



Completed by:

Les Major

Department Head Review:

Brian Tracy

Responsible Department:

Public Works

Fund:

Wastewater Fund #2

Strategic Success Factor	Active, Connected and Sustainable	Affordable and Thriving	Safe, Inclusive and Engaged	Respected and Relational Governance	Quality Services
					X

Strategic Action	Replacement and rehabilitation of ageing wastewater collection system				
Project Name	Utility Line Replacement - Wastewater				
Funding Source	Existing Grant Funds Identified for Project	Potential Grant Funds Identified	Funds Identified From Capital Project Fund	Funds Identified From Other Fund (Name)	No Identified Funding
			X		
New/Additional Revenue Generated	Significant Ongoing Revenue Source	Small Ongoing Revenue Source	One-Time Revenue Generated	No New/Additional Revenue Generated	
				X	
Legally Mandated	Court Decision	Regulatory Requirement	Pending Legal Action	Potential Legal Action	Normal Liability
		X			
Public Health & Safety	Existing Severe Hazard	Existing Minor Hazard	Potential Severe Hazard	Potential Minor Hazard	No Health or Safety Issue
			X		
Operating Budget Impact	Decreases Operating and/or Personnel Costs	Minimal or No Impact on Operating and/or Personnel Costs	Slight Increase to Operating and/or Personnel Costs	Significant Increase to Operating and/or Personnel Costs	
		X			
Environment and Sustainability	Enhances Environment and/or Sustainability	Benefits Environment and/or Sustainability	No Environmental Impact	Minor or Negative Environmental Impact	Diminishes Environment
			X		
% Of Population Served	100% of Population Served by Project	Majority of Population Served	Approximately 50% of Population Served	Less than 50% of the Population Served	
	X				
Preservation of Facility	Loss of Facility Imminent without Project Completion	Additional Damage Likely without Project Completion	Project Constitutes Normal Major Maintenance	Project Constitutes Normal Minor Maintenance	New Facility/ No Safety Issue
			X		
Project Useful Life	20+ Years With Little/No Maintenance	20+ Years With Normal Maintenance	10-20 Years With Normal Maintenance	5-9 Years with Normal Maintenance	1-4 Years with Normal Maintenance
		X			
Recreational or Aesthetic Value	Major Value	Moderate value	No Value	Possibly Detrimental	
			X		
Estimated Frequency of Use	Every Day	Several Times per Week	Several Times per Month	Once per Month or Less	
	X				

Vision 2030 Guiding Principles Priority - (Choose One Best Fit)

☒ (A) Safe and Reliable Public Infrastructure

☐ (B) Economic Vitality and Community Amenities that Improve Quality of Life

☐ (C) Public Safety

☐ (D) Other

Category of Capital Expenditures - (Choose One Best Fit)

☐ Land Improvement

☐ Building Improvement

☐ Equipment

☐ Vehicle

☐ Technology

☒ Infrastructure

Financial Impact - Expenses												
	Life-To-Date*	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Project Costs		475,000	488,000	500,000	512,000	524,000	537,000	548,000	573,000	602,000	632,000	5,391,000
On-Going Maintenance												-
Total Project Costs	-	475,000	488,000	500,000	512,000	524,000	537,000	548,000	573,000	602,000	632,000	5,391,000

*Life-to-date includes any actual expenditures from start of project through July 2022 and estimates for the remainder of FY 2022

Basis for Project Cost Estimate

☐ Formal Proposal

☐ Contractor/Engineer Estimate

☐ State Purchasing Co-Op

☒ Staff Estimate

Financial Impact - Revenues												
	Life-To-Date*	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Revenue Estimate												-

*Life-to-date includes any actual revenue generated from start of project through July 2022 and estimates for the remainder of FY 2022

