LCA Main Office:

1053 Spruce Road Wescosville, PA 18106 610-398-2503 **Agendas & Minutes Posted:**

www.lehighcountyauthority.org

Published: August 19, 2019

BOARD MEETING AGENDA – August 26, 2019

- 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
- 3. Approval of Minutes
 - August 12, 2019 Board meeting minutes
- 4. Public Comments
- 5. Action / Discussion Items:

FINANCE AND ADMINISTRATION

WATER

- Suburban Division Buss Acres Pump Station Replacement Construction (Approval) (salmon)
- Suburban Division CLD Auxiliary Pumping Station and Water Main Extension Project Construction Change Order (Approval) (blue)

WASTEWATER

- Suburban Division Sand Spring WWTP Upgrade Project Construction (Approval) (yellow)
- Western Lehigh Service Area Sewer Capacity Exploration (Presentation & discussion only)
- Allentown Division Wastewater Treatment Plant Max Month Capacity Evaluation (white)
- 6. Monthly Project Updates / Information Items (1st Board meeting per month)
- 7. Monthly Financial Review (2nd Board meeting per month) July report attached
- 8. Monthly System Operations Overview (2nd Board meeting per month) July report attached
- 9. Staff Comments
- 10. Solicitor's Comments
- 11. Public Comments / Other Comments
- 12. Executive Sessions
- 13. Adjournment

UPCOMING BOARD MEETINGS

Meetings begin at Noon at LCA's Main Office, unless noted otherwise below.

September 9, 2019 September 23, 2019 October 7, 2019

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 August 12, 2019

The Regular Meeting of the Lehigh County Authority Board of Directors was called to order at 12:00 p.m. on Monday, August 12, 2019, Chairman Brian Nagle presiding. Other Members present at the commencement of the meeting were: Linda Rosenfeld, Jeff Morgan, Richard Bohner, Norma Cusick, and Amir Famili. Authority Staff present were Liesel Gross, Brad Landon, Ed Klein, Pat Mandes, John Parsons, Chris Moughan, Susan Sampson, Todd Marion, Phil DePoe and Lisa Miller.

Chairman Nagle announced that today's Board meeting is being videotaped and streaming live and recordings will be posted to the Authority's website.

REVIEW OF AGENDA

Liesel Gross stated there are no changes to the agenda and there will be an Executive Session at the end of the regular meeting to discuss matters of potential litigation.

Scott Bieber arrived at 12:01 p.m.

Chairman Nagle announced that the Board received their packet in the mail prior to the meeting.

APPROVAL OF MINUTES

July 22, 2019 Regular Meeting Minutes

Richard Bohner requested that *Board of Directors* be added after *Lehigh County Authority* in the initial paragraph of the Minutes. On a motion by Richard Bohner, seconded by Norma Cusick, the Board approved the minutes of the July 22, 2019 meeting as corrected (7-0).

PUBLIC COMMENTS

None.

ACTION AND DISCUSSION ITEMS

Budget Amendment Request - Allentown Division: Water Main Cycle 4

Ed Klein explained the budget amendment request is due to an overrun in the capital budget of \$524,885.00 due to the timing of the project. The project was budgeted for start and completion in 2018 but needed to be rebid due to the reduction in the scope which caused a two-month delay to the start of the project.

On a motion by Jeff Morgan, seconded by Linda Rosenfeld, the Board approved the Budget Amendment request for the Allentown Division Water Main Cycle 4 in the amount of \$524,885.00 (7-0).

Allentown Division – Water Filtration Plant: High Lift Pump VFD Replacements

Phil DePoe gave an overview of the project which consists of the replacement of the existing two Variable Frequency Drives (VFDs) and adding a third VFD. The additional VFD will increase the life of the pumps. Mr. DePoe explained that it was decided to award the bid for engineering design services to Borton-Lawson because of their value-added engineering services.

The City of Allentown has reviewed and approved the project as a Major Capital Improvement allowing the cost to be recovered via a capital cost recovery charge in the LCA Allentown Division. The project is currently listed as "unfunded" in LCA's Capital Plan but may be supported through a PennVEST loan. Design and permitting work is required before a decision can be made about funding the project. Mr. DePoe is requesting approval of the Capital Project Authorization – Design Phase in the amount of \$88,500.00 which includes the Professional Services Authorization to be awarded to Borton-Lawson in the amount of \$68,500.00.

Amir Famili noted in the memo that Board approval is being requested for the design phase to ensure loan application time lines can be met in the event agreement can be reached with the City and asked if this agreement has indeed been reached. Liesel Gross explained the current status of the project is that both LCA and the City agree it's a Major Capital Improvement and agree fundamentally it should be funded through the PennVEST program. However, discussions are ongoing with the City regarding financing of these types of projects and how that will work in the overall effort to achieve financial sustainability in the Allentown water / sewer lease.

On a motion by Norma Cusick, seconded by Linda Rosenfeld, the Board approved the Capital Project Authorization – Design Phase in the amount of \$88,500.00 which includes the Professional Services Authorization to be awarded to Borton-Lawson in the amount of \$68,500.00 (7-0).

Northampton Borough Municipal Authority (NBMA) - Water Service Agreement Amendment

Brad Landon explained that with the abandonment of Well NL6 because of high manganese levels it is necessary to increase the amount of water purchased from the NBMA interconnection in the North Whitehall Division. The amendment would allow for water usage from the NBMA system up to 1,000,000 gallons per day instead of the contract limit of 260,000 gallons per day. The consecutive system permit with DEP will need to be amended. There was some discussion on contracts and agreements. If contracts or agreement changes are complex, Chairman Nagle would like to see negotiations for an entirely new, consolidated contract versus revisions and amendments to the prior agreements which can be difficult to interpret. Mr. Landon agreed that is generally desirable, but a more simple amendment in this case was preferred since there is only one term of the agreement proposed to be changed.

On a motion by Norma Cusick, seconded by Jeff Morgan to approve the Amendment to the July 15, 1997 Water Service Agreement with Northampton Borough Municipal Authority (7-0).

MONTHLY PROJECT UPDATES / INFORMATION ITEMS

Liesel Gross highlighted items for the meeting on August 26, 2019 noting that the resolution for the Suburban Division Water Tapping Fees may or may not be on the agenda. John Parsons gave an overview of the Suburban Division – Watershed Monitoring Program. He noted that the Little Lehigh Watershed was picked as a targeted area by the National Next Generation Integrated Water Observing System (NGWOS) allowing for additional surface water and ground water monitoring stations to be developed by the USGS (United States Geological Survey) at its cost. There was some discussion on the Authority's drought monitoring program.

Brian Nagle asked for an updated on the Heidelberg Heights Sewer System Corrective Action Plan. Chuck Volk stated that the Plan was submitted to DEP and the Authority is already implementing the provisions of the plan as part of the annual sewer line replacement project. Liesel Gross also noted that the Lynn Township Corrective Action Plan will be submitted to DEP in August. DEP is requiring an update to the condition assessment of the sanitary sewer system which will be submitted at the

end of August and will outline what needs to be done to address ongoing wet-weather operational issues in this system.

Scott Bieber asked for clarification on the WLI High Flow Emergency Declaration and the long-term bypass or relief lines that are being put in place. John Parsons explained the bypass line in the area along Spring Creek Road would only be in place for several weeks while investigation and rehabilitation work is being completed.

STAFF COMMENTS

Liesel Gross informed the Board that the Authority Staff is kicking off Budget preparation tasks. Preliminary discussions with the Board will take place at a meeting in September.

SOLICITOR'S COMMENTS

None.

PUBLIC COMMENTS / OTHER COMMENTS

None.

Chairman Nagle called a recess at 12:34 p.m. The meeting reconvened at 12:46 p.m.

EXECUTIVE SESSION

An Executive Session was held at 12:46 p.m. to discuss matters of potential litigation.

The Executive Session ended at 1:28 p.m.

The regular meeting was convened at 1:28 p.m. for additional discussion.

The Board discussed the recent boil water advisories happening at the Pine Lakes water system in Lynn Township. John Parsons reported that the most recent incident occurred due to a level sensor in a water tank that was not working properly, which caused pump controls to not operate as planned and creating a loss of pressure in the system. The boil water advisories are put in place as a precaution when the water system loses pressure because disinfection processes can be disrupted when such incidents occur. Several other similar incidents have occurred over the past year within the Pine Lakes system and the Authority is working on a permanent fix to address problems with the pumping control system. Liesel Gross explained that during each of the prior incidents there has been no indication of a water quality problem, and all laboratory tests confirm not signs of bacteria in the tap water following these incidents.

ADJOURNMENT

There being no further business, the Chairman adjourned the meeting at 1:33 p.m.

Richard H. Bohner Secretary

MEMORANDUM

Date: August 15, 2019

To: Authority Board

From: Amy Kunkel, Chuck Volk

Subject: Suburban Division – Buss Acres Pump

Station Replacement- Construction Phase

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	Capital Project Authorization – Construction Phase	\$2,267,778.00
2	Construction Contract - General:	
	Blooming Glen Contractors, WW	\$1,641,848.00
3	Construction Contract – Electrical	\$395,000.00
	BSI	
4	Professional Services – Construction Phase Engineering	\$53,350.00
	Buchart Horn, Inc	
5	Professional Services – Construction Phase Inspection	\$27,580.00
	Cowan Associates, Inc	

PROJECT OVERVIEW:

The Buss Acres Water System (also known as the Upper Milford Central Division) is a small "developer built" system that was acquired by LCA in 2006 and serves 98 residential homes and 2 commercial properties. There are two wells, each with its own well station and hydropnuematic tank. UMCD-3 is permitted at 79 GPM and is located at the end of Gary Drive and UMCD-2 is permitted at 45 GPM and is located at the end of Laurie Drive. Water from the two wells is treated with sodium hydroxide for pH adjustment and liquid sodium hypochlorite for chlorination at each station and discharged into the distribution system from each station's buried hydropnuematic tanks. The hydropneumatic tanks at both facilities have exceeded their useful life and are not in compliance with regulatory requirements for pressure vessels. In addition, both well house facilities were evaluated as part of the 2016 Asset Evaluation Study and numerous deficiencies were identified.

Prior studies have been completed to determine feasibility of water supply options for this development including interconnection with the Borough of Macungie water system, and interconnection with LCA's Upper Milford Division. These options were rejected as infeasible and/or cost-prohibitive.

The proposed project involves the consolidation of both stations on the largest well station parcel (Gary Drive) with a single new well/pump station and a new, larger water storage tank. The new station will be a variable frequency drive controlled double pumping system with full SCADA telemetry/control. Prior studies have indicated radon is present in the source water in this system, but no treatment is currently in place because radon not regulated by state or federal drinking water standards. Design provisions will be incorporated to facilitate the future addition of radon mitigation equipment should a regulatory limit be established in the future.

FUNDING:

This Project will be funded by the LCA Suburban Division

BUDGET AMENDMENT

Not required for this approval

PROJECT STATUS:

Pending Board approval of the Construction Phase.

THIS APPROVAL-CONSTRUCTION PHASE

BIDDING SUMMARY

This project consists of two contracts. The project was advertised for bid on July 12, 2019. A mandatory pre-bid meeting was held on July 23, 2019. Bids were received via PennBid on August 13, 2019, the results of which are as follows:

Bidder	Bid Amount
Blooming Glen Contractors, WW	\$1,641,848.00
Electrical Constructi	on
Electrical Constructi Bidder	on Bid Amount
Bidder	Bid Amount

Blooming Glen Contractors has successfully completed numerous projects at the Kline's Island Wastewater Treatment Plant, and current projects for LCA include the Park Pump Station Upgrade and the CLD Pump Station. Although they were the only General Construction bidder, their price was in line with the engineer's estimate. BSI has extensive water and wastewater facility electrical construction experience, and is the electrical contractor for the Kohler Tract project. Our electrical engineer has worked with them on several projects, and a check of their references revealed satisfactory performance on a wide range of projects. Both firm's qualifications and experience statements indicate numerous projects of similar scope and type. The bid documents are in order and the firms appear well qualified to perform the work.

The total construction cost for the project is \$2,036,848 and the Engineer's construction cost estimate was \$2,000,000.

PROFESSIONAL SERVICES

Construction engineering is to be performed by Buchart Horn, Inc., the design engineer for the project. Part-time inspection services are to be performed by Cowan Associates, Inc.

PROJECT SCHEDULE

Based on contract award following the August 26, 2019 Board meeting, it is anticipated that the project will be completed by August 2020.

FUTURE AUTHORIZATIONS- CONSTRUCTION PHASE

None.

