

LCA Main Office:

1053 Spruce Road Wescosville, PA 18106 610-398-2503

Agendas & Minutes Posted:

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LEHIGH COUNTY AUTHORITY

Published: February 19, 2024

BOARD MEETING AGENDA - February 26, 2024 - 12:00 p.m.

In-Person or Virtual Meeting Attendance Options Available: Meetings of the LCA Board of Directors will be held at LCA's Main Office as well as online using the Zoom Meetings application, which includes a telephone option. Public participation is welcomed both in-person or virtually. Instructions for joining the meeting online or by phone are posted on the LCA website in the morning on the day of the meeting, prior to the start of each meeting. You may also issue comment to LCA via email to LCABoard@lehighcountyauthority.org in advance of any meeting or view the meeting at a later time by visiting the LCA website. Please visit https://www.lehighcountyauthority.org/about/lca-board-meeting-videos/ for specific instructions to join the meeting if you are attending virtually. If attending in-person at LCA's Main Office, please follow all safety and sanitation protocols posted.

- 1. Call to Order
 - NOTICE OF MEETING RECORDINGS

Meetings of Lehigh County Authority's Board of Directors that are held at LCA's Main Office at 1053 Spruce Road, Wescosville, PA, may be recorded for viewing online at lehighcountauthority.org. Recordings of LCA meetings are for public convenience and internal use only and are not considered as minutes for the meeting being recorded, nor are they part of public record. Recordings may be retained or destroyed at LCA's discretion.

- Public Participation Sign-In Request
- 2. Review of Agenda / Executive Sessions
 - Additions to Agenda (vote required if action will be taken)
- 3. Approval of Minutes
 - February 12, 2024 Board Meeting minutes
- 4. Public Comments
- 5. Action / Discussion Items:

FINANCE AND ADMINISTRATION

- Authorization for Additional Legal Action Regarding PFAS Litigation
- Board of Directors Election of Officers

WATER

- Water Main Replacement Program Cycles 9-11 (Approval) (blue) (digital Board packet, pages 6-9)
- Lead Service Line Replacement Project Cycle 2 (Approval) (yellow) (digital Board packet, pages 10-15)

WASTEWATER

- Sanitary Sewer Collection System: I&I Source Reduction Program (LCA Year 1) (Approval) (green) (digital Board packet, pages 16-18)
- 6. Monthly Project Updates / Information Items (1st Board meeting per month) (digital Board packet, pages)

- 7. Monthly Financial Review (2nd Board meeting per month) (digital Board packet pages 19-31) **December 2023 report attached**
- 8. Monthly System Operations Overview (2nd Board meeting per month) (digital Board packet, pages 32-40) **January 2024 report attached**
- 9. Staff Comments
- 10. Solicitor's Comments
- 11. Public Comments / Other Comments
- 12. Board Member Comments
- 13. Executive Sessions
- 14. Adjournment

	UPCOMING BOARD MEETING	SS
March 11, 2024	March 25, 2024	April 8, 2024

PUBLIC PARTICIPATION POLICY

In accordance with Authority policy, members of the public shall record their name, address, and discussion item on the sign-in sheet at the start of each meeting; this information shall also be stated when addressing the meeting. During the Public Comment portions of the meeting, members of the public will be allowed 5 minutes to make comments/ask questions regarding non-agenda items, but time may be extended at the discretion of the Chair; comments/questions regarding agenda items may be addressed after the presentation of the agenda item. Members of the public may not request that specific items or language be included in the meeting minutes.

REGULAR MEETING MINUTES February 12, 2024

The Regular Meeting of the Lehigh County Authority Board of Directors was called to order at 12:11 p.m. on Monday, February 12, 2024, Chairman Brian Nagle presiding. The meeting was hybrid via in-person and video and audio advanced communication technology ("ACT"), using the Zoom internet application, including telephone option. Each Board member and other attendees of the meeting were able to hear each other attendee and be heard by each other attendee. The public could also participate in the meeting in-person or via ACT, using the Zoom internet application, including telephone option. A Roll Call of Board members present was taken. Brian Nagle, Linda Rosenfeld, Jeff Morgan, Norma Cusick, Amir Famili, Sean Ziller, and Marc Grammes were present for Roll Call, and remained for the duration of the meeting.

Attorney Kevin Reid, the Authority's Solicitor, was present along with Authority Staff, Ed Klein, Chris Moughan, Andrew Moore, AJ Capuzzi, Phil DePoe, Chuck Volk, and Lisa Miller.

Chairman Nagle announced that there was an Executive Session prior to the start of the regular meeting to discuss potential litigation.

Chairman Nagle announced that the Board received their electronic and hard copies of the Board packet in advance. He then asked if anyone did not receive their copy of the packet. A copy of the packet is also available online.

REVIEW OF AGENDA

Ed Klein announced that there is no Executive Session planned; however, there is a minor change to the agenda. The item under Finance and Administration, Authorization for Additional Legal Action Regarding PFAS Litigation will not require action or discussion today.

APPROVAL OF MINUTES

January 22, 2024 Meeting Minutes

On a motion by Linda Rosenfeld, seconded by Amir Famili, the Board approved the minutes from the January 22, 2024 meeting as presented (7-0).

PUBLIC COMMENTS

None.

Legal Services: Development of New Intermunicipal Agreement(s)

Phil DePoe introduced Attorney Lee Stinnett from Salzmann Hughes. Salzmann Hughes was chosen to provide legal services to the Kline's Island Sewer System (KISS) municipalities for the purposes of jointly negotiating and drafting a new intermunicipal agreement or agreements. Mr. DePoe stated that as part of the Act 537 Plan development process, the municipalities have begun contemplating the need for updated cost-sharing mechanisms for the new projects that will be outlined in the Plan. The overall goal is to simplify billing and also how the large capital improvements should be addressed from a financial perspective.

Attorney Lee Stinnett gave an overview of his experience with agreements and his work with municipalities. He also has experience working with state regulatory agencies and Act 537 plans.

There was some Board discussion regarding the technical aspects of the agreements and how the Authority and Salzmann Hughes plan to bring that together in the agreements, and the use of

sewage billing meters. Atty. Stinnett explained his extensive work experience with intermunicipal agreements.

On a motion by Jeff Morgan, seconded by Linda Rosenfeld, the Board authorized the Chief Executive Officer, or her designee, to execute the engagement letter with Salzmann Hughes contained in their January 15, 2024 proposal, not to exceed \$75,000.00 (7-0).

KISS Relief Interceptor Pre-Design Study

Phil DePoe provided an overview of the project which will construct relief facilities for the Little Lehigh Interceptor in Allentown, which has been identified as running in an overloaded condition for a long period of time. In order to develop the project details for inclusion in the Act 537 Plan, the next stage of planning requires survey, subsurface utility locating, geotechnical investigation, groundwater investigation, wetlands assessments, and PNDI/PHMC evaluations. The project concept includes constructing a parallel interceptor that will extend along Martin Luther King Jr. Blvd to the Kline's Island Wastewater Treatment Plant. The interceptor alignment must be finalized for the Act 537 Plan submission.

Mr. DePoe explained that the funding for the pre-design work will initially come from the Authority's Little Lehigh Relief Interceptor Phase 1 (LLRI-1) fund, which was established to manage shared capital and operating costs associated with the Park Pump Station. Nine of 15 municipalities in the Kline's Island Sewer System currently contribute toward the LLRI-1, and will pay for the pre-design work in 2024 and 2025. Reimbursement agreements from the remaining municipalities will be developed as part of the negotiation of a new intermunicipal cost-sharing agreement. There was some discussion regarding the risk associated with cost recovery in the absence of a final cost-sharing agreement. Mr. DePoe explained that the LLRI-1 municipalities are already aware of the proposed arrangement and are agreeable to this approach.

Mr. DePoe reviewed the pre-design tasks and the three subconsultants that will be working with Arcadis.

On a motion by Amir Famili, seconded by Norma Cusick, the Board approved the Capital Project Authorization: KISS Act 537 – KISS Relief Interceptor (KRI) in the amount of \$879,000.00 which includes the Professional Services Authorization to Arcadis – KRI Pre-Design in the amount of \$779,000.00 (7-0).

Arcadia WWTP Screening System Project

Chuck Volk introduced the project and provided some background to upgrade the Arcadia Wastewater Treatment Plant located in Weisenberg Township. Matt Dorner provided details of the project noting that there is a sewage grinder in the influent wet well, but the WWTP has no screening system for the raw wastewater. Therefore, rags and other bulky debris accumulate creating maintenance issues. This project will consist of the installation of two automatic mechanical screening units, one for each Sequencing Batch Reactor.

On a motion by Norma Cusick, seconded by Marc Grammes, the Board approved the Capital Project Authorization for the design phase in the amount of \$66,300.00 which includes the Professional Services Authorization for design phase engineering services to D'Huy Engineering in the amount of \$48,400.00 (7-0).

Kline's Island WWTP: Secondary Digester Cleaning

Amy Rohrbach gave an overview of the project that is required by the City of Allentown Lease Agreement. The digester tanks are required to be cleaned every five years and the Secondary Digester is due for cleaning. The activities that are necessary are to empty, dewater, and clean the Secondary Digester, replace digested sludge sample lines, and repair the overflow box.

Chuck Volk added that the costs are high due to the extensive mobilization involved with this project.

On a motion by Sean Ziller, seconded by Marc Grammes, the Board approved the Capital Project Authorization for the Construction Phase in the amount of \$292,900.00 which includes the Professional Services Authorization to GHD Inc. in the amount of \$17,900.00, and the General Contract Award to Romesberg Trucking, Inc. dba Mobile Solids Solutions in the amount of \$265,000.00 (7-0).

MONTHLY PROJECT UPDATES / INFORMATION ITEMS

Ed Klein highlighted items for the next meeting in February. Chairman Nagle asked Norma Cusick to

serve as the Nominating Committee for the upcoming Board election of officers. Ms. Cusick will poll the Board members regarding their interest in being nominated to an officer position. Nominations will be finalized, and officers will be elected at the next meeting.
STAFF COMMENTS
None.
SOLICITOR'S COMMENTS
None.
PUBLIC COMMENTS / OTHER COMMENTS
None.
BOARD MEMBER COMMENTS
None.

EXECUTIVE SESSION

None.

ADJOURNMENT

There being no further business, the Chairman adjourned the meeting at 1:09 p.m.

Linda A. Rosenfeld Secretary

MEMORANDUM

Date: February 26, 2024

To: Lehigh County Authority Board of Directors **From:** Jason Peters, Linear Asset Project Manager

Subject: Allentown Division- Water Main Replacement Program:

Design Phase & Pipe Prioritization Assessment for Cycles 9-11

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	Capital Project Authorization – Design Phase & Pipe Prioritization Assessment Program Cycles 7&8	\$775,000
2	Professional Services Authorization – Gannett Fleming, Inc. (1), (2)	\$525,000

- (1) Included in the Capital Project Authorization.
- (2) Does not include Construction phase related engineering services.

PROJECT OVERVIEW:

The Operating Standards of the Lease Agreement (Agreement), as amended in 2020, requires Lehigh County Authority (LCA) to replace aged spun and/or pit cast-iron water mains annually. This Project covers Cycles 9-11 which will address the Allentown Division (AD) main replacement requirements through 2027.

The Project includes approval for approximately 6 miles of water main to be designed and bid through the term of this authorization (3 years). All water main replacements will be constructed from intersection to intersection thus allowing future replacements to be easily constructed without interruptions in service to customers in the area. Any additional water main beyond the Agreement will be credited to future project cycles installation requirements. Additionally, the Project scope includes the annual Pipe Prioritization Assessment Program, which includes a 5-year replacement plan as required by the Agreement.

Given the complex nature of this project, which entails replacing mains in a densely populated urban area with many underground facilities and continuous traffic and work restrictions, coordination with the City of Allentown (COA) along with outside agencies and private utilities (such as UGI) is critical to obtain the necessary approvals. As was the protocol for the previous Cycles 1-8 projects that addressed the main replacement requirements for years 2014 through 2024, it is envisioned that all main replacements for a given year will be covered by a single construction contract.

FINANCIAL:

The Project will be funded by the LCA Allentown Division and has been approved by the COA as a Major Capital Improvement.

PROJECT STATUS:

Pending Board approval of the Design Phase for Cycles 9-11

THIS APPROVAL - DESIGN PHASE CYCLES 9-11

In order to leverage continued continuity and efficiencies with the engineering work, LCA recommends retaining the services of Gannett Fleming. Inc. (GF) to provide design and bid phase services (including the annual Pipe Prioritization Assessment Program) for Cycles 9-11 Program. The following table summarizes the professional services to be performed:

Professional Services (1)

- 1. Administer the Pipe Prioritization Assessment Program.
- 2. Prepare the Pipe Prioritization Assessment Report for projected 5-year plan in compliance with the Agreement and attend review meetings with LCA and the City
- 3. Coordinate with City Streets Program, other City departments, outside agencies and utilities.
- 4. Prepare plans and specifications for segments of main to be replaced.
- 5. Prepare and obtain regulatory and municipal permits as required.
- 6. Provide bid phase services, including pre-bid meeting administration, addenda preparation, bid review and recommendation.
- (1) THE FOLLOWING SERVICES ARE NOT INCLUDED: The design and permitting of ADA ramps at intersections pursuant to the Americans with Disabilities Act that may be required in some cases by street paving restoration; permitting for railroad borings, creek/river crossings; design of water mains that are affixed to bridges. If deemed necessary, a cost will be negotiated for the required service.

CONSULTANT PROJECT BACKGROUND:

Gannett Fleming (GF) has served as design engineer for the prior City water main replacement projects (cycles 1 through 8) and they consistently provided excellent deliverables and meet LCA goals. The firm also provided design services on numerous other water projects for both LCA Suburban and Allentown Division. GF and LCA have established an excellent partnership over the last 10 years working with the City of Allentown (COA) and the firm is familiar with the City department approval processes and protocols, including developing cost sharing agreements for final restoration.

FUTURE AUTHORIZATIONS:

Capital Project Authorization (CPA) Amendment(s) will be presented to the Board at a later date for Construction Phase (approvals will be requested separately for each cycle on an annual basis in late March or early April after bids are received).

