
1	Cherry Creek - 0.6 miles downstream of Hwy 86 to 0.6 miles downstream of KGA tributary	CHERRY CREEK	MAJOR	2136	0.61	\$1,200	\$2,679,520
2	Cherry Creek - 0.3 mi downstream of KGA tributary to Sulfer Gulch	CHERRY CREEK	MAJOR	866	1.22	\$1,200	\$1,746,240
3	Neuvin Gulch - Lincoln Ave to Recreation Dr	PRIMARY DRAINAGEWAYS	MAJOR	1542	0.20	\$1,600	\$1,057,080
4	Neuvin Gulch - S. Jensen Road to Lincoln Ave	PRIMARY DRAINAGEWAYS	MODERATE	1861	0.31	\$1,000	\$1,861,000
5	Neuvin Canyon Creek - 8470 to Town boundary	PRIMARY DRAINAGEWAYS	MAJOR	8611	1.08	\$1,600	\$3,678,080
6	Cherry Creek - Sulfer Gulch to Intersection of Twenty Mile and E. Plaza (Tailwater Park)	CHERRY CREEK	MAJOR	3548	0.09	\$1,200	\$4,378,080
7	Sulfer Gulch - 0.1 mi upstream of Canterbury Drive to 0.3 mi east of Hwy 86	PRIMARY DRAINAGEWAYS	MAJOR	2444	0.68	\$1,600	\$3,911,040
8	Cherry Creek - Intersection of Twenty Mile and E. Plaza (Tailwater Park) to Neuvin Gulch	CHERRY CREEK	MAJOR	8187	1.09	\$1,200	\$9,820,400
9	Neuvin Gulch - 0.2 miles downstream of Chambers Rd to 0.1 mile upstream of Main Street	PRIMARY DRAINAGEWAYS	MAJOR	2620	0.53	\$1,600	\$4,512,000
10	Tellman Gulch Tributary - 0.8 mi downstream of Canterbury Drive to 0.1 mi downstream of Tellman Dr	PRIMARY DRAINAGEWAYS	MODERATE	8100	1.27	\$1,000	\$8,100,000
11	Cherry Creek - Neuvin Gulch to 210 feet south of Baldwin Gulch	CHERRY CREEK	MAJOR	2648	0.68	\$1,200	\$3,087,760
12	Cherry Creek - Pine Lane to 8470 see bound off ramp	CHERRY CREEK	MAJOR	2336	0.44	\$1,200	\$2,805,040
13	Cherry Creek - 8470 see bound off ramp to Cottonwood Drive	CHERRY CREEK	MAJOR	4168	0.97	\$1,200	\$4,914,360
14	Tellman Gulch Tributary - 0.1 mi downstream of Tellman Dr to Taylor Dr	PRIMARY DRAINAGEWAYS	MAJOR	1321	0.26	\$1,600	\$2,093,600
15	Tellman Gulch Tributary - 0.5 mi downstream of Canterbury Drive to Mainway Dr	PRIMARY DRAINAGEWAYS	MAJOR	2873	0.54	\$1,600	\$4,596,320
16	Baldwin Gulch - Lincoln Ave to Parker Rd	PRIMARY DRAINAGEWAYS	MODERATE	3151	0.60	\$1,000	\$3,151,000
17	Oak Gulch - Midlandwood Rd to 200 LP upstream of Cherry Creek	PRIMARY DRAINAGEWAYS	MAJOR	1408	0.27	\$1,600	\$2,252,800
18	Sulfer Gulch - Town boundary to 0.1 mi upstream of Canterbury Drive	PRIMARY DRAINAGEWAYS	MAJOR	5588	1.00	\$1,600	\$8,951,120
19	Reed Gulch - Town boundary to Sulfer Gulch southwesterly	PRIMARY DRAINAGEWAYS	MODERATE	3652	0.68	\$1,000	\$3,652,000
20	Tellman Gulch - Town boundary to Canterbury Drive	PRIMARY DRAINAGEWAYS	MODERATE	4621	1.08	\$1,000	\$4,621,000
21	Tributary at Cottonwood Dr and Parker Rd	SECONDARY DRAINAGEWAYS	MAJOR	365	0.07	\$800	\$29,800
22	Tellman Gulch Tributary - West Tributary Park upstream to S. Hillside Rd	SECONDARY DRAINAGEWAYS	MODERATE	1886	0.31	\$400	\$754,400
23	Sulfer Gulch - Blue Meadow Lane Park - Town boundary to S. Main Street	SECONDARY DRAINAGEWAYS	MAJOR	1812	0.34	\$800	\$1,449,600
24	Tellman Gulch - East Tributary Park - near Leased Main Street	SECONDARY DRAINAGEWAYS	MAJOR	1996	0.35	\$800	\$1,596,800
25	Tellman Gulch - North Tributary Park - near Leased Main Street	SECONDARY DRAINAGEWAYS	MAJOR	837	0.16	\$800	\$669,600
26	Sulfer Gulch - Blue Meadow Lane Park - upstream to S. Main Street (includes both east and west forks)	SECONDARY DRAINAGEWAYS	MODERATE	2227	0.42	\$400	\$890,800
27	Sulfer Gulch - Top in Back Bear Golf Course - between Canterbury Drive and Canterbury Ln	SECONDARY DRAINAGEWAYS	MODERATE	2172	0.41	\$400	\$868,800
28	Sulfer Gulch - Top in Back Bear Golf Course - E. of Canterbury Ln	SECONDARY DRAINAGEWAYS	MODERATE	2852	0.53	\$400	\$1,140,800
29	Jensen Gulch - 0.4 mi downstream of N. Crawford Valley Rd to confluence with Cherry Creek	PRIMARY DRAINAGEWAYS	MAJOR	1201	0.23	\$1,600	\$1,921,600
GRAND TOTAL =				TOTAL CHANNEL LENGTH IN NEED OF WORK =			\$99,343,580
Secondary Drainageway Major Improvement = \$1,000 Per LF				Avg cost/LF		\$1,147	
Parker Spending 2017 = \$900,000							
Parker Match 2017 = \$900,000							
Total Spending 2017 = \$1,800,000							
Number of Years Required to Complete Needed Projects at Current Spending Rate = 99				YEARS			
Parker Spending Required to Complete Needed Projects in 20 Years* = \$4,942,179				PER YEAR			
Parker Spending Required to Complete Needed Projects in 30 Years* = \$3,278,119				PER YEAR			
Parker Spending Required to Complete Needed Projects in 40 Years* = \$2,483,587				PER YEAR			
Parker Spending Required to Complete Needed Projects in 50 Years* = \$1,986,872				PER YEAR			
*Assumes 900% parker match							
Total Length of Channel in Town = 49.5 MI							
Total Length of Channel in Need of Work = 16.4 MI							
Length of Stable Channels in Town = 33.1 MI							

\$99,343,580

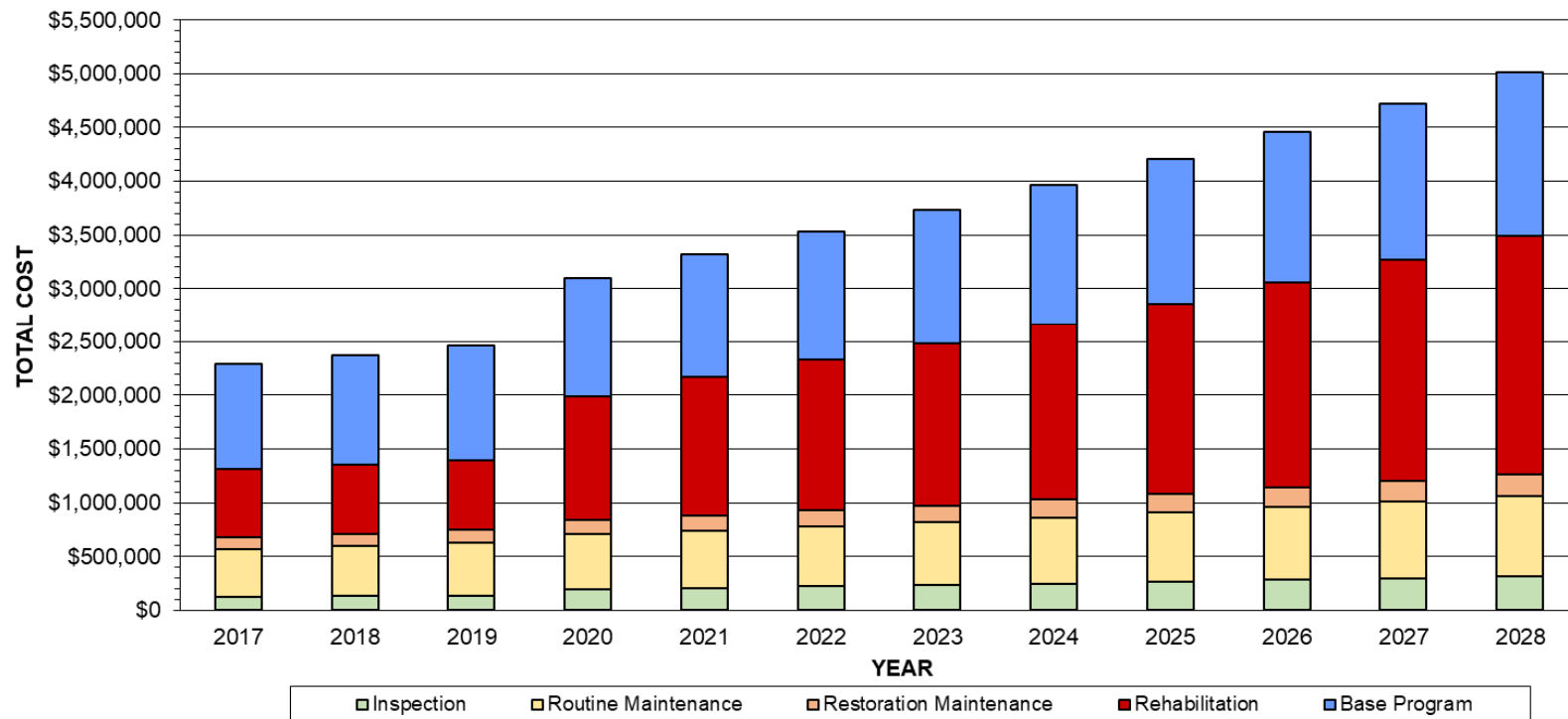
Parker Spending Required to Complete Needed Projects in 20 Years* =	\$4,942,179	PER YEAR
Parker Spending Required to Complete Needed Projects in 30 Years* =	\$3,278,119	PER YEAR
Parker Spending Required to Complete Needed Projects in 40 Years* =	\$2,483,587	PER YEAR
Parker Spending Required to Complete Needed Projects in 50 Years* =	\$1,986,872	PER YEAR

ENGINEERING
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TOTAL STORMWATER PROGRAM NEEDS PROJECTION

TOWN OF PARKER STORMWATER UTILITY
PROJECTED COSTS FOR 2017-2028



2019 STORMWATER REVENUE

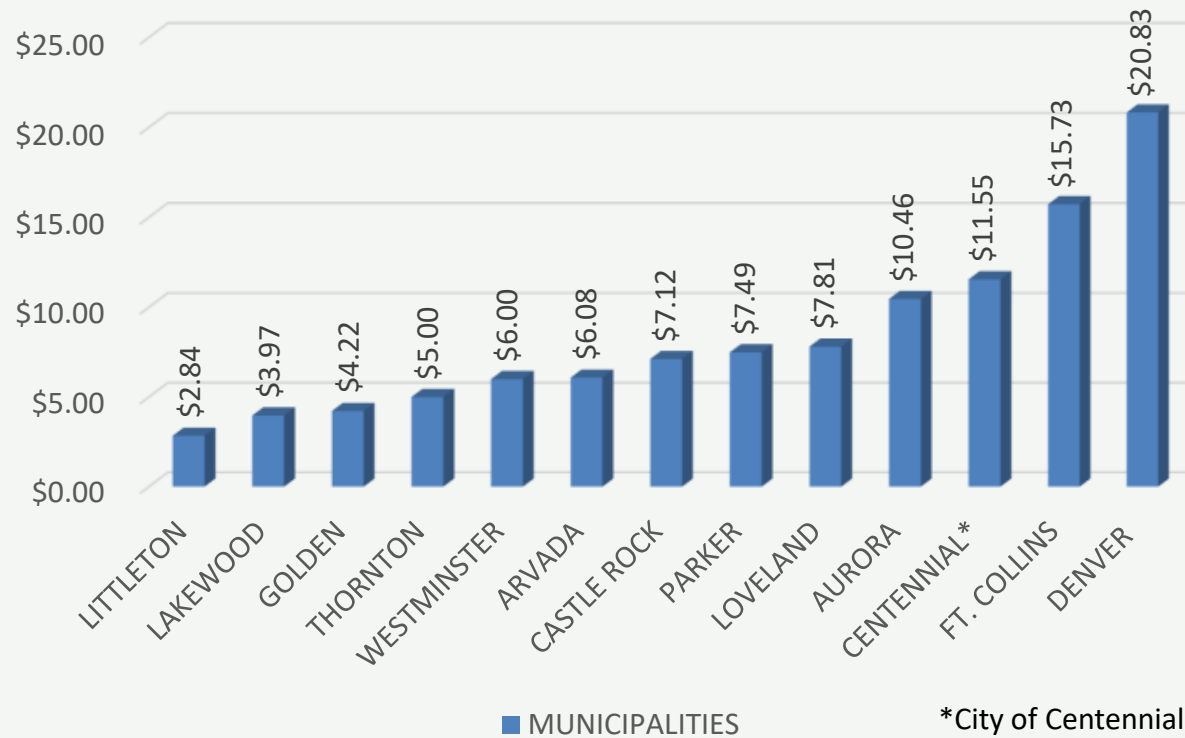
- STORMWATER RESIDENTIAL FEE: \$7.49/MONTH
 - BUDGET: \$1,287,500
- STORMWATER COMMERCIAL FEE: \$7.49/4,000 X S.F. OF IMPERVIOUS AREA
 - BUDGET: \$1,016,400
- REVIEW/GRADING PERMIT FEES:
 - BUDGET: \$63,500
- TOTAL ANTICIPATED REVENUE: \$2,367,400
- TOTAL COSTS BASED ON STUDY: \$2,962,192

SUMMARY

- PREVIOUS STUDY PROJECTED GROWTH WELL
- THIS UPDATE REFINED THE OPERATING COSTS WITH EXISTING INFRASTRUCTURE
 - PROJECTS 10 MORE YEARS TO FORECAST COSTS
- TOTAL 2028 UTILITY COSTS PROJECTIONS : \$5,250,000
 - REVENUE PROJECTIONS (2% INCREASE/YR): \$2,829,262
 - DIFFERENCE OF \$2,420,738
 - ASSUMES NO MATCH FROM FUNDING PARTNERS, HOWEVER, THE MILE HIGH FLOOD DISTRICT IS ASSUMED TO FUND CHANNEL WORK AT SOME LEVEL
 - LEVERAGING FUNDS WITH OTHER PARTNERS SHOULD ALSO BE CONSIDERED (CCBWQA, CDOT, GOCO, ETC.)
- KEY TAKEAWAYS
 - DRIVES HOME IMPORTANCE OF PROACTIVE MAINTENANCE TO PROLONG THE SERVICEABLE LIFE OF INFRASTRUCTURE
 - IDENTIFY MORE EFFICIENT REHABILITATION STRATEGIES SUCH AS PIPE SLIP-LINING
 - MAINTAIN A PROACTIVE INSPECTION PROGRAM TO IDENTIFY ISSUES EARLY THAT CAN BE REMEDIATED WITH SMALLER LESS COSTLY PROJECTS

TOWN STORMWATER FEES AS COMPARED TO OTHER MUNICIPALITIES

2019 MONTHLY SFR STORMWATER FEE



*City of Centennial serviced by the Southeast Metro Stormwater Authority (SEMSWA)

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QUESTIONS???

ENGINEERING
DEPARTMENT



PARKER
COLORADO



MEMORANDUM

TO: Mayor and Town Council

FROM: Tom Williams, Director Eng/PW
Jacob James, Stormwater Manager

DATE: October 28, 2019

SUBJECT: Chapter 4.08 - Stormwater Management Program Code Change

ISSUE:

The Stormwater Division of the Engineering/Public Works Department would like to provide clarification on the definition of "private streets, rights-of-ways and alleys" within the Town of Parker Municipal Code Chapter 4.08 - Stormwater Management Program.

FISCAL/BUDGET IMPACT:

The clarification on this definition will result in a reduction of impervious area currently being billed on a number of properties within Town. This revised definition will result in a revenue decrease of \$26,500 using the 2019 Stormwater Fee of \$7.49. Using the proposed 2020 Stormwater Fee of \$7.65 this revised definition will result in a revenue decrease of \$27,067.

BACKGROUND:

The Town has historically interpreted that "private streets, rights-of-ways and alleys" be platted in a separate tract to be exempt from the Stormwater Fee since the definition in the Municipal Code is not clearly defined. Staff has recently identified numerous areas throughout Town that would appear to meet the intent of this definition, however, the streets are not located in separate tracts. In these scenarios, private streets may be part of a lot and, more commonly, split between multiple lots. An unambiguous definition will provide clarity to staff and property owners as to what qualifies as a "private street, right-of-way or alley". Staff is also proposing code revisions related to the Stormwater Fee billing to better align with the current practices in our Finance Department.

RECOMMENDATION:

If these revisions are acceptable to Town Council, staff recommends the preparation of an ordinance to update the code.

REQUESTED DIRECTION:

Staff is requesting Town Council provide direction to staff on the proposed Code revisions related to the Stormwater Utility Fee.

ATTACHMENT:

1. CHAPTER_4.08___Stormwater_Management_Program REV 102119
2. SW Private Streets Code Change TC Study Session 10.28.19

CHAPTER 4.08 - Stormwater Management Program

4.08.010 - Authority and applicability.

- (a) The Town of Parker, as a home rule municipality organized under Article XX of the Colorado Constitution, has the authority under the Colorado Constitution, Section 31-35-402(1)(f), C.R.S., as amended, and Zelinger v. Denver, 724 P.2d 1356 (Colo. 1986), Bloom v. City of Fort Collins, 784 P.2d 304 (Colo. 1989) and Littleton v. State, 855 P.2d 448 (Colo. 1993) to adopt this Chapter.
- (b) This Chapter shall apply to all real property in the Town.

(Ord. 8.22 §2, 1999)

4.08.020 - Intent and purpose.