PROJECT No.:				
	SD-W-17-4	BUDGET FUND:	Suburban Div\Water	\Capital
PROJECT TITLE:	Buss Acres Pump Construction Pha	s Acres Pump Station Replacement – struction Phase		
THIS AUTHORIZATION: TO DATE (W/ ABOVE)	\$2,267,778 \$2,439,183		Construction Engineering St Equipment Put Amendment	•
DESCRIPTION AND BENEF	, ,			
water storage with a takes us through con	consolidated treatmentstruction phase.	well booster stations into a single ent system, and upgrade of the SC additional information.		
	D	A-41		
Design Phase	Previ	ous Authorizations	\$171,405	
Design i nuse			. , ,	
	REQUESTED	THIS AUTHORIZATION		
	Cor	nstruction Phase		
Staff			\$50,000	
Professional Servi	ces		1-2-2-2	
	ngineering – Bucha		\$53,350	
Construction In	nspection – Cowan A	Associates, Inc.	\$27,580	
Contract 1-Gener	al Construction – R	looming Glen Contractors, WV	v \$1,641,848	
	ical Construction - 1		\$395,000	
Contingency			\$100,000	
Total This Author			\$2,267,778	
	Future Autl	horization		
None				
T . 1 T 1 D	• .		\$2,439,183	
Total Estimated Pr	oject		φ2,439,103	
REVIEW AND APPROVAL	S:			
Project Manager		Date Chief Ex	ecutive Officer	Date



1053 Spruce Road * P.O. Box 3348 * Allentown, PA 18106-0348 (610)398-2503 * FAX (610)398-8413

PROFESSIONAL SERVICES AUTHORIZATION			
Professional:	Buchart Horn 2 Eves Drive Suite 110 Marlton, NJ 08053-3127	Date: Requested By: Approvals Department Head: Chief Executive Officer:	August 16, 2019 Amy Kunkel
Previous Authori	ision- Buss Acres Pump Station Stations - Design Phase: \$92,405	-	
	ion – Construction Phase: \$53,3Il provide construction engineering		mentioned project.
1 2 3 4 5	 Attend Pre-Construction Meeti Attend Progress Meetings Respond to design related RFIs Log, review and process shop of Attend Substantial and Final C 	s drawing submittals	utes
	not to be exceeded without further Completion Deadline: As requir		uirements
	(For Autho	ority Use Only)	
Authorization C	,	• • • • • • • • • • • • • • • • • • • •	

Approval: _____ Actual Cost: ____ Date: ____



PROFESSIONAL SERVICES AUTHORIZATION				
Professional:	Cowan Associates, Inc. 120 Penn Am Drive PO Box 949	Date:	August 15, 2019	
	Quakertown, PA 18951	Requested By: <u>Approvals</u> Department Head: Chief Executive Officer:	Amy Kunkel	
Γhis Authoriza	tion- Buss Acres Pump Station- Construction Phase: \$27,5	80	rvices for the aforementior	
project				
1 2 3 4 5	Attend Pre-Construction Meeting Attend Progress Meeting Provide Part-Time Inspection S Review contractor applications applications for payment. Attend substantial and final conlists for contractor work comple	Services for payment; recommend mpletion inspections; compile petion.	punch	
Cost Estimate (1	not to be exceeded without further Completion Deadline: As require		ne requirements.	
Table and				
Time Table and	(For Auth	ority Use Only)		

Approval: _____ Date: _____

MEMORANDUM

Date: August 16, 2019

To: Lehigh County Authority Board of Directors

From: Edward Hoyle, Chief Engineer

Subject: Suburban Division – CLD Auxiliary Pumping Station and Water Main

Extension Project - Construction Phase Change Order

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	Capital Project Authorization – Construction Phase	
	Amendment No. 3:	
	Blooming Glen Contractors WW – Construction phase change	\$46,078.20
	order	

PROJECT OVERVIEW:

The project consists of installation of a new water booster pumping station and 12" water main extension along Werley Road in Upper Macungie Township, with emergency generator and SCADA system, to pump water from the Central Lehigh Division's Lower Pressure System into the Upper Pressure System.

CHANGE ORDER SUMMARY:

This construction phase change order requested by the general contractor (Blooming Glen Contractors WW) is to raise the site to match grading proposed by the owner of the tract the pumping station easement is situated on. The owner is developing the remainder of the tract as a townhouse development that is currently in the design stage. The owner revised his grading plan causing grades in the area to be approximately 2 feet higher after the project was bid and thus impacting the pump station design.

FINANCIAL:

This project is funded by the LCA Suburban Division.

PROJECT STATUS:

Under construction.

PROJECT SCHEDULE:

No change.

FUTURE AUTHORIZATIONS:

None. anticipated.

CAPITAL PROJECT AUTHORIZATION AMENDMENT NO. 3

PROJECT No.:	SD-W-15-2	BUDGET FUND:	Suburban Div\Water\Capital	
PROJECT TITLE:	CLD Auxiliary Pumping State Extension Project - Construction		PROJECT TYPE:	
			Construction	
THIS AUTHORIZATION	. \$46,079.20		Engineering StudyEquipment Purchase	
TO DATE (W/ ABOVE)	: \$46,078.20 \$1,954,892.20		Amendment No. 3	
TO DITTE (WITHOUTE)	Ψ1,70 1,072.20			
CAPITAL PROJECT	AMENDMENT NO. 3 – CONST	RUCTION PHASE C	HANGE ORDER	
DESCRIPTION AND BEN	NEFITS:			
	e change order requested by the ger h grades proposed by the owner of			
This capital project will	l be funded by the Suburban Division	on.		
Please see attached Bo	ard Memo for further project details	3.		
Authorization Status:				
		uthorizations		
Plannin	g, Design, Construction Phases		\$1,908,814	
		is Authorization		
	ment No. 3 (Construction Phase)			
	eral Contractor: Blooming Glen tors WW		\$46,078.20	
Total T	his Authorization		\$46,078.20	
E /	A .1		N	
Anticip	Authorizations ated		None	
	stimated Project		\$1,954,892.20	
REVIEW AND APPROVA	ALS:			
Project Mana	ger Date	Chief Exec	utive Officer Date	
Chief Capital Worl	as Officer Date	Cha	irman Date	
H:∖Minutes\2019\August 26 me	ting\Raise site to grade CPA CO 190816.docx			



Lehigh County Authority

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

MEMORANDUM

Date: August 26, 2019

To: Lehigh County Authority Board of Directors

From: Charles Volk, P.E., Chief Capital Works Officer

Subject: Suburban Division – Sand Spring Wastewater Treatment

Plant Upgrade Construction Phase

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	<u>Capital Project Authorization – Construction Phase</u>	\$4,389,300
2	Construction Contract – General: Lobar, Inc.	\$3,233,800
3	Construction Contract- Electrical: Brenden Stanton, Inc. (BSI)	\$524,500
4	Construction Contract – HVAC/Plumbing: W.C. Eshenaur & Son, Inc.	\$104,400
5	Professional Services Authorization: Construction Phase Engineering – Entech Engineering	\$251,000

Note: Capital Project Authorization includes all construction and engineering contracts

PROJECT BACKGROUND

Sand Spring WWTP is located along Sand Spring Road in Schnecksville PA. The facility was constructed and put into operation in 1972 by the developer to serve the Sand Spring Development in North Whitehall Township, Lehigh County. LCA took over ownership and operations of the WWTP in 2005. There sewer service area includes approximately 248 apartment units, 8 commercial properties, and an elementary school.

The plant, while meeting effluent limits, has reached the end of its useful life. The facility is constructed of steel tanks that are in poor condition, with areas of advanced corrosion and loss of structural integrity. The mechanical equipment, including pumps, blowers, valves and piping, is generally at the end of its service life and in need of replacement. Operator safety and maintenance access are in need of improvement in order to comply with current OSHA regulations. Electrical and communication equipment require replacement in order to comply with current Electrical Code regulations and allow for remote SCADA monitoring. The proposed project includes replacement of the existing treatment facilities in entirety utilizing concrete tanks and current technology appropriate for the wastewater flows and loading characteristics at the site. The new facility will meet the current effluent discharge limits established in the DEP and DRBC permits, as well as stricter limits which could be imposed by DEP in the future.

PROJECT OBJECTIVE

The purpose of this project is to extend the service life of the facility, satisfy regulatory criteria for treatment, enhance operational flexibility and safety, meet current Code requirements, enable meeting future stringent discharge limits, provide SCADA monitoring capability, and adequately serve the future wastewater disposal needs of LCA customers in the Wynnewood sewer service area.

FINANCIAL

The Project will be funded by the LCA Suburban Division.

PROJECT STATUS

The DEP Part 2 Water Quality Management Permit was approved on 12/20/18 and design was completed by early Summer 2019. The project was advertised for bid (via PennBid) on 7/10/19, the pre-bid meeting was held on 7/24/19, and bids were opened on 8/15/19.

THIS APPROVAL: Construction Phase

BID SUMMARY

Eight (8) bids were received for the General Construction Contract, summarized in Table No. 1 as follows:

Table 1 – Bid Results			
GENERAL CONSTRUCTION			
Contractor	Total Bid		
Lobar, Inc.	\$3,233,800		
Walabax Construction Services, Inc	\$3,374,000		
Blooming Glen Contractors WW.	\$3,475,844		
DESCCO Construction, Inc.	\$4,114,742		
Pact Two, LLC	\$3,272,750		
LB Industries, Inc.	\$4,123,000		
M2 Construction, LLC	\$4,249,850		
Mohawk Contracting Development.	\$4,440,570		

The low bidder for the General Contract is Lobar, Inc. (Lobar) from Dillsburg PA. The company has been in operation for over 50 years, and performs primarily institutional and municipal work, primarily comprised of school and water and wastewater treatment plant construction, respectively. Our engineer has reviewed their qualifications and experience documents and checked on their references, and received positive comments regarding their work on similar projects. The firm appears well qualified to perform the work, and Capital Works recommends authorization to award the General Contract to Lobar.

Six (6) bids were received for the Electrical Construction Contract, summarized in Table No.2 as follows:

Table 2 – Bid Results		
ELECTRICAL CONSTRUCTION		
Contractor	Total Bid	
Brenden Stanton, Inc. (BSI Electrical)	\$524,500	
Diefenderfer Electrical Contractors	\$649,325	
G.R. Noto Electrical Construction, Inc.	\$669,000	
A.N. Lynch Co., Inc.	\$687,000	
Garden Spot Electric, Inc.	\$710,500	
George J. Haden, Inc	\$729,000	

The low bidder for the electrical contract is Brenden Stanten Inc. (BSI) from Montgomeryville PA. The electrical contracting firm has completed numerous similar wastewater projects, including a large electrical contract for the City of Reading WWTP upgrade project, along with numerous water and wastewater treatment and conveyance projects in the southeastern PA. The firm appears well qualified to perform the work, and Capital Works recommends authorization to award the EC contract to BSI.

Two (2) bids were received for the HVAC/Plumbing Contract, summarized in Table No.3 as follows:

Table 3 – Bid Results	
HVAC/PLUMBING CONS	STRUCTION
Contractor	Total Bid
W.C. Eshenaur & Son, Inc.	\$104,400
K.C. Mechanical Service, Inc.	\$127,000

The low bidder for the HVAC/Plumbing contract is W.C. Eshenaur & Son, Inc. (Eshenaur) from Harrisburg PA. The firm performs HVAC and plumbing work for primarily municipal and institutional projects, including water and wastewater treatment facilities, schools, and government buildings. Our engineer has reviewed their qualifications and experience documents and checked on their references, and received positive comments regarding their work, which is generally located in central and northern PA. Capital Works recommends authorization to award the HVAC/Plumbing contract to Eshenaur.

The engineer's estimate for the total project construction cost is \$3,948,595. The total of the low bids for all three contracts is \$3,862,700.

MATERIAL PROCUREMENT: N/A

PROFESSIONAL SERVICES

Professional Services will be required for construction engineering and construction inspection services. The design engineer, Entech Engineering, is intimately familiar with the project and will provide construction engineering and construction inspection services (see attached Professional Services Authorization). Note that Entech is currently providing construction phase services for the Wynnewood WWTP Upgrade project.

SCHEDULE

Assuming approval at the August 26, 2019 Board meeting, the Notice to Proceed is anticipated to be issued by mid-September with construction completed by the end of 2020.

FUTURE AUTHORIZATIONS

None

PROJECT No.:	SD-S-13 BUDGET FUND:	Suburban Div\Wastewater\Capita
PROJECT TITLE:	Sand Spring Wastewater Treatment Plant Upgrade – Construction Phase	PROJECT TYPE:
THIS AUTHORIZATI TO DATE (W/ ABOVI	ON: \$4,389,300 \$4,548,424	Construction Engineering Design Equipment Purchase Amendment
DESCRIPTION AND I	SENEFITS: WWTP Upgrade – Construction Contracts:	
	onsists of three construction contracts (general, electrical	al. and HVAC/plumbing)
	e of the Sand Spring Treatment Plant. The project inclu	
	nent facility in entirety utilizing concrete tanks and curr	
wastewater flo	ows and loading characteristics at the site. The new faci	ility will meet the current
	criteria established in the DEP and DRBC permits, and	l also be able to meet more
stringent limit	s which could be imposed by regulators in the future.	
wastewater di	sposal needs of LCA customers in the Sand Spring sewe	er service area.
-	Previous Authorizations	\$159,124
De	sign Phase (Entech Engineering)	\$139,124
	REQUESTED THIS AUTHORIZAT	TION
	Construction Phase	
Ge	neral Construction – Lobar, Inc.	\$3,233,800
Ele		\$524,500
HV	ctrical Construction - Brenden Stanton, Inc. (BSI)	-
Sta	ctrical Construction - Brenden Stanton, Inc. (BSI) AC/Plumbing Construction – W.C. Eshenaur & Son, Inc.	\$104,000
Pro	AC/Plumbing Construction – W.C. Eshenaur & Son, Inc	4404000
	AC/Plumbing Construction – W.C. Eshenaur & Son, Inc	\$104,000 \$80,000
	AC/Plumbing Construction – W.C. Eshenaur & Son, Inc	\$104,000 \$80,000 \$251,000
Со	AC/Plumbing Construction – W.C. Eshenaur & Son, Inc ff ofessional Services:	\$104,000 \$80,000
	AC/Plumbing Construction – W.C. Eshenaur & Son, Inc ff ofessional Services: Construction Engineering – Entech Engineering	\$104,000 \$80,000 \$251,000
	AC/Plumbing Construction – W.C. Eshenaur & Son, Inc. ff ofessional Services: Construction Engineering – Entech Engineering ntingency tal This Authorization	\$104,000 \$80,000 \$251,000 \$175,000
	AC/Plumbing Construction – W.C. Eshenaur & Son, Inc ff ofessional Services: Construction Engineering – Entech Engineering ntingency tal This Authorization Future Authorization	\$104,000 \$80,000 \$251,000 \$175,000
То	AC/Plumbing Construction – W.C. Eshenaur & Son, Inc ff ofessional Services: Construction Engineering – Entech Engineering ntingency tal This Authorization Future Authorization	\$104,000 \$80,000 \$251,000 \$175,000