Project Name:	Utility Line Replacement - Wastewater
<div>Please provide details for the following: 1. Project Description 2. Justification 3. Measure of Success 4. Description of Revenue Generated (if applicable)</div>	<p>The City of Golden owns and maintains 79.15 miles of sanitary sewer mains. The expected lifespan of these pipes is approximately 75 years. In order to maintain the current system, approximately one mile of sewer main should be replaced each year. The cost estimate has been calculated based on replacing one mile of sewer at current contract unit costs and is a combination of both open trench replacement and cured in place plastic (CIPP). Replacement method is selected based on a variety of factors including size, condition, capacity, and the number of service connections. Sewer main replacements are prioritized by pipe age, video inspection, increased maintenance, repair costs and ROW costs associated with the street replacement project. A reliable wastewater collection system is expected by the residents of Golden and this type of project ensures that. This project will not change ongoing maintenance costs for the collection system overall, but deferred investment would result in increases to maintenance.</p>
<div>Describe how this project connects to and supports Strategic Action Plan success factor(s) identified above.</div>	<p>The utility line replacement program assures that we have a reliable wastewater collection system and can provide quality public service of wastewater collection.</p>
<div>List any obstacles for implementation</div>	

Finance Use Only

	Date
Received by Finance Department	
Reviewed by City Manager:	



Completed by:

Les Major

Department Head Review:

Brian Tracy

Responsible Department:

Public Works

Fund:

Wastewater Fund #3

Strategic Success Factor	Active, Connected and Sustainable	Affordable and Thriving	Safe, Inclusive and Engaged	Respected and Relational Governance	Quality Services
					X

Strategic Action	Installation of new and upgrading of existing sanitary sewer flow monitoring stations				
Project Name	Sewer Flow Monitoring Upgrades				
Funding Source	Existing Grant Funds Identified for Project	Potential Grant Funds Identified	Funds Identified From Capital Project Fund	Funds Identified From Other Fund (Name)	No Identified Funding
			X		
New/Additional Revenue Generated	Significant Ongoing Revenue Source	Small Ongoing Revenue Source	One-Time Revenue Generated	No New/Additional Revenue Generated	
				X	
Legally Mandated	Court Decision	Regulatory Requirement	Pending Legal Action	Potential Legal Action	Normal Liability
		X			
Public Health & Safety	Existing Severe Hazard	Existing Minor Hazard	Potential Severe Hazard	Potential Minor Hazard	No Health or Safety Issue
				X	
Operating Budget Impact	Decreases Operating and/or Personnel Costs	Minimal or No Impact on Operating and/or Personnel Costs	Slight Increase to Operating and/or Personnel Costs	Significant Increase to Operating and/or Personnel Costs	
		X			
Environment and Sustainability	Enhances Environment and/or Sustainability	Benefits Environment and/or Sustainability	No Environmental Impact	Minor or Negative Environmental Impact	Diminishes Environment
			X		
% Of Population Served	100% of Population Served by Project	Majority of Population Served	Approximately 50% of Population Served	Less than 50% of the Population Served	
	X				
Preservation of Facility	Loss of Facility Imminent without Project Completion	Additional Damage Likely without Project Completion	Project Constitutes Normal Major Maintenance	Project Constitutes Normal Minor Maintenance	New Facility/ No Safety Issue
			X		
Project Useful Life	20+ Years With Little/No Maintenance	20+ Years With Normal Maintenance	10-20 Years With Normal Maintenance	5-9 Years with Normal Maintenance	1-4 Years with Normal Maintenance
			X		
Recreational or Aesthetic Value	Major Value	Moderate value	No Value	Possibly Detrimental	
			X		
Estimated Frequency of Use	Every Day	Several Times per Week	Several Times per Month	Once per Month or Less	
	X				

Vision 2030 Guiding Principles Priority - (Choose One Best Fit)

☒ (A) Safe and Reliable Public Infrastructure

☐ (B) Economic Vitality and Community Amenities that Improve Quality of Life

☐ (C) Public Safety

☐ (D) Other

Category of Capital Expenditures - (Choose One Best Fit)

☐ Land Improvement

☐ Building Improvement

☐ Equipment

☐ Vehicle

☐ Technology

☒ Infrastructure

Financial Impact - Expenses												
	Life-To-Date*	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Project Costs		35,000	35,000	-	-	-	-	-	-	-	-	70,000
On-Going Maintenance												-
Total Project Costs	-	35,000	35,000	-	-	-	-	-	-	-	-	70,000