- (a) The purpose of this Chapter is to promote the protection of the public health, safety and welfare from damage from stormwater runoff by requiring that property owners in the Town pay for a share of the cost of the facilities reasonably necessary to manage such stormwater. Water from stormwater runoff may occur which exceeds the capacity of public facilities constructed and maintained by funds made available under this Chapter. This Chapter does not imply that real property liable for the stormwater utility fee established herein will always be free from stormwater flooding or flood damage. This Chapter does not purport to reduce the need or the necessity for any property owner to obtain flood insurance.
- (b) It is the intent of the Town Council in enacting this Chapter:
 - (1) To establish a stormwater management utility to finance, coordinate, design, construct, manage, operate and maintain the public facilities described herein; and
 - (2) To establish a reasonable stormwater management fee based on the use of the land located within the Town.
- (c) The Town Council further finds, determines and declares that the owners of real property within the Town are the ultimate beneficiaries and users of the public facilities contemplated by this Chapter and should fund and thereby provide the facilities and maintenance capability necessary for the reasonable control of stormwater and management of stormwater and also fund and thereby provide the public facilities required to convey such stormwater from the various drainage basins to the Town's major drainageways.

(Ord. 8.22 §3, 1999)

4.08.030 - Definitions.

The following words used in this Chapter have the following meanings, unless the context clearly indicates otherwise:

Apartment means a structure that contains three (3) or more dwelling units, excluding attached dwellings as defined herein.

Attached dwelling means attached houses including duplexes, townhomes, patio homes and condominiums.

Director of Engineering means the Director of Engineering of the Town of Parker or designee (the "Director").

Dwelling unit means single-family and multiple-family dwellings.

Facilities means all structures, equipment and all uses of land that are made in conjunction with or that are related or incidental to the construction, installation or use of the structures and

equipment necessary to contain and control stormwater including, but not limited to, curbs and gutters, cross pans, pipes, inlets, conduits, channels, bridges and detention/retention ponds.

Finance Director means the Finance Director of the Town of Parker or designee (the "Finance Director").

Impervious areas are those areas with impervious surfaces which prevent or impede the infiltration of stormwater into the soil as it entered in natural conditions prior to development. Common impervious surfaces include, but are not limited to, roof tops, sidewalks, walkways, patio areas, driveways, parking lots, storage areas, compacted gravel and soil surfaces, awnings and other fabric or plastic coverings, and other surfaces that prevent or impede the natural infiltration of the stormwater runoff which existed prior to development.

Multiple-family dwelling means attached dwellings, townhomes, apartments, duplexes and condominiums.

Nonresidential property means any other real property in the Town that is used for uses other than residential, which includes, but is not limited to, commercial, industrial, public, church and school uses.

Private streets, rights-of-ways and alleys mean (a) roadways not accepted by the Town, which multiple abutting lots take direct vehicular access from, and which are connected to a public street, right-of-way or highway at both ends of such private roadway; or (b) roadways not accepted by the Town and located in a separate tract, which identifies such roadway as private.

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Public facilities means stormwater infrastructure accepted by the Town as provided in Section 4.08.090 of this Chapter.

Residential property means any real property that is used for residential uses including, but not limited to single-family and multiple-family dwellings and accessory uses that are customary to residential uses.

Single-family dwelling means detached houses.

Stormwater utility fee means the fee created in this Chapter for the funding of the Utility.

Town means the Town of Parker, Colorado.

Town Administrator means the Administrator for the Town of Parker or designee (the "Town Administrator").

Utility means the Stormwater Management Utility that is created in this Chapter.

(Ord. 1.467 §2, 2015; Ord. 8.22 §4, 1999)

4.08.040 - Stormwater Management Utility.

- (a) There is hereby created a Stormwater Management Utility in the Department of Engineering under the control of the Director, who is authorized to implement the provisions of this Chapter.
- (b) The owner of each parcel of real property in the Town shall pay the stormwater utility fee prescribed in Section 4.08.070 below for the coordination, management, design, construction, management, operation, maintenance and replacement of the Stormwater Management Utility and its facilities.

(Ord. 1.467 §3, 2015; Ord. 8.22 §5, 1999)

4.08.050 - Use of fee.

- (a) The Utility shall hold all funds received by the Town under this Section in a separate account to be established as the Stormwater Utility Fund and make expenditures thereof only for the purpose of:
 - (1) Administration, coordination, engineering, planning, professional services, design, construction, installation, repair, maintenance, operation, management, improvement, replacement and reconstruction of facilities in the Town necessary for the Utility to reasonably handle stormwaters in the Town; and
 - (2) The purchase of interests in real property including without limitation fee simple ownership and easements that may be necessary for the Utility to construct and maintain facilities and otherwise implement the purposes of this Section.
- (b) The Town may pledge stormwater utility fees collected under this Section and those anticipated to be collected to the retirement of the principal and interest of revenue or general obligation bonds issued by the Town for financing any of the activities and improvements set forth in Subsection (a) above.
- (c) The Town may pledge stormwater utility fees collected under this Section and those anticipated to be collected to participate with the Urban Drainage and Flood Control District or other public entity or private party having a common interest in storm drainage projects or facilities that benefit the Utility.

(Ord. 8.22 §6, 1999)

4.08.060 - Billing and payment of fees.

- (a) The Town shall cause billings for the stormwater utility fee to be rendered periodically at the rates established in Section 4.08.070 below.
- (b) The stormwater utility fee charged in each billing period and any notices relating to the Utility shall be effective upon mailing said billing or notice to the address of the property that is being served by the Utility or to the last known address of the property owner of the property being served by the Utility as shown in the records of the County Assessor. Failure to receive a bill is not a defense to nonpayment. Regardless of the person to whom the bill is initially directed, the owner of the property is ultimately responsible for the payment of such bill. The Town, without penalty, may correct any mistakes in a bill, including sending bills that the Town failed to send, so long as the corrected bill is sent within one (1) year of the date that the bill or the corrected bill should have been sent.
- (c) All charges for the use of the Utility prescribed by this Section are due upon receipt of the bill and in no case later than the last day of the month of receipt of the bill.

(Ord. 8.22 §7, 1999)

4.08.070 - Stormwater utility fee schedule.

- (a) The stormwater utility fee shall be paid by the property owner as follows:
 - (1) The amount of the fee for each single-family dwelling shall be five dollars (\$5.00) a month.
 - a. On January 1, 2008, the fee for each single-family dwelling shall be five dollars and fifty cents (\$5.50) a month.
 - b. On January 1, 2009, the fee for each single-family dwelling shall be six dollars (\$6.00) a month.
 - (2) The amount of the fee for each multiple-family dwelling, apartment and nonresidential property (collectively referred to as "nonresidential property") shall be calculated as follows:
Monthly fee = \$5.00 x (the total impervious area of the property in square feet) / (3,738 square feet).

- a. On January 1, 2008, the amount of the fee for nonresidential property shall be calculated as follows:

Monthly fee = \$5.50 x (the total impervious area of the property in square feet) / (4,000 square feet)

- b. On January 1, 2009, the amount of the fee for nonresidential property shall be calculated as follows:

Monthly fee = \$6.00 x (the total impervious area of the property in square feet) / (4,000 square feet)

- (b) It shall be unlawful for any owner of any nonresidential real property, including, but not limited to, commercial, industrial, public, church or school property to fail to notify the Director when any undeveloped, grassed landscaped or cultivated portion of his or her property has been modified in any manner so as to create additional impervious area of ten percent (10%) of the total impervious area or one thousand (1,000) square feet of impervious area, whichever is less.

(Ord. 8.22.1 §1, 2007; Ord. 8.22 §8, 1999)

4.08.080 - Certain properties exempt from fee.

The following land uses are exempt from the stormwater utility fee:

- (1) All public park land and open space;
- (2) All public or private ponds, lakes, reservoirs, rivers, creeks, natural water courses or irrigation ditch/canal rights-of-way;
- (3) All public streets, highways, rights-of-way and alleys; or
- (4) All private streets, highways, rights-of-way and alleys, provided however, adjacent on-street parking and sidewalks shall not be exempt;
(a) Private streets, rights of ways and alleys are further defined as a through road which multiple abutting lots take direct vehicular access and are connected to a public street, rights of way or highway at two separate points of access and serves multiple lots with a width no greater than 24 feet. The maximum width when immediately adjacent to parking stalls are not included shall be 24 feet. A private street, rights of way and alley may also be included if it is located in a separate tract which defines it as such.
- (54) All railroad rights-of-way;
- (65) All cemeteries;
- (76) Golf courses; and
- (87) All real property located within the A-Agricultural District as described in Section 13-04-050 of this Code.

(Ord. 8.22 §9, 1999)

4.08.090 - Responsibility for accepted public facilities.

- (a) All public facilities constructed, installed or provided hereunder shall, upon acceptance of the same by the Town in writing, become the property of the Town, and the Town thereafter shall be responsible for the operation and maintenance of the same.

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- (b) The Town shall maintain all accepted public facilities located within public lands, rights-of-way and easements and may maintain other accepted public facilities located within or adjacent to the Town. Such public facilities do not include facilities not accepted by the Town in writing for maintenance, or privately owned and/or maintained drainage facilities.

(Ord. 8.22 §10, 1999)

4.08.100 - Delinquency and collection.

- (a) The stormwater utility fee levied in accordance with this Chapter shall be paid ~~upon receipt of the bill and in no case later than the last day of the month of receipt of the bill or before the due date shown on the bill.~~ If the bill is not paid within thirty-five (35) days after ~~billing~~due date, and all appeals are exhausted under Section 4.08.110 below, it shall be deemed delinquent whereupon a twenty-five-dollar surcharge shall be imposed for collection services. In case the tenant in possession of any premises pays the fee, it shall relieve the property owner from such obligation. The owner of every structure or premises shall also be liable for the fee, which liability may be enforced, but the Town shall not be required to seek payment from any person whomsoever other than the property owner. No change of ownership shall affect the application of this Section, and the failure of any owner to discover that he or she purchased property against which a fee or surcharge exists shall in no way affect his or her liability for such payment in full.
- (b) Nonpayment. All delinquent stormwater utility fees and any accrued surcharges shall be certified by the Finance Director to the County Treasurer, pursuant to Section 31-20-105, C.R.S., as amended, and collected and paid over to the County Treasurer in the same manner as taxes.

(Ord. 8.22 §11, 1999)

4.08.110 - Administrative review; appeals.

Any property owner desiring to dispute the amount of any fee may appeal the assessment of said fee to the Town Administrator by submitting a written notice of appeal, within thirty (30) days of the billing date. If a notice of appeal of the fee payment is received by the Town within thirty (30) days of the billing date, then the Town Administrator shall schedule a hearing on said appeal to take place within forty-five (45) days of receipt of the notice of appeal. Notice of the time and place of the appeal hearing shall be mailed to the property owner by certified mail, return receipt requested. The Town Administrator, as a result of evidence produced at said hearing, after considering the facts submitted by the property owner, may deny the appeal or adjust the fee to be assessed to conform with the requirements of this Chapter.

(Ord. 8.22 §12, 1999)

4.08.120 - Review by Town Council.

The Town Council shall review the amount of the fees described in this Chapter at least every ~~three~~ five (5) years.

(Ord. 8.22 §13, 1999)

4.08.130 - Annual fee adjustment.

In 2010 and every year thereafter, the fees described in this Chapter shall be recomputed by raising the fees in an amount equal to the percentage of change for the preceding year in the U.S. Bureau of Labor Statistics Consumer Price Index for Denver-Boulder, All Items, All Consumers or its successor index. The Town Council may waive an annual increase for any particular year or years. This adjustment

shall not be considered a fee increase, but a method of accounting to ensure that the value of the revenue collected pursuant to this Chapter is maintained.

(Ord. 8.22.1 §2, 2007)

CHAPTER 4.08 – STORMWATER MANAGEMENT PROGRAM CODE CHANGE

STUDY SESSION 10.28.19

ENGINEERING
DEPARTMENT



PARKER
COLORADO

CHAPTER 4.08 – STORMWATER MANAGEMENT PROGRAM CODE CHANGE

- 4.08.080 – CERTAIN PROPERTIES EXEMPT FROM THE STORMWATER UTILITY FEE
 - ALL PUBLIC OR PRIVATE STREETS, RIGHTS-OF-WAYS AND ALLEYS
- CURRENTLY NO DEFINITION FOR “PRIVATE STREETS, RIGHTS-OF-WAYS AND ALLEYS”

CHAPTER 4.08 – STORMWATER MANAGEMENT PROGRAM CODE CHANGE

- 4.08.030 – DEFINITIONS

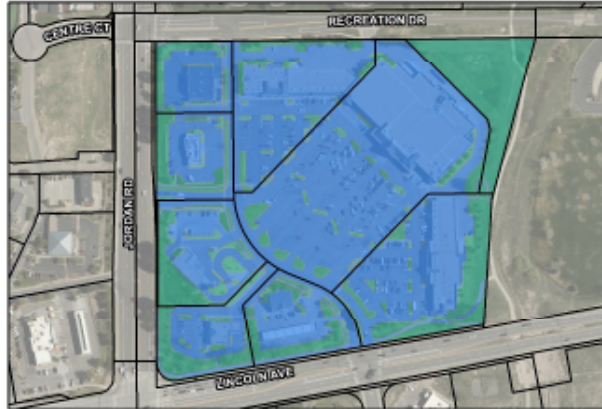
- PROPOSE NEW DEFINITION

- *“Private streets, rights-of-ways and alleys mean (a) roadways not accepted by the Town, which multiple abutting lots take direct vehicular access from, and which are connected to a public street, right-of-way or highway at both ends of such private roadway; or (b) roadways not accepted by the Town and located in a separate tract, which identifies such roadway as private.”*

CURRENT INTERPRETATION VS. PROPOSED CHANGE

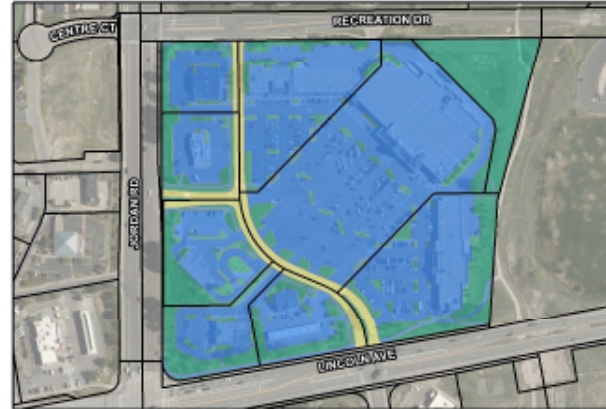
Crossing at Stonegate

BEFORE



9 Properties
634,168 square feet of impervious area

AFTER



9 Properties
582,338 square feet of impervious area
(8% decrease)

Legend

- Impervious Surface
- Pervious Surface
- Exempt Right-of-Way
- Parcels

ENGINEERING
DEPARTMENT



PARKER
COLORADO

CURRENT INTERPRETATION VS. PROPOSED CHANGE

Hilltop Curve Commercial

BEFORE



6 Properties
228,976 square feet of impervious area

AFTER



6 Properties
203,490 square feet of impervious area
(11% decrease)

Legend

- Impervious Surface
- Pervious Surface
- Exempt Right-of-Way
- Parcels

ENGINEERING
DEPARTMENT

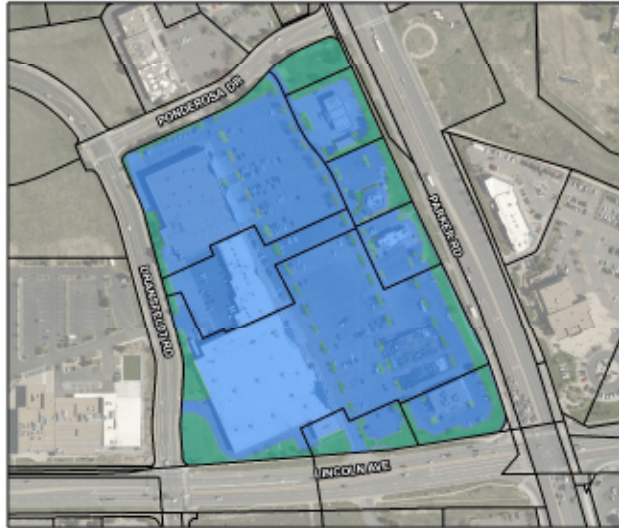


PARKER
COLORADO

CURRENT INTERPRETATION VS. PROPOSED CHANGE

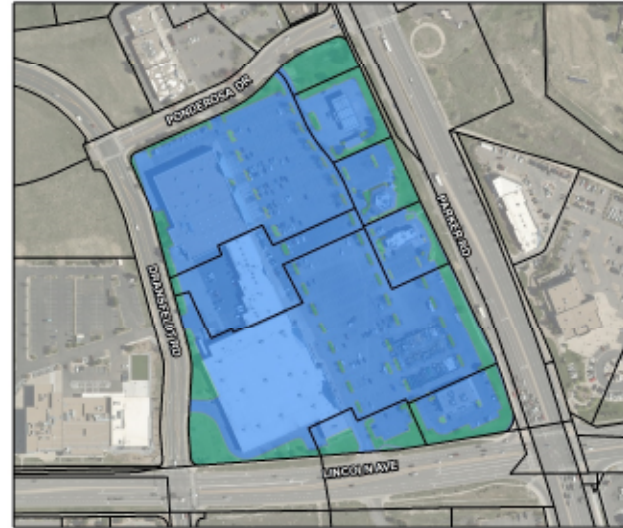
Maclachlan Commercial Area

BEFORE



9 Properties
717,827 square feet of impervious area

AFTER



NO CHANGES FOR 2020

Legend

- Impervious Surface
- Pervious Surface
- Exempt Right-of-Way
- Parcels

ENGINEERING
DEPARTMENT



PARKER
COLORADO

2019 STORMWATER REVENUE IMPACT

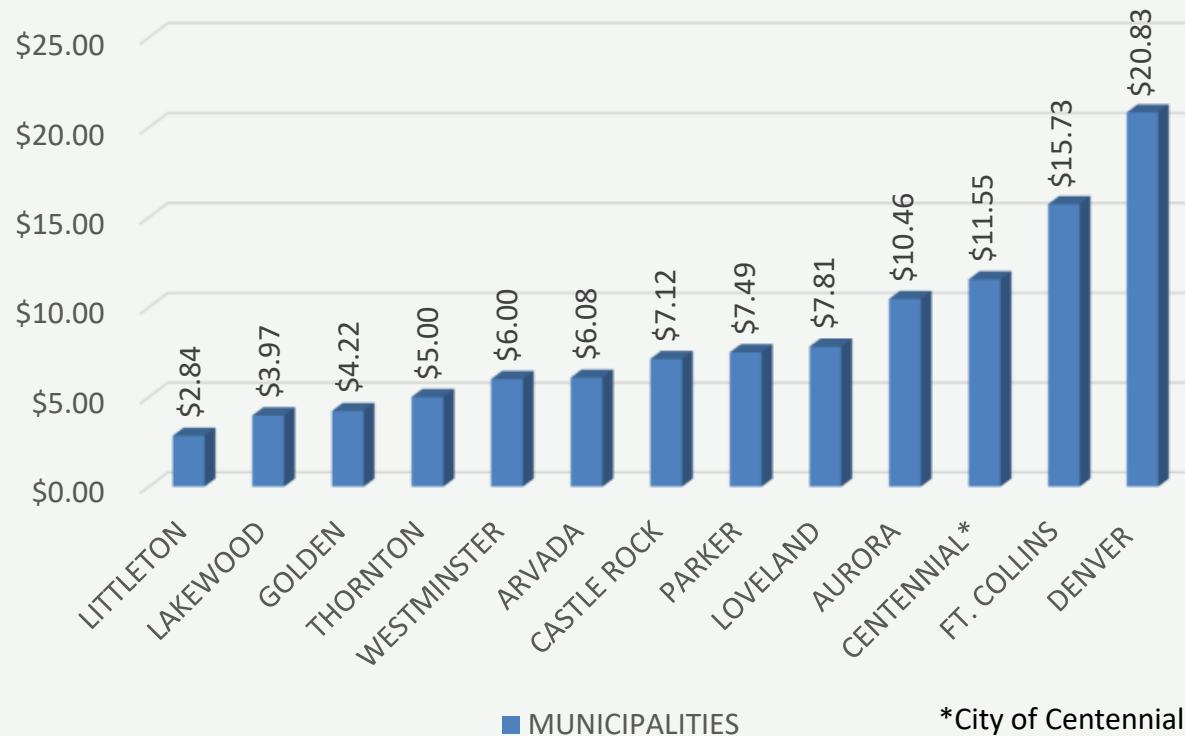
- STORMWATER COMMERCIAL FEE: \$7.49/4,000 X S.F. OF IMPERVIOUS AREA
 - 47,467,467 S.F. OF COMMERCIAL IMPERVIOUSNESS AS OF 8/1/19
 - \$1,066,593.98 IN REVENUE FOR 2019
- PROPOSED DEFINITION IMPACT:
 - REDUCE COMMERCIAL IMPERVIOUSNESS BY 1,179,391 S.F.
 - \$26,500.92 REDUCED REVENUE (2019 FEE)
- PROPOSED STORMWATER FEE FOR 2020 IS \$7.65
 - \$27,067.02 REDUCED REVENUE (2020 FEE)
- NOTE: AN ADDITIONAL 465,980 S.F. OF IMPERVIOUSNESS WILL BE REMOVED IN 2020 BASED ON MAPPING ERRORS/DISCREPENCIES IDENTIFIED DURING THIS EXERCISE