TIEW AND APPROVALS:			
Project Manager	Date	Chief Executive Officer	Date
Chief Capital Works Officer	Date	Chairman	Date



1053 Spruce Road * P.O. Box 3348 * Allentown, PA 18106-0348 (610)398-2503 * FAX (610)398-8413

PROFESSIONAL SERVICES AUTHORIZATION

(To be signed by Professional and returned to the Authority)

Professional:	Entech Engineering, Inc.	Date:	August 26, 2019
	201 Penn Street	Requested By:	Charles Volk, P.E.
	Reading, PA 19603	Approvals	
		Department Head:	
		CEO:	

Wynnewood Wastewater Treatment Plant Upgrade Project – Construction Engineering Services

Description of Services:

The design engineer, Entech Engineering, will provide the following construction phase services:

1) CONSTRUCTION ENGINEERING:

- Arrange and attend an initial pre-construction conference with the Contractor; prepare meeting minutes.
- Review and process Contractor shop drawings of material and equipment proposed for installation, prescribing
 mill, shop, and laboratory inspection and testing, by approved laboratories designed to perform such work,
 together with review of such inspection and testing.
- Evaluate and determine the acceptability of substitute materials and equipment proposed by the Contractor.
 Recommendation to LCA will be provided on significant deviations from Contract Documents requested by Contractors.
- Issue necessary clarifications and interpretations of the contract documents, as required.
- Schedule and conduct periodic field meetings with LCA, Contractors, and LCA's Construction Representative (CR) during the construction phase of the project (estimated 10 meetings). Prepare meeting minutes for each meeting.
- Coordinate the project and work closely with LCA, Operating Staff, Contractor, and CR.
- Attend start-up operations and monitor training.
- Communicate / coordinate with regulatory agencies as necessary during construction.
- Prepare, review, and comment on Change Orders, if required, for approval by LCA
- Review Contractor's construction schedules and identify schedule issues.
- Check and approve monthly and final estimates for Contractor payment.
- Facilitate the cooperation between the Contractor and other public entities, as required.
- Prepare a list of items to be completed or corrected, as submitted by the Contractor, with his request for a certificate of substantial completion. Review the work, and if in agreement, issue the certificate of substantial completion.
- Sign off as the Engineer on the PADEP Certificate of Construction/Modification Completion Form.
- Administer contract closeout.
- Prepare the complete set of project record drawings after the final completion of the project. The record drawings will be prepared from information supplied by the Contractor, as per the requirements of the contract documents. Two sets of record drawings and computer file will be submitted to LCA.

2) CONSTRUCTION INSPECTION:

- Confirm materials and equipment compliance with all approved shop drawings and specifications
- Coordinate with design engineer as necessary to resolve conflicts and field issues
- Observe and monitor work and materials to be incorporated into the project for conformance with the plans and specifications; conduct part-time on-site construction observation services (assume 684 man-hours)
- Complete inspection report for each on-site visit and distribute report to design engineer and LCA
- Maintain continuing records of quantities constructed for use in preparing monthly payment estimates; review all items for payment and execute and distribute payment applications
- Identify cost overruns and communicate to design engineer and LCA; work with design engineer regarding change orders
- Conduct regular progress meetings
- Attend Substantial Completion inspection and review punchlist
- Attend Final Completion inspection
- Attend start-up operations and monitor training to insure compliance with specifications
- Review as-built drawings for accuracy and completeness

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Cost Estimate (not to be exceeded without further authorization):

The tasks outlined in the above-mentioned Proposal will be performed under this PSA for the total not-to-exceed fee of \$251,000.

Timetable and Completion Deadline:

The work shall begin immediately and conclude by the end of 2020.

I am or represent the Professional indicated above, and as such I am authorized to:

- Accept the terms of the professional authorization set forth above; and
- Agree to indemnify, hold harmless and defend the Authority, its employees, agents, officials, successors and assigns (hereinafter all jointly referred to as "Authority"), from any and all loss and liability for claims, demands, suits or causes of action at law or in equity for damages and injuries (including death of every kind and nature) to persons (including employees of the Professional) and property arising out of error, omission or negligent act of Professional, or any person under contract to it, in rendering professional services under this authorization. The indemnification shall include, but not be limited to, payment of reasonable attorney fees and reasonable incidental litigation expenses of the Authority. Professional shall not, however, be liable for any portion of a judgment nor associated litigation expenses, including attorney's fees, ultimately determined to be the result of the negligence of the Authority.

Name (Signature)	1	Name (printed):	
	5	Title:	
	(For Authority Use Only)	
Authorization Completion:			
Approval:	Actual Cost:	Date:	

MEMORANDUM

Date: August 22, 2019

To: LCA Board of Directors

Liesel Gross, C.E.O.

From: Phil DePoe, LCA Capital Program Manager

Subject: Allentown Division: Kline's Island Wastewater Treatment Plant Max

Monthly Flow Capacity Evaluation

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	Professional Services Authorization – Kleinfelder	\$50,000

PROJECT OVERVIEW

Upon discussion and review with the City of Allentown and the Pa. Department of Environmental Protection (DEP), it was noted that the Kline's Island Wastewater Treatment Plant (KIWWTP) in Allentown has been performing at a high level and meeting its permitted effluent quality limits during a period of prolonged wet weather since early 2018. Also in 2018, Kleinfelder (KLF) completed a master plan study to evaluate each unit process at the KIWWTP and develop a long-range master plan and capital improvements plan for Lehigh County Authority's planning purposes. This study will provide the basis for confirming the plant's maximum monthly average that can be sustained during prolonged periods of wet weather while remaining in full compliance with effluent quality requirements of the plant's permit. DEP, LCA and the City agree this is an important update to prior similar engineering work that was completed in 2009 and will be useful in evaluating the plant's capability to accept current and future flows during similar future periods of excessive rainfall.

FINANCIAL

This project will be funded directly by the City of Allentown due to its alignment with work currently being completed for compliance with the prior EPA Administrative Order (AO) related to wet-weather operation of the system.

<u>Note</u>: The terms of the concession lease agreement between LCA and the City specify that the City will directly fund projects associated with the AO, and LCA will collect fees from City customers to pay any associated debt service for these projects. The City determines the projects to be completed and directs LCA to complete the projects in the manner desired by the City.

PROJECT STATUS

This is a one-time engineering study that will supplement prior master planning work completed in 2018.

THIS APPROVAL - PLANNING PHASE

Lehigh County Authority (LCA) intends to retain the services of an engineering consulting firm to provide the services for Tasks 1-6. The following table summarizes the professional services to be performed under this approval:

Professional Services											
1. Update KIWWTP Influent Wastewater Characteristics											
2. Update KIWWTP Performance Assessment											
3. Update Unit Process by Unit Process Capacity Assessment											
4. Prepare and Discuss Draft Report											
5. Prepare Final Report											
6. Address DEP Comments											

- Task 1: Kleinfelder (KLF) will updated the detailed influent wastewater characterization performed as part of the KIWWTP Master Plan
- Task 2: The performance summary through the KIWWTP's major unit processes that was performed as part of the KIWWTP Master Plan will be updated
- Task 3: The unit process by unit process capacity analysis performed as part of the Master Plan will be updated based on the updated influent wastewater characterization from Task 1 and the updated performance assessment from Task 2
- Task 4: A draft report will be prepared presenting the information generated by the assessments performed in Tasks 1, 2, and 3
- Task 5: Following LCA and the City's review of the draft report, KLF will prepare the final report, which LCA or the City will submit to DEP
- Task 6: KLF will address any questions or comments from DEP

CONSULTANT SELECTION PROCESS

The City has instructed LCA to utilize Kleinfelder for this study. Over the course of several years, Kleinfelder has been retained by the City to develop prior engineering studies to comply with EPA's Administrative Order. LCA recently retained Kleinfelder to complete the Master Plan for the Kline's Island Wastewater Treatment Plant, which was presented to the LCA Board in early 2019. In addition, LCA also recently retained Kleinfelder to design the City's five-year Inflow & Infiltration Source Reduction Program, which was presented to the LCA Board in May 2019.

LCA finds the selection of this firm to be acceptable as their work has been satisfactory, on time and cost-effective.

PROJECT SCHEDULE

Draft report will be submitted to LCA and the City for review within five (5) weeks following authorization to proceed.

FUTURE AUTHORIZATIONS

None anticipated.



	PROFESSIONAL SERVICE	CES AUTHORIZA	TION
Professional:	KLEINFELDER 150 College Road West, Suite 100 Princeton, NJ 08540	Date: Requested By: Approvals Department Head: Chief Executive Officer:	August 26, 2019 Phil DePoe
	ision: Kline's Island Wastewater Capacity Evaluation – Planning Pha		WWTP) Max Monthly
KLEINFELDEI prolonged perio	R will determine the KIWWTP's mands of wet weather while remaining effluent limitations.	— aximum monthly averag	
6.	Update Unit Process by Unit Proces Prepare and Discuss Draft Report Prepare Final Report	nter Characteristics essment	
Planning Phase Cost Estimate (<u>:</u> not to be exceeded without further a	nuthorization): \$50,000	
Time Table and proposal.	l Completion Deadline: As required t	to meet various critical de	adlines as set forth in the
Authorization Co	(For Authority	y Use Only)	
Approval:	Actual Cost:	I	Date:



August 22, 2019

VIA EMAIL

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

RE: KLINE'S ISLAND WASTEWATER TREATMENT PLANT (KIWTP)

PROPOSAL FOR EVALUATION OF MAXIMUM MONTHLY AVERAGE FLOW CAPACITY

Dear Mr. DePoe:

Kleinfelder, Inc. (KLF) is pleased to present this proposal to determine the KIWWTP's maximum monthly average flow capacity during prolonged periods of wet weather while remaining in full compliance with the KIWWTP's NPDES Permit effluent limitations. The proposed scope of services, schedule, and cost proposal follow.

SCOPE OF SERVICES

Task 1 – Update KIWWTP Influent Wastewater Characteristics

KLF will update the detailed influent wastewater characterization performed as part of the KIWWTP Master Plan. The influent wastewater characterization presented in the Master Plan was based on data for the years 2015, 2016 and 2017. The wastewater characterization update will extend the period of data analysis through the second quarter of 2019, which will encompass a period of sustained wet weather. This analysis will include the impact of plant recycle flows and loads.

Task 2 – Update KIWWTP performance Assessment

The performance summary through the KIWWTP's major unit processes that was performed as part of the KIWWTP Master Plan will be updated. The performance summary will be extended from December 2017 through the second quarter of 2019 to capture the KIWWTP's performance during a sustained wet period. Consistent with the performance assessment prepared as part of the Master Plan, the updated performance assessment will include a performance assessment at annual average flows, maximum monthly average flows and maximum daily flows.

Task 3 - Update Unit Process by Unit Process Capacity Analysis

The unit process by unit process capacity analysis performed as part of the Master Plan will be updated based on the updated influent wastewater characterization from Task 1 and the updated performance assessment from Task 2.

Task 4 – Prepare and Discuss Draft Report

A draft report will be prepared presenting the information generated by the assessments performed in Tasks 1,2 and 3, and the resulting determination of the KIWWTP's maximum monthly average flow capacity during a sustained wet period. The draft report will be submitted to LCA and the City of Allentown for review.

KLF will discuss any questions or comments LCA or the City may have either in a meeting or by conference call.

Task 5 - Prepare Final Report

Following LCA and the City's review of the draft report, KLF will prepare the final report, which LCA or the City will submit to PADEP

Task 6 - Address PADEP Comments

In this task, Kleinfelder will address any questions or comments that PADEP may have.

SCHEDULE

KLF will submit the draft report to LCA and the City of review within five (5) weeks following authorization to proceed

COST PROPOSAL

KLF's estimated cost to execute the Scope of Services described above is presented in the table below.

TASK	DESCRIPTION	COST
1	Update KIWWTP Influent Wastewater Characteristics	\$6,240
2	Update KIWWTP Performance Assessment	\$5,180
3	Update Unit Process by Unit Process Capacity Assessment	\$12,160
4	Prepare and Discuss Draft Report	\$14,740
5	Prepare Final Report	\$6,680
6	Address PADEP Comments	\$5,000
	TOTAL	\$50,000

The total fee of \$50,000 will not be exceeded without a change in scope and LCA's and the City's prior approval.

We appreciate the opportunity to assist LCA and the City with this important matter.

If you have any questions or need additional information, please contact me at (609) 454-4555 or via email at TBradley@Kleinfelder.com.