*Life-to-date includes any actual expenditures from start of project through July 2022 and estimates for the remainder of FY 2022

Basis for Project Cost Estimate

☐ Formal Proposal

☐ Contractor/Engineer Estimate

☐ State Purchasing Co-Op

☒ Staff Estimate

Financial Impact - Revenues												
	Life-To-Date*	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Revenue Estimate												-

*Life-to-date includes any actual revenue generated from start of project through July 2022 and estimates for the remainder of FY 2022

Project Name:	Sewer Flow Monitoring Upgrades
Please provide details for the following: 1. Project Description 2. Justification 3. Measure of Success 4. Description of Revenue Generated (if applicable)	The City of Golden currently owns and maintains six sewer flow monitoring stations. These stations are used to monitor flow and look for increases during storm events. Flow increases during storms indicate problems in the collection system such as cross connections with stormsewer or leaks into the sewer. This information allows the Utilities Division to prioritize efforts in the prevention of inflow and infiltration. These stations are an integral part of our planning process for sewer main rehabilitation and replacement. The equipment in the five stations originally installed in 2008 has begun to deteriorate and maintenance needs are increasing. In 2022 the flow monitoring equipment and building at the meter station (final point of measurement before Coors) were rehabilitated and connected to the city SCADA system. In 2023 and 2024 we will evaluate existing flow measuring devices, repair as needed and design two additional stations that will collect data from the Mt Zion and downtown areas.
Describe how this project connects to and supports Strategic Action Plan success factor(s) identified above.	Flow monitoring of the sewer system aids in the prioitization of mainline replacement and rehabilitation by locating areas of infiltration and inflow. This will reduce future sanitary sewer treatment costs and the risk of main backups and failures.
List any obstacles for implementation	

Finance Use Only

	Date
Received by Finance Department	
Reviewed by City Manager:	



Completed by:

Les Major

Department Head Review:

Brian Tracy

Responsible Department:

Public Works

Fund:

Wastewater Fund # 4

Strategic Success Factor	Active, Connected and Sustainable	Affordable and Thriving	Safe, Inclusive and Engaged	Respected and Relational Governance	Quality Services
					X

Strategic Action	Replace major components of the sanitary sewer video system				
Project Name	Equipment upgrade for sanitary sewer video system				
Funding Source	Existing Grant Funds Identified for Project	Potential Grant Funds Identified	Funds Identified From Capital Project Fund	Funds Identified From Other Fund (Name)	No Identified Funding
			X		
New/Additional Revenue Generated	Significant Ongoing Revenue Source	Small Ongoing Revenue Source	One-Time Revenue Generated	No New/Additional Revenue Generated	
				X	
Legally Mandated	Court Decision	Regulatory Requirement	Pending Legal Action	Potential Legal Action	Normal Liability
		X			
Public Health & Safety	Existing Severe Hazard	Existing Minor Hazard	Potential Severe Hazard	Potential Minor Hazard	No Health or Safety Issue
					X
Operating Budget Impact	Decreases Operating and/or Personnel Costs	Minimal or No Impact on Operating and/or Personnel Costs	Slight Increase to Operating and/or Personnel Costs	Significant Increase to Operating and/or Personnel Costs	
		X			
Environment and Sustainability	Enhances Environment and/or Sustainability	Benefits Environment and/or Sustainability	No Environmental Impact	Minor or Negative Environmental Impact	Diminishes Environment
			X		
% Of Population Served	100% of Population Served by Project	Majority of Population Served	Approximately 50% of Population Served	Less than 50% of the Population Served	
	X				
Preservation of Facility	Loss of Facility Imminent without Project Completion	Additional Damage Likely without Project Completion	Project Constitutes Normal Major Maintenance	Project Constitutes Normal Minor Maintenance	New Facility/ No Safety Issue
			X		
Project Useful Life	20+ Years With Little/No Maintenance	20+ Years With Normal Maintenance	10-20 Years With Normal Maintenance	5-9 Years with Normal Maintenance	1-4 Years with Normal Maintenance
				X	
Recreational or Aesthetic Value	Major Value	Moderate value	No Value	Possibly Detrimental	
			X		
Estimated Frequency of Use	Every Day	Several Times per Week	Several Times per Month	Once per Month or Less	
		X			