		Linoulein	UTHORIZA'	11011	
PROJECT No.:	AD-W-24-2	B	UDGET FUND:	Allentown Div\Water	r\Capital
Project Title:	Allentown Division -Water Main Replacement Program Cycles 9-11		PROJECT TYPE:		
This Authoriza	ΠΟΝ: <u>\$ 775,000</u>			Construction Engineering De Equipment Pur Amendment	-
DESCRIPTION AND	BENEFITS:				
nnually replace age eplacing approxima city of Allentown (Crioritization Prograthe annual main repeliability of water s	ed spun and/or pit cast- tely 6 miles of water n COA) and outside agen am. blacements are critical in ervice for our custome	iron water mains. Thinain from 2025 through acies and private utilities in meeting the requirers.	s Project covers (th 2027. This wor les. Project scope	county Authority is requirely cycles 9-11, which included must be coordinated we also includes the annual element and provide long	ides vith the il Pipe
+		OTTEGERED WITTE T		X 7	
	Design Phase	QUESTED THIS AU	THORIZATIO	N	
	Staff			\$100,000	
	Gannett Fleming	ion Program, Design	1,	\$525,000	
	Contingencies (1)			\$150,000	
	Total This Authoriz	zation		\$775,000	
		Future Author	izations		
	Construction Phase	T diale 1 lanio1		\$14,025,000	
	T (ID () ID (¢14,000,000	
		urface investigations suc adar if required; also pe			
REVIEW AND APPI	ROVALS:				
		<u> </u>	ChiefEve	- C CC	D /
Project	Manager	Date	Chief Exe	ecutive Officer	Date



	PROFESSIONAL SERVIC	ES AUTHORIZAT	TION
Professional:	GANNETT FLEMING, INC. P.O. Box 67100	Date:	February 26, 2024
	Harrisburg, PA 17106	Requested By:	Jason Peters
	-	<u>Approvals</u>	
		Department Head: Chief Executive	
		Officer:	
		2 301	
Gannett Flem	vision - Water Main Replacement ing, Inc. will perform the follow on Division Water Main Replacement	ving design and bid phase	
	Professional	Services ⁽¹⁾	
	nister the Pipe Prioritization As	sessment Program	
	are the Assessment Report for the	1 3 1	
	greement and attend review mee		
and u	dinate with City Streets Program	, other City departmen	its, outside agencies
	are plans and specifications	1	
	de permitting services (regulato	ry and municipal).	
o. Provi	de bid phase services.		
Americans Wit borings, creek	WING SERVICES ARE NOT INCLUDED: The design a h Disabilities Act that may be required in some river crossings; design of water mains that are the required service.	e cases by street paving restorat	ion; permitting for railroad
<u>Design Phase:</u> Cost Estimate	(not to be exceeded without furth	er authorization): \$52	5,000
Time Table an	d Completion Deadline: As requir	red to meet various critic	cal deadlines.
Authorization Co	(For Authority	Use Only)	
Annwayalı	Actual Costs	D.	**

MEMORANDUM

Date: February 26, 2024

To: Lehigh County Authority Board of Directors From: Jason Peters, Linear Asset Project Manager

Subject: Allentown Division – Lead Service Line Replacement Program Cycle 2

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	Capital Project Authorization – Lead Services Replacement Program Cycle 2: Design, Bid, and Construction Phase	\$1,222,207
2	Professional Services Authorization – Funding Application Services: Gannett Fleming (1)	\$38,600
3	Professional Services Authorization – Design, Bid and Construction Phase Services: CDM Smith (1)	\$933,607

⁽¹⁾ Included in the Capital Project Authorization

PROJECT BACKGROUND

In 2021, the US Environmental Protection Agency (US EPA) issued the final regulatory framework for the Lead and Copper Rule Revisions (LCRR). In late 2023, US EPA published the proposed Lead and Copper Rule Improvements (LCRI), which would require replacement of all lead water service lines within 10 years of the final rule. Lehigh County Authority (LCA) has taken a proactive approach and developed an in-depth lead service line replacement (LSLR) plan. LCA received finding of \$5M from PennVEST for the Cycle 1 LSLR work (\$3.4M in grant, \$1.6M in low-interest loan). Design is underway and construction is expected to start in June to replace 150 service lines included in Cycle 1. The Cycle 2 project will replace 1,000 service lines. LCA will be requesting \$15M in grant funding from PennVEST for this work in May. The project area for Cycle 2 is depicted below:

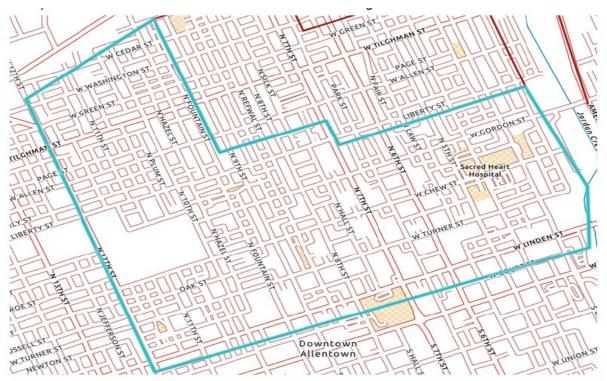


Figure 1 – The area outlined in blue is where the replacement of up to 1,000 lead and galvanized service lines is expected to be performed in the City of Allentown during LCA's Cycle 2 LSLR Project.

PROJECT SCOPE

There are two professional service authorizations for this work that include funding support and design/bid/construction services:

Funding Application: This work includes preparing the PennVEST Application and compliance with the state requirements (including Disadvantaged Business Enterprise requirements).

Design: The project scope will include field investigation (potholing) and replacement of approximately 1,000 lead service lines (LSL) in Allentown. Given the complex nature of this project, replacing LSL in a densely populated urban area with many underground facilities will require significant coordination with the City of Allentown (COA), private utilities and property owners/residents. The LSLR for Cycle 2 will be covered by a single construction contract. The design will comply with PA One Call requirements for locating subsurface utilities during design phase. To enable submission of the grant application by the May 2024 deadline, the engineer will prepare a design based on GIS data. For bidding and construction, the engineer will prepare a survey-based design showing the location of subsurface utilities (as required by State law). This authorization will also include bid and construction phase engineering services.

FINANCIAL

This Project represents Change of Law and will be funded by the Allentown via a combination of PennVEST grants and loans. The loan portion of the funding will be captured via a Change of Law fee applied to customers in Allentown.

THIS APPROVAL – LEAD SERVICE LINE REPLACEMENT PROGRAM CYCLE 2: PENNVEST FUNDING APPLICATION, DESIGN, BID AND CONSTRUCTION PHASE

FUNDING APPLICATION SERVICES:

The LCA staff recommends retaining the services of Gannett Fleming to provide the PennVEST Funding Application services. Gannett Fleming as successfully completed numerous PennVEST applications for similar projects and is familiar with the City's water system and working with the City Compliance Office. Gannett Fleming completed the successful Cycle 1 PennVEST application.

DESIGN, BID AND CONSTRUCTION MANAGEMENT SERVICES:

LCA staff recommends retaining the services of CDM Smith to provide the Design, Bid and Construction Engineering services. Resident inspection services will be requested separately once design is complete (at the time of construction authorization), in order to better assess the estimated inspection manhours required throughout the construction duration. The table below represents a summary of the engineering services:

Professional Services – CDM Smith						
Task 1: Project management and design progress meeting attendance, contract administration, project scheduling, design coordination with utilities and other						
agencies						
Task 2: Engineering design (GIS-Based) for PennVEST submission, detailed						
design, site topographic survey (for construction)						
Task 3: Public Communications Support						
Task 4: Bid Phase Services						
Task 5: Construction Phase Services						

Consultant Selection:

LCA requested qualifications from Barton Lawson, Ramboll, WRA, HDR, AECOM and CDM Smith for this work. On the basis of the responses, two firms were shortlisted and proposals requested from AECOM and CDM Smith. CDM Smith is a leader in Lead Service Line Replacement (LSLR) work in the US. They led the successful programs in Newark NJ and Trenton NJ. They have managed over 50,000 lead service line replacements in the US. CDM Smith is currently under contract with DC Water, Chicago, Providence and American Water to support the LSLR work. They have added a local consultant partner, Arthur Swallow & Associates, for survey work.

PROJECT SCHEDULE

The Design phase work is anticipated to begin in March 2024 and will be ready for bidding in fall 2024, with bids to be opened by year end. Construction is anticipated to commence in early 2025 and be completed by December 2025.

FUTURE AUTHORIZATIONS

Construction Phase of the Allentown Division Lead Service Line Replacement Program Cycle 2 (including the resident project inspection work).

	CAPITAI	L PROJECT AUT	HORIZA	ΓΙΟΝ				
PROJECT No.:	AD-W-24-3	BUDG	ET FUND:	Allentown Div\W	ater\Capital			
Project Title:		own Division -Lead Service Line ement Program Cycle 2		PROJECT TYPE:				
				Construction				
THIS AUTHORIZAT	ION: \$1 222 207			Engineering Equipment I				
1 III S AO I II ORIZAT	ψ1,222,207			Amendment				
Rule Revisions (LCR program. Cycle 2 of 1000 LSLs in the Cit	vironmental Protection R). Lehigh County Authis program will includy. This work will be co	Agency (US EPA) regulationity has developed a life field investigation (poordinated with the City case reference the cover M	Lead Service tholing) and r lepartments, o	Line (LSL) replacement of approputside agencies, priva	ent ximately			
		UESTED THIS AUTH	ORIZATIO	N				
	Design & Bid Phase			\$100,000				
	Staff Engineering Const	ultant - Funding		\$38,600				
	Application Services Gannett Fleming	e e		\$30,000				
	Engineering Const Construction Phase S CDM Smith	ultant – Design, Bid & Services:		\$933,607				
	Contingencies (1)			\$150,000				
	Total This Authoriza	tion		\$1,222,207				
		Future Authorizat	ion					
	Construction Phase			\$13,777,793				
	Total Estimated Project	ot .		\$15,000,000				
	Total Estimated Project	Ji		\$13,000,000				
REVIEW AND APPR	penetrating radar if requ	investigations such as geo- uired; also permit fees and						
Project N	Manager	Date	Chief Exe	cutive Officer	Date			
Chief Capital V	Works Officer	Date	Ch	airman	Date			
\\lca-dc\users\miller lj\M	inutes\2024\February 26 meeting\CPA des	ign bid cycle 2.docx						



1053 Spruce Road * P.O. Box 3348 * Allentown, PA 18106-0348 (610)398-2503 * FAX (610)398-8413 * Email: service@lehighcountyauthority.org

	PROFESSIONAL SERVICE	CES AUTHORIZA	TION
Professional:	GANNETT FLEMING, INC. P.O. Box 67100 Harrisburg, PA 17106	Date:	February 26, 2024
		Requested By: <u>Approvals</u> Department Head: Chief Executive	Albert Capuzzi
		Officer:	
Allentown Div	<u>ision – Lead Service Line Replac</u>	cement Program Cycle	2
Gannett Flemin Service Line Re	ation - PENNVEST funding applied will provide state funding applied eplacement Program Cycle 2 in acable presents a summary of the series.	cation services for the A cordance with their prop	
	Professional	Services	
1. Prepare	cost data for the PennVest Applic	ation	
2. Prepare	and Coordinate the Submission of	f Supporting Documenta	ation for PennVest
	ination with LCA and the City		
	nce in PennVest settlement		
	e and submit Disadvantaged E		
5. Docum	ent contractor's Disadvantage	ed Business Enterpri	se Solicitations
	(not to be exceeded without furt d Completion Deadline: As requi		
Authorization C	-	-	Date:



1053 Spruce Road * P.O. Box 3348 * Allentown, PA 18106-0348 $(610)398\text{-}2503 \ \ ^*FAX \ (610)398\text{-}8413 \ \ ^*Email: service@lehighcountyauthority.org$

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	PROFESSIONAL SER	EVICES AUTHORIZA	ATION
Professional:	CDM SMITH Two Penn Center Plaza 1500 JFK Blvd, Suite 1208 Philadelphia, PA 19102		: February 26, 2024
		Requested By:	: Albert Capuzzi
		<u>Approvals</u>	
		Department Head:	
		Chief Executive	
		Officer	
Allentown Div	ision – Lead Service Line Ro	eplacement Program Cyc	le 2
CDM Smith wi Division Lead S	ation: Design, Bid & Construction: Design, Bid and Conservice Line Replacement Proof The following table includes	onstruction Phase services for gram Cycle 2 in accordance	for the Allentown the with their proposal
	Professio	onal Services	
1. Project	Management and Progress		
	ering Design (GIS-Based) for		sign for bidding,
	Communications Support		
4. Bidding			
5. Constru	ction Services		
	(not to be exceeded without d Completion Deadline: As posal.	ŕ	
Authorization C	ompletion:	hority Use Only)	
ADDrovai:	Actual	Cost: Date:	

MEMORANDUM

Date: February 26, 2024

To: Lehigh County Authority Board of Directors

From: Jason Peters, Linear Asset Project Manager, Charles Volk, CCWO

Subject: Allentown Division: I&I Source Reduction Program Year 1 - Construction

Phase

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	Capital Project Authorization – Construction Phase Year 1	\$2,717,297.50
2*	General Construction Contract – Vortex Services, LLC	\$2,492,297.50

^{*}Included in the Capital Project Authorization

BACKGROUND:

Based on recommendations from the 2021 Kline's Island Sewer System (KISS) Flow Characterization Study and the 2022 Rainfall Derived Inflow & Infiltration (RDII) analysis, the City of Allentown developed a 10-year I&I Source Reduction Program (SRP). The SRP specifies projects that LCA will construct beginning in 2024. The goal of the work is the cost-effective reduction of I&I, to reduce both dry-day and wet-weather flows in the KISS. Under the terms of the Lease Agreement with the City, the program is to be developed on a collaborative basis, with the City having final determination of the scope of projects to be completed.

PROJECT OVERVIEW:

This authorization request is for the construction phase of the I&I Source Reduction Improvements Year 1 project. The three highest priority sewer system collection basins in the City will be addressed in this project, as per the City's 10 year I&I Source Reduction Program. These three sewer basins were ranked highest based on results of the 2021 Flow Characterization Study and the 2022 RDII analysis. High priority sewer basins are those which have a high rate of rainfall derived I&I, contributing significant baseline and peak flows to the system during wetweather events.

FINANCIAL:

Under the terms of the Lease Agreement as amended in 2020, LCA will provide funding for the SRP from its Allentown Division revenues or reserves. After the first \$650,000 is spent each year, additional project costs beyond that amount will be recaptured through LCA sewer rates through a Capital Cost Recovery Charge. However, in 2023, the City was awarded a H2O PA grant through a collaborative grant application process conducted with LCA, with proceeds to be used for this program, to reduce the future rate impact to City customers.

PROJECT STATUS:

In February 2023 the Board approved the Design and Construction Phase Engineering services for Year 1 of this Program. Working closely with the City to obtain Major Capital Improvement approvals (as required by the Lease) and outside agencies, Capital Works has obtained all approvals for the SRP Year 1 Construction Phase.

THIS APPROVAL - CONSTRUCTION PHASE SRP YEAR 1:

The Allentown Division SRP Year 1 project will include rehabilitation of existing sewer main lines, including cleaning, inspecting, and cured-in-place pipe lining of approximately 22,000 linear feet of sewer mains. Additionally, 150 sewer laterals will be grouted along with rehabilitation of approximately 1,200 vertical feet of existing sewer manholes by means of cementitious and epoxy lining.

BIDDING SUMMARY - CONSTRUCTION CONTRACTS

The project was advertised for bid on December 11, 2023; a mandatory pre-bid meeting was held virtually on December 19, 2023. Bids were opened on January 23, 2024. Four bids were received. The bidding results are as shown in Table 1 below:

Table 1											
General Construction											
Bidder	Amount										
Vortex Services, LLC	\$2,492,297.50										
Insituform Technologies	\$2,499,060.00										
Mr. Rehab, LLC	\$3,226,225.00										
Mobile Dredging & Video Pipe, Inc.	\$4,370,040.00										

Vortex Services, LLC, (located in Freehold, NJ) is the lowest bidder. Reference checks for Vortex Services, LLC (Vortex) have identified no issues, and the company has completed many projects of similar scope and size. In fact, Vortex completed the City's Source Reduction improvements (that was administered by LCA for years 3 and 4 of the prior City program) satisfactorily and in accordance with the contract schedule. Vortex was agreeable to work with, followed up with any issues that required correction and completed the rehabilitation work as described in the plans and specifications.