Sincerely,

Timothy D. Bradley, P.E. Vice President

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS JULY 2019

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - SUMMARY JULY 2019

		MONTH					Υ	EAR-TO-DATE	E				FULL YEAR		
Actual	Forecast	Prior Year	FC Var	PY Var	JULY 2019	Actual	Forecast	Prior Year	FC Var	PY Var	Forecast	Budget	Prior Year	Bud Var	PY Var
					Income Statement										
134,424	122,229	222,160	12,195	(87,736)	Suburban Water	549,862	537,667	252,239	12,195	297,623	281,095	236,452	1,813,064	44,643	(1,531,969)
(289,080)	(282,525)	(484,187)	(6,555)	195,107	Suburban Wastewater	(251,975)	(245,420)	(406,638)	(6,555)	154,663	(1,153,260)	(969,731)	(743,133)	(183,529)	(410,127)
(30,462)	(35,201)	(239,654)	4,739	209,192	City Division	(1,314,488)	(1,319,227)	(2,414,778)	4,739	1,100,290	(4,020,934)	(4,036,377)	(6,134,152)	15,443	2,113,218
(185,118)	(195,497)	(501,681)	10,379	316,563	Total LCA	(1,016,601)	(1,026,980)	(2,569,178)	10,379	1,552,577	(4,893,099)	(4,769,656)	(5,064,221)	(123,443)	171,122
					Cash Flow Statement										
546,849	122,647	680,107	424,202	(133,258)	Suburban Water	2,504,696	2,080,494	2,826,320	424,202	(321,624)	(321,930)	(2,378,358)	(287,896)	2,056,428	(34,034)
(1,114,144)	(1,834,842)	244,530	720,698	(1,358,674)	Suburban Wastewater	(4,050,207)	(4,770,905)	2,237,083	720,698	(6,287,290)	(2,406,212)	(3,026,596)	2,533,964	620,384	(4,940,176)
2,403,434	2,333,799	1,078,462	69,635	1,324,972	City Division	2,360,316	2,290,681	1,151,232	69,635	1,209,084	2,052,318	2,127,423	8,179,138	(75,105)	(6,126,820)
1,836,139	621,604	2,003,099	1,214,535	(166,960)	Total LCA	814,805	(399,730)	6,214,635	1,214,535	(5,399,830)	(675,824)	(3,277,531)	10,425,206	2,601,707	(11,101,030)
					Debt Service Coverage Ratio										
1.85	1.76	1.03	0.08	0.82	Suburban Water	1.62	1.36	1.38	0.26	0.25	1.41	1.40	1.39	0.01	0.02
2.05	2.07	(1.21)	(0.03)	3.25	Suburban Wastewater	6.55	6.54	6.54	0.01	0.01	5.27	5.52	5.75	(0.25)	(0.48)
1.51	1.50	1.63	0.00	(0.12)	City Division	1.40	1.40	1.47	-	(0.07)	1.39	1.37	1.65	0.03	(0.26)

LEHIGH COUNTY AUTHORITY MONTHLY FINANCIAL STATEMENTS - CONSOLIDATED JULY 2019

	MON	NTH				YEAR-T	O-DATE			FULL YEAR FORECAST					
Suburban	Suburban	City	LCA	JULY 2019	Suburban	Suburban	City	LCA	Suburban	Suburban	City	LCA			
Water	Wastewater	Division	TOTAL	INCOME STATEMENT	Water	Wastewater	Division	TOTAL	Water	Wastewater	Division	TOTAL			
				Operating Revenues											
945,607	782,334	3,341,378	5,069,319	Charges For Services	5,579,838	8,324,434	21,387,523	35,291,795	9,785,911	14,425,933	37,090,226	61,302,070			
10,188	-	-	10,188	Rent	73,401	-	-	73,401	111,213	-	-	111,213			
20,021		36,575	56,596	Other Income	52,642		274,834	327,476	100,621		531,111	631,732			
975,816	782,334	3,377,953	5,136,103	Total Operating Revenues	5,705,881	8,324,434	21,662,357	35,692,672	9,997,745	14,425,933	37,621,337	62,045,015			
				On south or Francisco											
00.000	42.011	420.071	F/2/F/	Operating Expenses	F02 / 07	210 /0/	2 100 001	4 004 204	1 000 //0	FF/ 70F	F / O/ 740	7 10/ 202			
80,882	42,911	438,861	562,654	Salaries and Wages	593,607	310,696	3,180,091	4,084,394	1,022,669	556,785	5,606,749	7,186,203			
139,333	63,401	687,010	889,744	General and Administrative	833,837	388,063	4,197,479	5,419,379	1,418,704	627,662	6,840,123	8,886,489			
32,654	37,727	211,141	281,522	Utilities	269,337	260,120	1,330,017	1,859,474	601,683	422,393	2,168,481	3,192,557			
66,979	39,794	103,687	210,460	Materials and Supplies	195,350	189,250	680,097	1,064,697	492,663	350,914	1,429,483	2,273,060			
219,206	501,845	128,147	849,198	Miscellaneous Services	1,382,104	3,650,303	939,771	5,972,178	2,866,526	6,405,866	2,031,779	11,304,171			
220.1//	40,447	4,628	45,075	Treatment & Transportation	1 (04 1/2	1,975,892	4,628	1,980,520	2 740 004	3,545,445	12,000	3,557,445			
229,166	383,527	490,000	1,102,693	Depreciation and Amortization	1,604,162	2,684,689	3,430,000	7,718,851	2,749,994	4,602,324	5,880,000	13,232,318			
768,220	1,109,652	2,063,474	3,941,346	Total Operating Expenses	4,878,397	9,459,013	13,762,083	28,099,493	9,152,239	16,511,389	23,968,615	49,632,243			
207,596	(327,318)	1,314,479	1,194,757	Operating Income	827,484	(1,134,579)	7,900,274	7,593,179	845,506	(2,085,456)	13,652,722	12,412,772			
				Non Operating Devenues (Evpenses)											
12 100	20 211		42 211	Non-Operating Revenues (Expenses)	251 275	700.053	440.704	1 500 001	471 000	024 041	215 204	1 (10 105			
12,100	30,211	-	42,311	Tapping and Capital Recovery fees Meter Sales	351,375	790,052	440,794 8,159	1,582,221	471,990 107,907	824,841	315,294	1,612,125 121,066			
5,239 19,585	-	1,000	5,239 20,585	Inspection and Plan Reviews	56,069 75,117	-	20,183	64,228 95,300	160,772	-	13,159 179,846	340,618			
19,000	1,020	19,231	20,363	Project Reimbursements	73,117	21,302	19,231	40,533	100,772	20,282	20,000	40,282			
16,894	23,135	106,252	146,281	Interest Income	103,831	169,221	670,864	943,916	158,937	266,086	1,164,612	1,589,635			
4,633	5,342	5,805	15,780	Other Income	34,781	46,282	29,545	110,608	35,445	46,940	34,742	1,367,033			
(131,623)	(18,260)	(1,419,385)	(1,569,268)	Interest Expense	(895,404)	(124,003)	(10,188,236)	(11,207,643)	(1,496,071)	(208,913)	(18,943,851)	(20,648,835)			
(131,023)	(3,210)	(57,844)	(61,054)	Other Expense	(3,391)	(20,250)	(215,302)	(238,943)	(3,391)	(17,040)	(457,458)	(477,889)			
(73,172)	38,238	(1,344,941)	(1,379,875)	Total Non-Operating Revenues (Expenses)	(277,622)	882,604	(9,214,762)	(8,609,780)	(564,411)	932,196	(17,673,656)	(17,305,871)			
(13,112)	30,230	(1,344,741)	(1,377,073)	Total Noti-Operating Revenues (Expenses)	(211,022)	002,004	(7,214,702)	(0,007,700)	(304,411)	732,170	(17,073,030)	(17,303,671)			
134,424	(289,080)	(30,462)	(185,118)	Net Income Before Capital Contributions	549,862	(251,975)	(1,314,488)	(1,016,601)	281,095	(1,153,260)	(4,020,934)	(4,893,099)			
				Capital Contributions											
134,424	(289,080)	(30,462)	(185,118)	NET INCOME	549,862	(251,975)	(1,314,488)	(1,016,601)	281,095	(1,153,260)	(4,020,934)	(4,893,099)			

LEHIGH COUNTY AUTHORITY MONTHLY FINANCIAL STATEMENTS - CONSOLIDATED JULY 2019

	MON	ITH				YEAR-T	O-DATE			FULL YEAR	FORECAST	
Suburban	Suburban	City	LCA	JULY 2019	Suburban	Suburban	City	LCA	Suburban	Suburban	City	LCA
Water	Wastewater	Division	TOTAL	CASH FLOW STATEMENT	Water	Wastewater	Division	TOTAL	Water	Wastewater	Division	TOTAL
				Cash Flows From Operating Activities								
975,816	782,334	3,377,953	5,136,103	Operating Revenues	5,705,881	8,324,434	21,662,357	35,692,672	9,997,745	14,425,933	37,621,337	62,045,015
(539,054)	(726,125)	(1,573,474)	(2,838,653)	Operating Expenses (ex D&A)	(3,274,235)	(6,774,324)	(10,332,083)	(20,380,642)	(6,402,245)	(11,909,065)	(18,088,615)	(36,399,925)
35,237	(483,552)	900,655	452,340	Non-Cash Working Capital Changes	(799,757)	(909,688)	(548,512)	(2,257,957)	10,946	(391,136)		(380,190)
471,999	(427,343)	2,705,134	2,749,790	Net Cash Provided by (Used in) Operating Activ	1,631,889	640,422	10,781,762	13,054,073	3,606,446	2,125,732	19,532,722	25,264,900
				Cash Flows From Financing Activities								
-	-	_	-	Lease Payments to City	-	-	-	_	-	-	-	-
-	-	_	-	Capital Contributions	-	-	-	_	-	-	-	-
-	-	-	-	Proceeds New Borrowing	-	-	-	-	=	-	=	-
(6,245)	(15,265)	-	(21,510)	Interest Payments	(748,261)	(103,853)	(6,775,522)	(7,627,636)	(1,496,071)	(208,913)	(14,961,810)	(16,666,794)
(30,242)	(40,873)		(71,115)	Principal Payments	(210,544)	(286,307)		(496,851)	(1,724,544)	(484,500)		(2,209,044)
(36,487)	(56,138)		(92,625)	Net Cash Provided by (Used in) Financing Activ	(958,805)	(390,160)	(6,775,522)	(8,124,487)	(3,220,615)	(693,413)	(14,961,810)	(18,875,838)
				Cash Flows from Capital and Related Activities								
41,557	35,553	6,805	83,915	Non-Operating Revenues	517,342	836,334	498,681	1,852,357	776,114	871,781	543,041	2,190,936
41,007	1,020	19,231	20,251	Project Reimbursement	317,342	21,302	19,231	40,533	770,114	20,282	20,000	40,282
_	92	17,231	92	Non-Operating Expenses	_	21,502	(258,931)	(258,931)	=	(92)	(521,362)	(521,454)
(365,990)	(683,928)	(433,988)	(1,483,906)	Capital Expenditures	(1,692,292)	(3,293,299)	(2,575,769)	(7,561,360)	(8,249,662)	(11,452,292)	(3,724,885)	(23,426,839)
(324,433)	(647,263)	(407,952)	(1,379,648)	Net Cash Provided By (Used In) Capital and Re	(1,174,950)	(2,435,663)	(2,316,788)	(5,927,401)	(7,473,548)	(10,560,321)	(3,683,206)	(21,717,075)
				3, , ,								
				Cash Flows From Investing Activities								
665,377	519,196	-	1,184,573	Investments Converting To Cash	4,507,017	3,376,626	-	7,883,643	7,049,635	12,365,626	-	19,415,261
(246,501)	(525,731)	-	(772,232)	Purchased Invesments	(1,604,286)	(5,410,653)	-	(7,014,939)	(442,785)	(5,909,922)	-	(6,352,707)
16,894	23,135	106,252	146,281	Interest Income	103,831	169,221	670,864	943,916	158,937	266,086	1,164,612	1,589,635
435,770	16,600	106,252	558,622	Net Cash Provided By (Used In) Investing Activ	3,006,562	(1,864,806)	670,864	1,812,620	6,765,787	6,721,790	1,164,612	14,652,189
546,849	(1,114,144)	2,403,434	1,836,139	FUND NET CASH FLOWS	2,504,696	(4,050,207)	2,360,316	814,805	(321,930)	(2,406,212)	2,052,318	(675,824)
340,047	(1,114,144)	2,403,434	1,030,137	TOND NET CASITIEOWS	2,304,070	(4,030,207)	2,300,310	014,003	(321,730)	(2,400,212)	2,032,310	(075,024)
				DEBT SERVICE RATIO								
495,213	114,897	1,876,476	2,486,586	Total Cash Available For Debt Service	3,052,819	2,555,665	12,227,162	17,835,646	4,530,551	3,654,735	20,840,195	29,025,481
268,385	56,138	1,246,381	1,570,904	Debt Service	1,878,695	390,160	8,724,667	10,993,522	3,220,620	693,413	14,956,576	18,870,609
1.85	2.05	1.51	1.58	DSCR	1.62	6.55	1.40	1.62	1.41	5.27	1.39	1.54