SUMMARY

- ADDITIONAL PROPOSED CODE CHANGES
 - STORMWATER BILLING BY FINANCE DEPARTMENT
 - BILL DUE ON OR BEFORE DUE DATE SHOWN ON BILL RATHER THAN THE LAST DAY OF THE MONTH OF RECEIPT OF BILL
 - CLARIFY WHEN THE BILL IS CONSIDERED DELINQUENT
 - TOWN COUNCIL SHALL REVIEW THE FEES AT LEAST EVERY 5 YEARS RATHER THAN EVERY THREE YEARS
 - THIS CORRESPONDS TO THE NEEDS ASSESSMENT REPORT THAT HAS A SHELF LIFE OF 10 YEARS.
 - COUNCIL REVIEWS FEES HALFWAY THROUGH THE FORECAST PERIOD OF THE NEEDS ASSESSMENT REPORT
- PRIVATE STREETS, RIGHTS-OF-WAYS AND ALLEYS DEFINITION WILL PROVIDE CLARITY TO STAFF AND PROPERTY OWNERS AS TO WHAT QUALIFIES FOR THE STORMWATER FEE EXEMPTION
- REDUCTION IN REVENUE IS MINIMAL FOR 2019 AND 2020
 - DUE TO THE EXPECTED GROWTH IN THE TOWN, STAFF STILL EXPECTS HIGHER REVENUE IN 2020 THAN 2019 EVEN WITH THIS CHANGE

TOWN STORMWATER FEES AS COMPARED TO OTHER MUNICIPALITIES

2019 MONTHLY SFR STORMWATER FEE



*City of Centennial serviced by the Southeast Metro Stormwater Authority (SEMSWA)

ENGINEERING
DEPARTMENT



PARKER
COLORADO

QUESTIONS???

ENGINEERING
DEPARTMENT



PARKER
C O L O R A D O



MEMORANDUM

TO: Mayor and Town Council

FROM: Dennis Trapp, Projects Administrator
Chris Hudson, Public Works Manager

DATE: October 28, 2019

SUBJECT: High Plains Trail Project Update

ISSUE:

The High Plains Trail (HPT) project is a regional partnership between Douglas County, Arapahoe County, Aurora and Parker (The Partners Group) to design, construct and maintain this new regional trail. Staff will be providing a project update and briefing Council on the proposed second amendment to the current IGA between Arapahoe County and the Town addressing completion of design, engineering and construction documents.

FISCAL/BUDGET IMPACT:

The cost of the HPT project can be broken down into three major categories; 1) Design and Engineering Fees, 2) Construction Costs, and 3) Long-Term Maintenance.

Design and Engineering Fees - Exhibit A provides a breakdown of prior and future fees associated with the preparation of design and engineering documents. The \$200,000 allocation shown was previously approved by Council as part of the IGA between the Town and Arapahoe County (12/03/18). Remaining fees to complete design and engineering are estimated at \$360,000. This cost will be evenly split between Arapahoe County and the Town and is being proposed to be memorialized as an amendment to the existing IGA.

Construction Costs/Funding Sources – Exhibit B provides estimated construction costs in addition to current funding sources. These funding sources include both secured amounts (\$4,840,000) and estimated amounts (\$2,750,000). The Partners Group is continuing to seek additional secured funds in the form of potential grant opportunities.

Long-Term Maintenance Obligations – Exhibit C illustrates future maintenance responsibilities and commitments among the various Partner jurisdictions. As it pertains to the Town, the only new trail segment that the Town will maintain is that portion of the existing Centennial Trail within the Town west of the Cherry Creek Trail. The Town will take over maintenance of this trail segment upon completion of the HPT as memorialized in the IGA between the E-470 Authority and the Town, dated 11/21/16. Estimated annual cost to maintain this trail segment in

2016 was approximately \$7,800. Until this trail maintenance obligation is transferred to the Town, the Authority is still responsible for all maintenance and repairs of this trail segment.

BACKGROUND:

The HPT will provide a critical link between the existing regional trail along the west side of the E-470 Tollway north of the Arapahoe/Douglas County line to various regional trails west of Parker Road (see Exhibit D). This one-mile trail segment will be 10-feet wide and includes a grade-separated pedestrian overpass of Parker Road. This overpass will provide access to both the Cherry Creek and Centennial trails thereby providing trail users the opportunity to access major open space and recreational amenities.

The Partners Group is coordinating design and various funding efforts to construct Segments I, II & IV of the trail. A private party (Kings Point Development) will construct Segment III as part of its existing development obligations with the City of Aurora (see Exhibit E). The portion of the HPT on the west side of Parker Road will generally follow the property line between the Norton Farms and 17-Mile House properties. As such the existing conservation easements (CE) for each of these properties will need to be amended prior to any trail construction (see Exhibit F).

As noted previously there has been two prior actions by Town Council regarding the HPT project. These included the approval of an IGA with the E-470 Authority committing \$438,000 towards the project and stipulating timeframes for issuance of construction contracts and completion of a long-term maintenance agreement, and a second IGA between the Town and Arapahoe County allocating \$200,000 to begin initial design and engineering efforts.

RECOMMENDATION:

This report and update on the High Plains Trail project is for informational purposes.

REQUESTED DIRECTION:

Direct staff to continue their efforts on the HPT project including preparation of the second amendment to the IGA with Arapahoe County.

ATTACHMENT:

1. Exhibit A Design Budget for IGA Amendment
2. Exhibit B Current Funding Sources
3. Exhibit C - Proposed High Plains Trail Maintenance Responsibilities
4. Exhibit D - High Plains Trail Connection Gap
5. Exhibit E - High Plains Trail Connection at Kings Point
6. Exhibit F - High Plains Trail with Conservation Easements

EXHIBIT A

HIGH PLAINS TRIAL

FINAL DESIGN/ENGINEERING & CONSTRUCTION DRAWINGS COST ESTIMATE

<u>PRIOR DESIGN/ENGINEERING PROJECT COMPONENTS</u>	<u>AMOUNT</u>
Conceptual Design <i>(Segments I and II)</i>	\$37,493
Conceptual Design <i>(Segment IV)</i>	\$20,947
Initial Design <i>(Segments I and II)</i>	\$78,529
30% Design <i>(Segment IV)</i>	\$25,761
Final Design/Construction Drawings <i>(Segment IV)</i>	<u>\$37,270</u>
TOTAL <i>(previously approved per IGA dated 12/03/18)</i>	\$200,000
<i>Total Design/Engineering Costs – Town of Parker share (50%)</i>	<i>\$100,000</i>
<i>Total Design/Engineering Costs – Arapahoe County share (50%)</i>	<i>\$100,000</i>
<u>FUTURE DESIGN/ENGINEERING PROJECT COMPONENTS</u>	<u>AMOUNT</u>
Segments I and II <i>(60% Design)</i>	\$61,641
Segments I and II <i>(90% Design)</i>	\$137,175
Segments I and II <i>(100% Design/Construction Drawings)</i>	\$41,666
Segments I and II <i>(Design services during construction)</i>	\$28,796
Raising power line along east side of Parker Road <i>(estimated cost)</i>	<u>\$25,000</u>
SUB-TOTAL	\$294,278
Overall Project Design Contingency <i>(approx. 22%)</i>	<u>\$65,722</u>
TOTAL	\$360,000
<i>Total Design/Engineering Costs - Town of Parker share (50%)</i>	<i>\$180,000</i>
<i>Total Design/Engineering Costs - Arapahoe County share (50%)</i>	<i>\$180,000</i>

EXHIBIT B

HIGH PLAINS TRAIL

ESTIMATED CONSTRUCTION COST

Segments I & II (<i>Includes bridge structure</i>)	\$6,355,590
Segment IV	\$706,757
Annual construction cost inflation rate of 3%	<u>\$211,870</u>
Sub-Total	\$7,274,217
Construction soft cost (<i>Design/Engineering/Const. Docs.</i>)	<u>\$560,000</u>
TOTAL	\$7,834,217

CURRENT FUNDING SOURCES

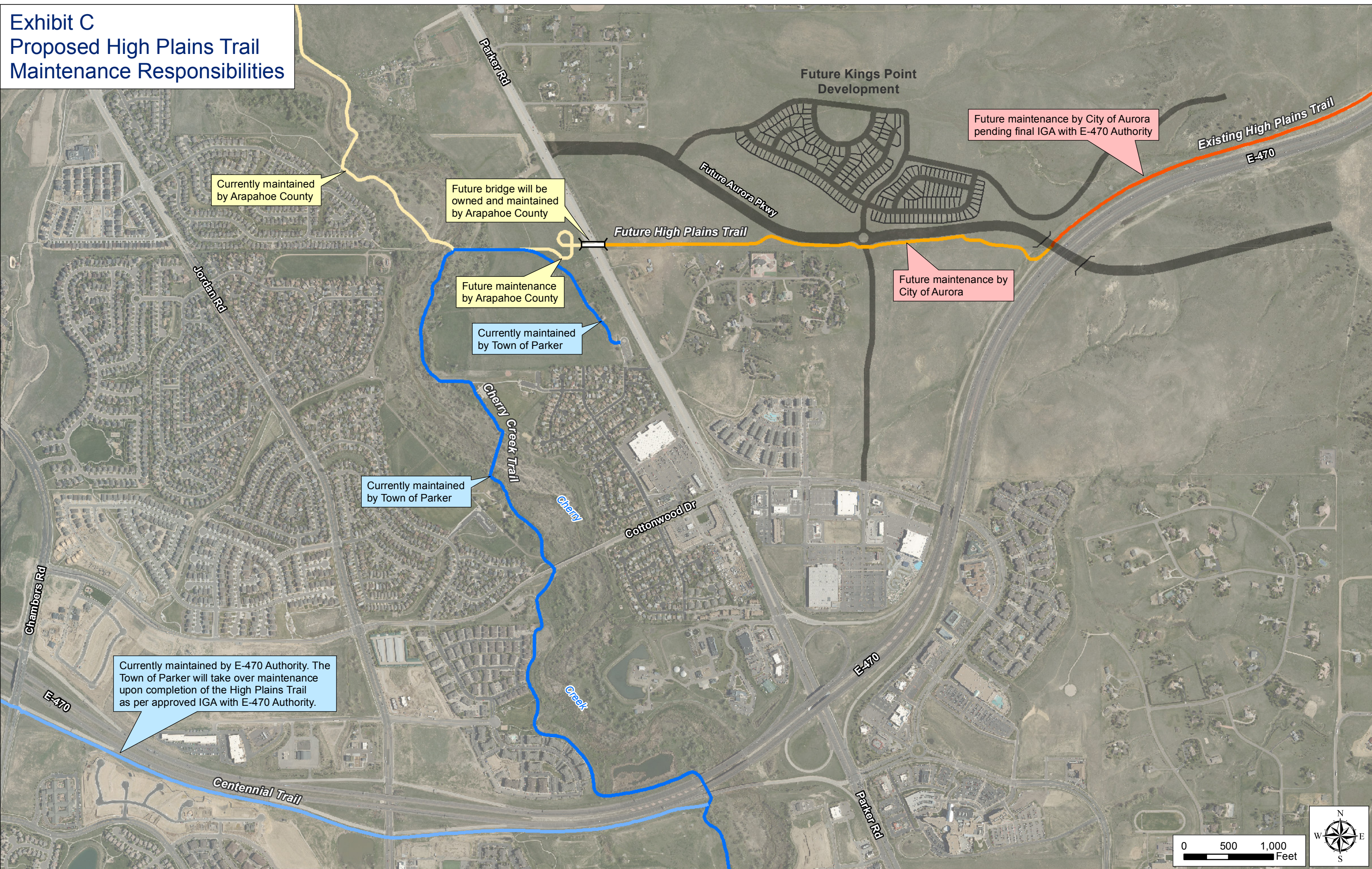
Secured

E-470 Highway Authority (<i>with projected accrued interest</i>)	\$465,000
DRCOG TIP Funding (<i>Regional Multi-modal allocation</i>)	\$2,000,000
DRCOG TIP Funding (<i>Sub-regional Multi-modal allocation</i>)	\$375,000
GOCO Connect Initiative Grant (<i>approved on 9/27/19</i>)	<u>\$2,000,000</u>
Sub-Total	\$4,840,000

Estimated

Douglas County Government	\$750,000
Arapahoe County Government	\$750,000
City of Aurora	\$500,000
Town of Parker	<u>\$750,000</u>
Sub-Total	<u>\$2,750,000</u>
TOTAL	\$7,590,000

Exhibit C
Proposed High Plains Trail
Maintenance Responsibilities



Currently maintained
by Arapahoe County

Future bridge will be
owned and maintained
by Arapahoe County

Future maintenance
by Arapahoe County

Currently maintained
by Town of Parker

Currently maintained
by Town of Parker

Currently maintained by E-470 Authority. The
Town of Parker will take over maintenance
upon completion of the High Plains Trail
as per approved IGA with E-470 Authority.

