# GLWA Great Lakes Water Authority

## **GLWA FY 2020-2024 CIP**

# Sewer and Interceptor Rehabilitation Program

<ul><li>☐ Innovation</li><li>☐ Water MP Right Size</li><li>☑ Reliability/Redund</li><li>☐ NEWTP Repurposit</li></ul>	lancy  Project New To CIP	An example intercept	ror
Project Engineer/Ma	nager Mini Panicker	Budget	Wastewater
Mai	nager Biren Saparia	Class Lvl 1	Wastewater
Managing	Dept SCC	Class Lvl 2	Programs
Date Original Busines	s Case Prepared 10/11/2016	Class LvI 3	Programs
Year Proje	ect Added to CIP 2013		Multiple Counties
		Fund and Cost Center	Wastewater - 5421-882301
Scope of Work	Rehabilitation and replacement program of the edeficiencies identified from the evaluation results essential to optimize the transportation capacity expectancy.  Provide CCTV and/or sonar inspection of the GLW existing conditions as per the National Association Certification Program (PACP) standards, evaluate cleaning/rehabilitation/replace to optimize the dinflow and infiltration into the collection system.	This replacement, rehalof the GLWA collection solved Collection System Internal of Sewer Service Competitions, esign capacity of the collection conditions.	erceptors and Trunk Sewers to reveal the banies' (NASSCO) Pipeline Assessment and provide the necessary bllection system and to minimize the
Challenges	Large sewers and interceptors may have flow cor	ntrol challenges for both	inspection and rehabilitation.
Project History	The installation of some of these interceptors and Detroit River Interceptor inspection was recently of deteriorated with visible surface aggregates, attorive all sludge deposition with reduced transpositions are necessary and shall be done every reveal further need for cleaning, rehabilitation or	completed in 5 different ached encrustation and ortation capacity. Inspec y 5 to 7 years. Recomme	phases and there were portions infiltration. Some trunk sewer inspection tions of sewers to reveal the existing
<b>Related Project</b>	GLWA - CON-68, CON-149, CS-168, DWSD - DWS-8	889, DWSD-DWS-876, DWS	SD-DWS-901
Lookup Driver	1 - Condition		
Other Important Info	n/a		

# Sewer and Interceptor Rehabilitation Program

**Explanation** Some sewers have sediment deposits that results in transportation capacity limitation. Some have deterioration.



# Sewer and Interceptor Rehabilitation Program

# PM Weighted Score

87.6

Criteria	Score	Comment
Condition	4	
Efficiency and Innovation	3	
Financial	4	
O&M	3	
Performance (Service Level/Reliability)	5	
Public Benefit	5	
Public Health & Safety	5	
Regulatory (Environmental/Legal)	5	

# RC Weighted Score

0

Criteria	Score	Comment
Condition		
Efficiency and Innovation		
Financial		
O&M		
Performance (Service Level/Reliability)		
Public Benefit		
Public Health & Safety		
Regulatory (Environmental/Legal)		



## Sewer and Interceptor Rehabilitation Program

Phase Design & Construction Assistance

Contract CS-168

Status Active

**Title** CS-168, FK Engineering, Sewer and Interceptor Evaluation and Rehabilitation Program

Co	ost Estimation Information
End Date	9/1/2020
Start Date	9/1/2017
Phase Status	Active
Phase Budget	Wastewater
FK Engineering A	Associates

Cost Estimo	tion Information
1	Cost Est. Class
	Cost Est. Date
Bid	Cost Est. Source
Mini Panicker	Cost Est. Prepared By

Cost Allocation CTA

Funding Source Bond Proceeds

Fund Construction Bond Fund

Useful Life >20Yrs? Yes

Tot. Federal Loan Amount

#### Program/Allowance Task Information

Project Manager Biren Saparia
CIP Number 260202

Study, design and construction administration service to perform the as needed rehabilitation of GLWA Conveyance System Sewers. The primary objective ofthis project is to conduct a focused geotechnical and structural investigation and develop an array fo feasible alternatives.