LEHIGH COUNTY AUTHORITY MONTHLY FINANCIAL STATEMENTS - CONSOLIDATED COMPARATIVE JULY 2019

		MONTH					YEAR-TO-DATE						FULL YEAR FORECAST					
		5.1.1/	5011	51/1/	JULY 2019			5	50.11	5,414			5	5011	51/1/			
Actual	Forecast	Prior Yr	FC Var	PY Var	INCOME STATEMENT	Actual	Forecast	Prior Yr	FC Var	PY Var	Forecast	Budget	Prior Yr	FC Var	PY Var			
					Operating Revenues													
5,069,319	5,058,874	4,643,303	10,445	426,016	Charges For Services	35,291,795	35,281,350	32,987,639	10,445	2,304,156	61,302,070	60,471,236	59,614,467	830,834	1,687,603			
10,188	8,000	10,844	2,188	(656)	Rent	73,401	71,213	53,226	2,188	20,175	111,213	87,860	98,405	23,353	12,808			
56,596	57,309	42,564	(713)	14,032	Other Income	327,476	328,189	415,899	(713)	(88,423)	631,732	696,864	466,744	(65,132)	164,988			
5,136,103	5,124,183	4,696,711	11,920	439,392	Total Operating Revenues	35,692,672	35,680,752	33,456,764	11,920	2,235,908	62,045,015	61,255,960	60,179,616	789,055	1,865,399			
					Operating Expenses													
562,654	566,910	541,625	4,256	(21,029)	Salaries and Wages	4,084,394	4,088,650	3,986,021	4,256	(98,373)	7,186,203	7,094,831	6,917,656	(91,372)	(268,547)			
889,744	857,310	763,967	(32,434)	(125,777)	General and Administrative	5,419,379	5,386,945	4,798,897	(32,434)	(620,482)	8,886,489	8,281,923	8,565,904	(604,566)	(320,585)			
281,522	250.605	69,379	(30,917)	(212,143)	Utilities	1,859,474	1,828,557	1,585,272	(30,917)	(274,202)	3,192,557	3,026,040	2,697,837	(166,517)	(494,720)			
210,460	192.505	141.044	(17,955)	(69,416)	Materials and Supplies	1,064,697	1.046.742	830.609	(17,955)	(234,088)	2,273,060	2,561,120	1,787,455	288,060	(485,605)			
849,198	920,578	972,728	71,380	123,530	Miscellaneous Services	5,972,178	6,043,558	5,704,539	71,380	(267,639)	11,304,171	11,352,878	10,680,843	48,707	(623,328)			
45,075	50,000	171,106	4,925	126,031	Treatment & Transportation	1,980,520	1,985,445	1,536,216	4,925	(444,304)	3,557,445	2,661,555	3,553,830	(895,890)	(3,615)			
1,102,693	1,102,694	1,110,364	1	7,671	Depreciation and Amortization	7.718.851	7,718,852	7,772,548	1	53,697	13,232,318	13,170,765	13,122,963	(61,553)	(109,355)			
3,941,346	3,940,602	3,770,213	(744)	(171,133)	Total Operating Expenses	28,099,493	28,098,749	26,214,103	(744)	(1,885,390)	49,632,243	48,149,112	47,326,489	(1,483,131)	(2,305,754)			
1,194,757	1,183,581	926,498	11,176	268,259	Operating Income	7,593,179	7,582,003	7,242,661	11,176	350,518	12,412,772	13,106,848	12,853,128	(694,076)	(440,356)			
			(=)	, · ·	Non-Operating Revenues (Expenses)													
42,311	49,500	74,607	(7,189)	(32,296)	Tapping and Capital Recovery fees	1,582,221	1,589,410	841,096	(7,189)	741,125	1,612,125	1,591,000	1,308,953	21,125	303,172			
5,239	5,000	11,506	239	(6,267)	Meter Sales	64,228	63,989	50,097	239	14,131	121,066	120,000	93,656	1,066	27,410			
20,585	21,000	65,026	(415)	(44,441)	Inspection and Plan Reviews	95,300	95,715	131,944	(415)	(36,644)	340,618	376,000	761,209	(35,382)	(420,591)			
20,251	20,000	-	251	20,251	Project Reimbursements	40,533	40,282	(0)	251	40,533	40,282	1,645,000	372,527	(1,604,718)	(332,245)			
146,281	132,000	137,025	14,281	9,256	Interest Income	943,916	929,635	676,827	14,281	267,090	1,589,635	619,000	1,520,789	970,635	68,846			
15,780	2,833	7,697	12,947	8,083	Other Income	110,608	97,661	42,677	12,947	67,931	117,127	47,000	682,374	70,127	(565,247)			
(1,569,268)	(1,559,411)	(1,536,098)	(9,857)	(33,170)	Interest Expense	(11,207,643)	(11,197,786)	(10,750,600)	(9,857)	(457,043)	(20,648,835)	(20,629,504)	(20,584,072)	(19,331)	(64,763)			
(61,054)	(50,000)	(187,941)	(11,054)	126,887	Other Expense	(238,943)	(227,889)	(803,880)	(11,054)	564,937	(477,889)	(1,645,000)	(3,901,477)	1,167,111	3,423,588			
(1,379,875)	(1,379,078)	(1,428,178)	(797)	48,303	Total Non-Operating Revenues (Expenses)	(8,609,780)	(8,608,983)	(9,811,839)	(797)	1,202,059	(17,305,871)	(17,876,504)	(19,746,041)	570,633	2,440,170			
(185,118)	(195,497)	(501,681)	10,379	316,563	Net Income Before Capital Contributions	(1,016,601)	(1,026,980)	(2,569,178)	10,379	1,552,577	(4,893,099)	(4,769,656)	(6,892,913)	(123,443)	1,999,814			
				<u>.</u>	Capital Contributions					-			1,828,692		(1,828,692)			
(185,118)	(195,497)	(501,681)	10,379	316,563	NET INCOME	(1,016,601)	(1,026,980)	(2,569,178)	10,379	1,552,577	(4,893,099)	(4,769,656)	(5,064,221)	(123,443)	171,122			

LEHIGH COUNTY AUTHORITY MONTHLY FINANCIAL STATEMENTS - CONSOLIDATED COMPARATIVE JULY 2019

		MONTH			JULY 2019		YEAR-TO-DATE					FULL YEAR FORECAST				
Actual	Forecast	Prior Yr	FC Var	PY Var	CASH FLOW STATEMENT	Actual	Forecast	Prior Yr	FC Var	PY Var	Forecast	Budget	Prior Yr	FC Var	PY Var	
					Cash Flows From Operating Activities											
5,136,103	5,124,183	4,696,711	11,920	439,392	Operating Revenues	35,692,672	35,680,752	33,456,764	11,920	2,235,908	62,045,015	61,255,960	60,179,616	789,055	1,865,399	
(2,838,653)	(2,837,908)	(2,659,849)	(745)	(178,804)	Operating Expenses (ex D&A)	(20,380,642)	(20,379,897)	(18,441,555)	(745)	(1,939,087)	(36,399,925)	(34,978,347)	(34,203,526)	(1,421,578)	(2,196,399)	
452,340	490,940	(2,257,545)	(38,600)	2,709,885	Non-Cash Working Capital Changes	(2,257,957)	(2,219,357)	(3,602,631)	(38,600)	1,344,674	(380,190)		520,935	(380,190)	(901,125)	
2,749,790	2,777,215	(220,683)	(27,425)	2,970,473	Net Cash Provided by (Used in) Operating Activities	13,054,073	13,081,498	11,412,578	(27,425)	1,641,495	25,264,900	26,277,613	26,497,026	(1,012,713)	(1,232,126)	
					Cash Flows From Financing Activities											
					Capital Contributions	-	-	-	-		-		-	-	-	
					Proceeds New Borrowing								18,735,000		(18,735,000)	
(21,510)	(22,411)	(21,167)	901	(343)	Interest Payments	(7,627,636)	(7,628,537)	(7,385,067)	901	(242,569)	(16,666,794)	(16,629,504)	(15,026,432)	(37,290)	(1,640,362)	
(71,115)	(70,604)	(70,035)	(511)	(1,080)	Principal Payments	(496,851)	(496,340)	(487,639)	(511)	(9,212)	(2,209,044)	(2,203,250)	(20,913,047)	(5,794)	18,704,003	
(92,625)	(93,015)	(91,202)	390	(1,423)	Net Cash Provided by (Used in) Financing Activities	(8,124,487)	(8,124,877)	(7,872,705)	390	(251,782)	(18,875,838)	(18,832,754)	(17,204,479)	(43,084)	(1,671,359)	
					Cash Flows from Capital and Related Activities											
83,915	78,333	158,836	5,582	(74,921)	Non-Operating Revenues	1,852,357	1,846,775	1,065,814	5,582	786,543	2,190,936	2,134,000	2,846,192	56,936	(655,256)	
20,251	20,000	-	251	20,251	Project Reimbursement	40,533	40,282	(0)	251	40,533	40,282	1,645,000	372,527	(1,604,718)	(332,245)	
92	-	(6,654)	92	6,746	Non-Operating Expenses	(258,931)	(259,023)	(262,434)	92	3,503	(521,454)	(516,200)	(883,046)	(5,254)	361,592	
(1,483,906)	(2,710,500)	(1,043,273)	1,226,594	(440,633)	Capital Expenditures	(7,561,360)	(8,787,954)	(4,876,505)	1,226,594	(2,684,855)	(23,426,839)	(24,675,040)	(15,890,144)	1,248,201	(7,536,695)	
(1,379,648)	(2,612,167)	(891,091)	1,232,519	(488,557)	Net Cash Provided By (Used In) Capital and Related Activities	(5,927,401)	(7,159,920)	(4,073,125)	1,232,519	(1,854,276)	(21,717,075)	(21,412,240)	(13,554,471)	(304,835)	(8,162,604)	
					Cash Flows From Investing Activities											
1,184,573	1,182,571	3,069,051	2,002	(1,884,478)	Investments Converting To Cash	7,883,643	7,881,641	6,071,061	2,002	1,812,582	19,415,261	10,070,850	20,946,833	9,344,411	(1,531,572)	
(772,232)	(765,000)	-	(7,232)	(772,232)	Purchased Invesments	(7,014,939)	(7,007,707)	-	(7,232)	(7,014,939)	(6,352,707)	-	(7,780,492)	(6,352,707)	1,427,785	
146,281	132,000	137,025	14,281	9,256	Interest Income	943,916	929,635	676,827	14,281	267,090	1,589,635	619,000	1,520,789	970,635	68,846	
558,622	549,571	3,206,076	9,051	(2,647,454)	Net Cash Provided By (Used In) Investing Activities	1,812,620	1,803,569	6,747,888	9,051	(4,935,268)	14,652,189	10,689,850	14,687,130	3,962,339	(34,941)	
1,836,139	621,604	2,003,099	1,214,535	(166,960)	FUND NET CASH FLOWS	814,805	(399,730)	6,214,635	1,214,535	(5,399,830)	(675,824)	(3,277,531)	10,425,206	2,601,707	(11,101,030)	
1,030,139	021,004	2,003,099	1,214,030	(100,900)	FUND NET CASH FLOWS	014,003	(399,730)	0,214,033	1,214,030	(3,399,030)	(073,024)	(3,211,331)	10,423,200	2,001,707	(11,101,030)	
					DEBT SERVICE RATIO											
2,486,586	2,464,310	1,976,828	22,276	509,758	Total Cash Available For Debt Service	17,835,646	17,339,399	15,900,317	496,247	1,935,329	29,025,481	28,651,699	29,885,633	373,782	(860,152)	
1,570,904	1,571,806	1,408,806	(902)	162,098	Debt Service	10,993,522	10,994,424	9,594,131	(902)	1,399,391	18,870,609	18,832,754	16,930,918	37,855	1,939,691	
1.58	1.57	1.40	0.02	0.18	DSCR	1.62	1.58	1.66	0.05	(0.03)	1.54	1.52	1.77	0.02	(0.23)	