Future maintenance by City of Aurora
pending final IGA with E-470 Authority

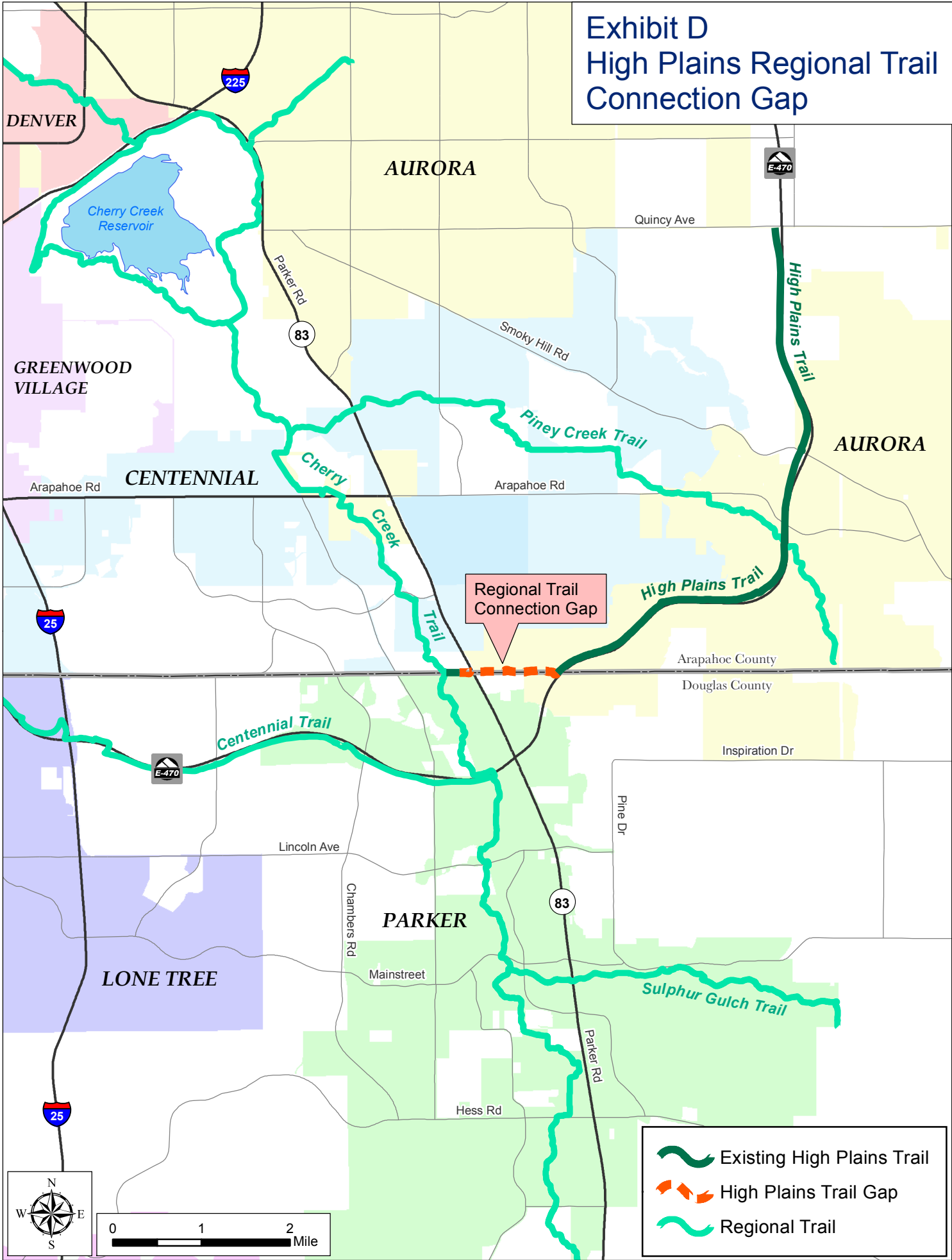
Future maintenance by
City of Aurora

Existing High Plains Trail
E-470

0 500 1,000
Feet



Exhibit D High Plains Regional Trail Connection Gap



IGA - Exhibit E
Four (4) Segments of the
Proposed High Plains Trail

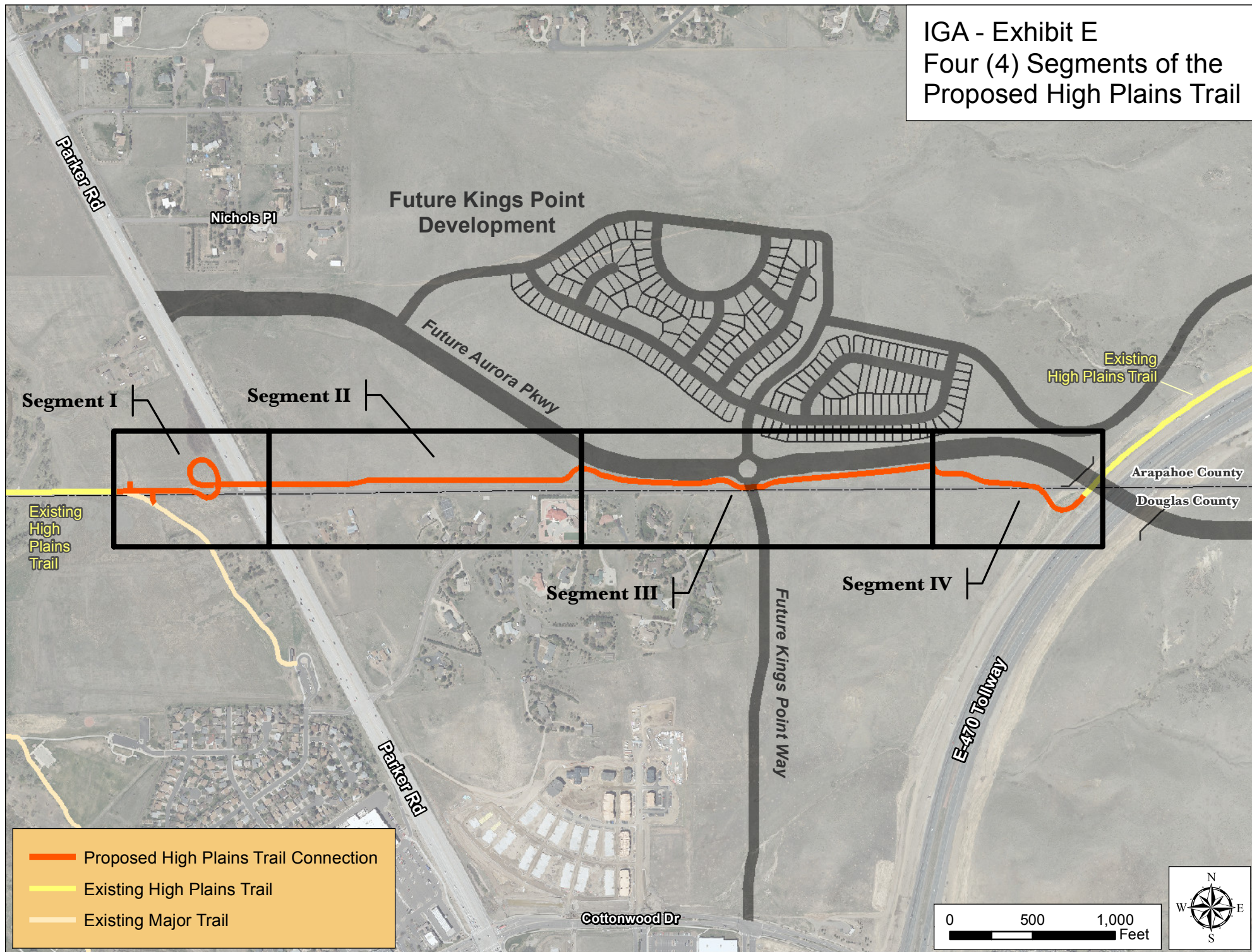
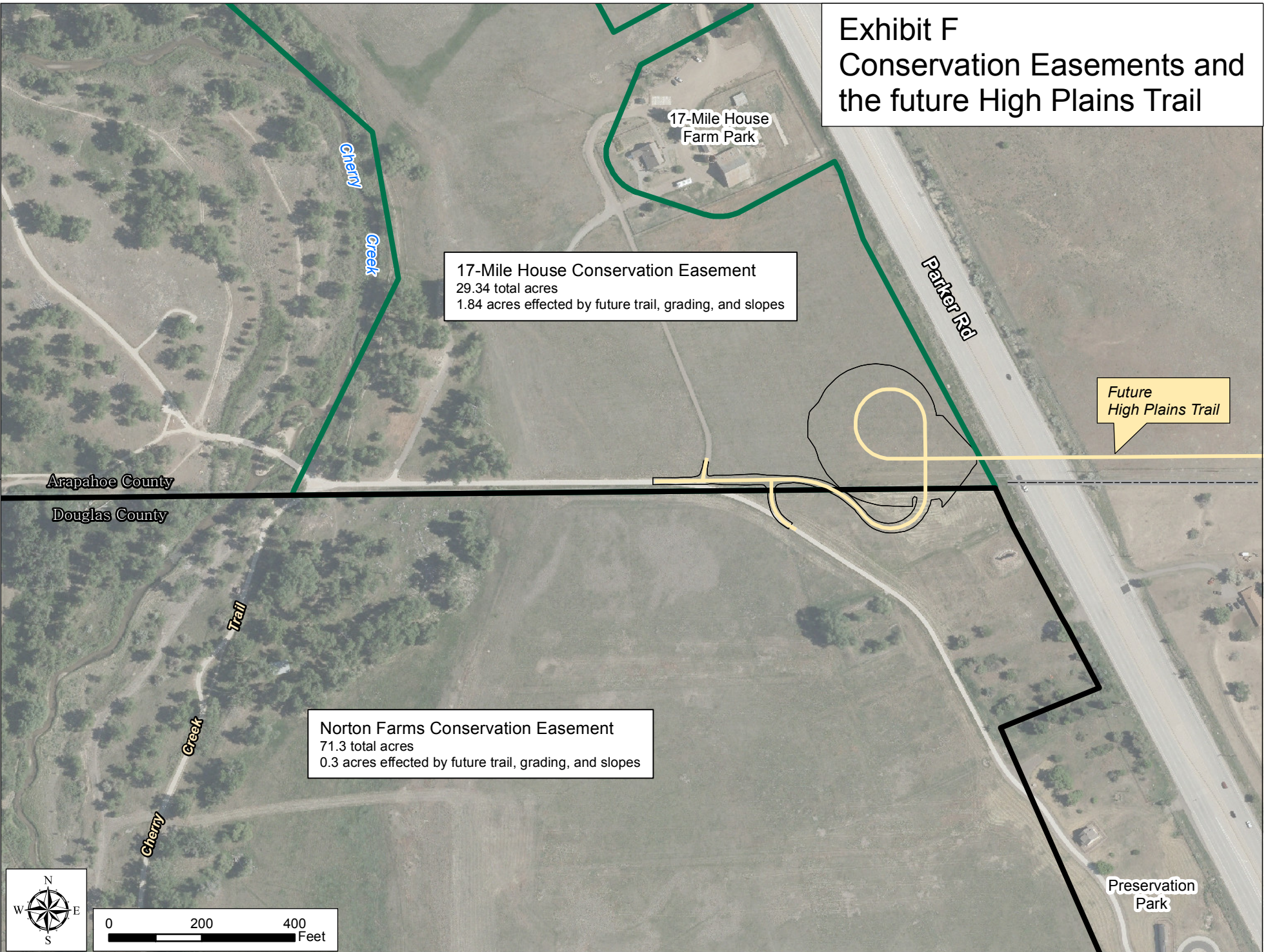


Exhibit F Conservation Easements and the future High Plains Trail





MEMORANDUM

TO: Mayor and Town Council
FROM: Mary Lou Brown, Finance Director
DATE: October 28, 2019
SUBJECT: Proposed 2020 Budget Overview

ISSUE:

Brief overview of 2020 Town of Parker budget and address any questions prior to first public hearing on November 4, 2019.

FISCAL/BUDGET IMPACT:

The 2020 Town of Parker budget for all funds totals \$117,375,449 in revenues and \$116,799,297 in appropriations, both including transfers.

BACKGROUND:

A budget retreat was held with Council on Friday, September 27, 2019, to introduce the 2020 budget. On October 9, 2019 the budget document was sent to Council and this was followed up on October 11, 2019, with the posting of the document on the Town's Internet site. These actions enabled the Town to meet the State requirement of budgets being made available no later than October 15.

RECOMMENDATION:

The Study Session is to answer any questions that remain regarding the 2020 budget prior to the first public hearing which will occur on Monday, November 4, 2019. The second public hearing and vote will occur on Monday, December 2, 2019.

REQUESTED DIRECTION:

For informational only.

ATTACHMENT:

1. 2020 Projected Annual Budget

2020 Projected Annual Budget



October 9, 2019

TOWN OF PARKER



PARKER
COLORADO

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<i>General Fund Summary</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
Beginning Fund Balance	\$ 21,122,862	\$ 18,920,255	\$ 17,498,023	\$ 21,031,496	\$ 21,031,496	\$ 17,415,736	-5%
Revenues							
Taxes	36,417,312	38,574,136	40,307,267	40,309,798	41,168,800	42,172,454	4%
Licenses and Permits	1,828,083	2,287,377	2,541,078	2,191,294	2,392,240	2,491,980	8%
Intergovernmental	4,336,763	4,184,891	4,278,259	4,327,260	4,181,630	3,538,891	-5%
Charges for Services	2,488,876	3,186,945	3,245,382	3,346,146	3,603,680	3,460,100	9%
Fines and Forfeitures	216,656	200,271	157,074	189,600	122,000	121,000	-14%
Interest	122,167	148,988	364,607	320,000	375,000	320,000	27%
Miscellaneous	202,607	544,357	258,889	593,595	604,386	75,000	-22%
Other Financial Sources	69,150	23,591	68,640	-	55,109	-	
Transfers In	1,095,900	1,152,600	1,853,304	1,460,674	1,460,674	1,463,070	7%
Total Revenues	\$ 46,777,513	\$ 50,303,156	\$ 53,074,501	\$ 52,738,367	\$ 53,963,520	\$ 53,642,495	3%

<i>General Fund Summary</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Expenditures by Department</i>							
Elected Officials	\$ 154,118	\$ 158,407	\$ 144,333	\$ 177,858	\$ 176,741	\$ 171,071	3%
Town Clerk	241,323	338,467	305,971	387,639	385,139	378,698	12%
Municipal Court	300,214	322,192	333,869	366,287	362,247	433,231	10%
Town Administrator	879,214	844,164	480,197	504,802	496,072	518,938	-12%
Elections	29,111	-	31,396	32,000	63,000	125,000	44%
Finance	1,031,874	1,025,223	880,482	1,025,865	998,485	1,194,391	4%
Sales Tax	414,147	422,898	445,119	481,906	480,805	466,029	3%
Legal Services	597,798	686,476	791,330	948,094	887,989	1,030,704	15%
Human Resources	810,889	769,242	652,305	769,633	768,633	978,438	5%
Risk Management	304,651	336,250	363,955	409,674	409,674	421,198	8%
Community Development	1,624,273	1,608,986	1,350,102	1,747,820	1,713,435	1,561,282	-1%
Communications	801,824	904,882	814,277	874,738	859,113	971,158	5%
General Government Buildings	490,322	680,859	645,390	611,195	582,292	733,102	11%
Customer Service	135,022	139,544	136,225	155,617	155,617	160,798	4%
Historic Preservation	5,570	523	1,019	3,000	3,000	3,000	-14%
Interdepartmental	412,657	375,859	437,678	891,856	783,176	1,348,647	34%
Debt Service	3,744,193	3,724,143	3,699,875	7,173,205	7,196,705	2,349,650	-11%
Police	15,178,446	16,125,515	16,490,223	17,746,259	17,580,418	17,372,687	3%
Building Inspection	1,532,120	1,484,295	1,577,405	1,590,256	1,588,696	1,624,535	1%
Public Works	10,135,174	11,564,808	11,468,382	12,504,834	12,343,345	12,927,350	6%
Parks, Forestry and Open Space	3,463,136	3,546,984	3,641,886	4,491,366	4,451,590	3,925,657	3%
Public Works Facility	182,675	172,564	185,150	210,404	211,106	213,975	4%
Parks and Forestry Facility	277,998	344,620	225,063	248,541	248,056	280,388	0%
Economic Development	619,206	644,324	443,628	569,200	554,200	509,501	-5%

	2016	2017	2018	2019	2019	2020	Compound
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
General Fund Summary							
Economic Incentives	1,557,960	1,488,224	1,267,768	1,500,000	1,500,000	1,500,000	-1%
P3 Services	-	-	285,774	342,480	342,480	330,684	
Interfund Transfers	4,056,205	4,015,939	2,442,226	2,437,265	2,437,265	2,171,066	-14%
Total Expenditures	\$ 48,980,120	\$ 51,725,388	\$ 49,541,028	\$ 58,201,794	\$ 57,579,279	\$ 53,701,179	2%
Ending Fund Balances	\$ 18,920,255	\$ 17,498,023	\$ 21,031,496	\$ 15,568,069	\$ 17,415,736	\$ 17,357,053	-2%
Expenditures by Category							
Salary and Benefits	20,716,039	21,833,842	22,725,123	24,621,649	24,594,740	26,069,845	6%
Supplies	1,294,283	1,262,038	836,074	1,052,941	989,763	1,041,961	-5%
Purchased Services	8,982,072	9,828,104	10,088,744	11,603,192	11,120,896	10,872,169	5%
Internal Services	5,531,561	5,858,209	4,971,075	6,060,516	6,060,516	6,789,252	5%
Insurance/Utilities	1,259,134	1,307,846	1,349,971	1,423,650	1,449,030	1,471,135	4%
Debt Service	3,744,193	3,724,143	3,699,875	7,173,205	7,196,705	2,349,650	-11%
Capital Outlay	1,496,784	1,992,172	1,767,176	1,443,036	1,411,930	699,200	-17%
Economic Development Incentives	1,557,960	1,488,224	1,309,990	1,558,000	1,558,000	1,554,000	0%
Other	341,889	414,871	350,782	828,340	760,434	682,900	19%
Transfers Out	4,056,205	4,015,939	2,442,226	2,437,265	2,437,265	2,171,066	-14%
Total Expenditures	\$ 48,980,120	\$ 51,725,388	\$ 49,541,036	\$ 58,201,794	\$ 57,579,279	\$ 53,701,179	2%
Ending Fund Balances	\$ 18,920,255	\$ 17,498,023	\$ 21,031,496	\$ 15,568,069	\$ 17,415,736	\$ 17,357,053	-2%

<i>Elected Officials</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Expenditures by Function</i>							
Elected Officials	\$ 154,118	\$ 158,407	\$ 144,333	\$ 177,858	\$ 176,741	\$ 171,071	3%
<i>Total Expenditures by Function</i>	\$ 154,118	\$ 158,407	\$ 144,333	\$ 177,858	\$ 176,741	\$ 171,071	3%
<i>Expenditures by Category</i>							
Salary and Benefits	106,850	102,083	104,970	108,221	104,829	107,934	0%
Supplies	26,617	37,326	23,263	32,530	31,730	25,030	-2%
Purchased Services	20,651	18,998	9,984	14,350	17,425	14,350	-9%
Internal Services	-	-	6,116	22,757	22,757	23,757	
<i>Total Expenditures by Category</i>	\$ 154,118	\$ 158,407	\$ 144,333	\$ 177,858	\$ 176,741	\$ 171,071	3%
<i>Sources of Funding</i>							
General Fund	154,118	158,407	144,333	177,858	176,741	171,071	3%
<i>Total Sources of Funding</i>	\$ 154,118	\$ 158,407	\$ 144,333	\$ 177,858	\$ 176,741	\$ 171,071	3%

	2016	2017	2018	2019	2019	2020	Compound
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Town Clerk</i>							
<i>Expenditures by Function</i>							
Town Clerk	\$ 241,323	\$ 338,467	\$ 305,971	\$ 387,639	\$ 385,139	\$ 378,698	12%
Elections	29,111	-	31,396	32,000	63,000	125,000	44%
Customer Service	135,022	139,544	136,225	155,617	155,617	160,798	4%
<i>Total Expenditures by Function</i>	\$ 405,456	\$ 478,011	\$ 473,592	\$ 575,256	\$ 603,756	\$ 664,496	13%
<i>Expenditures by Category</i>							
Salary and Benefits	226,436	315,286	327,787	419,334	419,334	407,269	16%
Supplies	10,714	1,274	1,410	1,975	1,975	2,025	-34%
Purchased Services	69,966	42,882	83,426	82,825	111,325	180,350	27%
Internal Services	98,340	102,120	60,969	71,122	71,122	74,852	-7%
Utilities/Insurance	-	-	-	-	-	-	
Capital Outlay	-	16,449	-	-	-	-	
<i>Total Expenditures by Category</i>	\$ 405,456	\$ 478,011	\$ 473,592	\$ 575,256	\$ 603,756	\$ 664,496	13%
<i>Sources of Funding</i>							
Licenses and Permits	30,445	39,008	39,595	37,429	45,500	46,865	11%
Charges for Services	1,661	1,068	6,492	500	3,000	1,000	-12%
General Fund	373,350	437,935	427,505	537,327	555,256	616,631	13%
<i>Total Sources of Funding</i>	\$ 405,456	\$ 478,011	\$ 473,592	\$ 575,256	\$ 603,756	\$ 664,496	13%
<i>Authorized FTE Positions</i>							
Town Clerk	1.0	1.0	1.0	1.0	1.0	1.0	
Deputy Town Clerk	1.0	1.0	1.0	1.0	1.0	1.0	
Administrative Clerk*	1.0	1.0	1.0	1.0	1.0	1.0	
Customer Service Specialist	2.6	2.6	2.6	2.6	2.6	2.0	
<i>Total Authorized FTE Positions</i>	5.6	5.6	5.6	5.6	5.6	5.0	