Based on reference checks and previous experience working with Vortex, LCA recommends contract award to Vortex Services, LLC.

PROJECT SCHEDULE:

Assuming Board approval at the February 26, 2024 meeting, Notice to Proceed will be issued by early March 2024 with an anticipated construction completion by late 2024.

		ECT AUTHORIZA		
PROJECT NO.:	AD-S-24-1	BUDGET FUND:	Allentown Div	\Water\Capita
ROJECT TITLE:	Allentown Division Yea Plan - Construction Pha		PROJECT TYP	E :
This Authorization	<u>\$ 2,717,297.50</u>		Construction Engineer Equipme	
DESCRIPTION AND BENE			Amendm	ent No.
n recommendations from ainfall Derived I&I (RD eduction Program was o	ity) initiated the Infiltration and Arcadis, the Kline's Island Soll) analysis were completed. Heveloped. The goal of the wallows in the KISS.	Sewer System (KISS) Flo Based on these studies, a	w Characterization new City 10-year	Study and I&I Source
This CPA includes rehaboring lining of approximate along with rehabilitation rementitious and epoxy l	ilitation of existing sewer pipe cely 22,000 linear feet of sewer of approximately 1,200 vertic ining. Please reference the co	r mains. Additionally, 15 al linear feet of existing s	0 sewer laterals wi ewer manholes by	ll be grouted
This CPA includes rehab pipe lining of approximate along with rehabilitation elementitious and epoxy l	rely 22,000 linear feet of sewe of approximately 1,200 vertic ining. Please reference the co SRP Year 1 REQUESTED THE	r mains. Additionally, 15 al linear feet of existing s ver Memo for additional	0 sewer laterals wi ewer manholes by information.	ll be grouted
This CPA includes rehability of approximate along with rehabilitation rementitious and epoxy learners of the construction Phase - Staff	rely 22,000 linear feet of sewer of approximately 1,200 vertical ining. Please reference the construction of the series of the s	r mains. Additionally, 15 al linear feet of existing s ver Memo for additional IIS AUTHORIZATION ion Phase Year 1	0 sewer laterals wi ewer manholes by information.	ll be grouted
This CPA includes rehability ipe lining of approximate long with rehabilitation ementitious and epoxy leads to be construction Phase - Staff Staff General Const	rely 22,000 linear feet of sewe of approximately 1,200 vertic ining. Please reference the co SRP Year 1 REQUESTED THE	r mains. Additionally, 15 al linear feet of existing s ver Memo for additional IIS AUTHORIZATION ion Phase Year 1	0 sewer laterals wi ewer manholes by information.	\$75,000 192,297.50
this CPA includes rehability in the lining of approximate approximate approximate approximate approximate and epoxy left. Construction Phase - Staff	ruction Contract – Vortex S	r mains. Additionally, 15 al linear feet of existing s ver Memo for additional IIS AUTHORIZATION ion Phase Year 1	0 sewer laterals wi ewer manholes by information.	ll be grouted means of
This CPA includes rehability pipe lining of approximate along with rehabilitation cementitious and epoxy leads to be a second construction Phase - Staff Staff General Construction Contingency	rely 22,000 linear feet of sewer of approximately 1,200 vertical ining. Please reference the construction Contract – Vortex Section 1.	r mains. Additionally, 15 al linear feet of existing s ver Memo for additional IIS AUTHORIZATION ion Phase Year 1	0 sewer laterals wi ewer manholes by information.	\$75,000 \$92,297.50 \$150,000
Staff General Const Contingency Total This Aut	rely 22,000 linear feet of sewer of approximately 1,200 vertice ining. Please reference the construction Contract – Vortex Section Contract – Vortex	r mains. Additionally, 15 al linear feet of existing s ver Memo for additional IIS AUTHORIZATION ion Phase Year 1	0 sewer laterals wi ewer manholes by information. \$2,4	\$75,000 \$92,297.50 \$150,000

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS DECEMBER 2023

LEHIGH COUNTY AUTHORITY YTD SUMMARY SCORESHEET DECEMBER 2023

	Sub W	Sub WW	City
YTD Net income >0			
YTD Net income >= FC			
YTD Cash Flow >0			
YTD Cash Flow >= FC			
YTD DSCR >= FC			
YTD DSCR >= 1.20			
YTD Operating Ratio >= 1.00			
YTD Operating Ratio >= Budget Target			
YTD Days Cash on Hand >= 180.0			
YTD Operating Revenues >= FC			
YTD Operating Expenses <= FC			
FY FC Net Income >= Budget			
FY FC Cash Flows >=Budget			
FY FC DSCR >= Budget			
TOTAL GREEN	12	8	14

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - SUMMARY For the Period Ended December 31, 2023

Income Statement Suburban Water Suburban Wastewater City Division Total LCA

Cash Flow Statement Suburban Water Suburban Wastewater City Division Total LCA

Debt Service Coverage Ratio Suburban Water Suburban Wastewater City Division

							Consolida	ted Financial Stat	ements						
			Month					Year To Date				FULL YEAR			
Actu	ıal	Q4 FC	Prior Year	FC Var	PY Var	Actual	Q4 FC	Prior Year	FC Var	PY Var	Actual	Budget	Prior Year	Bud Var	PY Var
38	80,989	335,279	571,920	45,710	(190,931)	3,663,457	3,149,308	4,138,513	514,149	(475,056)	3,663,457	2,169,036	4,138,513	1,494,421	(475,056)
19	92,733	672,955	(1,826,095)	(480,222)	2,018,828	294,374	(107,781)	(455,127)	402,155	749,501	294,374	2,150,192	(455,127)	(1,855,818)	749,501
1,24	40,852	(7,468,396)	(2,266,119)	8,709,248	3,506,972	15,513,265	6,483,473	6,545,431	9,029,792	8,967,834	15,513,265	4,780,898	6,545,431	10,732,367	8,967,834
1,81	14,574	(6,460,162)	(3,520,295)	8,274,736	5,334,868	19,471,096	9,525,000	10,228,817	9,946,095	9,242,278	19,471,096	9,100,126	10,228,817	10,370,970	9,242,278
(3	33,944)	2,696,193	575,511	(2,730,137)	(609,455)	3,501,498	5,981,919	760,443	(2,480,422)	2,741,055	3,501,498	46,653	760,443	3,454,845	2,741,055
16	61,035	2,083,215	(597,587)	(1,922,181)	758,622	2,954,363	3,938,128	1,359,980	(983,765)	1,594,383	2,954,363	762,612	1,359,980	2,191,751	1,594,383
(8,51	16,816)	(10,782,108)	(6,366,324)	2,265,292	(2,150,492)	13,810,604	9,404,877	2,841,304	4,405,727	10,969,300	13,810,604	2,671,275	2,841,305	11,139,329	10,969,299
(8,38	89,725)	(6,002,700)	(6,388,401)	(2,387,025)	(2,001,324)	20,266,465	19,324,924	4,961,727	941,540	15,304,737	20,266,465	3,480,540	4,961,728	16,785,925	15,304,737
	2.56	3.75	4.67	(1.19)	(2.10)	2.36	2.29	2.77	0.08	(0.41)	2.36	1.83	2.77	0.53	(0.41)
	11.80	31.82	(6.77)	(20.03)	18.56	9.12	9.57	9.69	(0.45)	(0.58)	9.12	11.69	9.69	(2.58)	(0.58)
	2.45	(2.73)	2.31	5.18	0.13	2.48	2.04	2.22	0.44	0.26	2.48	2.10	2.62	0.37	(0.14)

LEHIGH COUNTY AUTHORITY CONSOLIDATED FINANCIAL STATEMENTS For the Period Ended December 31, 2023

				Consolidated Fina	Financial Statements											
		Mont	h			Year To	Date			Q4 FULL YEAR	FORECAST			Full Year	Budget	
STATEMENTS OF ACTIVITIES	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA
Operating Revenues:																
User Charges	1,323,486	1,743,713	4,553,394	7,620,593	16,491,972	18,265,332	51,815,936	86,573,241	16,660,450	18,962,767	50,661,734	86,284,950	16,287,500	21,822,513	50,680,860	88,790,873
Connection & System Charges	206,776	34,348	310,279	551,404	730,402	1,371,193	4,639,907	6,741,501	702,066	1,764,688	4,426,588	6,893,341	680,700	875,600	4,096,600	5,652,900
Other Miscellaneous Revenues	3,075	60	38,267	41,402	54,989	585	182,595	238,169	(37,319)	2,380	116,207	81,269	31,800	2,300	69,300	103,400
Total Operating Revenues	1,533,337	1,778,121	4,901,941	8,213,400	17,277,363	19,637,111	56,638,437	93,552,911	17,325,198	20,729,834	55,204,529	93,259,561	17,000,000	22,700,413	54,846,760	94,547,173
Operating Expenses:																
Personnel	316.297	145.543	986.671	1.448.511	3,810,995	1.763.260	11,285,910	16.860.164	3,758,691	1.534.506	11.686.498	16.979.695	3.838.376	1.739.145	12.818.583	18.396.104
Shared Services - General & Administrative	53,535	24,639	146,855	225,029	722,146	334,070	2,038,460	3,094,677	664,903	258,466	1,899,435	2,822,804	847,837	353,525	2,197,452	3,398,813
Utilities	52,260	19,041	122,946	194,247	489,997	238,267	1,898,483	2,626,747	438,600	262,692	2,172,623	2,873,915	516,389	312,787	2,018,173	2,847,348
Materials and Supplies	88,402	48,503	432,095	568,999	664,465	391,409	3,218,805	4,274,679	848,395	466,691	3,145,206	4,460,293	887,370	324,100	2,621,000	3,832,470
Miscellaneous Services	331,588	632,754	488,914	1,453,257	3,900,285	6,959,869	2,239,095	13,099,249	4,019,711	7,430,528	2,129,759	13,579,998	4,610,690	7,212,206	2,112,700	13,935,596
Treatment and Transportation	-	275,000 508,303	519,750	275,000 1,286,418	2 002 402	3,903,664 6,170,072	11,307 6,221,961	3,914,971 15,485,436	2 470 721	4,232,139 6,900,739	12,600 6,403,161	4,244,739 16,783,622	3,023,000	4,293,345 6,221,900	14,318 6,160,000	4,307,663 15,404,900
Depreciation and Amortization Major Maintenance Expenses	258,365	(94)	(117,514)	(117,608)	3,093,402	2,611	726,076	728,688	3,479,721	2,683	4,000,000	4,002,683	3,023,000	25,200	4,000,000	4,025,200
Other Miscellaneous	-	-	(117,514)	(117,000)	_	2,011	720,070	720,000	41.534		-	41,534	41.600	25,200	-,000,000	41,600
Total Operating Expenses	1,100,446	1,653,689	2,579,718	5,333,854	12,681,289	19,763,223	27,640,097	60,084,609	13,251,555	21,088,445	31,449,282	65,789,281	13,765,262	20,482,207	31,942,225	66,189,694
	•		•							•						
Net Operating Profit	432,891	124,432	2,322,223	2,879,546	4,596,074	(126,113)	28,998,340	33,468,302	4,073,643	(358,610)	23,755,247	27,470,279	3,234,738	2,218,206	22,904,535	28,357,479
Non-Operating Income (Expense)																
Interest Income	30,616	46,670	342,986	420,272	339,479	454,362	3,466,498	4,260,340	224,041	359,001	1,946,291	2,529,333	64,782	85,128	128,661	278,572
Interest (Expense)	(89,253)	(12,914)	(1,424,042)	(1,526,209)	(1,299,277)	(155,841)	(16,938,519)	(18,393,637)	(1,161,255)	(157,427)	(19,212,865)	(20,531,547)	(1,130,484)	(153,143)	(18,252,298)	(19,535,925)
Other Miscellaneous	6,734	34,544	(314)	40,964	27,180	121,966	(13,054)	136,092	12,880	49,256	(5,200)	56,935	(4.055.700)	- (50.045)	- (40,400,607)	(40.057.050)
Net Non-Operating Income (Expense)	(51,902)	68,301	(1,081,371)	(1,064,972)	(932,618)	420,487	(13,485,075)	(13,997,206)	(924,334)	250,829	(17,271,774)	(17,945,279)	(1,065,702)	(68,015)	(18,123,637)	(19,257,353)
Net Income (Loss)	380,989	192,733	1,240,852	1,814,574	3,663,457	294,374	15,513,265	19,471,096	3,149,308	(107,781)	6,483,473	9,525,000	2,169,036	2,150,192	4,780,898	9,100,126
CASH FLOW STATEMENT																
Cash Flows From Operating Activities																
Operating Revenues	1,533,337	1,778,121	4,901,941	8,213,400	17,277,363	19,637,111	56,638,437	93,552,911	17,325,198	20,729,834	55,204,529	93,259,561	17,000,000	22,700,413	54,846,760	94,547,173
Operating Expenses (ex D&A)	(842,082)	(1,145,480)	(2,177,482)	(4,165,044)	(9,587,887)	(13,590,539)	(20,692,060)	(43,870,486)	(9,771,834)	(14,185,022)	(21,046,121)	(45,002,976)	(10,742,262)	(14,235,107)	(21,782,225)	(46,759,594)
Non-Cash Working Capital Changes	154,939	931,688 1,564,329	(159,172) 2,565,288	927,456 4,975,811	(2,565,223)	(545,925) 5,500,646	(1,309,760)	(4,420,908)	4,447	(7,280) 6,537,533	(341,896)	(344,729) 47,911,856	(0)	(25,200) 8,440,106	22.004.525	(25,200)
Net Cash Provided by (Used in) Operating Activities Cash Flows From Financing Activities	846,195	1,564,329	2,565,288	4,975,811	5,124,253	5,500,646	34,636,617	45,261,517	7,557,811	6,537,533	33,816,511	47,911,856	6,257,738	8,440,106	33,064,535	47,762,379
Capital Contributions	-	_	-	-	_	_	_	-	_	_	_	-	-	_	_	_
Proceeds New Borrowing	-	=	=	-	6,950,000	-	1,371,118	8,321,118	6,950,000	-	1,371,118	8,321,118	3,950,000	-	1,200,000	5,150,000
Interest Payments	(904)	(12,243)	(5,951,378)	(5,964,524)	(1,298,151)	(147,555)	(11,695,732)	(13,141,437)	(1,156,137)	(150,059)	(11,717,006)	(13,023,201)	(1,130,484)	(153,143)	(11,788,844)	(13,072,471)
Principal Payments	(6,339)	(48,569)	(2,201,768)	(2,256,675)	(2,010,541)	(576,341)	(2,222,407)	(4,809,288)	(2,252,950)	(576,248)	(3,352,360)	(6,181,558)	(2,344,383)	(575,980)	(3,342,077)	(6,262,440)
Net Cash Provided by (Used in) Financing Activities	(7,243)	(60,811)	(8,153,145)	(8,221,199)	3,641,309	(723,896)	(12,547,021)	(9,629,608)	3,540,913	(726,306)	(13,698,247)	(10,883,641)	475,133	(729,123)	(13,930,921)	(14,184,911)
Cash Flows from Capital and Related Activities Non-Operating Income (Expenses)	6,734	34,544	(314)	40,964	27,180	121,966	(1,374,234)	(1,225,088)	12,880	49,256	(1,366,380)	(1,304,245)			(1,400,000)	(1,400,000)
Capital Expenditures, net	(910,247)	(1,677,697)	(3,271,630)	(5,859,574)	(5.639.724)	(4,435,889)	(10.371.257)	(20,446,870)	(5.362,726)	(4,063,529)	(11.293.298)	(20,719,552)	(6,751,000)	(7.033.500)	(15.191.000)	(28.975.500)
Net Cash Provided By (Used In) Capital and Related Activities	(903,513)	(1,643,153)	(3,271,944)	(5,818,610)	(5,612,543)	(4,313,924)	(11,745,491)	(21,671,958)	(5,349,846)	(4,014,273)	(12,659,678)	(22,023,797)	(6,751,000)	(7,033,500)	(16,591,000)	(30,375,500)
Cash Flows From Investing Activities				,	, , , ,			, , , ,	, , , ,				, , , ,			, , , ,
Investments Converting To Cash	-	499,000	-	499,000	988,000	6,129,174	-	7,117,174	988,000	5,875,174	-	6,863,174	-	-	-	-
Purchased Invesments	-	(245,000)	-	(245,000)	(979,000)	(4,092,000)	-	(5,071,000)	(979,000)	(4,093,000)	-	(5,072,000)	-	-	-	-
Interest Income Net Cash Provided By (Used In) Investing Activities	30,616 30,616	46,670 300,670	342,986 342,986	420,272 674,272	339,479 348,479	454,362 2,491,536	3,466,498 3,466,498	4,260,340 6,306,514	224,041 233,041	359,001 2,141,175	1,946,291 1,946,291	2,529,333 4,320,507	64,782 64,782	85,128 85,128	128,661 128,661	278,572 278,572
		· ·			•									•		•
FUND NET CASH FLOWS	(33,944)	161,035	(8,516,816)	(8,389,725)	3,501,498	2,954,363	13,810,604	20,266,465	5,981,919	3,938,128	9,404,877	19,324,924	46,653	762,612	2,671,275	3,480,540
DEBT SERVICE RATIO																
Debt Service Ratio (Indenture Based)	4 222 425	4 740 740	4 550 001	7 620 500	46 101 072	40.265.222	E4 045 005	06 572 244	46 660 45-	40.000 707	F0 661 721	06 264 252	46 207 506	24 022 542	F0 660 066	00 700 070
Total Operating Revenues	1,323,486	1,743,713	4,553,394	7,620,593	16,491,972	18,265,332	51,815,936	86,573,241	16,660,450	18,962,767	50,661,734	86,284,950	16,287,500	21,822,513	50,680,860	88,790,873
Total Operating Expenses (Cash Based) Interest Income	(842,082) 30,616	(1,145,386) 46,670	(2,059,968) 342,986	(4,047,435) 420,272	(9,587,887) 339,479	(13,593,151) 454,362	(21,418,136) 3,466,498	(44,599,174) 4,260,340	(9,771,834) 224,041	(14,187,705) 359,001	(21,046,121) 1,946,291	(45,005,659) 2,529,333	(10,742,262) 64,782	(14,260,307) 85,128	(21,782,225) 128,661	(46,784,794) 278,572
Annual Lease Payment (City)		-0,070	(113,865)	(113,865)	333,473		(1,366,380)	(1,366,380)	- 224,041		(1,366,380)	(1,366,380)	04,762	-	(1,400,000)	(1,400,000)
Total Non-Operating Revenues (Expenses)	216,586	68,952	348,233	633,770	812,571	1,493,744	4,809,447	7,115,762	719,161	1,816,323	4,537,595	7,073,079	754,100	877,900	4,165,900	5,797,900
Cash Available For Debt Service	728,606	713,949	3,070,780	4,513,336	8,056,136	6,620,288	37,307,365	51,983,789	7,831,818	6,950,386	34,733,118	49,515,322	6,364,120	8,525,235	31,793,196	46,682,551
		4		4 00				40.00		45		40.05			44 96	40.05- :
Interest Paid	96,345	12,505	976,417	1,085,267	1,156,137	150,059	11,717,006	13,023,201	1,156,137	150,059	11,717,006	13,023,201	1,130,484	153,143	11,788,844	13,072,471
Debt Retirement (Principal Payments) Total Debt Service	187,746 284,091	48,021 60,526	279,363 1,255,780	515,130 1,600,397	2,252,950 3,409,087	576,248 726,306	3,352,360 15,069,365	6,181,558 19,204,759	2,252,950 3,409,087	576,248 726,306	3,352,360 15,069,365	6,181,558 19,204,759	2,344,383 3,474,867	575,980 729,123	3,342,077 15,130,921	6,262,440 19,334,911
I Otal Dent Selvice	204,091	00,320	1,233,700	1,000,397	3,409,067	/20,300	10,000,000	13,204,739	3,409,067	/20,500	10,000,000	13,204,739	3,4/4,00/	123,123	13,130,321	17,334,911
Debt Service Ratio	2.56	11.80	2.45	2.82	2.36	9.12	2.48	2.71	2.30	9.57	2.30	2.58	1.83	11.69	2.10	2.41