Vision 2030 Guiding Principles Priority - (Choose One Best Fit)

☐ (A) Safe and Reliable Public Infrastructure

☐ (B) Economic Vitality and Community Amenities that Improve Quality of Life

☐ (C) Public Safety

☒ (D) Other

Category of Capital Expenditures - (Choose One Best Fit)

☐ Land Improvement

☐ Building Improvement

☒ Equipment

☐ Vehicle

☐ Technology

☐ Infrastructure

Financial Impact - Expenses												
	Life-To-Date*	2023	2024	2024	2026	2027	2028	2029	2030	2031	2032	Total
Project Costs		50,000										50,000
On-Going Maintenance												-
Total Project Costs	-	50,000	-	-	-	-	-	-	-	-	-	50,000

*Life-to-date includes any actual expenditures from start of project through July 2022 and estimates for the remainder of FY 2022

Basis for Project Cost Estimate

☐ Formal Proposal

☐ Contractor/Engineer Estimate

☐ State Purchasing Co-Op

☒ Staff Estimate

Financial Impact - Revenues												
	Life-To-Date*	2023	2024	2024	2026	2027	2028	2029	2030	2031	2032	Total
Revenue Estimate												-

*Life-to-date includes any actual revenue generated from start of project through July 2022 and estimates for the remainder of FY 2022

Project Name:	Replace major components of the sanitary sewer video system
Please provide details for the following: 1. Project Description 2. Justification 3. Measure of Success 4. Description of Revenue Generated (if applicable)	The City of Golden uses video inspection as an aid to prioritize sewer main replacement and rehabilitation. In conjunction with flow monitoring and known maintenance issues, video inspection provides valuable information on existing pipe condition. The current video system was purchased in 2012 and is showing its age. Heavy use by Utilities and Stormwater over the last several years has lead to minor failures and increased maintenance. This project will allow for replacement of the cable and cable reel along with updating the data entry pendant (laptop type device) and mechanical portions of the tractor. A reliable wastewater collection system is expected by the residents of Golden and this type of project ensures that. This project will not change ongoing maintenance costs for the collection system overall, but deferred investment would result in increases to maintenance. 2022 projects will include reel and cable rebuild and replacement. The replacement of the tractor/camera is planned for 2023, at that time the existing system will still have some trade in value and will decrease the cost of a new unit.
Describe how this project connects to and supports Strategic Action Plan success factor(s) identified above.	Video inspection of sanitary sewer mains allows the utility to prioritize replacement and rehabilitation to make the best use of the funds available. This helps the utiltiy to be fiscally responsible while delivering quality public services to the community.
List any obstacles for implementation	

Finance Use Only

	Date
Received by Finance Department	
Reviewed by City Manager:	



Completed by: Anne Beierle

Department Head Review: Anne Beierle

Responsible Department: Public Works

Fund: Wastewater Fund #5

Strategic Success Factor	Active, Connected and Sustainable	Affordable and Thriving	Safe, Inclusive and Engaged	Respected and Relational Governance	Quality Services
	x			x	x