*Administrative Clerk budgeted at 80% for 2019 and 2020

	2016	2017	2018	2019	2019	2020	Compound
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
Municipal Court							
Expenditures by Function							
Municipal Court	\$ 300,214	\$ 322,192	\$ 333,869	\$ 366,287	\$ 362,247	\$ 433,231	10%
Total Expenditures by Function	\$ 300,214	\$ 322,192	\$ 333,869	\$ 366,287	\$ 362,247	\$ 433,231	10%
Expenditures by Category							
Salary and Benefits	173,715	196,598	203,283	227,800	227,800	246,471	9%
Supplies	19,715	13,782	34,668	20,740	18,200	14,400	-8%
Purchased Services	52,436	55,712	51,799	76,105	74,605	75,105	9%
Internal Services	54,348	56,100	44,119	41,642	41,642	97,255	16%
Total Expenditures by Category	\$ 300,214	\$ 322,192	\$ 333,869	\$ 366,287	\$ 362,247	\$ 433,231	10%
Sources of Funding							
Charges for Services	92,769	93,623	70,127	87,600	56,900	43,250	-17%
Contributions	1,000	-	1,580	-	750	-	
General Fund	206,445	228,569	262,162	278,687	304,597	389,981	17%
Total Sources of Funding	\$ 300,214	\$ 322,192	\$ 333,869	\$ 366,287	\$ 362,247	\$ 433,231	10%
Authorized FTE Positions							
Court Administrator	1.0	1.0	1.0	1.0	1.0	1.0	
Court Clerk	1.6	2.4	1.8	1.8	1.8	1.8	
Total Authorized FTE Positions	2.6	3.4	2.8	2.8	2.8	2.8	

	2016	2017	2018	2019	2019	2020	Compound
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Town Administrator</i>							
<i>Expenditures by Function</i>							
Town Administrator	\$ 879,214	\$ 844,164	\$ 480,197	\$ 504,802	\$ 496,072	\$ 518,938	-12%
<i>Total Expenditures by Function</i>	\$ 879,214	\$ 844,164	\$ 480,197	\$ 504,802	\$ 496,072	\$ 518,938	-12%
<i>Expenditures by Category</i>							
Salary and Benefits	768,615	732,331	410,661	431,365	431,365	438,693	-13%
Supplies	11,050	16,761	2,300	4,380	3,800	4,380	-21%
Purchased Services	54,489	48,260	36,033	37,950	29,800	49,275	-2%
Internal Services	45,060	46,812	31,203	31,107	31,107	26,590	-12%
<i>Total Expenditures by Category</i>	\$ 879,214	\$ 844,164	\$ 480,197	\$ 504,802	\$ 496,072	\$ 518,938	-12%
<i>Sources of Funding</i>							
General Fund	879,214	844,164	480,197	504,802	496,072	518,938	-12%
<i>Total Sources of Funding</i>	\$ 879,214	\$ 844,164	\$ 480,197	\$ 504,802	\$ 496,072	\$ 518,938	-12%
<i>Authorized FTE Positions</i>							
Town Administrator	1.00	1.00	1.00	0.75	0.75	0.75	
Deputy Town Administrator*	1.00	1.00	1.00	1.00	1.00	1.00	
Assistant Town Administrator	1.00	-	1.00	-	-	-	
Administrative Manager	1.00	-	1.00	-	-	-	
Assistant to the Town Administrator	-	1.00	-	1.00	1.00	1.00	
Executive Assistant	-	1.00	-	1.00	1.00	1.00	
<i>Total Authorized FTE Positions</i>	4.00	4.00	4.00	3.75	3.75	3.75	

*Deputy Town Administrator budgeted at 7% for 2019 and 2020

	2016	2017	2018	2019	2019	2020	Compound
<i>Finance</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Expenditures by Function</i>							
Finance	\$ 1,031,874	\$ 1,025,223	\$ 880,482	\$ 1,025,865	\$ 998,485	\$ 1,194,391	4%
Sales Tax	414,147	422,898	445,119	481,906	480,805	466,029	3%
<i>Total Expenditures by Function</i>	\$ 1,446,021	\$ 1,448,121	\$ 1,325,601	\$ 1,507,771	\$ 1,479,290	\$ 1,660,420	4%
<i>Expenditures by Category</i>							
Salary and Benefits	1,009,929	979,736	1,015,967	1,105,564	1,105,564	1,285,919	6%
Supplies	21,945	9,282	6,648	7,428	7,428	8,283	-22%
Purchased Services	220,528	192,228	165,605	194,435	165,954	187,080	-4%
Internal Services	163,308	147,180	126,381	92,889	92,889	179,138	2%
Capital Outlay	30,311	119,695	11,000	107,455	107,455	-	
<i>Total Expenditures by Category</i>	\$ 1,446,021	\$ 1,448,121	\$ 1,325,601	\$ 1,507,771	\$ 1,479,290	\$ 1,660,420	4%
<i>Sources of Funding</i>							
Sales Tax Audit	173,990	307,402	360,934	298,800	355,000	272,100	12%
Licenses and Permits	71,294	49,725	79,100	25,000	50,000	80,000	3%
Charges for Services	5,413	29,131	18,505	20,000	19,600	20,000	39%
General Fund	1,195,324	1,061,863	867,062	1,163,971	1,054,690	1,288,320	2%
<i>Total Sources of Funding</i>	\$ 1,446,021	\$ 1,448,121	\$ 1,325,601	\$ 1,507,771	\$ 1,479,290	\$ 1,660,420	4%

	2016	2017	2018	2019	2019	2020
<i>Finance</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget
<i>Authorized FTE Positions</i>						
Finance Director	1.00	1.00	0.50	0.50	0.50	0.50
Controller	-	-	-	-	-	1.00
Accounting Manager	1.00	1.00	1.00	1.00	1.00	-
Finance Manager	-	-	-	-	-	1.00
Sales Tax Administrator	1.00	1.00	1.00	1.00	1.00	1.00
Procurement Officer	1.00	1.00	1.00	1.00	1.00	1.00
Procurement Technician	-	-	-	0.50	0.50	0.50
Accountant	1.00	1.00	1.00	1.00	1.00	1.00
Accounting Technician	3.34	3.34	3.34	3.34	3.34	2.34
Payroll Specialist	-	-	-	-	-	1.00
Sales Tax Analyst	1.00	1.00	1.00	1.00	1.00	0.50
Sales Tax Auditor	3.00	3.00	3.00	3.00	3.00	2.50
Sales Tax Compliance Specialist	-	-	-	-	-	1.00
<i>Total Authorized FTE Positions</i>	12.34	12.34	11.84	12.34	12.34	13.34

	2016	2017	2018	2019	2019	2020	Compound
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Legal Services</i>							
<i>Expenditures by Function</i>							
Legal Services	\$ 597,798	\$ 686,476	\$ 791,330	\$ 948,094	\$ 887,989	\$ 1,030,704	15%
<i>Total Expenditures by Function</i>	\$ 597,798	\$ 686,476	\$ 791,330	\$ 948,094	\$ 887,989	\$ 1,030,704	15%
<i>Expenditures by Category</i>							
Salary and Benefits	339,971	362,847	498,264	634,655	634,655	801,197	24%
Supplies	15,511	17,939	19,085	19,355	19,355	23,957	11%
Purchased Services	211,524	273,734	263,410	266,725	206,620	132,113	-11%
Internal Services	30,792	31,956	10,571	27,359	27,359	73,437	24%
<i>Total Expenditures by Category</i>	\$ 597,798	\$ 686,476	\$ 791,330	\$ 948,094	\$ 887,989	\$ 1,030,704	15%
<i>Sources of Funding</i>							
Charges for Services	30,000	-	15,250	5,000	3,000	3,000	-44%
General Fund	567,798	686,476	776,080	943,094	884,989	1,027,704	16%
<i>Total Sources of Funding</i>	\$ 597,798	\$ 686,476	\$ 791,330	\$ 948,094	\$ 887,989	\$ 1,030,704	15%
<i>Authorized FTE Positions</i>							
Town Attorney	1.00	1.00	1.00	1.00	1.00	1.00	
Deputy Town Attorney	-	-	1.00	1.00	1.00	1.00	
Assistant Town Attorney	-	-	-	-	-	1.00	
Legal Administrator	-	1.00	1.00	1.00	1.00	1.00	
Legal Assistant	1.00	1.00	1.00	1.00	1.00	1.00	
<i>Total Authorized FTE Positions</i>	2.00	3.00	4.00	4.00	4.00	5.00	

	2016	2017	2018	2019	2019	2020	Compound
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
Human Resources							
Expenditures by Function							
Human Resources	\$ 810,889	\$ 769,242	\$ 652,305	\$ 769,633	\$ 768,633	\$ 978,438	5%
Risk Management	304,651	336,250	363,955	409,674	409,674	421,198	8%
Total Expenditures by Function	\$ 1,115,540	\$ 1,105,492	\$ 1,016,260	\$ 1,179,307	\$ 1,178,307	\$ 1,399,636	6%
Expenditures by Category							
Salary and Benefits	665,292	658,171	610,436	704,565	704,565	861,430	7%
Supplies	22,869	24,164	14,022	18,210	18,210	37,710	13%
Purchased Services	191,119	156,985	117,683	152,305	151,305	152,305	-6%
Internal Services	64,248	66,288	54,005	58,027	58,027	93,561	10%
Utilities/Insurance	172,012	199,884	220,114	246,200	246,200	254,630	10%
Total Expenditures by Category	\$ 1,115,540	\$ 1,105,492	\$ 1,016,260	\$ 1,179,307	\$ 1,178,307	\$ 1,399,636	6%
Sources of Funding							
General Fund	1,115,540	1,105,492	1,016,260	1,179,307	1,178,307	1,399,636	6%
Total Sources of Funding	\$ 1,115,540	\$ 1,105,492	\$ 1,016,260	\$ 1,179,307	\$ 1,178,307	\$ 1,399,636	6%
Authorized FTE Positions							
Human Resources Director	1.0	1.0	1.0	1.0	1.0	1.0	
Human Resources Manager	-	-	-	-	-	1.0	
Human Resources Business Partner	-	-	-	-	-	2.0	
Benefits and Wellness Administrator	1.0	1.0	1.0	1.0	1.0	1.0	
Human Resources Analyst	1.0	1.0	1.0	1.0	1.0	-	
Human Resources Technician	2.0	2.0	2.0	2.0	2.0	1.0	
Organization Development Mgr	1.0	1.0	1.0	1.0	1.0	-	
Risk Manager	1.0	1.0	1.0	1.0	1.0	1.0	
Total Authorized FTE Positions	7.0	7.0	7.0	7.0	7.0	7.0	

	2016	2017	2018	2019	2019	2020	Compound
<i>Community Development</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Expenditures by Function</i>							
Planning	\$ 1,624,273	\$ 1,608,986	\$ 1,350,102	\$ 1,747,820	\$ 1,713,435	\$ 1,561,282	-1%
Building Inspection	1,532,120	1,484,295	1,577,405	1,590,256	1,588,696	1,624,535	1%
Economic Development	619,206	644,324	443,628	569,200	554,200	509,501	-5%
Historical Preservation	5,570	523	1,019	3,000	3,000	3,000	-14%
<i>Total Expenditures by Function</i>	\$ 3,781,169	\$ 3,738,128	\$ 3,372,154	\$ 3,910,276	\$ 3,859,331	\$ 3,698,318	-1%
<i>Expenditures by Category</i>							
Salary and Benefits	2,459,076	2,421,242	2,373,245	2,522,288	2,522,288	2,672,398	2%
Supplies	42,926	33,207	23,764	18,910	17,625	21,910	-15%
Purchased Services	805,276	745,036	627,912	1,031,046	981,211	624,185	-6%
Internal Services	403,934	419,033	302,463	277,207	277,207	322,525	-5%
Utilities/Insurance	7,799	2,824	2,548	2,825	3,000	3,300	-19%
Capital Outlay	32,816	28,938	-	-	-	-	
Economic Development Incentives	29,342	87,848	42,222	58,000	58,000	54,000	16%
<i>Total Expenditures by Category</i>	\$ 3,781,169	\$ 3,738,128	\$ 3,372,154	\$ 3,910,276	\$ 3,859,331	\$ 3,698,318	-1%
<i>Sources of Funding</i>							
Licenses and Permits	1,672,807	2,139,117	2,315,203	2,073,865	2,215,500	2,281,965	8%
Charges for Services	607,007	751,501	687,855	618,952	706,952	692,924	3%
General Fund	1,501,355	847,510	369,096	1,217,459	936,879	723,429	-17%
<i>Total Sources of Funding</i>	\$ 3,781,169	\$ 3,738,128	\$ 3,372,154	\$ 3,910,276	\$ 3,859,331	\$ 3,698,318	-1%

	2016	2017	2018	2019	2019	2020
<i>Community Development</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget
<i>Authorized FTE Positions</i>						
Community Development Director	1.0	1.0	1.0	1.0	1.0	1.0
Deputy Comm Development Director	1.0	1.0	0.5	0.5	0.5	0.5
Executive Assistant	1.0	1.0	1.0	1.0	1.0	1.0
<i>Building Inspection:</i>						
Chief Building Official	1.0	1.0	1.0	1.0	1.0	1.0
Deputy Chief Building Official	1.0	1.0	1.0	1.0	1.0	1.0
Building/Electrical Inspector	4.0	4.0	4.0	4.0	4.0	4.0
Commercial Plans Examiner	1.0	1.0	1.0	1.0	1.0	1.0
Fire/Life Safety Inspector	1.0	2.0	2.0	2.0	2.0	2.0
Permit Technician	2.0	2.0	2.0	2.0	2.0	2.0
Plans Examiner	1.0	1.0	1.0	1.0	1.0	1.0
Senior Inspector	1.0	1.0	1.0	1.0	1.0	1.0
<i>Planning:</i>						
Planning Manager	1.0	1.0	1.0	1.0	1.0	1.0
Planner and Associate Planner	4.8	4.8	4.8	4.8	4.8	3.8
Associate Planner*	1.0	1.0	1.0	1.0	1.0	1.0
Planning Technician	1.0	1.0	1.0	1.0	1.0	1.0
Senior Planner	1.0	1.0	1.0	1.0	1.0	2.0
<i>Economic Development:</i>						
Business Recruitment Manager	1.0	1.0	1.0	1.0	1.0	1.0
Executive Assistant	1.0	1.0	1.0	1.0	1.0	1.0
Economic Development Coordinator**	1.0	1.0	1.0	1.0	1.0	1.0
Business Development Officer	1.0	1.0	-	-	-	-
<i>Total Authorized FTE Positions</i>	27.8	28.8	27.3	27.3	27.3	27.3

FTE Position on Hold

*Associate Planner budgeted at 0% in 2019 and 2020

**Economic Development Coordinator budgeted at 0% in 2019 and 2020

	2016	2017	2018	2019	2019	2020	Compound
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
Communications							
Expenditures by Function							
Communications	\$ 801,824	\$ 904,882	\$ 814,277	\$ 874,738	\$ 859,113	\$ 971,158	5%
Total Expenditures by Function	\$ 801,824	\$ 904,882	\$ 814,277	\$ 874,738	\$ 859,113	\$ 971,158	5%
Expenditures by Category							
Salary and Benefits	310,472	349,974	403,756	421,940	421,940	456,950	10%
Supplies	4,890	5,928	2,194	2,950	5,750	2,950	-12%
Purchased Services	424,686	484,876	357,862	417,875	399,450	424,875	0%
Internal Services	61,776	64,104	50,465	31,973	31,973	86,383	9%
Total Expenditures by Category	\$ 801,824	\$ 904,882	\$ 814,277	\$ 874,738	\$ 859,113	\$ 971,158	5%
Sources of Funding							
Sponsorships	44,110	54,324	75,828	63,350	70,000	68,800	12%
General Fund	757,714	850,558	738,449	811,388	789,113	902,358	4%
Total Sources of Funding	\$ 801,824	\$ 904,882	\$ 814,277	\$ 874,738	\$ 859,113	\$ 971,158	5%
Authorized FTE Positions							
Communications Director	1.0	1.0	1.0	1.0	1.0	1.0	
Communications Coordinator	1.0	1.0	1.0	1.0	1.0	1.0	
Special Events & Sponsorship Coord	1.0	1.0	1.0	1.0	1.0	1.0	
Digital Marketing Coordinator	-	1.0	1.0	1.0	1.0	1.0	
Total Authorized FTE Positions	3.0	4.0	4.0	4.0	4.0	4.0	

	2016	2017	2018	2019	2019	2020	Compound
<i>Interdepartmental</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Expenditures by Function</i>							
Interdepartmental	\$ 4,156,850	\$ 4,100,002	\$ 4,137,553	\$ 8,065,061	\$ 7,979,881	\$ 3,698,297	-3%
<i>Total Expenditures by Function</i>	\$ 4,156,850	\$ 4,100,002	\$ 4,137,553	\$ 8,065,061	\$ 7,979,881	\$ 3,698,297	-3%
<i>Expenditures by Category</i>							
Supplies	26,721	24,010	12,531	13,925	14,065	13,750	-15%
Purchased Services	78,331	81,546	117,301	255,545	212,825	675,689	71%
Internal Services	21,280	764	3,448	3,446	3,446	4,868	-31%
Debt Service	3,744,193	3,724,143	3,699,875	7,173,205	7,196,705	2,349,650	-11%
Contributions/Contingency	286,325	269,539	304,398	618,940	552,840	654,340	23%
<i>Total Expenditures by Category</i>	\$ 4,156,850	\$ 4,100,002	\$ 4,137,553	\$ 8,065,061	\$ 7,979,881	\$ 3,698,297	-3%
<i>Sources of Funding</i>							
COP BABS Credit	796,480	775,081	754,935	730,399	577,663	-	
General Fund	3,360,370	3,324,921	3,382,618	7,334,662	7,402,218	3,698,297	2%
<i>Total Sources of Funding</i>	\$ 4,156,850	\$ 4,100,002	\$ 4,137,553	\$ 8,065,061	\$ 7,979,881	\$ 3,698,297	-3%