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - SUBURBAN WATER For the Period Ended December 31, 2023

							S	uburban - Water		1	Full Year					
			Month					Year To Date					Full Year			
STATEMENTS OF ACTIVITIES Operating Revenues:	Actual	Q4 FC	Prior Year	FC Var	PY Var	Actual	Q4 FC	Prior Year	FC Var	PY Var	Actual	Budget	Prior Year	Bud Var	PY Var	
User Charges	1,323,486	1,864,993	2,199,212	(541,507)	(875,726)	16,491,972	16,660,450	16,317,932	(168,478)	174,041	16,491,972	16,287,500	16,317,932	204,472	174,041	
Connection & System Charges Other Miscellaneous Revenues	206,776 3,075	247,193 (81,352)	95,076 (428,840)	(40,417) 84,427	111,701 431,915	730,402 54,989	702,066 (37,319)	653,032 173,318	28,335 92,308	77,370 (118,329)	730,402 54,989	680,700 31,800	653,032 173,318	49,702 23,189	77,370 (118,329)	
Total Operating Revenues	1,533,337	2,030,834	1,865,447	(497,497)	(332,110)	17,277,363	17,325,198	17,144,282	(47,834)	133,082	17,277,363	17,000,000	17,144,282	277,363	133,082	
Operating Expenses: Personnel	316,297	261,573	(10,684)	(54,723)	(326,981)	3,810,995	3,758,691	3,020,805	(52,303)	(790,190)	3,810,995	3,838,376	3,020,805	27,382	(790,190)	
Shared Services - General & Administrative	53,535	5,897	47,711	(47,638)	(5,824)	722,146	664,903	553,636	(57,243)	(168,510)	722,146	847,837	553,636	125,690	(168,510)	
Utilities	52,260	1,501	24,681	(50,759)	(27,579)	489,997	438,600	481,997	(51,397)	(8,000)	489,997	516,389	481,997	26,392	(8,000)	
Materials and Supplies	88,402	223,496	123,717	135,094	35,315	664,465	848,395	860,080	183,930	195,615	664,465	887,370	860,080	222,905	195,615	
Miscellaneous Services Treatment and Transportation	331,588	387,468	596,897	55,880	265,309	3,900,285	4,019,711	3,664,554	119,426	(235,731)	3,900,285	4,610,690	3,664,554	710,405	(235,731)	
Depreciation and Amortization	258,365	644,685	894,511	386,320	636,146	3,093,402	3,479,721	3,665,828	386,320	572,426	3,093,402	3,023,000	3,665,828	(70,402)	572,426	
Major Maintenance Expenses	-	-	(9,579)	-	(9,579)	-	-	-	-	-		-	-	-	-	
Other Miscellaneous	- 1 100 115	41,534 1.566.153	156,449 1.823.702	41,534 465.706	156,449 723.256	12.681.289	41,534	156,699 12.403.599	41,534 570.266	156,699 (277.690)	12.681.289	41,600	156,699 12.403.599	41,600 1.083.973	156,699 (277.690)	
Total Operating Expenses	1,100,446	1,500,153	1,823,702	465,706	723,256	12,681,289	13,251,555	12,403,599	570,266	(277,690)	12,681,289	13,765,262	12,403,599	1,083,973	(277,690)	
Net Operating Profit	432,891	464,682	41,745	(31,791)	391,146	4,596,074	4,073,643	4,740,683	522,432	(144,609)	4,596,074	3,234,738	4,740,683	1,361,336	(144,609)	
Non-Operating Income (Expense)																
Interest Income	30,616	(42,277)	17,485	72,894	13,132	339,479	224,041	103,451	115,439 (138,023)	236,029	339,479 (1,299,277)	64,782	103,451	274,697 (168,793)	236,029 (452,144)	
Interest (Expense) Other Miscellaneous	(89,253) 6,734	(86,724) (402)	250,466 262,225	(2,529) 7,136	(339,719) (255,490)	(1,299,277) 27,180	(1,161,255) 12,880	(847,133) 141,512	14,301	(452,144) (114,332)	(1,299,277)	(1,130,484)	(847,133) 141,512	27,180	(114,332)	
Net Non-Operating Income (Expense)	(51,902)	(129,403)	530,175	77,501	(582,077)	(932,618)	(924,334)	(602,170)	(8,283)	(330,448)	(932,618)	(1,065,702)	(602,170)	133,084	(330,448)	
Net Income (Loss)	380,989	335,279	571,920	45,710	(190,931)	3,663,457	3,149,308	4,138,513	514,149	(475,056)	3,663,457	2,169,036	4,138,513	1,494,421	(475,056)	
CASH FLOW STATEMENT																
Cash Flows From Operating Activities																
Operating Revenues	1,533,337	2,030,834	1,865,447	(497,497)	(332,110)	17,277,363	17,325,198	17,144,282	(47,834)	133,082	17,277,363	17,000,000	17,144,282	277,363	133,082	
Operating Expenses (ex D&A)	(842,082)	(921,468)	(929,191)	79,387	87,109	(9,587,887)	(9,771,834)	(8,737,771)	183,946	(850,117)	(9,587,887)	(10,742,262)	(8,737,771)	1,154,375	(850,117)	
Non-Cash Working Capital Changes Net Cash Provided by (Used in) Operating Activities	154,939 846,195	2,725,100 3,834,466	2,171,270 3,107,526	(2,570,161) (2,988,271)	(2,016,331) (2,261,331)	(2,565,223) 5,124,253	4,448 7,557,812	675,196 9,081,707	(2,569,671) (2,433,559)	(3,240,419) (3,957,454)	(2,565,223) 5,124,253	(0) 6,257,738	675,196 9,081,707	(2,565,223) (1,133,485)	(3,240,419) (3,957,454)	
Cash Flows From Financing Activities	040,133	3,034,400	3,107,320	(2,500,271)	(2,201,331)	3,124,233	7,337,012	3,001,707	(2,433,333)	(3,337,434)	3,124,233	0,237,730	3,001,707	(1,133,403)	(3,337,434)	
Capital Contributions	-	-	-	-	-	-	-	-	-	=	-	-	-	-	-	
Proceeds New Borrowing Interest Payments	(904)	(941)	(999)	- 37	- 95	6,950,000 (1,298,151)	6,950,000 (1,156,137)	(1,200,136)	(142,014)	6,950,000 (98,015)	6,950,000 (1,298,151)	3,950,000 (1,130,484)	(1,200,136)	3,000,000 (167,667)	6,950,000 (98,015)	
Principal Payments	(6.339)	(7.603)	(6.244)	1,264	(95)	(2.010.541)	(2,252,950)	(1,200,136)	242.410	(85,309)	(2.010.541)	(2,344,383)	(1,200,136)	333.842	(85,309)	
Net Cash Provided by (Used in) Financing Activities	(7,243)	(8,544)	(7,243)	1,302	0	3,641,309	3,540,913	(3,125,367)	100,396	6,766,676	3,641,309	475,133	(3,125,367)	3,166,176	6,766,676	
Cash Flows from Capital and Related Activities	6.704	(400)	0.500	7.406	(4.000)	27.400	42.000	(442.000)		400.070	27.400		(442.000)	27.400	400.070	
Non-Operating Income (Expenses) Capital Expenditures, net	6,734 (910,247)	(402) (1.087.050)	8,622 (2.550,879)	7,136 176,803	(1,888) 1.640.632	27,180 (5.639,724)	12,880 (5.362,726)	(112,090) (5.193,258)	14,301 (276,998)	139,270 (446,466)	27,180 (5.639,724)	(6.751.000)	(112,090) (5.193,258)	27,180 1.111.276	139,270 (446,466)	
Net Cash Provided By (Used In) Capital and Related Activities	(903,513)	(1,087,452)	(2,542,257)	183,940	1,638,745	(5,612,543)	(5,349,846)	(5,305,348)	(262,697)	(307,196)	(5,612,543)	(6,751,000)	(5,305,347)	1,138,457	(307,196)	
Cash Flows From Investing Activities																
Investments Converting To Cash Purchased Invesments	=	-	=	-	-	988,000 (979,000)	988,000 (979,000)	990,000 (984,000)	=	(2,000) 5,000	988,000 (979,000)	=	990,000 (984,000)	988,000 (979,000)	(2,000) 5,000	
Interest Income	30.616	(42,277)	17,485	72,894	13,132	339,479	224,041	103,451	115,439	236,029	339,479	64,782	103,451	274,697	236,029	
Net Cash Provided By (Used In) Investing Activities	30,616	(42,277)	17,485	72,894	13,132	348,479	233,041	109,451	115,439	239,029	348,479	64,782	109,451	283,697	239,029	
FUND NET CASH FLOWS	(33,944)	2,696,193	575,511	(2,730,137)	(609,455)	3,501,498	5,981,919	760,443	(2,480,422)	2,741,055	3,501,498	46,653	760,443	3,454,845	2,741,055	
DEBT SERVICE RATIO																
Debt Service Ratio (Indenture Based)	4 222 425	4.054.000	2 400 242	(544 507)	(075 705)	45 404 070	45 550 450	45 047 000	(450, 470)	474.044	45 404 070	45 207 500	46.047.000	204 472	474.044	
User Charges Operating Expenses (Cash Based)	1,323,486 (842,082)	1,864,993 (921,468)	2,199,212 (929,191)	(541,507) 79,387	(875,726) 87,109	16,491,972 (9,587,887)	16,660,450 (9,771,834)	16,317,932 (8,737,771)	(168,478) 183,946	174,041 (850,117)	16,491,972 (9,587,887)	16,287,500 (10,742,262)	16,317,932 (8,737,771)	204,472 1,154,375	174,041 (850,117)	
Interest Income	30,616	(42,277)	17,485	72,894	13,132	339,479	224,041	103,451	115,439	236,029	339,479	64,782	103,451	274,697	236,029	
Annual Lease Payment (City)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Non-Operating Revenues (Expenses) Cash Available For Debt Service	216,586 728.606	165,439 1,066,687	(71,540) 1,215,965	51,147	288,125 (487,359)	812,571 8,056,136	677,627 7,790,284	967,862 8,651,474	134,944 265.851	(155,291)	812,571 8,056,136	754,100 6,364,120	967,862 8,651,474	58,471 1,692,016	(155,291) (595,338)	
Cash Available FOI Debt Service	/20,000	1,000,067	1,213,903	(336,060)	(407,559)	8,030,136	7,790,264	0,001,474	203,631	(866,686)	6,030,135	0,304,120	0,001,474	1,092,016	(385,538)	
Interest Paid	96,345	96,345	100,011	-	(3,667)	1,156,137	1,156,137	1,200,136	-	(43,999)	1,156,137	1,130,484	1,200,136	25,653	(43,999)	
Debt Retirement (Principal Payments)	187,746	187,746	160,436	-	27,310	2,252,950	2,252,950	1,925,231	-	327,719	2,252,950	2,344,383	1,925,231	(91,433)	327,719	
Total Debt Service	284,091	284,091	260,447	-	23,643	3,409,087	3,409,087	3,125,367	-	283,720	3,409,087	3,474,867	3,125,367	(65,780)	283,720	
Debt Service Ratio	2.56	3.75	4.67	(1.19)	(2.10)	2.36	2.29	2.77	0.08	(0.41)	2.36	1.83	2.77	0.53	(0.41)	