Strategic Action	Golden's contributions to the upgrade or replacement of the wastewater treatment plant at the Coors Brewery				
Project Name	Wastewater Treatment Upgrades				
Funding Source	Existing Grant Funds Identified for Project	Potential Grant Funds Identified	Funds Identified From Capital Project Fund	Funds Identified From Other Fund (Name)	No Identified Funding
			x		
New/Additional Revenue Generated	Significant Ongoing Revenue Source	Small Ongoing Revenue Source	One-Time Revenue Generated	No New/Additional Revenue Generated	
				x	
Legally Mandated	Court Decision	Regulatory Requirement	Pending Legal Action	Potential Legal Action	Normal Liability
		x			
Public Health & Safety	Existing Severe Hazard	Existing Minor Hazard	Potential Severe Hazard	Potential Minor Hazard	No Health or Safety Issue
				x	
Operating Budget Impact	Decreases Operating and/or Personnel Costs	Minimal or No Impact on Operating and/or Personnel Costs	Slight Increase to Operating and/or Personnel Costs	Significant Increase to Operating and/or Personnel Costs	
			x		
Environment and Sustainability	Enhances Environment and/or Sustainability	Benefits Environment and/or Sustainability	No Environmental Impact	Minor or Negative Environmental Impact	Diminishes Environment
	x				
% Of Population Served	100% of Population Served by Project	Majority of Population Served	Approximately 50% of Population Served	Less than 50% of the Population Served	
		x			
Preservation of Facility	Loss of Facility Imminent without Project Completion	Additional Damage Likely without Project Completion	Project Constitutes Normal Major Maintenance	Project Constitutes Normal Minor Maintenance	New Facility/ No Safety Issue
			x		
Project Useful Life	20+ Years With Little/No Maintenance	20+ Years With Normal Maintenance	10-20 Years With Normal Maintenance	5-9 Years with Normal Maintenance	1-4 Years with Normal Maintenance
		x			
Recreational or Aesthetic Value	Major Value	Moderate value	No Value	Possibly Detrimental	
		x			
Estimated Frequency of Use	Every Day	Several Times per Week	Several Times per Month	Once per Month or Less	
	x				

Vision 2030 Guiding Principles Priority - (Choose One Best Fit)

☒ (A) Safe and Reliable Public Infrastructure

☐ (B) Economic Vitality and Community Amenities that Improve Quality of Life

☐ (C) Public Safety

☐ (D) Other

Category of Capital Expenditures - (Choose One Best Fit)

☐ Land Improvement

☐ Building Improvement

☐ Equipment

☐ Vehicle

☐ Technology

☒ Infrastructure

Financial Impact - Expenses												
	Life-To-Date*	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Project Costs					10,000,000	10,000,000	10,000,000					30,000,000
On-Going Maintenance												-
Total Project Costs	-	-	-	-	10,000,000	10,000,000	10,000,000	-	-	-	-	30,000,000

*Life-to-date includes any actual expenditures from start of project through July 2022 and estimates for the remainder of FY 2022

Basis for Project Cost Estimate

☐ Formal Proposal

☐ Contractor/Engineer Estimate

☐ State Purchasing Co-Op

☒ Staff Estimate

Financial Impact - Revenues												
	Life-To-Date*	2023	2024	2024	2026	2027	2028	2029	2030	2031	2032	Total
Revenue Estimate												-

*Life-to-date includes any actual revenue generated from start of project through July 2022 and estimates for the remainder of FY 2022

Project Name:	Golden's contributions to the upgrade or replacement of the wastewater treatment plant at the Coors Brewery
Please provide details for the following: 1. Project Description 2. Justification 3. Measure of Success 4. Description of Revenue Generated (if applicable)	Domestic wastewater from Golden is treated under contract at a wastewater plant located on the Coors Brewery and operated by MillerCoors. The contract includes provisions requiring Golden's financial contribution for upgrades at the plant under limited circumstances, including changes to regulations that would require treatment changes. Golden has been placed on notice by Coors that they are evaluating potential upgrades that may qualify for reimbursement by Golden. MillerCoors has reached out to see if Golden would participate in the initial engineering for the improvements. The funding in out years is a placeholder anticipating this possibility and has been scheduled based on compliance schedules that exist in the current MillerCoors discharge permit issued by the State and the amounts have no engineering basis at this time.
Describe how this project connects to and supports Strategic Action Plan success factor(s) identified above.	Active, Connected and Sustainable: upgrades to the wastewater treatment plant will improved air quality (odors) and water quality. Respected and Relational Governance: working proactively and collaboratively with MillerCoors on improvements will result in better transparency for the upgrades needed and their costs. It also provides an opportunity to strengthen the relationship we have with MillerCoors. Quality Services: this investment in critical infrastructure assures we can continue to provide quality services to the community.
List any obstacles for implementation	There remain many unknowns in this project: the total cost of the improvments, the share - if any - that is Golden's responsibility, and the timing of the improvements.

Finance Use Only

	Date
Received by Finance Department	
Reviewed by City Manager:	