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - SUBURBAN WATER JULY 2019

		MONTH			JULY 2019		Υ	EAR-TO-DATE					FULL YEAR		
Actual	Forecast	Prior Yr	FC Var	PY Var	INCOME STATEMENT	Actual	Forecast	Prior Yr	FC Var	PY Var	Forecast	Budget	Prior Yr	Bud Var	PY Var
					Operating Revenues										
945,607	933,786	888,329	11,821	57,278	Charges For Services	5,579,838	5,568,017	5,281,203	11,821	298,635	9,785,911	9,772,570	9,140,848	13,341	645,063
10,188	8,000	10,844	2,188	(656)	Rent	73,401	71,213	53,226	2,188	20,175	111,213	87,860	98,405	23,353	12,808
20,021	10,000	7,931	10,021	12,090	Other Income	52,642	42,621	76,844	10,021	(24,202)	100,621	129,158	109,632	(28,537)	(9,011)
975,816	951,786	907,104	24,030	68,712	Total Operating Revenues	5,705,881	5,681,851	5,411,273	24,030	294,608	9,997,745	9,989,588	9,348,885	8,157	648,860
					Operating Expenses										
80,882	79,490	76,236	(1,392)	(4,646)	Salaries and Wages	593,607	592,215	629,350	(1,392)	35,743	1,022,669	1,020,940	1,037,882	(1,729)	15,213
139,333	120,700	114,152	(18,633)	(25,181)	General and Administrative	833,837	815,204	742,248	(18,633)	(91,589)	1,418,704	1,399,959	1,261,241	(18,745)	(157,463)
32,654	51,000	6,134	18,346	(26,520)	Utilities	269,337	287,683	268,875	18,346	(462)	601,683	592,750	437,253	(8,933)	(164,430)
66,979	42,048	9,708	(24,931)	(57,271)	Materials and Supplies	195,350	170,419	123,971	(24,931)	(71,379)	492,663	504,580	294,937	11,917	(197,726)
219,206	237,437	214,432	18,231	(4,774)	Miscellaneous Services	1,382,104	1,400,335	1,267,893	18,231	(114,211)	2,866,526	2,905,325	2,703,594	38,799	(162,932)
-	-	-	-	-	Treatment & Transportation	-	-	-	-	-	-	-	-	-	-
229,166	229,167	245,832	1	16,666	Depreciation and Amortization	1,604,162	1,604,163	1,720,824	1	116,662	2,749,994	2,750,000	2,768,133	6	18,139
768,220	759,842	666,493	(8,378)	(101,727)	Total Operating Expenses	4,878,397	4,870,019	4,753,161	(8,378)	(125,236)	9,152,239	9,173,554	8,503,041	21,315	(649,198)
207,596	191,944	240,611	15,652	(33,015)	Operating Income	827,484	811,832	658,112	15,652	169,372	845,506	816,034	845,845	29,472	(339)
					Non-Operating Revenues (Expenses)										
12,100	19,500	18,755	(7,400)	(6,655)	Tapping and Capital Recovery fees	351,375	358,775	127,705	(7,400)	223,670	471,990	467,000	221,405	4,990	250,585
5,239	5,000	11,234	239	(5,995)	Meter Sales	56,069	55,830	44,693	239	11,376	107,907	108,000	85,259	(93)	22,648
19,585	16,000	48,285	3,585	(28,700)	Inspection and Plan Reviews	75,117	71,532	94,198	3,585	(19,081)	160,772	144,000	183,148	16,772	(22,376)
=	-	-	-	-	Project Reimbursements	-	-	(0)	-	0	-	-	(0)	-	0
16,894	12,000	21,504	4,894	(4,610)	Interest Income	103,831	98,937	135,254	4,894	(31,423)	158,937	144,000	255,438	14,937	(96,501)
4,633	-	3,525	4,633	1,108	Other Income	34,781	30,148	15,590	4,633	19,191	35,445	24,000	86,971	11,445	(51,526)
(131,623)	(122,215)	(117,057)	(9,408)	(14,566)	Interest Expense	(895,404)	(885,996)	(816,809)	(9,408)	(78,595)	(1,496,071)	(1,466,582)	(1,576,659)	(29,489)	80,588
		(4,696)		4,696	Other Expense	(3,391)	(3,391)	(6,504)		3,113	(3,391)		(82,141)	(3,391)	78,750
(73,172)	(69,715)	(18,450)	(3,457)	(54,722)	Total Non-Operating Revenues (Expenses)	(277,622)	(274,165)	(405,873)	(3,457)	128,251	(564,411)	(579,582)	(826,579)	15,171	262,168
134,424	122,229	222,160	12,195	(87,736)	Net Income Before Capital Contributions	549,862	537,667	252,239	12,195	297,623	281,095	236,452	19,266	44,643	261,829
157,724	122,227	222,100	12,173	(01,130)	not moonto Solore Oupital Contributions	347,002	337,007	202,207	12,173	211,023	201,073	230,432	17,200	77,043	201,027
	<u> </u>			<u> </u>	Capital Contributions	<u>-</u>	<u> </u>		<u> </u>	<u>-</u>		<u> </u>	1,793,798	<u>-</u> _	(1,793,798)
134,424	122,229	222,160	12,195	(87,736)	NET INCOME	549,862	537,667	252,239	12,195	297,623	281,095	236,452	1,813,064	44,643	(1,531,969)

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - SUBURBAN WATER JULY 2019

		MONTH			JULY 2019		١	EAR-TO-DATE					FULL YEAR		
Actual	Forecast	Prior Yr	FC Var	PY Var	CASH FLOW STATEMENT	Actual	Forecast	Prior Yr	FC Var	PY Var	Forecast	Budget	Prior Yr	Bud Var	PY Var
					Cash Flows From Operating Activities										
975,816	951,786	907,104	24,030	68,712	Operating Revenues	5,705,881	5,681,851	5,411,273	24,030	294,608	9,997,745	9,989,588	9,348,885	8,157	648,860
(539,054)	(530,675)	(420,661)	(8,379)	(118,393)	Operating Expenses (ex D&A)	(3,274,235)	(3,265,856)	(3,032,337)	(8,379)	(241,898)	(6,402,245)	(6,423,554)	(5,734,908)	21,309	(667,337)
35,237	65,940	(2,210,431)	(30,703)	2,245,668	Non-Cash Working Capital Changes	(799,757)	(769,054)	(1,629,305)	(30,703)	829,548	10,946		(5,441,123)	10,946	5,452,069
471,999	487,051	(1,723,988)	(15,052)	2,195,987	Net Cash Provided by (Used in) Operating Activities	1,631,889	1,646,941	749,631	(15,052)	882,258	3,606,446	3,566,034	(1,827,145)	40,412	5,433,591
					Cash Flows From Financing Activities										
					Capital Contributions										
-	-	-	-	-	Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-
(6,245)	(5,215)	(6,889)	(1,030)	644	Interest Payments	(748,261)	(747,231)	(760,493)	(1,030)	12,232	(1,496,071)	(1,466,582)	(1,508,149)	(29,489)	12,078
(30,242)	(30,760)	(29,597)	518	(645)	Principal Payments	(210,544)	(211,062)	(206,070)	518	(4,474)	(1,724,544)	(1,725,120)	(1,693,208)	576	(31,336)
(36,487)	(35,975)	(36,487)	(512)	(1)	Net Cash Provided by (Used in) Financing Activities	(958,805)	(958,293)	(966,563)	(512)	7,758	(3,220,615)	(3,191,702)	(3,201,357)	(28,913)	(19,258)
					Cash Flows from Capital and Related Activities										
41,557	40,500	81,799	1,057	(40,242)	Non-Operating Revenues	517,342	516,285	282,186	1,057	235,156	776,114	743,000	576,783	33,114	199,331
-	-	-	-	-	Project Reimbursement	-	-	(0)	-	0	-	-	(0)	-	0
-	-	(4,119)	-	4,119	Non-Operating Expenses	-	-	(4,119)	-	4,119	-	-	(82,142)	-	82,142
(365,990)	(803,500)	(235,119)	437,510	(130,871)	Capital Expenditures	(1,692,292)	(2,129,802)	(1,968,595)	437,510	276,303	(8,249,662)	(10,210,540)	(5,348,970)	1,960,878	(2,900,692)
(324,433)	(763,000)	(157,439)	438,567	(166,994)	Net Cash Provided By (Used In) Capital and Related Activities	(1,174,950)	(1,613,517)	(1,690,528)	438,567	515,578	(7,473,548)	(9,467,540)	(4,854,329)	1,993,992	(2,619,219)
					Cash Flows From Investing Activities										
665,377	662,571	2,576,516	2,806	(1,911,139)	Investments Converting To Cash	4,507,017	4,504,211	4,598,526	2,806	(91,509)	7,049,635	6,570,850	11,501,487	478,785	(4,451,852)
(246,501)	(240,000)		(6,501)	(246,501)	Purchased Invesments	(1,604,286)	(1,597,785)	-	(6,501)	(1,604,286)	(442,785)		(2,161,990)	(442,785)	1,719,205
16,894	12,000	21,504	4,894	(4,610)	Interest Income	103,831	98,937	135,254	4,894	(31,423)	158,937	144,000	255,438	14,937	(96,501)
435,770	434,571	2,598,020	1,199	(2,162,250)	Net Cash Provided By (Used In) Investing Activities	3,006,562	3,005,363	4,733,780	1,199	(1,727,218)	6,765,787	6,714,850	9,594,935	50,937	(2,829,148)
546,849	122,647	680,107	424,202	(133,258)	FUND NET CASH FLOWS	2,504,696	2,080,494	2,826,320	424,202	(321,624)	(321,930)	(2,378,358)	(287,896)	2,056,428	(34,034)
					DEBT SERVICE RATIO										
495,213	473,611	274,721	21,602	220,492	Total Cash Available For Debt Service	3,052,819	2,557,606	2,206,630	495,213	846,189	4,530,551	4,453,034	4,446,199	77,517	84,352
268,385	268,385	266,780		1,605	Debt Service	1,878,695	1,878,695	1,600,680		278,015	3,220,620	3,191,702	3,201,357	28,918	19,263
1.85	1.76	1.03	0.08	0.82	DSCR	1.62	1.36	1.38	0.26	0.25	1.41	1.40	1.39	0.01	0.02

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - SUBURBAN WATER JULY 2019

		FOREC	CAST VARIAN	NCES - MONTH
INCOME STATEMENT	Actual	Forecast	Variance	Comments
Operating Revenues				
Charges For Services	945,607	933,786	11,821	
Rent	10,188	8,000	2,188	
Other Income	20,021	10,000	10,021	
Total Operating Revenues	975,816	951,786	24,030	Higher user charges and higher miscellaneous revenues
Total opolating Notonado	770,010	7017700	21,000	_
Operating Expenses				
Salaries and Wages	80,882	79,490	(1,392)	
General and Administrative	139,333	120,700	(18,633)	
Jtilities	32,654	51,000	18,346	
Materials and Supplies	66,979	42,048	(24,931)	
Miscellaneous Services	219,206	237,437	18,231	
Treatment & Transportation	217,200	237,137	10,231	
	220.1//	220.1/7	1	
Depreciation and Amortization	229,166	229,167	1	•
Total Operating Expenses	768,220	759,842	(8,378)	Higher G&A and materials/Supplies expenses mostly offset by lower utilities and lower spending on service
Operating Income	207,596	191,944	15,652	Higher operating revenues with a partial offset from slightly higher operating expenses
Non Operating Deserves (Funances)				
Non-Operating Revenues (Expenses)	10 100	10 500	(7.400)	
Tapping and Capital Recovery fees	12,100	19,500	(7,400)	
Meter Sales	5,239	5,000	239	
nspection and Plan Reviews	19,585	16,000	3,585	
Project Reimbursements	-	-		
nterest Income	16,894	12,000	4,894	
Other Income	4,633	-	4,633	
Interest Expense	(131,623)	(122,215)	(9,408)	
Other Expense		-		_
Total Non-Operating Revenues (Expenses)	(73,172)	(69,715)	(3,457)	Lower tapping fees and higher interest expense mostly offset by higher interwst and other incomes
Net Income Before Capital Contributions	134,424	122,229	12,195	Higher operating income partially reduced by lower non-operating revenues
Capital Contributions			-	No contributions forecasted for the month
NET INCOME	134,424	122,229	12,195	<u>.</u>
		FOREC	CAST VARIAN	NCES - MONTH
CASH FLOW STATEMENT	Actual	Forecast	Variance	Comments
Cash Flows From Operating Activities				
Operating Revenues	975,816	951,786	24,030	
Operating Expenses (ex D&A)	(539,054)	(530,675)	(8,379)	
Non-Cash Working Capital Changes	35,237	65,940	(30,703)	
Net Cash Provided by (Used in) Operating Activities	471,999	487,051	(15,052)	Higher income from operations offset by unfavorable working capital movements
	_			-
Cash Flows From Financing Activities				
Capital Contributions	-		-	
Proceeds New Borrowing			-	
nterest Payments	(6,245)	(5,215)	(1,030)	
Principal Payments	(30,242)	(30,760)	518	
Net Cash Provided by (Used in) Financing Activities	(36,487)	(35,975)	(512)	•
Cash Flows from Capital and Related Activities				
Non-Operating Revenues	41,557	40,500	1,057	
Project Reimbursement	41,557	10,000	.,,,,,,	
Non-Operating Expenses				
Capital Expenditures	(365,990)	(803,500)	437,510	Favorable timing effect on capex
				Lower capex
Net Cash Provided By (Used In) Capital and Related Activities	(324,433)	(763,000)	438,567	Euror capex

Net Cash Provided By (Used In) Investing Activities

Cash Flows From Investing Activities Investments Converting To Cash

Purchased Invesments

FUND NET CASH FLOWS

Interest Income

665,377

(246,501)

16,894

435,770

546,849

662,571

(240,000)

12,000

434,571

122,647

(6,501) 4,894

1,199

424,202 Lower capex

2,806 No major variances with respect to net investments

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - SUBURBAN WASTEWATER JULY 2019