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Engineering Services	FY19	\$1,079			
Engineering Services	FY20	\$913			

Description

Task	Start Date	End Date	Duration
Project Execution	9/1/2017	6/1/2020	1004
Project Closeout	6/1/2020	8/31/2020	91

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	1,079	913	0	0	0	0	0	1,992



# Sewer and Interceptor Rehabilitation Program

Phase Construction Contract CS-068 Status Pending Close-out

**Title** CS-068, Sewer and Interceptor Evaluation and Rehabilitation Program

		•			
VR02 Upgrades Conner CSO Ba Installation of th	ckwater Upgro e Weir on Con	ergency Sewer Inspec ades (Nine) ner Discharge Channe control on the Discha	el		
Phase Budget	Wastewater			Cost Allocation	CTA
Phase Status	Pending Close	-out		<b>Funding Source</b>	Bond Proceeds
Start Date		10/25/2016		Fund	Construction Bond Fund
End Date		4/25/2018	U	seful Life >20Yrs?	Yes
Co	ost Estimation Ir	nformation	Tot. Fede	eral Loan Amount	
	1	Cost Est. Class	Pro	gram/Allowance	Task Information
		Cost Est. Date	Project Manager	Biren Saparia	
Bid		Cost Est. Source	CIP Number	260203	
Mini Panicker		Cost Est. Prepared By	Description	· ·	otors and Trunk Sewers for Deposits and Structural Integrity.

Task		Start Date	End Date	Duration				
Scope Developmer	nt							
Procurement								
Project Execution		10/25/2016	3/25/2018	51	16			
Project Closeout		10/25/2018	4/24/2018	-18	34			
Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
		0 0	0	0	0	0	0	0



# Sewer and Interceptor Rehabilitation Program

purposes.

**Phase** Study and Design and Construction Assistance

**Contract** PO-005030

Status Pending Close-out

**Title** PO-005030, Sewer and Interceptor Evaluation and Rehabilitation Program

		<u>'</u>			
nis includes Co	nstruction a	ssistance to CON-183 (DRI E	Emergency under Ren	Cen Center)	
Phase Budget	Wastewater	r		Cost Allocation	CTA
Phase Status	Pending Clo	ose-out		<b>Funding Source</b>	Bond Proceeds
Start Date		8/25/2016		Fund	Construction Bond Fund
End Date		6/30/2018	U	Jseful Life >20Yrs?	Yes
Со	st Estimatio	n Information	Tot. Fede	eral Loan Amount	
	1	Cost Est. Class	Pro	gram/Allowance	Task Information
		Cost Est. Date	Project Manager	Biren Saparia	
Bid		Cost Est. Source	CIP Number	260201	
Mini Panicker		Cost Est. Prepared By	Description		ults of the DRI inspection, rehabilitation alternatives and
					truction document for bidding

Task		Start Date	End Date	Duration				
Scope Developmen	t							
Procurement								
Project Execution		8/25/2016	6/30/2018	67	4			
Project Closeout		6/30/2018	8/29/2018	6	0			
Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
		0 0	0	0	0	0	0	0

## 260200 CIP#

# Sewer and Interceptor Rehabilitation Program

**GLWA FY 2020-2024 CIP** 

<b>Phase</b> not appli	ase not applicable					Contract NA				tus Close	ed Out	
Title Prior Year	Actual E	xpense	S									
Phase Budget	Wastev	vater			Cost Allocation CTA							
Phase Status	Closed	Out			Funding Source							
Start Date				Fund								
End Date								Useful Life >	20Yrs?			
C				Tot. Fe	deral Loan <i>A</i>	mount						
	1 Cost Est. Class						P	rogram/Allo	wance Task	Informatio	on	
	Cost Est. Date			ate	Project Manager							
	Cost Est. Source				e CIP Number							
			Cost Est. Pr	epared By	d By Description							
Cost Ty	pe	Fis	scal Year	Expens	e	Fringe	e Benefit	VonPersonne	;	Comment		
Construction		FY18	3-	\$7	7,822				FY18-CON-1	49		
Construction		FY18	3-	\$	1,324				FY18-CS-068	}		
Engineering Ser	vices	FY18	3-		\$983				FY18-CON-1	49		]
Unknown		FY18	3-	\$3	3,397				FY17			
GLWA Salaries (	CIP2020	FY18	3-		\$21		8		FY18			
Prior Yr Actua	ıls	FY19	FY20	FY21	FY2	22	FY23	FY24	FY25+	Total		
13,	.555									13,55	5	



# Sewer and Interceptor Rehabilitation Program

Contract NA **Status** Future Planned Start **Phase** Construction

Title UNALLOCATED, Sewer and Interceptor Evaluation and Rehabilitation Program

Phase Budget Was	stewater			Cost Allocation	CTA
Phase Status Futu	ure Planne	ed Start		Funding Source	Bond Proceeds
Start Date				Fund	Construction Bond Fund
End Date			Us	eful Life >20Yrs?	Yes
Cost Es	stimation	Information	Tot. Feder	al Loan Amount	
	2	Cost Est. Class	Prog	ram/Allowance	Task Information
8/31/	/2017	Cost Est. Date	Project Manager		
Contractor		Cost Est. Source	CIP Number		