LEHIGH COUNTY AUTHORITY VARIANCE ANALYSIS - YTD

For the Period Ended December 31, 2023

	STATEMENTS	OF ACTIVITIES
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Operating Revenues:

User Charges
Connection & System Charges Other Miscellaneous Revenues
Total Operating Revenues

Operating Expenses: Personnel

Shared Services - General & Administrative

Utilities

Materials and Supplies Miscellaneous Services Treatment and Transportation
Depreciation and Amortization Major Maintenance Expenses Other Miscellaneous

Total Operating Expenses

Net Operating Profit

Non-Operating Income (Expense)

Interest Income Interest (Expense) Other Miscellaneous
Net Non-Operating Income (Expense)

Net Income (Loss)

CASH FLOW STATEMENT Cash Flows From Operating Activities Operating Revenues

Operating Expenses (ex D&A) Non-Cash Working Capital Changes

Net Cash Provided by (Used in) Operating Activities Cash Flows From Financing Activities

Capital Contributions
Proceeds New Borrowing

Interest Payments Principal Payments

Net Cash Provided by (Used in) Financing Activities

Cash Flows from Capital and Related Activities Non-Operating Income (Expenses)

Capital Expenditures, net

Net Cash Provided By (Used In) Capital and Related Activities

Cash Flows From Investing Activities Investments Converting To Cash

Purchased Investments Interest Income

Net Cash Provided By (Used In) Investing Activities

FUND NET CASH FLOWS

			Suburban - Water
Actual	Q4 FC	FC Var	Comments
		/	
16,491,972	16,660,450	(168,478)	
730,402	702,066	28,335	
54,989	(37,319)	92,308	
17,277,363	17,325,198	(47,834)	Lower user charges more than offset by higher system charges and higher miscellaneous
3,810,995	3,758,691	(52,303)	
722,146	664,903	(57,243)	
489,997	438,600	(51,397)	
664,465	848,395	183,930	
3,900,285	4,019,711	119,426	
-	-	,	
3,093,402	3,479,721	386,320	
5,055,102	5,175,721	500,520	
_	41,534	41,534	
12,681,289	13,251,555		Lower material & supplies, lower services, and lower D&A
12,002,203	10,201,000	3.0,200	Editor material a supplies force services, and lotter barr
4,596,074	4,073,643	522.432	Lower operating expenses
, , , ,			
339,479	224,041	115,439	
(1,299,277)	(1,161,255)	(138,023)	
27,180	12,880	14,301	
(932,618)	(924,334)		Higher interest income mostly offset by higher interest expense
(332,018)	(324,334)	(0,203)	inguer interest income mostly onset by maner interest expense
3,663,457	3,149,308	514,149	Higher net income from operations

17,277,363	17,325,198	(47,834)	
(9,587,887)	(9,771,834)	183,946	
(2,565,223)	4,448	(2,569,671)	Unfavorable reduction in Payables balances
5,124,253	7,557,812	(2,433,559)	Unfavorable working capital changes
-	-	-	
6,950,000	6,950,000	-	
(1,298,151)	(1,156,137)	(142,014)	
(2,010,541)	(2,252,950)	242,410	
3,641,309	3,540,913	100,396	Higher interest more than offset by lower principal
27,180	12,880	14,301	
(5,639,724)	(5,362,726)	(276,998)	
(5,612,543)	(5,349,846)	(262,697)	Higher capex
988,000	988,000	-	
(979,000)	(979,000)	-	
339,479	224,041	115,439	
348,479	233,041	115,439	Higher interest income
3,501,498	5,981,919	(2,480,422)	Lower cash from operating activities

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - SUBURBAN WASTEWATER For the Period Ended December 31, 2023

							Sul	burban - Wastewat	ter	Full V						
			Month					Year To Date					Full Year			
STATEMENTS OF ACTIVITIES				==					==				s		B1414	
Operating Revenues:	Actual	Q4 FC	Prior Year	FC Var	PY Var	Actual	Q4 FC	Prior Year	FC Var	PY Var	Actual	Budget	Prior Year	Bud Var	PY Var	
User Charges	1,743,713	2,617,852	1,126,255	(874,139)	617,458	18,265,332	18,962,767	15,021,652	(697,434)	3,243,680	18,265,332	21,822,513	15,021,652	(3,557,181)	3,243,680	
Connection & System Charges	34,348	518,430	(312,957)	(484,082)	347,305	1,371,193	1,764,688	3,319,169	(393,495)	(1,947,976)	1,371,193	875,600	3,319,169	495,593	(1,947,976)	
Other Miscellaneous Revenues	60	6,430	4,430	(6,370)	(4,370)	585	2,380	1,585	(1,795)	(1,000)	585	2,300	1,585	(1.715)	(1,000)	
Total Operating Revenues	1,778,121	3,142,712	817,728	(1,364,591)	960,393	19,637,111	20,729,834	18,342,406	(1,092,724)	1,294,705	19,637,111	22,700,413	18,342,406	(3,063,302)	1,294,705	
		-,,		(-)					(-)//	2,20 1,1 00				(=,===,===,	2,20 1,1 00	
Operating Expenses:																
Personnel	145,543	(40,388)	93	(185,931)	(145,450)	1,763,260	1,534,506	1,245,134	(228,754)	(518,126)	1,763,260	1,739,145	1,245,134	(24,116)	(518,126)	
Shared Services - General & Administrative	24,639	(36,041)	17,348	(60,679)	(7,291)	334,070	258,466	225,034	(75,604)	(109,036)	334,070	353,525	225,034	19,454	(109,036)	
Utilities	19,041	27,290	20,447	8,249	1,406	238,267	262,692	271,866	24,425	33,599	238,267	312,787	271,866	74,520	33,599	
Materials and Supplies	48,503	89,280	75,078	40,777	26,575	391,409	466,691	339,120	75,282	(52,289)	391,409	324,100	339,120	(67,309)	(52,289)	
Miscellaneous Services	632,754	854,950	577,846	222,196	(54,908)	6,959,869	7,430,528	6,503,137	470,660	(456,732)	6,959,869	7,212,206	6,503,137	252,337	(456,732)	
Treatment and Transportation	275,000	335,270	512,819	60,270	237,819	3,903,664	4,232,139	2,846,176	328,475	(1,057,488)	3,903,664	4,293,345	2,846,176	389,681	(1,057,488)	
Depreciation and Amortization	508,303	1,238,970	1,411,990	730,667	903,687	6,170,072	6,900,739	7,090,828	730,667	920,756	6,170,072	6,221,900	7,090,828	51,828	920,756	
Major Maintenance Expenses	(94)	-	(23,830)	94	(23,736)	2,611	2,683	-	72	(2,611)	2,611	25,200	-	22,589	(2,611)	
Other Miscellaneous	-	-	86,525	-	86,525	-	-	86,525		86,525	-	-	86,525	-	86,525	
Total Operating Expenses	1,653,689	2,469,332	2,678,317	815,642	1,024,628	19,763,223	21,088,445	18,607,820	1,325,221	(1,155,403)	19,763,223	20,482,207	18,607,820	718,984	(1,155,403)	
Net Operating Profit	124,432	673.380	(1.860.589)	(548.948)	1.985.021	(126.113)	(358,610)	(265,414)	232.498	139.301	(126,113)	2.218.206	(265,414)	(2.344.319)	139.301	
Net Operating Profit	124,432	0/3,360	(1,000,309)	(340,340)	1,965,021	(120,113)	(336,610)	(205,414)	232,430	139,301	(120,113)	2,210,200	(205,414)	(2,344,319)	159,501	
Non-Operating Income (Expense)																
Interest Income	46,670	14,270	21,824	32,400	24,846	454,362	359,001	130,269	95,361	324,093	454,362	85,128	130,269	369,234	324,093	
Interest (Expense)	(12,914)	(14,249)	(17,300)	1,335	4,386	(155,841)	(157,427)	(185,935)	1,586	30,094	(155,841)	(153,143)	(185,935)	(2,698)	30,094	
Other Miscellaneous	34.544	(447)	29,969	34.991	4,575	121,966	49,256	(134,047)	72.710	256.012	121,966	(155,115)	(134,047)	121.966	256.012	
Net Non-Operating Income (Expense)	68,301	(426)	34,494	68,726	33,807	420,487	250,829	(189,713)	169,657	610,200	420,487	(68,015)	(189,713)	488,501	610,200	
		(,			/	,		(===): ==)		,	,	(00,000)	(===)-==)	,	,	
Net Income (Loss)	192,733	672,955	(1,826,095)	(480,222)	2,018,828	294,374	(107,781)	(455,127)	402,155	749,501	294,374	2,150,192	(455,127)	(1,855,818)	749,501	
					-											
CASH FLOW STATEMENT																
Cash Flows From Operating Activities																
Operating Revenues	1,778,121	3,142,712	817,728	(1,364,591)	960,393	19,637,111	20,729,834	18,342,406	(1,092,724)	1,294,705	19,637,111	22,700,413	18,342,406	(3,063,302)	1,294,705	
Operating Expenses (ex D&A)	(1,145,480)	(1,230,362)	(1,290,156)	84,881	144,676	(13,590,539)	(14,185,022)	(11,516,992)	594,483	(2,073,547)	(13,590,539)	(14,235,107)	(11,516,992)	644,567	(2,073,547)	
Non-Cash Working Capital Changes	931,688	1,470,386	308,532	(538,698)	623,156	(545,925)	(7,280)	315,572	(538,645)	(861,497)	(545,925)	(25,200)	907,512	(520,725)	(1,453,437)	
Net Cash Provided by (Used in) Operating Activities	1,564,329	3,382,736	(163,897)	(1,818,408)	1,728,226	5,500,646	6,537,532	7,140,986	(1,036,886)	(1,640,340)	5,500,646	8,440,106	7,732,926	(2,939,460)	(2,232,280)	
Cash Flows From Financing Activities																
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Interest Payments	(12,243)	(14,134)	(13,039)	1,892	796	(147,555)	(150,059)	(141,271)	2,504	(6,284)	(147,555)	(153,143)	(141,271)	5,588	(6,284)	
Principal Payments	(48,569)	(48,538)	(47,396)	(31)	(1,173)	(576,341)	(576,248)	(562,430)	(93)	(13,911)	(576,341)	(575,980)	(562,430)	(361)	(13,911)	
Net Cash Provided by (Used in) Financing Activities	(60,811)	(62,672)	(60,435)	1,861	(377)	(723,896)	(726,306)	(703,701)	2,411	(20,195)	(723,896)	(729,123)	(703,701)	5,227	(20,195)	
Cash Flows from Capital and Related Activities																
Non-Operating Income (Expenses)	34,544	(447)	29,969	34,991	4,575	121,966	49,256	(134,047)	72,710	256,012	121,966	-	(134,047)	121,966	256,012	
Capital Expenditures, net	(1,677,697)	(1,250,672)	(425,049)	(427,025)	(1,252,648)	(4,435,889)	(4,063,529)	(3,081,527)	(372,360)	(1,354,362)	(4,435,889)	(7,033,500)	(3,673,467)	2,597,611	(762,422)	
Net Cash Provided By (Used In) Capital and Related Activities	(1,643,153)	(1,251,119)	(395,080)	(392,034)	(1,248,073)	(4,313,924)	(4,014,273)	(3,215,573)	(299,650)	(1,098,350)	(4,313,924)	(7,033,500)	(3,807,514)	2,719,576	(506,410)	
Cash Flows From Investing Activities																
Investments Converting To Cash	499,000	494,000	-	5,000	499,000	6,129,174	5,875,174	2,906,000	254,000	3,223,174	6,129,174	-	2,906,000	6,129,174	3,223,174	
Purchased Invesments	(245,000)	(494,000)	=	249,000	(245,000)	(4,092,000)	(4,093,000)	(4,898,000)	1,000	806,000	(4,092,000)	-	(4,898,000)	(4,092,000)	806,000	
Interest Income	46,670	14,270	21,824	32,400	24,846	454,362	359,001	130,269	95,361	324,093	454,362	85,128	130,269	369,234	324,093	
Net Cash Provided By (Used In) Investing Activities	300,670	14,270	21,824	286,400	278,846	2,491,536	2,141,175	(1,861,731)	350,361	4,353,267	2,491,536	85,128	(1,861,731)	2,406,408	4,353,267	
FUND NET CASH FLOWS	161,035	2,083,215	(597,587)	(1,922,181)	758,622	2,954,363	3,938,128	1,359,980	(983,765)	1,594,383	2,954,363	762,612	1,359,980	2,191,751	1,594,383	
FOND NET CASH FLOWS	101,033	2,063,213	(397,367)	(1,922,101)	730,022	2,954,505	3,330,120	1,339,360	(363,763)	1,334,363	2,954,505	702,012	1,339,960	2,191,751	1,534,565	
DEBT SERVICE RATIO																
Debt Service Ratio (Indenture Based)																
	4 742 742	2,617,852	1,126,255	(874,139)	617,458	18,265,332	18,962,767	15,021,652	(697,434)	3,243,680	40.205.222	21,822,513	15,021,652	(3,557,181)	3,243,680	
User Charges	1,743,713			(874,139) 84,975	120,940				594,555		18,265,332					
Operating Expenses (Cash Based) Interest Income	(1,145,386) 46,670	(1,230,362) 14,270	(1,266,326) 21,824	84,975 32,400	24,846	(13,593,151) 454,362	(14,187,705) 359,001	(11,516,992) 130,269	95,361	(2,076,159) 324,093	(13,593,151) 454,362	(14,260,307) 85,128	(11,516,992) 130,269	667,156 369,234	(2,076,159) 324,093	
Annual Lease Payment (City)	40,070	14,270	21,024	32,400	24,040	434,302	339,001	130,209	23,301	324,093	454,502	03,128	130,209	309,234	324,093	
Non-Operating Revenues (Expenses)	68,952	524,413	(278,558)	(455,461)	347,510	1,493,744	1,816,323	3,186,707	(322,579)	(1,692,964)	1,493,744	877.900	3,186,707	615.844	(1,692,964)	
Cash Available For Debt Service	713,949	1,926,174		(1,212,224)	1,110,755			6,821,636	(322,579)	(201,348)		8,525,235	6,821,636		(201,348)	
Casii Available FOF DEDT SERVICE	/13,949	1,920,174	(396,805)	(1,212,224)	1,110,755	6,620,288	6,950,386	0,821,036	(330,099)	(201,348)	6,620,288	8,525,235	0,821,036	(1,904,947)	(201,348)	
Interest Paid	12,296	12,296	11,773		524	147,555	147,555	141,271		6,284	147,555	153,143	141,271	(5,588)	6,284	
Debt Retirement (Principal Payments)	12,296 48.028	12,296 48.028	46.869	-	1.159	576.341	147,555 576.341	562,430	-	13.911	576.341	575,143 575,980	562.430	(5,588)	13.911	
Total Debt Service	60.325	60.325	58.642		1,159	723.896	723.896	703,701		20,195	723.896	729,123	703,701	(5.227)	20,195	
TOTAL DEDICACIONE	00,323	00,323	30,042		1,003	723,030	123,030	703,701		20,133	723,090	123,123	703,701	(3,227)	20,133	
Debt Service Ratio	11.84	31.93	(6.77)	(20.10)	18.60	9.15	9.60	9.69	(0.46)	(0.55)	9.15	11.69	9.69	(2.55)	(0.55)	
223. 32. 1.02	11.04	31.33	(0.77)	(20.10)	10.00	5.13	5.00	3.03	(0.40)	(0.33)	5.13	11.03	3.03	(2.33)	(0.55)	