	2016	2017	2018	2019	2019	2020	Compound
<i>Police</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Expenditures by Function</i>							
Police Administration	3,458,144	3,959,452	3,476,772	4,553,408	4,528,911	3,942,622	3%
Investigations	1,661,927	1,578,571	1,547,373	1,666,120	1,641,872	1,495,379	-3%
Patrol	6,706,478	6,767,862	6,815,628	7,182,763	7,155,509	7,636,732	3%
Records	682,590	894,153	1,607,819	1,278,624	1,278,624	1,035,230	11%
Police Communications	1,770,445	1,739,030	1,572,994	1,689,444	1,687,494	1,786,218	0%
Property and Evidence	-	334,314	466,943	475,735	464,935	513,988	
Emergency Management	90,720	20,256	51,738	84,314	32,672	6,500	-48%
Community Services	146,045	209,822	246,423	256,878	244,328	302,679	20%
Police Station	662,097	622,055	704,541	558,973	546,073	653,339	0%
<i>Total Expenditures by Function</i>	\$ 15,178,446	\$ 16,125,515	\$ 16,490,231	\$ 17,746,259	\$ 17,580,418	\$ 17,372,687	3%
<i>Expenditures by Category</i>							
Salary and Benefits	10,218,546	11,058,373	11,492,104	12,274,366	12,250,849	12,681,872	6%
Supplies	559,022	636,067	284,937	430,400	380,595	420,225	-7%
Purchased Services	739,122	765,690	695,423	730,160	640,544	602,425	-5%
Internal Services	2,662,594	2,938,438	2,425,466	3,119,927	3,119,927	3,223,615	5%
Utilities/Insurance	288,839	287,118	307,449	314,775	313,178	305,990	1%
Capital Outlay	688,210	416,869	1,261,697	852,731	852,731	110,000	-37%
Other	22,113	22,960	23,155	23,900	22,594	28,560	7%
<i>Total Expenditures by Category</i>	\$ 15,178,446	\$ 16,125,515	\$ 16,490,231	\$ 17,746,259	\$ 17,580,418	\$ 17,372,687	3%
<i>Sources of Funding</i>							
Charges for Services	65,603	76,221	60,299	62,500	36,950	24,400	-22%
Grants	203,996	107,693	65,839	84,900	38,000	28,000	-39%
Contributions	4,918	2,032	24,597	-	5,951	-	
Intergovernmental	1,059,939	1,032,684	1,082,611	1,229,867	1,137,867	1,182,950	3%
General Fund	13,843,990	14,906,885	15,256,885	16,368,992	16,361,650	16,137,337	4%
<i>Total Sources of Funding</i>	\$ 15,178,446	\$ 16,125,515	\$ 16,490,231	\$ 17,746,259	\$ 17,580,418	\$ 17,372,687	3%

	2016	2017	2018	2019	2019	2020
<i>Police</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget
<i>Authorized FTE Positions</i>						
Police Chief	1.0	1.0	1.0	1.0	1.0	1.0
Deputy Police Chief	1.0	1.0	1.0	1.0	1.0	1.0
Commander	6.0	6.0	6.0	6.0	6.0	6.0
Sergeant	10.0	10.0	10.0	10.0	10.0	10.0
Accreditation Manager	1.0	1.0	1.0	1.0	1.0	1.0
Administrative Manager	-	1.0	1.0	1.0	1.0	1.0
Administrative Technician	4.0	3.0	3.0	3.0	3.0	3.0
Background Investigator	0.5	1.0	1.0	1.0	1.0	1.0
Communications Manager	2.0	1.0	1.0	1.0	1.0	1.0
Communications Technician/Lead	17.0	18.0	18.0	18.0	18.0	18.5
Community Outreach Coordinator	-	1.0	1.0	1.0	1.0	1.0
Animal Welfare Officer	2.0	-	-	-	-	-
Community Services Manager	1.0	1.0	1.0	1.0	1.0	1.0
Community Services Officer	1.0	2.0	2.0	2.0	2.0	2.0
Community Services Officer*	-	1.0	1.0	1.0	1.0	1.0
Crime Analyst	1.0	1.0	1.0	1.0	1.0	1.0
Crime Scene Investigator Manager	-	1.0	1.0	1.0	1.0	1.0
Crime Scene Investigator	1.0	1.0	1.0	1.0	1.0	1.0
Property and Evidence Technician	2.0	2.0	2.0	2.0	2.0	2.0
Operations Service Technician	0.8	0.8	0.8	0.8	0.8	0.8

	2016	2017	2018	2019	2019	2020
<i>Police</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget
Police Officer/Detective	54.0	54.0	54.0	54.0	54.0	57.0
Public Relations Coordinator	1.0	1.0	1.0	1.0	1.0	1.0
Records Manager	1.0	1.0	1.0	1.0	1.0	1.0
Media Duplication Technician	-	1.0	1.0	1.0	1.0	1.0
Records Technician	3.0	3.0	3.0	3.0	3.0	3.0
Report Technician	2.8	3.2	3.2	3.2	3.2	3.2
Subtotal	113.1	117.0	117.0	117.0	117.0	120.5
Overhire Police Officer	4.0	4.0	4.0	4.0	4.0	2.0
Total Authorized FTE Positions	117.1	121.0	121.0	121.0	121.0	122.5

*Community Services Officer budgeted at 0% in 2019 and 2020

	2016	2017	2018	2019	2019	2020	Compound
<i>Public Works/Engineering</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Expenditures by Function</i>							
Public Works Streets	\$ 7,381,412	\$ 8,464,244	\$ 8,156,264	\$ 8,986,673	\$ 8,824,736	\$ 9,248,451	6%
Engineering	1,401,396	1,452,781	1,400,071	1,487,976	1,476,036	1,656,844	4%
Traffic Services	1,352,366	1,647,783	1,912,047	2,030,185	2,042,573	2,022,056	11%
Public Works Facility	182,675	172,564	185,150	210,404	211,106	213,975	4%
General Government Buildings	490,322	680,859	645,390	611,195	582,292	733,102	11%
<i>Total Expenditures by Function</i>	\$ 10,808,171	\$ 12,418,231	\$ 12,298,922	\$ 13,326,433	\$ 13,136,743	\$ 13,874,427	6%
<i>Expenditures by Category</i>							
Salary and Benefits	2,694,630	2,871,326	3,016,267	3,378,950	3,378,950	3,539,868	7%
Supplies	467,396	386,107	320,050	386,493	378,470	371,696	-6%
Purchased Services	5,423,563	6,339,236	6,959,431	7,325,461	7,142,182	7,083,675	7%
Internal Services	1,316,361	1,315,118	1,211,418	1,415,524	1,415,524	1,878,138	9%
Utilities/Insurance	408,868	406,538	411,474	399,655	424,992	441,850	2%
Capital Outlay	497,353	1,099,906	380,282	420,350	396,625	559,200	3%
<i>Total Expenditures by Category</i>	\$ 10,808,171	\$ 12,418,231	\$ 12,298,922	\$ 13,326,433	\$ 13,136,743	\$ 13,874,427	6%
<i>Sources of Funding</i>							
Licenses and Permits	53,537	59,527	107,180	55,000	75,000	77,250	10%
Intergovernmental	2,525,034	2,611,808	2,773,123	2,851,675	2,890,000	2,853,800	3%
Charges for Services	180,653	274,643	201,841	181,800	181,800	191,800	2%
General Fund	8,048,947	9,472,253	9,216,778	10,237,958	9,989,943	10,751,577	8%
<i>Total Sources of Funding</i>	\$ 10,808,171	\$ 12,418,231	\$ 12,298,922	\$ 13,326,433	\$ 13,136,743	\$ 13,874,427	6%

<i>Public Works/Engineering</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget
<i>Authorized FTE Positions</i>						
Engineering & Public Works Director	0.8	0.6	0.6	0.6	0.6	0.6
Office Manager	1.0	1.0	1.0	1.0	1.0	1.0
Administrative Assistant	2.0	2.0	2.0	2.0	2.0	2.0
Public Works Manager	1.0	1.0	1.0	1.0	1.0	1.0
Project Manager	1.0	1.0	1.0	1.0	1.0	1.0
Associate Project Manager	1.0	1.0	1.0	1.0	1.0	1.0
Engineer Services Manager	1.0	1.0	1.0	1.0	1.0	1.0
Development Review Engineer	1.0	1.0	1.0	1.0	1.0	1.0
Engineering Inspection Supervisor	1.0	1.0	1.0	1.0	1.0	1.0
Engineering Technician	1.0	1.0	1.0	1.0	1.0	1.0
Streets Manager	1.0	1.0	1.0	1.0	1.0	1.0
Streets Associate Project Manager	-	1.0	1.0	1.0	1.0	1.0
Streets Supervisor	1.0	2.0	2.0	2.0	2.0	2.0
Streets Crew Leader	2.0	2.0	2.0	2.0	2.0	2.0
Streets Maintenance Technician	14.0	12.0	12.0	12.0	12.0	12.0
Traffic Engineer	1.0	1.0	1.0	1.0	1.0	1.0
Traffic Engineering Tech	1.0	1.0	1.0	1.0	1.0	1.0
Traffic Signal Technician	4.0	4.0	4.0	5.0	5.0	5.0
<i>Total Full Time Positions</i>	34.8	34.6	34.6	35.6	35.6	35.6
Full Time Equivalent of Seasonal Employees	1.2	0.9	1.5	3.0	3.0	3.0
<i>Total Authorized FTE Positions</i>	36.0	35.5	36.1	38.6	38.6	38.6

	2016	2017	2018	2019	2019	2020	Compound
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Parks</i>							
<i>Expenditures by Function</i>							
Parks	\$ 3,008,232	\$ 3,025,326	\$ 3,114,364	\$ 3,460,583	\$ 3,429,942	\$ 3,280,932	2%
Forestry and Open Space	454,904	521,658	527,522	1,030,783	1,021,648	644,725	9%
Parks and Forestry Facility	277,998	344,620	225,063	248,541	248,056	280,388	0%
<i>Total Expenditures by Function</i>	\$ 3,741,134	\$ 3,891,604	\$ 3,866,949	\$ 4,739,907	\$ 4,699,646	\$ 4,206,045	3%
<i>Expenditures by Category</i>							
Salary and Benefits	1,742,507	1,785,875	1,982,609	2,050,121	2,050,121	2,239,160	6%
Supplies	64,907	56,191	91,254	95,645	92,560	95,645	10%
Purchased Services	690,381	622,921	602,823	1,018,410	987,650	670,742	-1%
Internal Services	609,520	670,296	644,451	867,536	867,536	705,133	4%
Utilities/Insurance	381,616	411,482	408,386	460,195	461,660	465,365	5%
Capital Outlay	248,094	310,315	114,197	62,500	55,119	30,000	-41%
Other	4,109	34,524	23,229	185,500	185,000	-	
<i>Total Expenditures by Category</i>	\$ 3,741,134	\$ 3,891,604	\$ 3,866,949	\$ 4,739,907	\$ 4,699,646	\$ 4,206,045	3%
<i>Sources of Funding</i>							
Interfund Transfer	1,095,900	1,152,600	1,253,304	1,183,619	1,183,619	1,177,700	2%
General Fund	2,645,234	2,739,004	2,613,645	3,556,288	3,516,027	3,028,345	3%
<i>Total Sources of Funding</i>	\$ 3,741,134	\$ 3,891,604	\$ 3,866,949	\$ 4,739,907	\$ 4,699,646	\$ 4,206,045	3%

	2016	2017	2018	2019	2019	2020
<i>Parks</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget
<i>Authorized FTE Positions</i>						
Parks and Recreation Director	0.4	0.4	0.4	0.4	0.4	0.4
Customer Service Specialist	0.5	0.8	0.8	0.8	0.8	0.8
Parks and Open Space Manager	1.0	1.0	1.0	1.0	1.0	1.0
Parks Supervisor	2.0	2.0	2.0	2.0	2.0	2.0
Parks Crew Leader	3.0	3.0	3.0	3.0	3.0	3.0
Parks Technician	14.0	14.0	14.0	14.0	14.0	14.0
Forestry/Open Space Supervisor	1.0	1.0	1.0	1.0	1.0	1.0
Forestry/Open Space Crew Leader	-	1.0	1.0	1.0	1.0	1.0
Open Space Technician	2.0	2.0	2.0	2.0	2.0	2.0
<i>Total Full Time Positions</i>	23.9	25.2	25.2	25.2	25.2	25.2
Full Time Equivalent of						
Seasonal Employees	4.2	2.8	-	-	-	2.7
<i>Total Authorized FTE Positions</i>	28.1	28.0	25.2	25.2	25.2	27.9

<i>Economic Incentives and Transfers</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Expenditures by Function</i>							
Economic Incentives	\$ 1,557,960	\$ 1,488,224	\$ 1,267,768	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	-1%
Transfers to							
Cultural Fund	1,800,000	3,260,900	1,684,643	1,680,000	1,680,000	1,414,278	-6%
Public Improvements Fund	1,500,000	-	-	-	-	-	
Debt Service Fund	756,205	755,039	757,583	757,265	757,265	756,788	0%
<i>Total Expenditures by Function</i>	\$ 5,614,165	\$ 5,504,163	\$ 3,709,994	\$ 3,937,265	\$ 3,937,265	\$ 3,671,066	-10%
<i>Sources of Funding</i>							
Sales Tax	1,557,960	1,488,224	1,267,768	1,500,000	1,500,000	1,500,000	-1%
General Fund	4,056,205	4,015,939	2,442,226	2,437,265	2,437,265	2,171,066	-14%
<i>Total Sources of Funding</i>	\$ 5,614,165	\$ 5,504,163	\$ 3,709,994	\$ 3,937,265	\$ 3,937,265	\$ 3,671,066	-10%

	2016	2017	2018	2019	2019	2020	Compound
	Actual	Actual	Actual	Amended	Projected	Projected	Annual
<i>P3 Support Services</i>				Budget	Actual	Budget	Growth
<i>Expenditures by Function</i>							
P3 Support Services	\$ -	\$ -	\$ 285,774	\$ 342,480	\$ 342,480	\$ 330,684	
<i>Total Expenditures by Function</i>	\$ -	\$ -	\$ 285,774	\$ 342,480	\$ 342,480	\$ 330,684	
<i>Expenditures by Category</i>							
Salary and Benefits	-	-	285,774	342,480	342,480	330,684	
<i>Total Expenditures by Category</i>	\$ -	\$ -	\$ 285,774	\$ 342,480	\$ 342,480	\$ 330,684	
<i>Sources of Funding</i>							
Charges for Services	-	-	285,774	342,480	342,480	330,684	
<i>Total Expenditures by Category</i>	\$ -	\$ -	\$ 285,774	\$ 342,480	\$ 342,480	\$ 330,684	
<i>Authorized FTE Positions</i>							
Executive Director (Town Admin)	-	-	0.25	0.25	0.25	0.25	
Director (Deputy Community Dev Dir)	-	-	0.50	0.50	0.50	0.50	
Redevelopment Manager	-	-	1.00	1.00	1.00	1.00	
Redevelopment Coordinator	-	-	1.00	1.00	1.00	1.00	
<i>Total Authorized FTE Positions</i>	-	-	2.75	2.75	2.75	2.75	

<i>Conservation Trust Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Revenues</i>							
State Conservation Trust Fund	\$ 475,660	\$ 434,342	\$ 452,801	\$ 400,000	\$ 500,000	\$ 510,000	2%
Interest	111	92	68	100	100	100	-3%
<i>Total Revenues</i>	\$ 475,771	\$ 434,434	\$ 452,869	\$ 400,100	\$ 500,100	\$ 510,100	2%
<i>Expenditures</i>							
Interfund Transfer	600,000	475,000	375,000	375,000	375,000	525,000	-3%
<i>Total Expenditures</i>	\$ 600,000	\$ 475,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 525,000	-3%
<i>Beginning Fund Balance</i>	276,796	152,567	112,001	189,870	189,870	314,970	3%
Revenue Over (Under) Exp	(124,229)	(40,566)	77,869	25,100	125,100	(14,900)	
<i>Ending Fund Balance</i>	\$ 152,567	\$ 112,001	\$ 189,870	\$ 214,970	\$ 314,970	\$ 300,070	18%

	2016	2017	2018	2019	2019	2020	Compound
<i>Parks and Recreation Fund</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
Revenues							
Taxes							
Sales Tax	\$ 6,462,429	\$ 6,868,038	\$ 7,150,713	\$ 7,137,960	\$ 7,313,040	\$ 7,438,880	4%
Use Tax	524,419	624,621	735,465	635,000	619,000	635,000	5%
Total Taxes	6,986,848	7,492,659	7,886,177	7,772,960	7,932,040	8,073,880	4%
Intergovernmental	55,000	550,000	-	400,000	400,000	-	
Interest	71,963	47,827	124,948	110,000	240,000	175,000	25%
Rent	30,227	30,222	26,545	30,000	30,000	30,000	0%
Contributions	421,505	949,606	108,887	2,825,000	2,835,000	-	
Miscellaneous	256	3,864	1,366	1,200	1,200	1,000	41%
Transfers In	600,000	542,500	375,000	875,000	875,000	525,000	-3%
Total Revenues	\$ 8,165,799	\$ 9,616,678	\$ 8,522,923	\$ 12,014,160	\$ 12,313,240	\$ 8,804,880	2%
Expenditures							
Salary and Benefits	271,550	327,418	351,832	361,560	361,560	386,014	9%
Supplies	4,359	4,015	248	5,225	3,600	5,225	5%
Purchased Services	205,780	208,367	206,606	137,950	109,700	212,950	1%
Capital Outlay	10,014,947	2,963,322	1,235,078	9,648,505	9,050,560	2,985,000	-26%
Economic Incentives	89,437	74,177	16,465	-	-	-	
Interfund Transfer	4,003,068	5,552,685	5,048,282	5,099,711	5,099,711	5,092,739	6%
Total Expenditures	\$ 14,589,141	\$ 9,129,984	\$ 6,858,511	\$ 15,252,951	\$ 14,625,131	\$ 8,681,928	-12%
Beginning Fund Balance	13,602,630	7,179,288	7,665,982	9,330,394	9,330,394	7,018,503	-15%
Revenue Over (Under) Exp	(6,423,342)	486,694	1,664,412	(3,238,791)	(2,311,891)	122,952	
Ending Fund Balance	\$ 7,179,288	\$ 7,665,982	\$ 9,330,394	\$ 6,091,603	\$ 7,018,503	\$ 7,141,455	0%

	2016	2017	2018	2019	2019	2020
<i>Parks and Recreation Fund</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget
<i>Authorized FTE Positions</i>						
Parks and Recreation Director	0.35	0.35	0.35	0.35	0.35	0.33
Recreation/Community Marketing Coordinator	0.25	0.50	0.50	0.50	0.50	0.50
Project Administrator	1.00	1.00	1.00	1.00	1.00	1.00
Special Project Analyst	1.00	1.00	1.00	1.00	1.00	1.00
Accounting Technician	0.33	0.33	0.33	0.33	0.33	0.33
<i>Total Authorized FTE Positions</i>	2.93	3.18	3.18	3.18	3.18	3.16