		MONTH			JULY 2019		Υ	EAR-TO-DATE					FULL YEAR		
Actual	Forecast	Prior Yr	FC Var	PY Var	INCOME STATEMENT	Actual	Forecast	Prior Yr	FC Var	PY Var	Forecast	Budget	Prior Yr	Bud Var	PY Var
					Operating Revenues										
782,334	790,838	743,979	(8,504)	38,355	Charges For Services	8,324,434	8,332,938	7,871,909	(8,504)	452,525	14,425,933	13,676,460	14,023,121	749,473	402,812
-	-	-	-	-	Rent	•	-	-	-	-	-	-	-	-	-
				-	Other Income		<u> </u>	<u> </u>						<u> </u>	<u> </u>
782,334	790,838	743,979	(8,504)	38,355	Total Operating Revenues	8,324,434	8,332,938	7,871,909	(8,504)	452,525	14,425,933	13,676,460	14,023,121	749,473	402,812
					Operating Expenses										
42,911	44,000	39,587	1,089	(3,324)	Salaries and Wages	310,696	311,785	237,931	1,089	(72,765)	556,785	420,095	462,145	(136,690)	(94,640)
63,401	50,000	43,054	(13,401)	(20,347)	General and Administrative	388,063	374,662	243,775	(13,401)	(144,288)	627,662	474,363	511,800	(153,299)	(115,862)
37,727	25,000	5,279	(12,727)	(32,448)	Utilities	260,120	247,393	160,656	(12,727)	(99,464)	422,393	338,035	290,201	(84,358)	(132,192)
39,794	31,730	40,391	(8,064)	597	Materials and Supplies	189,250	181,186	110,546	(8,064)	(78,704)	350,914	459,324	295,370	108,410	(55,544)
501,845	522,910	601,616	21,065	99,771	Miscellaneous Services	3,650,303	3,671,368	3,684,894	21,065	34,591	6,405,866	6,458,708	6,175,835	52,842	(230,031)
40,447	50,000	166,482	9,553	126,035	Treatment & Transportation	1,975,892	1,985,445	1,531,592	9,553	(444,300)	3,545,445	2,649,555	3,544,003	(895,890)	(1,442)
383,527	383,527	397,865	<u> </u>	14,338	Depreciation and Amortization	2,684,689	2,684,689	2,785,055		100,366	4,602,324	4,540,765	4,490,397	(61,559)	(111,927)
1,109,652	1,107,167	1,294,275	(2,485)	184,623	Total Operating Expenses	9,459,013	9,456,528	8,754,448	(2,485)	(704,565)	16,511,389	15,340,845	15,769,751	(1,170,544)	(741,638)
(327,318)	(316,329)	(550,296)	(10,989)	222,978	Operating Income	(1,134,579)	(1,123,590)	(882,539)	(10,989)	(252,040)	(2,085,456)	(1,664,385)	(1,746,630)	(421,071)	(338,826)
					Non-Operating Revenues (Expenses)										
30,211	30,000	45,278	211	(15,067)	Tapping and Capital Recovery fees	790,052	789,841	459,066	211	330,986	824,841	800,000	523,626	24,841	301,215
-	-	-	-	-	Meter Sales	-	-	-	-	-	-	-	-	-	-
-	-	15,541	-	(15,541)	Inspection and Plan Reviews	-	-	15,852	-	(15,852)	-	25,000	38,363	(25,000)	(38,363)
1,020	-	-	1,020	1,020	Project Reimbursements	21,302	20,282	-	1,020	21,302	20,282	-	-	20,282	20,282
23,135	20,000	25,501	3,135	(2,366)	Interest Income	169,221	166,086	122,160	3,135	47,061	266,086	75,000	217,721	191,086	48,365
5,342	1,000	75	4,342	5,267	Other Income	46,282	41,940	1,010	4,342	45,272	46,940	1,000	394,585	45,940	(347,645)
(18,260)	(17,196)	(16,307)	(1,064)	(1,953)	Interest Expense	(124,003)	(122,939)	(114,653)	(1,064)	(9,350)	(208,913)	(206,346)	(197,000)	(2,567)	(11,913)
(3,210)		(3,979)	(3,210)	769	Other Expense	(20,250)	(17,040)	(7,534)	(3,210)	(12,716)	(17,040)		(8,692)	(17,040)	(8,348)
38,238	33,804	66,109	4,434	(27,871)	Total Non-Operating Revenues (Expenses)	882,604	878,170	475,901	4,434	406,703	932,196	694,654	968,603	237,542	(36,407)
(289,080)	(282,525)	(484,187)	(6,555)	195,107	Net Income Before Capital Contributions	(251,975)	(245,420)	(406,638)	(6,555)	154,663	(1,153,260)	(969,731)	(778,027)	(183,529)	(375,233)
		<u> </u>	<u>-</u> .		Capital Contributions								34,894		(34,894)
(289,080)	(282,525)	(484,187)	(6,555)	195,107	NET INCOME	(251,975)	(245,420)	(406,638)	(6,555)	154,663	(1,153,260)	(969,731)	(743,133)	(183,529)	(410,127)

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - SUBURBAN WASTEWATER JULY 2019

		MONTH			JULY 2019		١	/EAR-TO-DATE					FULL YEAR		
Actual	Forecast	Prior Yr	FC Var	PY Var	CASH FLOW STATEMENT	Actual	Forecast	Prior Yr	FC Var	PY Var	Forecast	Budget	Prior Yr	Bud Var	PY Var
					Cash Flows From Operating Activities						·				
782,334	790,838	743,979	(8,504)	38,355	Operating Revenues	8,324,434	8,332,938	7,871,909	(8,504)	452,525	14,425,933	13,676,460	14,023,121	749,473	402,812
(726,125)	(723,640)	(896,410)	(2,485)	170,285	Operating Expenses (ex D&A)	(6,774,324)	(6,771,839)	(5,969,393)	(2,485)	(804,931)	(11,909,065)	(10,800,080)	(11,279,354)	(1,108,985)	(629,711)
(483,552)	(475,000)	158,459	(8,552)	(642,011)	Non-Cash Working Capital Changes	(909,688)	(901,136)	(538,676)	(8,552)	(371,012)	(391,136)		2,166,774	(391,136)	(2,557,910)
(427,343)	(407,802)	6,028	(19,541)	(433,371)	Net Cash Provided by (Used in) Operating Activities	640,422	659,963	1,363,840	(19,541)	(723,418)	2,125,732	2,876,380	4,910,541	(750,648)	(2,784,809)
					Cash Flows From Financing Activities										
-	-	-	-	-	Capital Contributions	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	Proceeds New Borrowing	-	-	-	-		-	-	-	-	-
(15,265)	(17,196)	(14,277)	1,931	(988)	Interest Payments	(103,853)	(105,784)	(100,713)	1,931	(3,140)	(208,913)	(206,346)	(197,000)	(2,567)	(11,913)
(40,873)	(39,844)	(40,438)	(1,029)	(435)	Principal Payments	(286,307)	(285,278)	(281,569)	(1,029)	(4,738)	(484,500)	(478,130)	(484,839)	(6,370)	339
(56,138)	(57,040)	(54,716)	902	(1,422)	Net Cash Provided by (Used in) Financing Activities	(390,160)	(391,062)	(382,281)	902	(7,879)	(693,413)	(684,476)	(681,839)	(8,937)	(11,574)
					Cash Flows from Capital and Related Activities										
35,553	31,000	60,894	4,553	(25,341)	Non-Operating Revenues	836,334	831,781	475,928	4,553	360,406	871,781	826,000	956,574	45,781	(84,793)
1,020	-	-	1,020	1,020	Project Reimbursement	21,302	20,282	-	1,020	21,302	20,282	-		20,282	20,282
92	-	(2,535)	92	2,627	Non-Operating Expenses	-	(92)	(2,535)	92	2,535	(92)	-	(8,692)	(92)	8,600
(683,928)	(1,416,000)	(283,177)	732,072	(400,751)	Capital Expenditures	(3,293,299)	(4,025,371)	(812,564)	732,072	(2,480,735)	(11,452,292)	(9,619,500)	(2,687,185)	(1,832,792)	(8,765,107)
(647,263)	(1,385,000)	(224,818)	737,737	(422,445)	Net Cash Provided By (Used In) Capital and Related Activities	(2,435,663)	(3,173,400)	(339,171)	737,737	(2,096,492)	(10,560,321)	(8,793,500)	(1,739,303)	(1,766,821)	(8,821,018)
					0.151 5 1 11 11 11 11										
519,196	520,000	492,535	(804)	26,661	Cash Flows From Investing Activities Investments Converting To Cash	3,376,626	3,377,430	1,472,535	(804)	1,904,091	12,365,626	3,500,000	5,445,346	8,865,626	6,920,280
(525,731)	(525,000)	472,333	(731)	(525,731)	Purchased Invesments	(5,410,653)	(5,409,922)	1,472,333	(731)	(5,410,653)	(5,909,922)	3,300,000	(5,618,502)	(5,909,922)	(291,420)
23,135	20,000	25,501	3,135	(2,366)	Interest Income	169,221	166,086	122,160	3,135	47,061	266,086	75,000	217,721	191,086	48,365
16,600	15,000	518,036	1,600	(501,436)	Net Cash Provided By (Used In) Investing Activities	(1,864,806)	(1,866,406)	1,594,695	1,600	(3,459,501)	6,721,790	3,575,000	44,565	3,146,790	6,677,225
10,000	15,000	310,030	1,000	(001,100)	Net dusti i fortaca by (baca iii) investing retivities	(1,004,000)	(1,000,400)	1,074,075	1,000	(3,737,301)	0,721,770	3,373,000	44,303	3,140,770	0,011,223
(1,114,144)	(1,834,842)	244,530	720,698	(1,358,674)	FUND NET CASH FLOWS	(4,050,207)	(4,770,905)	2,237,083	720,698	(6,287,290)	(2,406,212)	(3,026,596)	2,533,964	620,384	(4,940,176)
			_				_	_							
					DEBT SERVICE RATIO										
114,897	118,198	(66,036)	(3,301)	180,933	Total Cash Available For Debt Service	2,555,665	2,558,966	2,500,604	(3,301)	55,061	3,654,735	3,777,380	3,918,062	(122,645)	(263,327)
56,138	57,040	54,716	(902)	1,422	Debt Service	390,160	391,062	382,281	(902)	7,879	693,413	684,476	681,839	8,937	11,574
2.05	2.07	(1.21)	(0.03)	3.25	DSCR	6.55	6.54	6.54	0.01	0.01	5.27	5.52	5.75	(0.25)	(0.48)

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - SUBURBAN WASTEWATER JULY 2019

		FOREC	AST VARIAN	NCES - MONTH
INCOME STATEMENT	Actual	Forecast	Variance	Comments
Operating Revenues				
Charges For Services	782,334	790,838	(8,504)	Lower signatory charges mostly offset by higher industrial charges
Rent			-	
Other Income		-	-	
Total Operating Revenues	782,334	790,838	(8,504)	Slightly lower user charges
Operating Expenses				
Salaries and Wages	42,911	44,000	1,089	
Seneral and Administrative	63,401	50,000	(13,401)	Higher Internal Service Charges
Itilities	37,727	25,000	(12,727)	This monar out not onargos
laterials and Supplies	39,794	31,730	(8,064)	Higher equipment purchases
iscellaneous Services	501,845	522,910	21,065	Lower maintenace services
reatment & Transportation		50,000	9,553	Edwar maintenace services
	40,447		9,000	
epreciation and Amortization	383,527	383,527		Unfavorable enending on CSA utilities and equipment almost effect by favorable enending for colories
Total Operating Expenses	1,109,652	1,107,167	(2,485)	Unfavorable spending on G&A, utilities, and equipment, almost offset by favorable spendin for salaries & wages, maintenance services, and treatment & transportation
perating Income	(327,318)	(316,329)	(10,989)	Lower operating revenues and slightly higher operating expenses
on-Operating Revenues (Expenses)				
apping and Capital Recovery fees	30,211	30,000	211	
Appling and Capital Recovery lees Meter Sales	30,211	30,000	211	
nspection and Plan Reviews	•			
	1,020		1,020	
roject Reimbursements Iterest Income	23,135	20,000	3,135	
other Income				
nter income nterest Expense	5,342 (18,260)	1,000 (17,196)	4,342	
ther Expense		(17,190)	(1,064)	
Total Non-Operating Revenues (Expenses)	(3,210)	33,804	(3,210) 4,434	Higher interest income
Total Non-Operating Revenues (Expenses)	30,230	33,004	4,434	Tighe interest moone
let Income Before Capital Contributions	(289,080)	(282,525)	(6,555)	
Capital Contributions			-	
IET INCOME	(289,080)	(282,525)	(6,555)	Lower operating income offset by higher interest income
		FOREC	AST VARIAN	ICES - MONTH
CASH FLOW STATEMENT	Actual	Forecast	Variance	Comments
ash Flows From Operating Activities				
perating Revenues	782,334	790,838	(8,504)	
perating Expenses (ex D&A)	(726,125)	(723,640)	(2,485)	
on-Cash Working Capital Changes	(483,552)	(475,000)	(8,552)	
Net Cash Provided by (Used in) Operating Activities	(427,343)	(407,802)	(19,541)	Lower cash from operating income and unfavorable working capital movements
Cash Flows From Financing Activities				
apital Contributions	-	-	-	
roceeds New Borrowing	-		-	
nterest Payments	(15,265)	(17,196)	1,931	
rincipal Payments	(40,873)	(39,844)	(1,029)	
Net Cash Provided by (Used in) Financing Activities	(56,138)	(57,040)	902	
ash Flows from Capital and Related Activities				
	35 553	31 000	4 553	
Non-Operating Revenues	35,553 1.020	31,000	4,553 1.020	
Cash Flows from Capital and Related Activities Non-Operating Revenues Project Reimbursement Non-Operating Expenses	35,553 1,020 92	31,000	4,553 1,020 92	

(647,263) (1,385,000)

(1,114,144) (1,834,842)

520,000

(525,000)

20,000

15,000

519,196

(525,731)