LEHIGH COUNTY AUTHORITY VARIANCE ANALYSIS - YTD

For the Period Ended December 31, 2023

				Suburban - Wastewater
STATEMENTS OF ACTIVITIES	Actual	Q4 FC	FC Var	Comments
Operating Revenues:				
User Charges	18,265,332	18,962,767	(697,434)	
Connection & System Charges	1,371,193	1,764,688	(393,495)	
Other Miscellaneous Revenues	585	2,380	(1,795)	
Total Operating Revenues	19,637,111	20,729,834	(1,092,724)	Lower user charges along with lower system charges
Operating Expenses:				
Personnel	1,763,260	1,534,506	(228,754)	
Shared Services - General & Administrative	334,070	258,466	(75,604)	
Utilities	238,267	262,692	24,425	
Materials and Supplies	391,409	466,691	75,282	
Miscellaneous Services	6,959,869	7,430,528	470,660	
Treatment and Transportation	3,903,664	4,232,139	328,475	
Depreciation and Amortization	6,170,072	6,900,739	730,667	
Major Maintenance Expenses	2,611	2,683	72	
Other Miscellaneous	-	-	-	
Total Operating Expenses	19,763,223	21,088,445	1,325,221	Lower material & supplies, lower services, lower T&T, lower D&A
Net Operating Profit	(126,113)	(358,610)	232,498	Lower operating expenses more than offset lower operating revenues
Non-Operating Income (Expense)				
Interest Income	454,362	359,001	95,361	
Interest (Expense)	(155,841)	(157,427)	1,586	
Other Miscellaneous	121,966	49,256	72,710	
Net Non-Operating Income (Expense)	420,487	250,829	169,657	Higher interest income
Net Income (Loss)	294,374	(107,781)	402,155	
CASH FLOW STATEMENT				
Cash Flows From Operating Activities				
Operating Revenues	19,637,111	20,729,834	(1,092,724)	
Operating Expenses (ex D&A)	(13,590,539)	(14,185,022)	594,483	
Non-Cash Working Capital Changes	(545,925)	(7,280)		Higher receivable balances partly offset by higher payable balances
Net Cash Provided by (Used in) Operating Activities	5,500,646	6,537,532	(1,036,886)	Lower operating revenues and unfavorable working capital movements
Cash Flows From Financing Activities				
Capital Contributions	-	-	-	
Proceeds New Borrowing	-	-	-	
Interest Payments	(147,555)	(150,059)	2,504	
Principal Payments	(576,341)	(576,248)	(93)	
Net Cash Provided by (Used in) Financing Activities	(723,896)	(726,306)	2,411	
Cash Flows from Capital and Related Activities				
Non-Operating Income (Expenses)	121,966	49,256	72,710	
Capital Expenditures, net	(4,435,889)	(4,063,529)	(372,360)	
Net Cash Provided By (Used In) Capital and Related Activities	(4,313,924)	(4,014,273)	(299,650)	Higher capex
Cash Flows From Investing Activities				
Investments Converting To Cash	6,129,174	5,875,174	254,000	
Purchased Investments	(4,092,000)	(4,093,000)	1,000	
Interest Income	454,362	359,001	95,361	
Net Cash Provided By (Used In) Investing Activities	2,491,536	2,141,175	350,361	Favorable maurity conversions to cash
FUND NET CASH FLOWS	2,954,363	3,938,128	(983,765)	Lower cash from operating activities

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - CITY DIVISION For the Period Ended December 31, 2023

								City Division							
			Month					Year To Date					Full Year		
STATEMENTS OF ACTIVITIES Operating Revenues:	Actual	Q4 FC	Prior Year	FC Var	PY Var	Actual	Q4 FC	Prior Year	FC Var	PY Var	Actual	Budget	Prior Year	Bud Var	PY Var
User Charges	4,553,394	3,235,364	4,513,230	1,318,030	40,164	51,815,936	50,661,734	46,757,244	1,154,202	5,058,692	51,815,936	50,680,860	46,757,244	1,135,076	5,058,692
Connection & System Charges Other Miscellaneous Revenues	310,279 38,267	255,940 27.230	4,273,796 84,334	54,339 11.037	(3,963,516) (46,067)	4,639,907 182,595	4,426,588 116,207	8,334,971 214,662	213,319 66.387	(3,695,064)	4,639,907 182,595	4,096,600 69.300	8,334,971 214,662	543,307 113,295	(3,695,064) (32,067)
Total Operating Revenues	4,901,941	3,518,534	8,871,360	1,383,407	(3,969,419)	56,638,437	55,204,529	55,306,877	1,433,909	1,331,560	56,638,437	54,846,760	55,306,877	1,791,677	1,331,560
Operating Expenses: Personnel	986,671	1.198.403	139.279	211,732	(847,392)	11.285.910	11.686.498	10.317.615	400.588	(968,295)	11,285,910	12.818.583	10,317,615	1.532.673	(968,295)
Shared Services - General & Administrative	146,855	55,330	142,508	(91,525)	(4,347)	2,038,460	1,899,435	1,605,755	(139,025)	(432,705)	2,038,460	2,197,452	1,605,755	158,992	(432,705)
Utilities	122,946 432,095	344,190 480,700	210,030 348,727	221,244 48,605	87,084 (83,368)	1,898,483 3,218,805	2,172,623 3,145,206	1,802,290 2,227,858	274,140 (73,599)	(96,193) (990,948)	1,898,483 3,218,805	2,018,173 2,621,000	1,802,290 2,227,858	119,690 (597,805)	(96,193) (990,948)
Materials and Supplies Miscellaneous Services	488,914	529,907	468,015	40,992	(20,899)	2,239,095	2,129,759	1,807,096	(109,336)	(431,999)	2,239,095	2,112,700	1,807,096	(126,395)	(431,999)
Treatment and Transportation	-	-	-	-	-	11,307	12,600	11,594	1,293	287	11,307	14,318	11,594	3,011	287
Depreciation and Amortization Major Maintenance Expenses	519,750 (117,514)	700,950 3,698,812	738,732 (758,381)	181,200 3,816,326	218,982 (640,868)	6,221,961 726,076	6,403,161 4,000,000	6,492,068	181,200 3,273,924	270,107 (726,076)	6,221,961 726,076	6,160,000 4,000,000	6,492,068 5,708,208	(61,961) 3,273,924	270,107 4,982,131
Other Miscellaneous	(117,514)	3,036,612	5,694,845	3,810,320	5,694,845	-	4,000,000	5,708,208	3,273,324	5,708,208	-	4,000,000	3,708,208	3,273,324	4,302,131
Total Operating Expenses	2,579,718	7,008,291	6,983,754	4,428,573	4,404,036	27,640,097	31,449,282	29,972,483	3,809,184	2,332,386	27,640,097	31,942,225	29,972,483	4,302,128	2,332,386
Net Operating Profit	2,322,223	(3,489,757)	1,887,606	5,811,980	434,617	28,998,340	23,755,247	25,334,393	5,243,093	3,663,946	28,998,340	22,904,535	25,334,393	6,093,805	3,663,946
Non-Operating Income (Expense)															
Interest Income	342,986	(527,115)	211,896	870,101	131,089	3,466,498	1,946,291	914,680	1,520,208	2,551,818	3,466,498	128,661	914,680	3,337,837	2,551,818
Interest (Expense) Other Miscellaneous	(1,424,042)	(3,451,523)	(4,365,622)	2,027,481 (314)	2,941,579 (314)	(16,938,519) (13,054)	(19,212,865) (5,200)	(19,703,643)	2,274,345 (7,854)	2,765,123 (13,054)	(16,938,519) (13,054)	(18,252,298)	(19,703,643)	1,313,778 (13,054)	2,765,123 (13,054)
Net Non-Operating Income (Expense)	(1,081,371)	(3,978,638)	(4,153,725)	2,897,268	3,072,355	(13,485,075)	(17,271,774)	(18,788,962)	3,786,699	5,303,887	(13,485,075)	(18,123,637)	(18,788,962)	4,638,561	5,303,887
Net Income (Loss)	1,240,852	(7,468,396)	(2,266,119)	8,709,248	3,506,972	15,513,265	6,483,473	6,545,431	9,029,792	8,967,834	15,513,265	4,780,898	6,545,431	10,732,367	8,967,834
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	4,901,941	3,518,534	8,871,360	1,383,407	(3,969,419)	56,638,437	55,204,529	55,306,877	1,433,909	1,331,560	56,638,437	54,846,760	55,306,877	1,791,677	1,331,560
Operating Expenses (ex D&A) Non-Cash Working Capital Changes	(2,177,482) (159,172)	(2,608,529) 808,032	(7,003,403) 1,575,029	431,048 (967,204)	4,825,922 (1,734,201)	(20,692,060) (1,309,760)	(21,046,121) (341,896)	(23,480,415) (3,260,559)	354,061 (967,864)	2,788,355 1,950,798	(20,692,060) (1,309,760)	(21,782,225)	(23,480,415) (2,481,565)	1,090,166 (1,309,761)	2,788,355 1,171,805
Net Cash Provided by (Used in) Operating Activities	2,565,288	1,718,037	3,442,986	847,251	(877,698)	34,636,617	33,816,511	28,565,903	820,106	6,070,714	34,636,617	33,064,535	29,344,897	1,572,083	5,291,720
Cash Flows From Financing Activities															
Capital Contributions Proceeds New Borrowing	-	-	-	-	-	1,371,118	1,371,118	-	-	1,371,118	1,371,118	1,200,000	-	- 171,118	1,371,118
Interest Payments	(5,951,378)	(5,974,907)	(5,914,856)	23,529	(36,522)	(11,695,732)	(11,717,006)	(11,670,361)	21,274	(25,371)	(11,695,732)	(11,788,844)	(11,670,361)	93,113	(25,371)
Principal Payments Net Cash Provided by (Used in) Financing Activities	(2,201,768) (8,153,145)	(3,342,077) (9,316,983)	(1,735,649) (7,650,505)	1,140,309 1,163,838	(466,119) (502,640)	(2,222,407) (12,547,021)	(3,352,360)	(1,735,649) (13,406,010)	1,129,953 1,151,227	(486,758) 858,989	(2,222,407) (12,547,021)	(3,342,077) (13,930,921)	(2,514,642) (14,185,003)	1,119,670 1,383,901	292,235 1,637,982
Cash Flows from Capital and Related Activities	(8,153,145)	(9,510,965)	(7,630,303)	1,103,030	(502,640)	(12,547,021)	(15,096,247)	(13,406,010)	1,131,227	636,969	(12,547,021)	(13,930,921)	(14,165,005)	1,363,901	1,037,362
Non-Operating Income (Expenses)	(314)			(314)	(314)	(1,374,234)	(1,366,380)	(1,286,651)	(7,854)	(87,583)	(1,374,234)	(1,400,000)	(1,286,651)	25,766	(87,583)
Capital Expenditures, net Net Cash Provided By (Used In) Capital and Related Activities	(3,271,630) (3,271,944)	(2,656,046) (2,656,046)	(2,370,701) (2,370,701)	(615,584) (615,898)	(900,929) (901,243)	(10,371,257) (11,745,491)	(11,293,298) (12,659,678)	(11,946,618) (13,233,269)	922,041 914,187	1,575,361 1,487,778	(10,371,257) (11,745,491)	(15,191,000) (16,591,000)	(11,946,618) (13,233,269)	4,819,743 4.845.509	1,575,361 1,487,778
Cash Flows From Investing Activities	(5)272)544)	(2)030)040)	(2)575)7527	(015)050)	(302)243)	(11), 13)131)	(12)055)070)	(10)200)200)	32-11207	2)-107)770	(12)7-13)-132)	(10)331)000)	(10)200)200)	4,043,303	2)107)770
Investments Converting To Cash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Purchased Invesments Interest Income	342,986	(527,115)	211,896	870,101	131,089	3,466,498	1,946,291	914,680	1,520,208	2,551,818	3,466,498	128,661	914,680	3,337,837	2,551,818
Net Cash Provided By (Used In) Investing Activities	342,986	(527,115)	211,896	870,101	131,089	3,466,498	1,946,291	914,680	1,520,208	2,551,818	3,466,498	128,661	914,680	3,337,837	2,551,818
FUND NET CASH FLOWS	(8,516,816)	(10,782,108)	(6,366,324)	2,265,292	(2,150,492)	13,810,604	9,404,877	2,841,304	4,405,727	10,969,300	13,810,604	2,671,275	2,841,305	11,139,329	10,969,299
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based) User Charges	4,553,394	3,235,364	4,513,230	1,318,030	40,164	51,815,936	50,661,734	46,757,244	1,154,202	5,058,692	51,815,936	50,680,860	46,757,244	1,135,076	5,058,692
Operating Expenses (Cash Based)	(2,059,968)	(6,307,341)	(6,245,022)	4,247,374	4,185,054	(21,418,136)	(25,046,121)	(23,480,415)	3,627,985	2,062,279	(21,418,136)	(21,782,225)	(17,772,207)	364,089	(3,645,929)
Interest Income	342,986	(527,115)	211,896	870,101	131,089	3,466,498	1,946,291	914,680	1,520,208	2,551,818	3,466,498	128,661	914,680	3,337,837	2,551,818
Annual Lease Payment (City) Non-Operating Revenues (Expenses)	(114,520) 348,233	(114,520) 283,170	(107,221) 4,358,130	65,063	(7,299) (4,009,897)	(1,374,234) 4,809,447	(1,374,234) 4,537,595	(1,286,651) 8,549,633	271,852	(87,583) (3,740,186)	(1,374,234) 4,809,447	(1,400,000) 4,165,900	(1,286,651) 8,549,633	25,766 643,547	(87,583) (3,740,186)
Cash Available For Debt Service	3,070,126	(3,430,442)	2,731,014	6,500,568	339,112	37,299,511	30,725,264	31,454,491	6,574,247	5,845,020	37,299,511	31,793,196	37,162,699	5,506,315	136,812
Interest Paid	974,644	974,644	972,530	_	2,114	11,695,732	11,695,732	11,670,361	_	25,371	11,695,732	11,788,844	11,670,361	(93,113)	25,371
Debt Retirement (Principal Payments)	185,201	185,201	209,554	-	(24,353)	2,222,407	2,222,407	2,514,642	=	(292,235)	2,222,407	3,342,077	2,514,642	(1,119,670)	(292,235)
Total Debt Service	1,159,845	1,159,845	1,182,084	-	(22,239)	13,918,139	13,918,139	14,185,003	-	(266,864)	13,918,139	15,130,921	14,185,003	(1,212,783)	(266,864)
Debt Service Ratio	2.65	(2.96)	2.31	5.60	0.34	2.68	2.21	2.22	0.47	0.46	2.68	2.10	2.62	0.58	0.06