<i>Law Enforcement Assistance Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Revenues</i>							
VALE Grant	\$ 45,432	\$ 39,250	\$ 21,940	\$ 32,000	\$ 32,000	\$ 30,000	-10%
Charges for Services	2,114	2,461	-	-	-	-	
Court Surcharges	92,703	85,799	65,706	80,000	50,000	50,000	-14%
Interest	1,327	2,967	7,846	8,500	8,000	8,000	57%
Miscellaneous	221	657	253	100	-	-	
<i>Total Revenues</i>	\$ 141,797	\$ 131,134	\$ 95,745	\$ 120,600	\$ 90,000	\$ 88,000	-11%
<i>Expenditures</i>							
Salary and Benefits	118,408	110,505	62,365	83,617	83,617	89,397	-7%
Supplies	1,663	1,362	447	1,700	1,500	1,700	1%
Purchased Services	5,696	4,716	2,767	8,400	5,850	8,400	10%
Utilities/Insurance	1,587	305	320	350	320	340	-32%
Capital Outlay	1,842	-	-	-	-	-	
<i>Total Expenditures</i>	\$ 129,196	\$ 116,888	\$ 65,899	\$ 94,067	\$ 91,287	\$ 99,837	-6%
<i>Beginning Fund Balance</i>	85,353	97,954	112,200	142,046	142,046	140,759	13%
Revenue Over (Under) Exp	12,601	14,246	29,846	26,533	(1,287)	(11,837)	
<i>Ending Fund Balance</i>	\$ 97,954	\$ 112,200	\$ 142,046	\$ 168,579	\$ 140,759	\$ 128,922	7%
<i>Authorized FTE Positions</i>							
Victim Witness Coordinator	1.00	1.00	1.00	1.00	1.00	1.00	
Victim Advocate	0.50	0.50	-	-	-	-	
<i>Total Authorized FTE Positions</i>	1.50	1.50	1.00	1.00	1.00	1.00	

<i>Cultural Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Revenues</i>							
Intergovernmental	\$ 634,739	\$ 597,354	\$ 496,368	\$ 455,000	\$ 519,875	\$ 520,000	-5%
Charges for Services	2,278,570	2,405,747	2,791,332	2,972,369	2,788,081	2,820,363	5%
Interest	7,486	10,625	25,463	20,000	30,000	25,000	35%
Contributions	132,132	175,778	209,284	203,730	218,453	209,500	12%
Miscellaneous	1,470	53,559	39,711	10,000	10,000	10,000	61%
Transfers In	2,388,000	4,260,800	2,110,255	1,780,000	1,780,000	1,534,278	-10%
<i>Total Revenues</i>	\$ 5,442,397	\$ 7,503,863	\$ 5,672,413	\$ 5,441,099	\$ 5,346,409	\$ 5,119,141	-2%
<i>Expenditures by Function</i>							
Administration	1,903,371	2,095,237	2,107,060	2,298,846	2,296,019	2,484,819	7%
PACE Center Building	327,564	541,499	339,415	638,197	637,033	459,287	9%
Production	90,001	81,160	77,316	76,364	63,934	76,364	-4%
Public Art	7,868	14,737	6,624	6,900	6,900	6,900	-3%
Art Gallery	34,320	19,237	46,742	17,400	11,400	21,400	-11%
Presenting	873,071	1,095,178	953,160	1,007,260	960,570	919,827	1%
Classes	244,417	287,255	306,990	324,800	346,432	339,550	9%
Rentals	223,999	219,396	302,450	308,750	312,750	312,750	9%
Outreach Events	22,939	14,930	8,648	9,187	9,187	15,187	-10%
Marketing	408,628	382,480	370,350	362,000	361,250	350,000	-4%
Schoolhouse/Ruth Chapel	1,477,867	2,623,497	695,879	1,763,024	1,763,024	222,138	-38%
Interfund Trfs to Parks & Rec Fund	-	67,500	-	-	-	-	
<i>Total Expenditures by Function</i>	\$ 5,614,045	\$ 7,442,106	\$ 5,214,634	\$ 6,812,728	\$ 6,768,499	\$ 5,208,222	-2%

	2016	2017	2018	2019	2019	2020	
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	
Cultural Fund							
Expenditures by Category							
Salary and Benefits	1,533,393	1,720,594	1,690,939	1,765,783	1,765,783	2,012,932	7%
Supplies	172,616	150,862	133,027	105,983	97,938	116,214	-9%
Purchased Services	2,290,389	2,537,949	2,455,778	2,584,785	2,549,765	2,410,994	1%
Internal Services	197,530	214,624	215,775	247,260	247,260	386,836	18%
Utilities/Insurance	153,850	150,729	153,894	161,350	160,186	161,020	1%
Capital Outlay	1,266,267	2,599,848	565,221	1,947,567	1,947,567	120,226	-44%
Interfund Trfs to Parks & Rec Fund	-	67,500	-	-	-	-	
Total Expenditures by Category	\$ 5,614,045	\$ 7,442,106	\$ 5,214,634	\$ 6,812,728	\$ 6,768,499	\$ 5,208,222	-2%
Beginning Fund Balance	1,195,087	1,023,439	1,085,196	1,542,975	1,542,975	120,885	-44%
Revenue Over (Under) Exp	(171,648)	61,757	457,779	(1,371,629)	(1,422,090)	(89,081)	
Ending Fund Balance	\$ 1,023,439	\$ 1,085,196	\$ 1,542,975	\$ 171,346	\$ 120,885	\$ 31,804	-58%

<i>Cultural Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget
<i>Authorized FTE Positions</i>						
Cultural Director	1.00	1.00	1.00	1.00	1.00	1.00
Accounting Technician	0.33	0.33	0.33	0.33	0.33	0.33
Administration Specialist	0.80	0.80	0.80	0.80	0.80	-
Assistant Cultural Dir for Operations	1.00	1.00	1.00	1.00	1.00	1.00
Assist Cultural Dir for Communications and External Affairs	1.00	1.00	1.00	1.00	1.00	1.00
Assistant Cultural Director for Programs	1.00	1.00	1.00	1.00	1.00	-
Audio Technician	1.00	1.00	1.00	1.00	1.00	1.00
Cultural Facility Specialist	0.80	0.80	0.80	0.80	0.80	1.00
Development Manager	1.00	1.00	1.00	1.00	1.00	1.00
Education Assistant	0.80	0.80	0.80	0.80	0.80	1.00
Education Manager	1.00	1.00	1.00	1.00	1.00	1.00
Facilities Coordinator	1.00	1.00	1.00	1.00	1.00	1.00
Food & Beverage Coordinator	1.00	1.00	1.00	1.00	1.00	1.00

<i>Cultural Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget
Graphic Design and Marketing Coordinator	1.00	1.00	1.00	1.00	1.00	1.00
Lighting Technician	1.00	1.00	-	-	-	1.00
Marketing Assistant	0.80	0.80	1.00	1.00	1.00	-
Marketing Manager	-	-	-	-	-	1.00
Membership Specialist	-	1.00	1.00	1.00	1.00	-
Outreach Specialist	1.00	1.00	1.00	1.00	1.00	1.00
Patron Services Manager	1.00	1.00	1.00	1.00	1.00	1.00
Production Manager	1.00	1.00	1.00	1.00	1.00	1.00
Program Coordinator	-	-	1.00	1.00	1.00	1.00
Stage Technician	-	1.00	1.00	1.00	1.00	1.00
Stagehand III	0.80	0.80	0.80	0.80	0.80	-
Total Full Time Positions	18.33	20.33	20.53	20.53	20.53	18.33
Full Time Equivalent of Part Time Employees	12.70	13.50	12.60	12.75	12.75	12.75
Total Authorized FTE Positions	31.03	33.83	33.13	33.28	33.28	31.08

	2016	2017	2018	2019	2019	2020	Compound
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Recreation Fund</i>							
<i>Revenues</i>							
Intergovernmental	\$ 10,000	\$ 10,000	\$ 15,000	\$ 15,000	\$ 21,500	\$ 20,000	19%
Charges for Services	5,429,513	5,962,619	5,915,515	5,909,700	6,079,970	6,432,350	4%
Interest	13,559	19,974	53,968	53,000	70,000	60,000	45%
Miscellaneous	14,381	35,860	26,342	7,000	6,102	5,000	-23%
Transfers In	1,228,900	2,820,100	2,283,720	2,330,145	2,330,145	2,330,145	17%
<i>Total Revenues</i>	\$ 6,696,353	\$ 8,848,553	\$ 8,294,545	\$ 8,314,845	\$ 8,507,717	\$ 8,847,495	7%
<i>Expenditures by Function</i>							
Administration	1,324,019	1,365,449	554,256	894,700	894,700	907,481	-9%
Sports and Leisure	1,029,942	1,117,652	1,157,941	1,242,451	1,242,451	1,342,296	7%
Special Interest Programs	34,867	43,854	46,898	37,395	37,395	31,593	-2%
Recreation Center	761,289	737,978	1,736,485	1,748,514	1,748,514	1,781,405	24%
Aquatics	681,478	818,052	884,008	905,395	913,395	964,932	9%
H2O'Brien Pool	486,380	370,745	508,887	546,793	538,793	561,392	4%
Fieldhouse	1,517,370	1,937,667	1,601,258	1,780,525	1,781,025	1,978,140	7%
Fitness Programs	660,635	711,902	625,668	742,192	742,192	753,015	3%
Therapeutic Recreation Programs	78,735	78,341	93,070	110,145	110,145	114,646	10%
Day Camp	343,546	409,763	473,634	519,404	519,404	609,053	15%
Discovery Park	5,821	149,765	204,479	241,847	248,747	256,673	158%
Youth Programs	121,431	140,287	145,318	141,970	141,970	158,072	7%
<i>Total Expenditures by Function</i>	\$ 7,045,513	\$ 7,881,455	\$ 8,031,902	\$ 8,911,331	\$ 8,918,731	\$ 9,458,698	8%

	2016	2017	2018	2019	2019	2020	Compound
<i>Recreation Fund</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Expenditures by Category</i>							
Salary and Benefits	3,821,708	4,363,001	4,581,965	4,963,385	4,963,385	5,358,977	9%
Supplies	536,583	510,362	577,506	667,200	663,300	741,400	8%
Purchased Services	1,213,894	1,273,637	1,361,052	1,688,603	1,708,603	1,655,703	8%
Internal Services	730,563	726,339	682,173	636,115	636,415	827,734	3%
Utilities/Insurance	540,634	596,483	617,532	674,626	665,626	671,884	6%
Capital Outlay	202,131	411,633	211,674	281,402	281,402	203,000	0%
<i>Total Expenditures by Category</i>	\$ 7,045,513	\$ 7,881,455	\$ 8,031,902	\$ 8,911,331	\$ 8,918,731	\$ 9,458,698	8%
<i>Beginning Fund Balance</i>	1,383,510	1,034,350	2,001,448	2,264,091	2,264,091	1,853,077	8%
Revenue Over (Under) Exp	(349,160)	967,098	262,643	(596,486)	(411,014)	(611,203)	
<i>Ending Fund Balance</i>	\$ 1,034,350	\$ 2,001,448	\$ 2,264,091	\$ 1,667,605	\$ 1,853,077	\$ 1,241,873	5%

	2016	2017	2018	2019	2019	2020
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget
<i>Recreation Fund</i>						
<i>Authorized FTE Positions</i>						
<u>Administration</u>						
Parks and Recreation Director	0.25	0.25	0.25	0.25	0.25	0.23
Recreation Manager	-	-	-	1.00	1.00	1.00
Deputy Recreation Manager	1.00	1.00	-	-	-	-
Facility Coordinator	2.00	2.00	-	-	-	-
Administrative and Retail Coordinator	1.00	1.00	-	-	-	-
Concessions and Vending Coordinator	-	1.60	-	-	-	-
Program Registration Coordinator II	1.00	1.00	-	-	-	-
Marketing Supervisor	-	-	1.00	1.00	1.00	1.00
Recreation and Community						
Marketing Coordinator II	0.50	0.50	0.50	0.50	0.50	0.50
Manager on Duty/Events Supervisor	-	0.80	-	-	-	-
Childcare Coordinator	0.50	0.80	-	-	-	-
Guest Services Representative II	0.25	0.80	-	-	-	-
Maintenance & Facility Attendant	1.00	1.00	-	-	-	-
<u>Sports and Leisure Programs</u>						
Recreation Manager	0.90	0.90	0.90	-	-	-
Recreation Supervisor - Sports	1.00	1.00	1.00	1.00	1.00	1.00
Recreation Coordinator II - Sports	3.00	3.00	3.00	3.00	3.00	3.00
Recreation Supervisor - Sports Programs	1.00	1.00	1.00	1.00	1.00	1.00
Customer Service Specialist	0.65	0.80	0.80	0.80	0.80	0.80
Manager on Duty/Special Events	-	1.00	1.00	1.00	1.00	1.00
<u>Special Interest Programs</u>						
Recreation Manager	0.10	0.10	0.10	-	-	-
Therapeutic Rec/Senior Prog Coord	1.00	1.00	1.00	1.00	1.00	1.00

<i>Recreation Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget
<u>Recreation Center</u>						
Deputy Recreation Manager	-	-	1.00	1.00	1.00	1.00
Program Registration Coordinator	-	-	1.00	1.00	1.00	1.00
Administrative and Retail Coordinator	-	-	1.00	1.00	1.00	1.00
Administrative and Retail	-	-				
Assistant Coordinator	-	-	1.60	1.60	1.60	1.80
Manager on Duty/Events Supervisor	-	-	0.80	-	-	-
Childcare Coordinator	-	-	0.80	0.80	0.80	0.80
Guest Services Representative II	-	-	0.80	-	-	-
Facility Coordinator	-	-	2.00	2.00	2.00	2.00
Maintenance & Facility Attendant	-	-	1.00			
<u>Aquatics</u>						
Recreation Supervisor - Aquatics	1.00	1.00	1.00	1.00	1.00	1.00
Recreation Coordinator II - Aquatics	1.00	1.00	1.00	2.00	2.00	2.00
<u>Fieldhouse</u>						
Recreation Supervisor - Fieldhouse	1.00	1.00	1.00	1.00	1.00	1.00
Recreation Coordinator II - Events	1.00	1.00	1.00	1.00	1.00	1.00
Recreation Coordinator I - Fieldhouse	1.00	1.00	1.00	1.00	1.00	1.00
Recreation Coordinator I - Facilities	1.00	1.00	1.00	1.00	1.00	1.00
Events Lead	0.25	0.80	0.80	0.80	0.80	0.80
Marketing Supervisor	1.00	1.00	-	-	-	-
Guest Services Representative	0.50	0.80	0.80	-	-	-

	2016	2017	2018	2019	2019	2020
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget
<i>Recreation Fund</i>						
<u>Day Camp</u>						
Day Camp Coordinator	1.00	1.00	1.00	1.00	1.00	1.00
Day Camp Counselor	0.50	1.60	1.60	1.60	1.60	1.60
Assistant Day Camp Coordinator	1.00	1.00	1.00	1.00	1.00	1.00
<u>Fitness Programs</u>						
Fitness / Wellness Coordinator	1.00	1.00	1.00	1.00	1.00	1.00
<u>Youth Programs</u>						
Recreation Coord II - Youth Enrichment	1.00	1.00	1.00	1.00	1.00	1.00
<i>Total Full Time and Part Time Benefited positions</i>	27.40	33.75	33.75	31.35	31.35	31.53
Full Time Equivalent of						
Part Time Employees	67.14	72.85	77.39	84.25	84.25	84.25
<i>Total Authorized FTE Positions</i>	94.54	106.60	111.14	115.60	115.60	115.78

<i>Capital Renewal and Replacement Reserve Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Revenues</i>							
Interest	\$ 12,114	\$ 13,809	\$ 32,470	\$ 32,000	\$ 32,000	\$ 30,000	25%
<i>Total Revenues</i>	\$ 12,114	\$ 13,809	\$ 32,470	\$ 32,000	\$ 32,000	\$ 30,000	25%
<i>Expenditures</i>							
Interfund Transfer	-	-	-	100,000	100,000	-	
<i>Total Expenditures</i>	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ -	
<i>Beginning Fund Balance</i>	1,979,286	1,991,400	2,005,209	2,037,679	2,037,679	1,969,679	0%
Revenue Over (Under) Exp	12,114	13,809	32,470	(68,000)	(68,000)	30,000	25%
<i>Ending Fund Balance</i>	\$ 1,991,400	\$ 2,005,209	\$ 2,037,679	\$ 1,969,679	\$ 1,969,679	\$ 1,999,679	0%

<i>Public Improvements Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
Revenues							
Taxes							
Use Tax	\$ 2,613,852	\$ 3,149,967	\$ 3,650,590	\$ 3,576,000	\$ 3,516,000	\$ 3,590,820	8%
Excise Taxes - Undergrounding	369,780	375,861	394,093	340,000	375,000	375,000	0%
Total Taxes	2,983,632	3,525,828	4,044,683	3,916,000	3,891,000	3,965,820	7%
Intergovernmental							
PAR Capital Funding	-	-	-	-	-	8,000,000	
Grants	-	-	484,766	-	-	-	
Roads Sales Tax Shareback	2,532,893	2,660,206	2,774,211	2,700,000	2,200,000	2,266,000	-3%
Roads Use Tax Shareback	293,528	349,236	408,131	300,000	350,000	360,500	5%
Highway User Tax Shareback	-	-	405,811	1,424,063	1,054,431	1,463,085	
HUTF - FASTER Funds	302,669	309,015	286,423	310,000	310,000	319,300	1%
Total Governmental	3,129,090	3,318,457	4,359,342	4,734,063	3,914,431	12,408,885	41%
Interest	114,905	107,003	342,128	220,000	350,000	340,000	31%
Contributions	4,071,476	1,040,893	4,397,522	975,000	1,124,256	1,000,000	-30%
Miscellaneous	137,471	15,577	190	200	-	-	
Transfers In	1,594,748	3,023,053	1,546,839	1,750,000	1,750,000	2,000,000	6%
Total Revenues	\$ 12,031,322	\$ 11,030,811	\$ 14,690,704	\$ 11,595,263	\$ 11,029,687	\$ 19,714,705	13%
Expenditures							
Facility Construction	2,302,090	26,794	112,202	-	-	-	
Traffic Control	239,232	261,302	563,718	1,166,881	1,159,200	760,000	34%
Streets and Other Improvements	11,435,644	9,247,661	6,475,956	15,037,194	13,777,800	18,600,000	13%
Economic Development - Other	234,108	-	23,861	50,000	-	-	
Total Expenditures	\$ 14,211,074	\$ 9,535,757	\$ 7,175,737	\$ 16,254,075	\$ 14,937,000	\$ 19,360,000	8%
Beginning Fund Balance	14,630,652	12,450,900	13,945,954	21,460,921	21,460,921	17,553,608	5%
Revenue Over (Under) Exp	(2,179,752)	1,495,054	7,514,967	(4,658,812)	(3,907,313)	354,705	
Ending Fund Balance	\$ 12,450,900	\$ 13,945,954	\$ 21,460,921	\$ 16,802,109	\$ 17,553,608	\$ 17,908,313	10%