Contractor Biren Saparia Cost Est. Prepared By

1108	ram, Anowariee rask information
Project Manager	
CIP Number	
Description	

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Construction	FY19	\$0			
Construction	FY20	\$6,557			
Construction	FY21	\$7,600			
Construction	FY22	\$15,000			
Construction	FY23	\$15,000			
Construction	FY24	\$15,000			
Construction	FY25+	\$95,000			2020CIP

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	0	6,557	7,600	15,000	15,000	15,000	95,000	154,157



# Sewer and Interceptor Rehabilitation Program

Phase Construction Contract CON-149 Status Active

**Title** CON-149, Emergency Sewer Repair

Conner PLC upgrades						
Phase Budget Wastewate	er		<b>Cost Allocation</b>	СТА		
Phase Status Active			<b>Funding Source</b>	Bond Proceeds		
Start Date	7/17/2017		Fund	Construction Bond Fund		
End Date	7/17/2019	l	seful Life >20Yrs?	Yes		
Cost Estimation	on Information	Tot. Fede	eral Loan Amount			
1	Cost Est. Class	Program/Allowance Task Information				
8/31/2017	Cost Est. Date	Project Manager	Beena Chackur	nkal		
Contractor	Cost Est. Source	CIP Number				
Biren Saparia	Cost Est. Prepared By	Description				

Cost Type	Fiscal Year	Expense	Fringe Benefit	NonPersonne	Comment
Construction	FY19	\$7,400			
Construction	FY20	\$7,400			
Construction	FY21	\$7,400			2020CIP

Task	Start Date	End Date	Duration	
Project Execution	7/14/2017	5/14/2019	669	
Project Closeout	5/14/2019	7/13/2019	60	

Prior Yr Actuals	FY19	FY20	FY21	FY22	FY23	FY24	FY25+	Total
	7,400	7,400	7,400	0	0	0	0	22,200

260200 CIP#

## Sewer and Interceptor Rehabilitation Program

**Phase** Study and Design and Construction Assistance Contract TBD **Status** Future Planned Start **Title** Sewer and Interceptor Evaluation and Rehabilitation Program Phase Budget Wastewater Cost Allocation CTA **Phase Status** Future Planned Start Funding Source Bond Proceeds Start Date Fund Construction Bond Fund **End Date** Useful Life >20Yrs? Yes Tot. Federal Loan Amount \$0 **Cost Estimation Information** Program/Allowance Task Information Cost Est. Class **Project Manager** Cost Est. Date **CIP Number** Cost Est. Source Description Cost Est. Prepared By Prior Yr Actuals FY19 FY20 FY21 FY22 FY23 FY24 FY25+ Total 0 0 0



# Sewer and Interceptor Rehabilitation Program

Phase GLWA Emplo Title GLWA Salaries	,	ojec <sup>.</sup>	t manager	ment		C	Contract N	A	Stat	us Active	
Phase Budget Wa	stewate	er			Cost Allocation CTA						
Phase Status Act	tive							Funding So	<b>burce</b> Bond	Proceeds	
Start Date	Start Date								Fund Cons	truction Bor	nd Fund
End Date							U	seful Life >2	OYrs? No		
Cost Estimation Information						Tot. Federal Loan Amount					\$0
5 Cost Est. Class				lass	Program/Allowance Task Information						
	Cost Est. Date				Р	roject	Manager				
			Cost Est. So	ource	CIP Number						
			Cost Est. P	repared By	y Description						
Cost Type		Fis	scal Year	Expens	e	Fringe	e BenefitNo	nPersonne	C	Comment	
GLWA Salaries CIP20	020	FY19	9		\$90		36	40	CS-168, CON	V-149	
GLWA Salaries CIP20	020	FY20	)		\$90		36	40	CS-168, CON	V-149	
Prior Yr Actuals	FY19	7	FY20	FY21	FY	22	FY23	FY24	FY25+	Total	
		130	130	0		0	0	0	0	260	
			P	hase Total E	(pense	es By I	FY (All figure	es are in \$1,	000's)		
Drois	A Tak	~-I F		Dy EV Co	100 10 01	" a al 4	- Drier CI	Do / All fier		¢1 000'	

										<u> </u>	
CIP	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total
2018		2,612	8,000	8,000	20,000	20,000	20,000		0	0	78,612
2019	0	3,397	7,751	10,601	10,400	11,400	11,400	11,400	11,400	0	77,749
2020	0	0	13,555	8,609	15,000	15,000	15,000	15,000	15,000	95,000	192,164