LEHIGH COUNTY AUTHORITY VARIANCE ANALYSIS - YTD For the Period Ended December 31, 2023

STATEMENTS OF ACTIVITIES
Operating Revenues:
User Charges

Connection & System Charges Other Miscellaneous Revenues

Total Operating Revenues

Operating Expenses:

Personnel Shared Services - General & Administrative Utilities

Materials and Supplies Miscellaneous Services Treatment and Transportation Depreciation and Amortization

Major Maintenance Expenses Other Miscellaneous **Total Operating Expenses**

Net Operating Profit

Non-Operating Income (Expense)

Interest Income Interest (Expense) Other Miscellaneous

Net Non-Operating Income (Expense)

Net Income (Loss)

CASH FLOW STATEMENT

Cash Flows From Operating Activities
Operating Revenues Operating Expenses (ex D&A)
Non-Cash Working Capital Changes

Net Cash Provided by (Used in) Operating Activities

Cash Flows From Financing Activities Capital Contributions

Proceeds New Borrowing Interest Payments

Principal Payments Net Cash Provided by (Used in) Financing Activities Cash Flows from Capital and Related Activities Non-Operating Income (Expenses)

Capital Expenditures, net Net Cash Provided By (Used In) Capital and Related Activities Cash Flows From Investing Activities Investments Converting To Cash

Purchased Invesments

Interest Income

Net Cash Provided By (Used In) Investing Activities

FUND NET CASH FLOWS

	City Division							
	Actual	Q4 FC	FC Var	Comments				
	51,815,936	50,661,734	1,154,202					
	4,639,907	4,426,588	213,319					
	182,595	116,207	66,387					
	56,638,437	55,204,529	1,433,909	Higher revenues across the board				
	11,285,910	11,686,498	400,588					
	2,038,460	1,899,435	(139,025)					
	1,898,483	2,172,623	274,140					
	3,218,805	3,145,206	(73,599)					
	2,239,095	2,129,759	(109,336)					
	11,307	12,600	1,293					
	6,221,961	6,403,161	181,200					
	726,076	4,000,000	3,273,924					
	· -	· · · ·						
	27,640,097	31,449,282	3,809,184	Lower operating expenses driven mostly by lower major maintenance				
	28,998,340	23,755,247	5,243,093	Higher operating revenues along with lower operating expenses				
	3,466,498	1,946,291	1,520,208					
	(16,938,519)	(19,212,865)	2,274,345					
	(13,054)	(5,200)	(7,854)					
	(13,485,075)	(17,271,774)	3,786,699	Higher interest income along with lower interest expense				
I	15,513,265	6,483,473	9,029,792	Higher net operating income aided by favorable financial activity				

56,638,437	55,204,529	1,433,909	
(20,692,060)	(21,046,121)	354,061	
(1,309,760)	(341,896)	(967,864)	
			Higher operating revenues and lower operating expenses partially offset by unfavorable working
34,636,617	33,816,511	820,106	capital movements
-	-	-	
1,371,118	1,371,118	-	
(11,695,732)	(11,717,006)	21,274	
(2,222,407)	(3,352,360)	1,129,953	
(12,547,021)	(13,698,247)	1,151,227	Lower debt service payments
(1,374,234)	(1,366,380)	(7,854)	
(10,371,257)	(11,293,298)	922,041	
(11,745,491)	(12,659,678)	914,187	Lower capex
-	-	-	
-	-	-	
3,466,498	1,946,291	1,520,208	
3,466,498	1,946,291	1,520,208	Higher interest income
			Higher cash provided by operating activities, lower debt service, lower capex, and higher interest
13,810,604	9,404,877	4,405,727	income
	(20,692,060) (1,309,760) 34,636,617 1,371,118 (11,695,732) (2,222,407) (12,547,021) (1,374,234) (10,371,257) (11,745,491) 3,466,498 3,466,498	(20,692,060) (21,046,121) (1,309,760) (341,896) 34,636,617 33,816,511	(20,692,060) (21,046,121) 354,061 (1,309,760) (341,896) (967,864) 34,636,617 33,816,511 820,106

LEHIGH COUNTY AUTHORITY CASH & INVESTMENT SUMMARY For the Period Ended December 31, 2023

Cash	
Operating	
Unrestricted	
Restricted	
Total Operating	
Capital	
Unrestricted	
Restricted	
Total Capital	
Other Restricted	
Debt Reserves	
Escrow - Developer Deposits	
Total Other Restricted	
Total Cash	
Investments	
Operating	
Unrestricted	
Restricted	
Total Operating	
Capital	
Unrestricted	
Restricted	
Total Capital	
Other Restricted	
Debt Reserves	
Escrow	
Total Other Restricted	
Total Investments	
Total Cash and Investments	
Summary	
Cash	
Unrestricted	
Restricted	
Total Cash	
Investments	
Unrestricted	
Restricted	
Total Investments	

Total Cash and Investments

Suburban							
42/24/2022	2023	2023	2022				
12/31/2023							
Actual	Forecast	Budget	Actual				
1.444.028	11.189.014	7.075.935	5.207.096				
1,444,020	11,105,014	7,073,333	3,207,030				
1,444,028	11,189,014	7,075,935	5,207,096				
		.,,	-,,				
7,334,475	321,054	319,718	321,054				
-	-	-	_				
7,334,475	321,054	319,718	321,054				
4 660 04-		4 640 56-	4 656				
1,660,215	1,656,568	1,648,569	1,656,568				
466,386	218,888 1,875,456	295,372	218,888 1,875,456				
2,126,600	1,6/0,400	1,943,942	1,6/5,450				
10.905.104	13,385,525	9.339.595	7,403,606				
10,505,101	10,000,020	3,333,333	,,,,,,,,,,				
1,956,306	1,944,885	1,975,123	1,944,885				
-	-	-	-				
1,956,306	1,944,885	1,975,123	1,944,885				
1,066,824	1,000,184	1,000,000	1,000,184				
4.000.004	1 000 104	4 000 000	4 000 404				
1,066,824	1,000,184	1,000,000	1,000,184				
_	_	_	_				
_	_	_	_				
-	-	-	-				
3,023,129	2,945,069	2,975,123	2,945,069				
13,928,233	16,330,594	12,314,718	10,348,675				
0.770.500	44 540 063	7 205 652	E 520 450				
8,778,503	11,510,069	7,395,653	5,528,150				
2,126,600	1,875,456	1,943,942	1,875,456				
10,905,104	13,385,525	9,339,595	7,403,606				
3,023,129	2,945,069	2,975,123	2,945,069				
-	-	2,373,123	2,545,005				
3,023,129	2,945,069	2,975,123	2,945,069				
13,928,233	16,330,594	12,314,718	10,348,675				

Suburban Wastewater						
12/31/2023	2023	2023	2022			
Actual	Forecast	Budget	Actual			
4 575 422	44 704 205	4.054.450	000 45 4			
1,575,133	11,701,305	4,964,460	900,454			
1,575,133	11,701,305	4,964,460	900,454			
9,083,022	-	5,955,385	6,862,722			
341,385	338,677	338,360	338,677			
9,424,406	338,677	6,293,745	7,201,399			
-	-	-	-			
56,678	-	-	-			
56,678	-	-	-			
11,056,216	12,039,982	11,258,205	8,101,853			
	, ,	, ,				
6,965,467	7,084,624	6,977,548	8,866,269			
-	=	-	-			
6,965,467	7,084,624	6,977,548	8,866,269			
-	-	-	-			
-	-	-	-			
-	-	-				
-	-	-	-			
6,965,467	7,084,624	6,977,548	8,866,269			
0,505,407			3,500,203			
18,021,683	19,124,606	18,235,753	16,968,122			
10,658,154	11,701,305	10,919,845	7,763,176			
398,062	338,677	338,360	338,677			
11,056,216	12,039,982	11,258,205	8,101,853			
6,965,467	7,084,624	6,977,548	8,866,269			
6,965,467	7,084,624	6,977,548	8,866,269			
18,021,683	19,124,606	18,235,753	16,968,122			

City Division						
12/31/2023	2023	2023	2022			
Actual	Forecast	Budget	Actual			
46 440 220	24 256 507	22.660.027	0.602.022			
16,410,229	21,356,587	23,660,027	8,682,833			
33,090,655 49,500,885	25,407,622 46,764,209	18,916,156 42,576,183	25,418,086 34,100,919			
43,300,883	40,704,203	42,370,183	34,100,515			
78,906	78,906	3.022.601	3,347,783			
7,531,026	7,531,026	7,500,035	7,520,562			
7,609,932	7,609,932	10,522,636	10,868,345			
.,,	.,,,,,,,,,,,					
30,004,516	28,335,482	28,976,677	28,335,482			
32,106	32,090		32,090			
30,036,622	28,367,571	28,976,677	28,367,571			
87,147,439	82,741,712	82,075,496	73,336,835			
-	-	-	-			
-	-					
-	-	-	-			
-	-	-	-			
-	-	-	-			
-	-	-	-			
-	-	-	-			
-	-	-	-			
-	-	-	-			
-	-	-	-			
87,147,439	82,741,712	82,075,496	73,336,835			
87,147,433	82,741,712	82,073,430	73,330,633			
16,489,135	21,435,493	26,682,628	12,030,616			
70,658,304	61,306,220	55,392,868	61,306,220			
87,147,439	82,741,712	82,075,496	73,336,835			
-	-	-	-			
-	-	=	-			
-	-	-	-			
87,147,439	02 741 712	92.075.407	72 226 025			
	82,741,712	82,075,496	73,336,835			

		Tot	al	
	12/31/2023	2023	2023	2022
	Actual	Forecast	Budget	Actual
	19,137,741	44,246,906	35,700,423	14,790,3
_	33,090,655	25,407,622	18,916,156	25,418,0
	52,228,396	69,654,528	54,616,578	40,208,4
	16,496,403	399,960	9,297,704	10,531,5
	7,872,411	7,869,703	7,838,396	7,859,2
	24,368,814	8,269,663	17,136,099	18,390,7
	21,500,021	0,203,003	17,130,033	10,550,7
	31,664,731	29,992,050	30,625,246	29,992,0
	555,169	250,978	295,372	250,9
	32,219,900	30,243,027	30,920,619	30,243,0
	108,817,110	108,167,219	102,673,296	88,842,2
	8,921,772	9,029,509	8,952,671	10,811,1
	8,921,772	9,029,509	8,952,671	10,811,1
	1,066,824	1,000,184	1,000,000	1,000,1
	1,066,824	1,000,184	1,000,000	1,000,1
	-	-	=	-
	-	-		
	9,988,596	10,029,693	9,952,671	11,811,3
	118,805,706	118,196,912	112,625,967	100,653,6
	35,634,144	44,646,866	44,998,126	25,321,9
	73,182,966	63,520,352	57,675,170	63,520,3
	108,817,110	108,167,219	102,673,296	88,842,2
	9,988,596	10,029,693	9,952,671	11,811,3
	9,988,596	10,029,693	9,952,671	11,811,3
	118,805,706	118,196,912	112,625,967	100,653,6

CERTIFICATES OF DEPOSIT

December 2023

Fund	Bank	Location	Gross Amount	Date of Purchase	Date Due	Net Rate %
LLRI CR	Centris FCU	Omaha, NE	245,000.00	12/19/23	12/19/25	5.00

DEVELOPMENT ACTIVITY

Water system construction is occurring in the following developments:

8323/8449 Congdon Hill Drive, 2 industrial lots with warehouses, LMT

Chick-Fil-A Building redesign exsisting water line staying

Estates at Maple Ridge, Water main extension-UMilT

Fields at Indian Creek, Phases 4 & 5, 86 residential units (sfd), water and sewer, UMiIT & Emmaus

Kohler Tract, 123 residential lots (sfa), water and sewer, UMilT

Laurel Fields Phase 5 25 townhouses (sfd) UMT

Lehigh Hills, Lot 5 Phase 2, 240 residential units (sfd.), UMT

Lehigh Hills Townhouses, 24 townhouse units (sfa), UMT

Madison Village at Penn's View, 66 manufactured homes, 1 lot, water and sewer, LynnT

Mosser Road 10 Townhouses, UMT

Mountain View Estates, 27 residential units (sfd), LMT

Parkland Crossings Main Extension 144 Town homes UMT

Raising Canes 1 commercial lot LMT water

Sauerkraut Lane Extension, Roadway & water line extension, LMT

Spring Creek Properties, Lot 12, 1 lot, warehouse, LMT

Towneplace Suites by Marriott, 91-room hotel, UMT

Trexler Point (Towns at Schaefer Run) 128 Townhouses UMT

Trexler Center Unit 5-Wawa water,-LMT

Wrenfield Townhouses 98 Townhomes UMT

7991 Quarry Road 1 lot, Warehouse, LMT

Water system plans are being reviewed for the following developments:

2024 Elbow lane single home,LMT

2619 Grove Street Sewer Main Extension, Washington Township

3400 Brookside Road, Indian Creek- 26 Single family homes-Main extension, LMT

3952 Independence Drive, NW

4002 Chestnut Street water main extension, Umilford

4054 Chestnut Street Single connection, Umilford

Valley at Indian Creek 3510 Macungie Road 22 Single family homes-LMT

5329-5347-5357 Hamilton Blvd., 1 commercial lot, LMT

Advanced Health Care of Allentown, 1 commercial lot, LMT

Air Products & Chemicals-Cetronia Road, 1 commercial lot, UMT

ATAS International, 1 industrial lot, UMT

Bandit Truck Stop Sewer Main Extension, WT

Carriage East Residential Development, 11 residential units, (sfd), UMT

Fallbrooke Residential Subdivision, 90 sf residential units, UMT

Fields at Emmaus 78 Town Homes, UMT

Glenlivet Drive West Main extension and subdivision

Grant Street Townes, 18 Townhouse, WT

Grant Way Building Expansion, UMT

Heidelberg Heights 10 Townhouses water ext on lot septic, HH

Hidden Meadows - Phase 3, 20 townhouse units, UMT

Krocks Road Mixed use development

Lehigh Valley Town Center, Mixed use development, UMT

Madison Village at Penn's View, 66 manufactured homes, 1 lot, water and sewer, LynnT

Mertztown Residential Subdivision, 264 sf units & 136 townhouse units, LMT

Schoeneck Road, Lot 1, 1 lot, warehouse, LMT

Spring Creek Estates 2022 LMT 2 lots, 2 6 unit Apt, 8 single family homes, water

Spring Creek Lot 12 1 Commercial Lot,LMT

The Annex at Fields at Indian Creek, 22 sf residential units, Emmaus Borough

Towns At Schaefer Run, 128 townhouse unit (sfa), UMT

Trexlertown Retail Center-UMT gas station, carwash

Twin Ponds 8739 Hamilton Blvd 22 Apts and 1 Daycare UMT

Upper Macungie Community Center UMT commercial lot, water and Main Extension

Woodmont Valley 2, 129 apartment units (former Allen Organ Co.) LMT-New

V Parkland 9230 Long Lane, 16 Single family homes, UMT.