<i>Excise Tax Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Revenues</i>							
New Development Excise Tax	\$ 2,798,039	\$ 3,321,992	\$ 3,735,299	\$ 3,162,000	\$ 2,500,000	\$ 2,625,000	-2%
Interest	35,728	56,874	120,592	110,000	130,000	120,000	35%
<i>Total Revenues</i>	<i>\$ 2,833,767</i>	<i>\$ 3,378,866</i>	<i>\$ 3,855,891</i>	<i>\$ 3,272,000</i>	<i>\$ 2,630,000</i>	<i>\$ 2,745,000</i>	<i>-1%</i>
<i>Expenditures</i>							
Interfund Transfer	588,000	4,022,953	1,946,839	1,750,000	1,750,000	2,120,000	38%
<i>Total Expenditures</i>	<i>\$ 588,000</i>	<i>\$ 4,022,953</i>	<i>\$ 1,946,839</i>	<i>\$ 1,750,000</i>	<i>\$ 1,750,000</i>	<i>\$ 2,120,000</i>	<i>38%</i>
<i>Beginning Fund Balance</i>	4,833,721	7,079,488	6,435,401	8,344,453	8,344,453	9,224,453	18%
Revenue Over (Under) Exp	2,245,767	(644,087)	1,909,052	1,522,000	880,000	625,000	-27%
<i>Ending Fund Balance</i>	<i>\$ 7,079,488</i>	<i>\$ 6,435,401</i>	<i>\$ 8,344,453</i>	<i>\$ 9,866,453</i>	<i>\$ 9,224,453</i>	<i>\$ 9,849,453</i>	<i>9%</i>

<i>Parkglenn Construction Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Revenues</i>							
Interest	\$ 1,225	\$ 1,396	\$ 3,283	\$ 3,100	\$ 3,100	\$ 3,200	27%
<i>Total Revenues</i>	<u>\$ 1,225</u>	<u>\$ 1,396</u>	<u>\$ 3,283</u>	<u>\$ 3,100</u>	<u>\$ 3,100</u>	<u>\$ 3,200</u>	<u>27%</u>
<i>Beginning Fund Balance</i>	200,119	201,344	202,740	206,023	206,023	209,123	1%
Revenue Over (Under) Exp	1,225	1,396	3,283	3,100	3,100	3,200	27%
<i>Ending Fund Balance</i>	<u>\$ 201,344</u>	<u>\$ 202,740</u>	<u>\$ 206,023</u>	<u>\$ 209,123</u>	<u>\$ 209,123</u>	<u>\$ 212,323</u>	<u>1%</u>

<i>General Debt Service Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Revenues</i>							
Transfers In							
From General Fund	\$ 756,205	\$ 755,039	\$ 757,583	\$ 757,265	\$ 757,265	\$ 756,788	0%
From Stormwater Fund	185,520	185,234	185,858	185,780	185,780	185,663	0%
<i>Total Revenues</i>	\$ 941,725	\$ 940,273	\$ 943,441	\$ 943,045	\$ 943,045	\$ 942,451	0%
<i>Expenditures</i>							
Principal	488,400	501,600	514,800	524,700	524,700	534,600	2%
Interest	453,325	438,673	428,641	418,345	418,345	407,851	-3%
<i>Total Expenditures</i>	\$ 941,725	\$ 940,273	\$ 943,441	\$ 943,045	\$ 943,045	\$ 942,451	0%
<i>Beginning Fund Balance</i>	-	-	-	-	-	-	
Revenue Over (Under) Exp	-	-	-	-	-	-	
<i>Ending Fund Balance</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

<i>Recreation Debt Service Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Revenues</i>							
Transfers In From Parks and Rec Fund	\$ 1,583,520	\$ 1,579,985	\$ 1,586,078	\$ 1,585,947	\$ 1,585,947	\$ 1,584,894	0%
<i>Total Revenues</i>	<i>\$ 1,583,520</i>	<i>\$ 1,579,985</i>	<i>\$ 1,586,078</i>	<i>\$ 1,585,947</i>	<i>\$ 1,585,947</i>	<i>\$ 1,584,894</i>	<i>0%</i>
<i>Expenditures</i>							
Principal	1,146,600	1,173,400	1,200,200	1,225,300	1,225,300	1,250,400	2%
Interest	436,920	404,585	383,878	358,647	358,647	332,494	-7%
Other Debt Costs	-	2,000	2,000	2,000	2,000	2,000	
<i>Total Expenditures</i>	<i>\$ 1,583,520</i>	<i>\$ 1,579,985</i>	<i>\$ 1,586,078</i>	<i>\$ 1,585,947</i>	<i>\$ 1,585,947</i>	<i>\$ 1,584,894</i>	<i>0%</i>
<i>Beginning Fund Balance</i>	-	-	-	-	-	-	
Revenue Over (Under) Exp	-	-	-	-	-	-	
<i>Ending Fund Balance</i>	<i>\$ -</i>	<i>\$ -</i>	<i>\$ -</i>	<i>\$ -</i>	<i>\$ -</i>	<i>\$ -</i>	

<i>Stormwater Utility Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
Revenues							
Intergovernmental							
Grants	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	
Charges for Services							
Grading Permit	8,532	7,269	11,350	8,500	8,500	8,925	1%
Engineer Review	49,804	61,555	55,586	55,000	70,000	68,000	8%
Commercial Stormwater Utility	823,608	889,863	957,517	1,006,300	1,054,755	1,108,250	8%
Residential Stormwater Utility	1,162,997	1,186,023	1,288,357	1,287,500	1,287,500	1,326,125	3%
Total Charges for Services	2,044,941	2,144,710	2,312,810	2,357,300	2,420,755	2,511,300	5%
Interest	24,378	32,004	84,210	84,000	84,000	80,000	35%
Contributions	308,151	480,992	-	3,056,000	3,056,000	440,000	9%
Miscellaneous	6,523	8,821	2,917	-	2,000	-	
Transfers In	-	-	10,360	-	-	-	
Total Revenues	\$ 2,383,993	\$ 2,691,527	\$ 2,410,297	\$ 5,497,300	\$ 5,562,755	\$ 3,031,300	6%
Expenditures							
Salary and Benefits	631,543	672,285	696,733	791,377	791,377	899,520	9%
Supplies	8,384	10,136	57,994	154,100	131,200	134,600	100%
Purchased Services	259,737	248,117	226,797	314,984	305,650	345,084	7%
Internal Services	155,027	171,664	139,017	188,512	188,512	167,404	2%
Utilities	4,540	9,571	5,796	11,005	11,005	10,990	25%
Capital Outlay	320,600	565,652	794,908	4,857,907	3,207,516	1,476,000	46%
Interfund Transfer	185,520	185,234	185,858	462,835	462,835	471,033	26%
Total Expenditures	\$ 1,565,351	\$ 1,862,659	\$ 2,107,103	\$ 6,780,720	\$ 5,098,095	\$ 3,504,630	22%
Beginning Fund Balance	2,891,189	3,709,831	4,538,699	4,841,893	4,841,893	5,306,553	16%
Revenue Over (Under) Exp	818,642	828,868	303,194	(1,283,420)	464,660	(473,330)	
Ending Fund Balance	\$ 3,709,831	\$ 4,538,699	\$ 4,841,893	\$ 3,558,473	\$ 5,306,553	\$ 4,833,223	7%

<i>Stormwater Utility Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget
<i>Authorized FTE Positions</i>						
Engineering & Public Works Director	0.20	0.20	0.20	0.20	0.20	0.20
Manager of Engineering and Stormwater	-	-	-	-	-	-
Stormwater Project Engineer	1.00	1.00	1.00	1.00	1.00	1.00
Environmental Program Manager	1.00	1.00	1.00	1.00	1.00	1.00
Stormwater Engineering Technician	1.00	1.00	1.00	1.00	1.00	1.00
Stormwater Crew Leader	1.00	1.00	1.00	1.00	1.00	1.00
Stormwater Equipment Operator	1.00	1.00	1.00	1.00	1.00	1.00
Maintenance Worker 1/2	1.00	2.00	2.00	2.00	2.00	2.00
Maintenance Worker 3	1.00	1.00	1.00	1.00	1.00	2.00
<i>Total Full Time Positions</i>	7.20	8.20	8.20	8.20	8.20	9.20
Full Time Equivalent of Seasonal Employees	0.30	0.45	0.60	0.75	0.75	0.75
<i>Total Authorized FTE Positions</i>	7.50	8.65	8.80	8.95	8.95	9.95

	2016	2017	2018	2019	2019	2020	Compound
	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
<i>Fleet Services Fund</i>							
<i>Revenues</i>							
Charges for Services							
Internal User Charges	\$ 2,018,345	\$ 2,152,035	\$ 1,927,751	\$ 2,498,103	\$ 2,498,103	\$ 2,631,689	7%
Lone Tree Fleet Services	90,064	\$ 108,769	\$ 91,211	\$ 79,500	\$ 79,500	\$ 80,000	-3%
Total Charges for Services	2,108,409	2,260,804	2,018,962	2,577,603	2,577,603	2,711,689	6%
Interest	(376)	1,831	7,431	6,100	10,000	10,000	
Miscellaneous	6,327	5,037	6,733	4,000	4,000	-	
Insurance Recoveries/Sale of Assets	116,317	79,153	153,609	-	1,750	-	
Transfers In From Tech Fund	-	-	8,633	-	-	-	
<i>Total Revenues</i>	\$ 2,230,677	\$ 2,346,825	\$ 2,195,368	\$ 2,587,703	\$ 2,593,353	\$ 2,721,689	5%
<i>Expenditures</i>							
Salary and Benefits	447,951	420,775	443,659	479,994	479,994	501,063	3%
Supplies	11,528	7,846	7,950	9,115	9,284	8,600	-7%
Purchased Services	569,587	364,453	245,759	465,870	408,890	430,870	-7%
Internal Services	46,366	52,289	25,146	25,519	25,519	8,739	-34%
Utilities/Insurance	591	-	-	-	-	-	
Capital Outlay	1,287,914	706,678	1,286,490	882,364	870,000	1,277,000	0%
<i>Total Expenditures</i>	\$ 2,363,937	\$ 1,552,041	\$ 2,009,004	\$ 1,862,862	\$ 1,793,687	\$ 2,226,272	-1%
<i>Beginning Fund Balance</i>	(354,840)	(488,100)	306,684	493,048	493,048	1,292,714	
Revenue Over (Under) Exp	(133,260)	794,784	186,364	724,841	799,666	495,417	
<i>Ending Fund Balance</i>	\$ (488,100)	\$ 306,684	\$ 493,048	\$ 1,217,889	\$ 1,292,714	\$ 1,788,131	

<i>Fleet Services Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget
<i>Authorized FTE Positions</i>						
Engineering & Public Works Director	0.33	0.10	0.10	0.10	0.10	0.10
Facilities/Fleet Manager	0.50	0.50	0.50	0.50	0.50	0.50
Fleet Maintenance Master Technician	1.00	1.00	1.00	1.00	1.00	1.00
Fleet Crew Leader	1.00	1.00	1.00	1.00	1.00	1.00
Fleet Maintenance Worker 3	1.00	1.00	1.00	1.00	1.00	1.00
Fleet Maintenance Worker 2	1.00	1.00	1.00	1.00	1.00	1.00
<i>Total Authorized FTE Positions</i>	4.83	4.60	4.60	4.60	4.60	4.60

<i>Technology Management Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Revenues</i>							
Charges for Services							
Internal User Charges	\$ 3,634,488	\$ 3,856,536	\$ 3,109,988	\$ 3,359,634	\$ 3,359,634	\$ 4,032,319	3%
Lone Tree Fleet Services	174,279	76,991	-	75,000	-	-	
Total Charges for Services	3,808,767	3,933,527	3,109,988	3,434,634	3,359,634	4,032,319	1%
Interest	6,986	12,620	28,215	24,000	24,000	24,720	37%
Miscellaneous	4,448	9,337	18,417	-	3,966	-	
<i>Total Revenues</i>	\$ 3,820,201	\$ 3,955,484	\$ 3,156,620	\$ 3,458,634	\$ 3,387,600	\$ 4,057,039	2%
<i>Expenditures</i>							
Salary and Benefits	1,091,570	1,153,675	1,316,960	1,401,527	1,401,527	1,490,579	8%
Supplies	381,627	390,899	253,399	466,970	399,300	455,490	5%
Purchased Services	1,464,662	1,552,330	1,535,345	1,696,788	1,638,802	1,994,393	8%
Capital Outlay	321,536	66,617	-	179,420	179,420	185,000	-13%
Interfund Transfer	-	-	719,425	-	-	-	
<i>Total Expenditures</i>	\$ 3,259,395	\$ 3,163,521	\$ 3,825,129	\$ 3,744,705	\$ 3,619,049	\$ 4,125,462	6%
<i>Beginning Fund Balance</i>	726,371	1,287,177	2,079,140	1,410,631	1,410,631	1,179,182	13%
Revenue Over (Under) Exp	560,806	791,963	(668,509)	(286,071)	(231,449)	(68,423)	
<i>Ending Fund Balance</i>	\$ 1,287,177	\$ 2,079,140	\$ 1,410,631	\$ 1,124,560	\$ 1,179,182	\$ 1,110,759	-4%

<i>Technology Management Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget
<i>Authorized FTE Positions</i>						
Finance Director	-	-	-	0.5	0.5	0.5
Information Technology Director	1.0	1.0	-	-	-	-
Chief Information Officer	-	-	1.0	1.0	1.0	1.0
Senior Systems Administrator	1.0	1.0	1.0	1.0	1.0	1.0
Systems Administrator	1.0	1.0	1.0	1.0	1.0	1.0
Police Systems Administrator	1.0	1.0	1.0	1.0	1.0	1.0
Programmer Analyst	1.0	1.0	1.0	1.0	1.0	1.0
System Specialist	3.0	4.0	4.0	4.0	4.0	4.0
GIS Coordinator	1.0	1.0	1.0	1.0	1.0	1.0
GIS Administrator	1.0	1.0	1.0	1.0	1.0	1.0
Network Administrator	1.0	1.0	1.0	1.0	1.0	1.0
<i>Total Authorized FTE Positions</i>	11.0	12.0	12.0	12.5	12.5	12.5

<i>Facility Services Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget	Compound Annual Growth
<i>Revenues</i>							
Charges for Services							
Custodial Internal User Charges	\$ 297,606	\$ 294,165	\$ 344,700	\$ 346,610	\$ 346,610	\$ 368,900	6%
Facilities Internal User Charges	646,119	626,496	658,256	744,409	744,409	786,591	5%
Total Charges for Services	943,725	920,661	1,002,956	1,091,019	1,091,019	1,155,491	5%
Interest	554	730	2,042	2,000	2,200	2,060	39%
Miscellaneous	200	3,312	6,282	-	1,575	-	
<i>Total Revenues</i>	\$ 944,479	\$ 924,703	\$ 1,011,280	\$ 1,093,019	\$ 1,094,794	\$ 1,157,551	5%
<i>Expenditures</i>							
Salary and Benefits	680,897	626,155	664,042	703,285	703,285	752,129	3%
Supplies	49,272	47,585	50,331	48,300	47,450	48,600	0%
Purchased Services	213,396	210,546	239,694	224,125	221,564	234,375	2%
Internal Services	40,928	39,310	38,616	56,264	56,174	51,931	6%
Insurance/Utilities	-	-	5,848	-	7,000	1,000	
Capital Outlay	-	-	-	58,000	58,000	49,000	
Interfund Transfer	-	-	-	-	-	-	
<i>Total Expenditures</i>	\$ 984,493	\$ 923,596	\$ 998,531	\$ 1,089,974	\$ 1,093,473	\$ 1,137,035	4%
<i>Beginning Fund Balance</i>	81,696	41,682	42,789	55,538	55,538	56,859	-9%
Revenue Over (Under) Exp	(40,014)	1,107	12,749	3,045	1,321	20,516	
<i>Ending Fund Balance</i>	\$ 41,682	\$ 42,789	\$ 55,538	\$ 58,583	\$ 56,859	\$ 77,375	17%

<i>Facility Services Fund</i>	2016 Actual	2017 Actual	2018 Actual	2019 Amended Budget	2019 Projected Actual	2020 Projected Budget
<i>Authorized FTE Positions</i>						
Engineering & Public Works Director	0.33	0.10	0.10	0.10	0.10	0.10
Facility/Fleet Manager	0.50	0.50	0.50	0.50	0.50	0.50
Facility Maintenance Coordinator	1.00	1.00	1.00	1.00	1.00	1.00
Customer Service Specialist	0.50	0.50	-	-	-	-
Facility Supervisor	1.00	1.00	1.00	1.00	1.00	1.00
Facility Maintenance Tech 1/2	2.00	2.00	2.00	2.00	2.00	2.00
Facility Maintenance Tech 3	4.00	4.00	4.00	4.00	4.00	4.00
<i>Total Authorized FTE Positions</i>	9.33	9.10	8.60	8.60	8.60	8.60

	2016	2017	2018	2019	2019	2020	Compound
<i>Medical Benefits Fund</i>	Actual	Actual	Actual	Amended Budget	Projected Actual	Projected Budget	Annual Growth
Revenues							
Charges for Services							
Town Premium	\$ 2,084,346	\$ 2,236,460	\$ 2,529,041	\$ 2,926,338	\$ 2,926,338	\$ 3,400,000	13%
Employee Contribution	507,227	598,554	691,702	881,163	879,163	966,509	17%
Total Charges for Services	2,591,573	2,835,014	3,220,743	3,807,501	3,805,501	4,366,509	14%
Interest	2,957	3,021	8,969	7,500	9,000	9,000	32%
Miscellaneous	2,500	2,500	40,705	2,500	625	-	
Total Revenues	\$ 2,597,030	\$ 2,840,535	\$ 3,270,417	\$ 3,817,501	\$ 3,815,126	\$ 4,375,509	14%
Expenditures							
Supplies	2,282	2,500	705	4,300	4,300	2,500	2%
Purchased Services	167,473	174,059	163,049	157,500	175,000	158,535	-1%
Insurance	2,391,978	2,765,051	2,829,147	3,481,000	3,481,000	3,962,653	13%
Total Expenditures	\$ 2,561,733	\$ 2,941,610	\$ 2,992,901	\$ 3,642,800	\$ 3,660,300	\$ 4,123,688	13%
Beginning Fund Balance	81,696	116,993	15,918	293,434	293,434	448,260	53%
Revenue Over (Under) Exp	35,297	(101,075)	277,516	174,701	154,826	251,821	63%
Ending Fund Balance	\$ 116,993	\$ 15,918	\$ 293,434	\$ 468,135	\$ 448,260	\$ 700,081	56%