Lehigh County Authority

System Operations Review - January 2024

Presented: February 26, 2024

		<u>Jan-24</u>	<u>2024</u> <u>Totals***</u>	2023 Totals	2022 Totals
Recordable Safety Incidents*	Total LCA	0	0	33	7
Non-Recordable Safety Incidents	Total LCA	2	2		
	Injuries	0	0		
Incident Types **	Property Damage	2	2		
	Near Miss	0	0		

***Numbers adjusted to match current tracking methodology

* Recordable Safety Incidents are those that result in death, days away from work, restricted duty, medical treatment beyond first aid.

** Safety incidents may be categorized in more than one incident type.

Year To Date Safety Incidents	Root Cause Analysis Completed	Corrective Actions Indentified	Corrective Actions Completed	
Curro	nt Month Inci	1	1	1
curre	nt Month Inci	uents I	T	
<u>Description</u>	<u>Date</u>	Type	Root Cause(s)	Corrective Action(s)
<pre>Incident # 65 - Employee drug a trailer over 500 yards with trailer brakes locked</pre>	1/2/2024	Vehicle Incident	Failed Pretrip Inspection	Reinforcement of pretrip inspections for all of FS
<pre>Incident # 66 - drive shaft and yoke broke during travel</pre>	1/25/2024		Mechanical Failure	

Lehigh County Authority

System Operations Review - January 2024

Presented: February 26, 2024

Page 2

(4) @ \$933,077.1

Critical Activities Jan-24 2024 Totals 2023 Totals Permit System Description Daily Avg (MGD) Daily Avg (MGD) Daily Avg (MGD) Daily Max (MGD) Water Production Allentown Total 21.07 21.07 22.52 39.0 9.0 Schantz Spring 6.47 6.47 6.93 3.87 3.89 4.0 Crystal Spring 3.87 Little Lehigh Creek 10.69 10.69 30.0 11.66 Lehigh River 0.04 0.04 0.04 28.0 19.04 MGD Avg Central Lehigh 10.30 Total 10.30 11.27 7.0 MGD Avg Feed from Allentown 5.87 5.87 7.28 10.5 MGD Max Well Production (CLD) 8.54 MGD Avg 4.43 4.43 3.98 1.71 Sum of all Sum of all (12) other 0.14 0.14 0.13 Suburban Water Systems wells Wastewater Treatment Kline's Island 40.77 40.77 32.24 40.0 5.75 (design Pretreatment Plant 5.27 5.27 4.78 capacity) Sum of all (5) other 0.30 0.30 0.19 0.36 Suburban WW Systems Jan-24 2024 Totals 2023 Totals 2022 Totals Precipitation Totals (inches) 6.32 6.32 46.38 46.47 Compliance Reports Submitted 28 28 280 277 to Allentown Notices of Violation (NOVs) (Allentown + Suburban) 4 (Allentown + Suburban) 9 Sanitary Sewer Overflows (SSOs)/Bypasses 9 24 Main Breaks Repaired Allentown 8 8 34 Suburban 2 2 12 15 Customer Service Phone Inquiries (Allentown + Suburban) 1242 1242 11,221 10,539 Water Shutoffs for Non-Payment (Allentown + Suburban) 164 164 1,995 1,975 (Allentown + Suburban) 0 0 19 7 Injury Accidents Emergency Declarations Allentown 0 0 2 3) @ \$386,225.43

<u>Significant Repairs/Upgrades</u>:

N/A

Suburban

0

0

0

Description of Non-Compliance Events:

The Lehigh Valley recorded ~ 6.32 " of rain in January. Due to the significant amount of rainfall and rising ground water levels, LCA's wastewater systems experienced numerous compliance issues. A summary of the non-compliance events is included with this report.

Notice of Violation (NOV) was received from PA DEP for the Arcadia West WWTP. The NOV and response letter are included in this report.

Other:

Lehigh County Authority

System Operations Review - January 2024

Presented: February 26, 2024

					Page 3
Critical Activities	<u>System</u>	<u>Description</u>	Jan-24	2024 Totals	2023 Totals
	Allentown	Bypass	1	1	4
		Bypass Volume	1,585,280	1,585,280	1,589,466
		Permit Exceedances	0	0	0
		Sanitary Sewer Overflows	2	2	6
		COA Issued NOVs	0	0	1
		Regulatory Agency issued NOVs	0	0	0
	Arcadia	Bypass	0	0	0
		Bypass Volume	0	0	0
		Permit Exceedances	0	0	3
		Sanitary Sewer Overflows	0	0	0
		Novs	1	1	0
	Heidelberg Heights	Bypass	2	2	8
		Bypass Volume	1,043,800	1,043,800	1,872,796
		Permit Exceedances	3	3	14
		Sanitary Sewer Overflows	0	0	0
Wastewater Compliance		NOVs	0	0	0
	Lynn	Bypass	1	1	1
	-	Bypass Volume	695,000	695,000	350,000
		Permit Exceedances	2	2	1
		Sanitary Sewer Overflows	0	0	0
		Novs	0	0	0
	Sand Spring	Bypass	0	0	0
		Bypass Volume	0	0	0
		Permit Exceedances	3	3	39
		Sanitary Sewer Overflows	0	0	1
		NOVs	0	0	0
	Wynnewood	Bypass	0	0	0
		Bypass Volume	0	0	0
		Permit Exceedances	0	0	5
		Sanitary Sewer Overflows	3	3	3
		NOVs	0	0	0
	Allentown	Boil Water Advisories	0	0	2
Water Compliance	Central Lehigh	Boil Water Advisories	0	0	1
	Suburban Water Systems	Boil Water Advisories	0	0	3

Page 3

1053 SPRUCE RD * P.O. BOX 3348 * ALLENTOWN, PA 18106-0348 610-398-2503 * Email: service@lehighcountyauthority.org www.lehighcountyauthority.org

MEMORANDUM

Date: February 19, 2024

To: LCA Board of Directors

From: Andrew Moore, Director of Plant Operations

Description of Non-Compliance Events – December 2023:

Description of Non-Computance Events – December 2025:							
System	Discharge	Start Date	End Date	Reason	Volume		
	Type						
Kline's Island	Bypass	1/9/24	1/10/24	Wet Weather	1,585,280 gallons		
		19:50	04:38				
Kline's Island	SSO	1/9/24	Unknown	Wet Weather	150 gpm		
- U4_1		22:30			0.1		
Kline's Island	SSO	1/9/24	Unknown	Wet Weather	45 gpm		
- R_1_2		21:00					
Lynn	Bypass	1/9/24	1/14/24	Wet Weather	695,000 gallons		
Township		21:40	21:40				
Heidelberg	Bypass	1/9/24	1/16/24	Wet Weather	866,000 gallons		
Heights		20:40	20:40				
Heidelberg	Bypass	1/28/24	1/30/24	Wet Weather	177,800 gallons		
Heights		13:00	13:00		•		
Wynnewood –	SSO	1/10/24	1/10/24	Wet Weather	1,500 gallons		
Lift Station		08:15	12:30		_		
Wynnewood –	SSO	1/10/24	1/10/24	Wet Weather	2,400 gallons		
SBR Tank		08:20	12:30		_		
Wynnewood –	SSO	Unknown	1/22/24	Failed float	500 gallons		
Amanda PS			12:00		-		



January 22, 2024

NOTICE OF VIOLATION

Delivered via email

Lehigh County Authority P.O. Box 3348 1053 Spruce Street Allentown, PA 18106

Attention: Andrew Moore, Compliance Manager

Re: Sewage

Arcadia West Industrial Park WWTP NPDES Permit No. PA0064149 Weisenberg Township, Lehigh County

Dear Andrew Moore:

The rules and regulations of the Department of Environmental Protection ("Department"), 25 Pa. Code Section 92a.75a, state that "A permittee who wishes to continue to discharge after the expiration date of their NPDES Permit shall submit an application for reissuance of the permit at least 180 days prior to the expiration of the permit unless permission has been granted for a later date by the Department." This requirement is also specified in Paragraph 3 on Page 1 of your permit.

To have met the 180-day requirement, the Department must have received your NPDES renewal application on or before December 3, 2023 in order to have administratively extended said permit. According to Department files, your NPDES renewal application was received on December 18, 2023. Since Lehigh County Authority failed to meet the 180-day requirement described above, the Department is precluded from administratively extending said permit and, on May 31, 2024, NPDES Permit No. PA0064149 will expire unless previously acted upon by the Department.

A review of Lehigh County Authority's monthly Discharge Monitoring Reports ("DMRs") for the Arcadia West Industrial Park WWTP has indicated a pattern of effluent violations with respect to the limitations set forth in NPDES Permit No. PA0064149. Specifically, the violations are as follows:

Monitoring Period	Parameter	Permit Limit	Reported Value
January to December 2021	Phosphorus Annual Mass load	36.5 lbs/year	44.0 lbs/year
May 2022	Fecal Coliform Instantaneous Maximum	1,000/100 ml	>2,420/100 ml
May 2022	Fecal Coliform Geometric Mean	200/100 ml	>49/100 ml
June 2022	Fecal Coliform Instantaneous Maximum	1,000/100 ml	2,420/100 ml
August 2022	Fecal Coliform Instantaneous Maximum	1,000/100 ml	>2,420/100 ml
August 2022	Fecal Coliform Geometric Mean	200/100 ml	>146/100 ml
January to December 2022	Phosphorus Annual Mass load	36.5 lbs/year	92.0 lbs/year
August 2023	Fecal Coliform Instantaneous Maximum	1,000/100 ml	>2,420/100 ml
August 2023	Fecal Coliform Geometric Mean	200/100 ml	>49/100 ml

The Department sent Lehigh County Authority a previous Notice of Violation on July 8, 2021 for similar violations.

Please be advised that failure to comply with the terms and conditions of your NPDES Permit is a violation of said Permit and the Clean Streams Law of Pennsylvania, Act of June 22, 1937, P.L. 1987, as amended, 35 P.S. Section 691.1 et seq. ("The Clean Streams Law") and subjects Lehigh County Authority to appropriate enforcement action including, but not limited to, civil penalty assessment.

The Department requests that Lehigh County Authority respond in writing to this Notice within 15 days of its receipt. Said response should indicate the cause of the above-described non-compliance and the steps that will be or have been taken, in order to ensure future compliance.

Please confirm receipt of this Notice by sending an email to scconfer@pa.gov.

This Notice of Violation is neither an order nor any other final action of the Department. It neither imposes nor waives any enforcement action available to the Department under any of its statutes. If the Department determines that an enforcement action is appropriate, you will be notified of the action.

If you have any questions concerning this correspondence, please contact me at 610.861.2135.

Sincerely,

Scott T. Confer Scott T. Confer Water Quality Specialist Clean Water Program

cc: Weisenberg Township



1053 SPRUCE ROAD * P.O. BOX 3348 * ALLENTOWN, PA 18106-0348 610-398-2503 * FAX 610-398-8413 * www.lehighcountyauthority.org email: AndrewMoore@lehighcountyauthority.org

February 2, 2024

Mr. Scott Confer Water Quality Specialist Pennsylvania Department of Environmental Protection Bethlehem District Office 4530 Bath Pike Bethlehem, PA 18017-9044

Re:

Arcadia West Industrial Park WWTP Notice of Violation

NPDES Permit No. PA0064149 Weisenberg Township, Lehigh County

Dear Mr. Confer:

The Lehigh County Authority (LCA) is in receipt of the Notice of Violation electronically delivered on January 22, 2024. The following is the required response to violations outlined in the letter which occurred between January 2021 and August 2023.

Plant Background

The Arcadia West WWTP is a dual basin 40,000 gallon per day Sequencing Batch Reactor activated sludge facility serving the Arcadia West Industrial Park in Lehigh County, PA. The flow discharged to this facility is mainly comprised of commercial customers and an elementary school. Due to the nature of their effluent discharges, the Arcadia West WWTP's influent can be highly variable in both hydraulic and organic loadings. The variable loadings can make operation more challenging than a facility solely treating residential waste, or with higher and more consistent flows and loads.

NPDES Permit Application

LCA is aware of the requirement that a NPDES permit application must be submitted within 180 days prior to the permit expiration date. The Arcadia West application was submitted approximately 2 weeks late due to an issue with the laboratory reporting required for the application. LCA will be mindful of application deadlines in the future and will ensure laboratory results are received with ample time for application submittal.

LCA received a letter on January 22, 2024, which was dated December 27, 2023, administratively extending NPDES permit PA0064149 in the event the Department of Environmental Protection cannot reissue the permit prior to the expiration date. It is LCA's understanding that no further action is required.

Fecal Coliform

Seven fecal coliform exceedances were recorded between May 2022 and August 2023. The facility currently uses a Enaqua M4-T8M ultraviolet (UV) system for disinfection before discharge to an unnamed tributary to Mill Creek. Replacement parts for the UV have been increasingly difficult to procure and has caused the system to malfunction at times. LCA has identified the UV system as a critical component that needs to be replaced. LCA placed an order for a like kind replacement in mid-January and is expected to receive it in March 2024. Once installed, additional fecal coliform exceedances are not expected to occur.

Phosphorus

The Arcadia West WWTP has an abnormally high and inconsistent influent phosphorus loading. This has caused issues for the operators in finding a reliable aluminum sulfate dosage which is not also overfeeding chemical. LCA will work with our chemical supplier to evaluate our current use of aluminum sulfate and fine tune our dosage. LCA has recently onboarded a new compliance technician, which will be utilized to better monitor and control chemical feeds throughout our Suburban wastewater plants.

Lehigh County Authority is committed to our regulatory responsibilities, and we always strive for full compliance. If you have any questions, please do not hesitate to call me at 610-437-7681.

Sincerely,

Andrew Moore

Director of Plant Operations

cc: Liesel Gross, LCA