23,135

16,600

737,737

(804) (731) 3,135

1,600

720,698 Lower capex

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

Net Cash Provided By (Used In) Investing Activities

Cash Flows From Investing Activities Investments Converting To Cash

Purchased Invesments

FUND NET CASH FLOWS

Interest Income

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - CITY DIVISION JULY 2019

		MONTH			JULY 2019		,	YEAR-TO-DATE					FULL YEAR		
Actual	Forecast	Prior Yr	FC Var	PY Var	INCOME STATEMENT	Actual	Forecast	Prior Yr	FC Var	PY Var	Forecast	Budget	Prior Yr	Bud Var	PY Var
					Operating Revenues										
3,341,378	3,334,250	3,010,995	7,128	330,383	Charges For Services	21,387,523	21,380,395	19,834,527	7,128	1,552,996	37,090,226	37,022,206	36,450,498	68,020	639,728
-	-	-	-	-	Rent	-	-	-	-	-	-	-	-	-	-
36,575	47,309	34,633	(10,734)	1,942	Other Income	274,834	285,568	339,055	(10,734)	(64,221)	531,111	567,706	357,112	(36,595)	173,999
3,377,953	3,381,559	3,045,628	(3,606)	332,325	Total Operating Revenues	21,662,357	21,665,963	20,173,582	(3,606)	1,488,775	37,621,337	37,589,912	36,807,610	31,425	813,727
					Operating Expenses										
438,861	443,420	425,802	4,559	(13,059)	Salaries and Wages	3,180,091	3,184,650	3,118,740	4,559	(61,351)	5,606,749	5,653,796	5,417,629	47,047	(189,120)
687,010	686,610	606,761	(400)	(80,249)	General and Administrative	4,197,479	4,197,079	3,812,875	(400)	(384,604)	6,840,123	6,407,601	6,792,863	(432,522)	(47,260)
211,141	174,605	57,966	(36,536)	(153,175)	Utilities	1,330,017	1,293,481	1,155,741	(36,536)	(174,276)	2,168,481	2,095,255	1,970,383	(73,226)	(198,098)
103,687	118,727	90,945	15,040	(12,742)	Materials and Supplies	680,097	695,137	596,092	15,040	(84,005)	1,429,483	1,597,216	1,197,148	167,733	(232,335)
128,147	160,231	156,680	32,084	28,533	Miscellaneous Services	939,771	971,855	751,753	32,084	(188,018)	2,031,779	1,988,845	1,801,414	(42,934)	(230,365)
4,628	-	4,624	(4,628)	(4)	Treatment & Transportation	4,628	-	4,624	(4,628)	(4)	12,000	12,000	9,827	-	(2,173)
490,000	490,000	466,667	<u> </u>	(23,333)	Depreciation and Amortization	3,430,000	3,430,000	3,266,669	<u> </u>	(163,331)	5,880,000	5,880,000	5,864,433	<u> </u>	(15,567)
2,063,474	2,073,593	1,809,445	10,119	(254,029)	Total Operating Expenses	13,762,083	13,772,202	12,706,493	10,119	(1,055,590)	23,968,615	23,634,713	23,053,697	(333,902)	(914,918)
1,314,479	1,307,966	1,236,183	6,513	78,296	Operating Income	7,900,274	7,893,761	7,467,088	6,513	433,186	13,652,722	13,955,199	13,753,913	(302,477)	(101,191)
-	-	-			Non-Operating Revenues (Expenses)										
-	-	10,574	-	(10,574)	Tapping and Capital Recovery fees	440,794	440,794	254,325	-	186,469	315,294	324,000	563,922	(8,706)	(248,628)
-	-	272	-	(272)	Meter Sales	8,159	8,159	5,404	-	2,755	13,159	12,000	8,397	1,159	4,762
1,000	5,000	1,200	(4,000)	(200)	Inspection and Plan Reviews	20,183	24,183	21,895	(4,000)	(1,712)	179,846	207,000	539,698	(27,154)	(359,852)
19,231	20,000	-	(769)	19,231	Project Reimbursements	19,231	20,000	-	(769)	19,231	20,000	1,645,000	372,527	(1,625,000)	(352,527)
106,252	100,000	90,019	6,252	16,233	Interest Income	670,864	664,612	419,412	6,252	251,452	1,164,612	400,000	1,047,630	764,612	116,982
5,805	1,833	4,097	3,972	1,708	Other Income	29,545	25,573	26,077	3,972	3,468	34,742	22,000	200,818	12,742	(166,076)
(1,419,385)	(1,420,000)	(1,402,734)	615	(16,651)	Interest Expense	(10,188,236)	(10,188,851)	(9,819,138)	615	(369,098)	(18,943,851)	(18,956,576)	(18,810,413)	12,725	(133,438)
(57,844)	(50,000)	(179,266)	(7,844)	121,422	Other Expense	(215,302)	(207,458)	(789,842)	(7,844)	574,540	(457,458)	(1,645,000)	(3,810,644)	1,187,542	3,353,186
(1,344,941)	(1,343,167)	(1,475,837)	(1,774)	130,896	Total Non-Operating Revenues (Expenses)	(9,214,762)	(9,212,988)	(9,881,867)	(1,774)	667,105	(17,673,656)	(17,991,576)	(19,888,065)	317,920	2,214,409
(30,462)	(35,201)	(239,654)	4,739	209,192	Net Income Before Capital Contributions	(1,314,488)	(1,319,227)	(2,414,778)	4,739	1,100,290	(4,020,934)	(4,036,377)	(6,134,152)	15,443	2,113,218
	<u>-</u>			<u> </u>	Capital Contributions			<u> </u>	<u>-</u>	-				<u>-</u> .	<u> </u>
(20.4(2)	(25 201)	(220 (54)	4.700	200 102	NET INCOME	(1.214.400)	(1 210 227)	(2.414.770)	4.720	1 100 200	(4.020.024)	(4.02/.277)	(/ 124 152)	15 442	2 112 210
(30,462)	(35,201)	(239,654)	4,739	209,192	NET INCOME	(1,314,488)	(1,319,227)	(2,414,778)	4,739	1,100,290	(4,020,934)	(4,036,377)	(6,134,152)	15,443	2,113,218

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - CITY DIVISION JULY 2019

		MONTH			JULY 2019		١	/EAR-TO-DATE					FULL YEAR		
Actual	Forecast	Prior Yr	FC Var	PY Var	CASH FLOW STATEMENT	Actual	Forecast	Prior Yr	FC Var	PY Var	Forecast	Budget	Prior Yr	Bud Var	PY Var
					Cash Flows From Operating Activities										
3,377,953	3,381,559	3,045,628	(3,606)	332,325	Operating Revenues	21,662,357	21,665,963	20,173,582	(3,606)	1,488,775	37,621,337	37,589,912	36,807,610	31,425	813,727
(1,573,474)	(1,583,593)	(1,342,778)	10,119	(230,696)	Operating Expenses (ex D&A)	(10,332,083)	(10,342,202)	(9,439,824)	10,119	(892,259)	(18,088,615)	(17,754,713)	(17,189,264)	(333,902)	(899,351)
900,655	900,000	(205,573)	655	1,106,228	Non-Cash Working Capital Changes	(548,512)	(549,167)	(1,434,650)	655	886,138			3,795,284		(3,795,284)
2,705,134	2,697,966	1,497,277	7,168	1,207,857	Net Cash Provided by (Used in) Operating Activities	10,781,762	10,774,594	9,299,107	7,168	1,482,655	19,532,722	19,835,199	23,413,630	(302,477)	(3,880,908)
					Cash Flows From Financing Activities										
-	-	-	-	-	Capital Contributions	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	Proceeds New Borrowing	-	-	-	-	-	-	-	18,735,000	-	(18,735,000)
-	-	-	-	-	Interest Payments	(6,775,522)	(6,775,522)	(6,523,861)	-	(251,661)	(14,961,810)	(14,956,576)	(13,321,283)	(5,234)	(1,640,527)
					Principal Payments								(18,735,000)		18,735,000
				<u> </u>	Net Cash Provided by (Used in) Financing Activities	(6,775,522)	(6,775,522)	(6,523,861)		(251,661)	(14,961,810)	(14,956,576)	(13,321,283)	(5,234)	(1,640,527)
					Cash Flows from Capital and Related Activities										
6,805	6,833	16,143	(28)	(9,338)	Non-Operating Revenues	498,681	498,709	307,701	(28)	190,980	543,041	565,000	1,312,835	(21,959)	(769,794)
19,231	20,000	-	(769)	19,231	Project Reimbursement	19,231	20,000	-	(769)	19,231	20,000	1,645,000	372,527	(1,625,000)	(352,527)
	-	-			Non-Operating Expenses	(258,931)	(258,931)	(255,780)		(3,151)	(521,362)	(516,200)	(792,212)	(5,162)	270,850
(433,988)	(491,000)	(524,978)	57,012	90,990	Capital Expenditures	(2,575,769)	(2,632,781)	(2,095,347)	57,012	(480,422)	(3,724,885)	(4,845,000)	(7,853,989)	1,120,115	4,129,104
(407,952)	(464,167)	(508,834)	56,215	100,882	Net Cash Provided By (Used In) Capital and Related Activities	(2,316,788)	(2,373,003)	(2,043,426)	56,215	(273,362)	(3,683,206)	(3,151,200)	(6,960,839)	(532,006)	3,277,633
					Cook Flour Form broading Astribia										
					Cash Flows From Investing Activities Investments Converting To Cash								4,000,000		(4,000,000)
-	-	-	-	-	Purchased Invesments	-	-	-	-	-	-	-	4,000,000	-	(4,000,000)
106,252	100,000	90,019	6,252	16,233	Interest Income	670,864	664,612	419,412	6,252	251,452	1,164,612	400,000	1,047,630	764,612	116,982
106,252	100,000	90,019	6,252	16,233	Net Cash Provided By (Used In) Investing Activities	670,864	664,612	419,412	6,252	251,452	1,164,612	400,000	5,047,630	764,612	(3,883,018)
100,232	100,000	70,017	0,232	10,233	Net cash i tovided by (osed iii) livesting Activities	070,004	004,012	417,412	0,232	231,432	1,104,012	400,000	3,047,030	704,012	(3,003,010)
2,403,434	2,333,799	1,078,462	69,635	1,324,972	FUND NET CASH FLOWS	2,360,316	2,290,681	1,151,232	69,635	1,209,084	2,052,318	2,127,423	8,179,138	(75,105)	(6,126,820)

					DEBT SERVICE RATIO										
1,876,476	1,872,501	1,768,143	3,975	108,333	Total Cash Available For Debt Service	12,227,162	12,222,827	11,193,084	4,335	1,034,078	20,840,195	20,421,285	21,521,372	418,910	(681,177)
1,246,381	1,246,381	1,087,310	<u>-</u>	159,071	Debt Service	8,724,667	8,724,667	7,611,170		1,113,497	14,956,576	14,956,576	13,047,722		1,908,854
1.51	1.50	1.63	0.00	(0.12)	DSCR	1.40	1.40	1.47	0.00	(0.07)	1.39	1.37	1.65	0.03	(0.26)

LEHIGH COUNTY AUTHORITY FINANCIAL STATEMENTS - CITY DIVISION JULY 2019

			JULY 20	אוזא
		FOREC	CAST VARIAN	NCES - MONTH
INCOME STATEMENT	Actual	Forecast	Variance	Comments
Operating Revenues				
Charges For Services	3,341,378	3,334,250	7,128	
Rent	-			
Other Income	36,575	47,309	(10,734)	
Total Operating Revenues	3,377,953	3,381,559	(3,606)	
Operating Expenses				
Salaries and Wages	438,861	443,420	4,559	
General and Administrative	687,010	686,610	(400)	
Itilities	211,141	174,605	(36,536)	
Materials and Supplies	103,687	118,727	15,040	
discellaneous Services	128,147	160,231	32,084	
reatment & Transportation		100,231	(4,628)	
	4,628 490,000	490,000	(4,020)	
Depreciation and Amortization	490,000	490,000		Lillahor utality ananding and higher treatment 0 transportation code more than effect by layer colories 0
Total Operating Expenses	2,063,474	2,073,593	10,119	Higher utrility spending and higher treatmant & transportation costs more than offset by lower salaries & wages, along with lower supplies and services
Operating Income	1,314,479	1,307,966	6,513	Lower operating expenses to partially offset lower operating revenues
				•
Non-Operating Revenues (Expenses)				
Tapping and Capital Recovery fees	-	-	-	
Meter Sales	-		-	
spection and Plan Reviews	1,000	5,000	(4,000)	
roject Reimbursements	19,231	20,000	(769)	
nterest Income	106,252	100,000	6,252	
Other Income	5,805	1,833	3,972	
nterest Expense	(1,419,385)	(1,420,000)	615	
Other Expense	(57,844)	(50,000)	(7,844)	<u>-</u>
Total Non-Operating Revenues (Expenses)	(1,344,941)	(1,343,167)	(1,774)	
let Income Before Capital Contributions	(30,462)	(35,201)	4,739	
Capital Contributions		•	-	
NET INCOME	(30,462)	(35,201)	4,739	
		FORE	CACTIVADIAN	: NOTE MONTH
CASH FLOW STATEMENT	Actual	Forecast	Variance	NCES - MONTH Comments
Cash Flows From Operating Activities				
Operating Revenues	3,377,953	3,381,559	(3,606)	
operating Expenses (ex D&A)	(1,573,474)	(1,583,593)	10,119	
on-Cash Working Capital Changes	900,655	900,000	655	
Net Cash Provided by (Used in) Operating Activities	2,705,134	2,697,966	7,168	
Cash Flows From Financing Activities				
Capital Contributions	-			
roceeds New Borrowing	-			
nterest Payments	-			
rincipal Payments	-			
Net Cash Provided by (Used in) Financing Activities	-	-		.
Cash Flows from Capital and Related Activities				
Non-Operating Revenues	6,805	6,833	(28)	
Project Reimbursement	19,231	20,000	(769)	
Non-Operating Expenses	17,231	_0,000	(, 57)	
Capital Expenditures	(433,988)	(491,000)	57,012	Favorable timing on capex
Not Cash Provided By (Used In) Canital and Related Activities	(407,952)	(464 167)	56 215	

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

Net Cash Provided By (Used In) Investing Activities

Cash Flows From Investing Activities Investments Converting To Cash Purchased Invesments Interest Income

FUND NET CASH FLOWS

(407,952)

106,252

106,252

2,403,434

(464,167)

100,000

100,000

2,333,799

56,215

6,252

6,252

69,635

CASH & INVESTMENT SUMMARY JULY 2019 YTD CHANGES IN CASH BALANCES

			6 **
	Suburban	Suburban	City
	Water	Wastewater	Division
CURRENT MONTH			
CASH			
Operating	11,139,595.47	2,109,076.32	16,359,702.03
Capital	5,404,792.34	6,894,835.90	1,946,334.90
Restricted	1,581,328.14	337,774.04	36,319,582.96
Escrow	4,600,212.30	-	6,361.54
Total Cash	22,725,928.25	9,341,686.26	54,631,981.43
INVESTMENTS	22,723,320.23	3,341,000.20	34,031,301.43
Operating	2,136,622.88	_	_
Capital	1,744,267.24	0 400 721 40	_
Restricted	25,526.72	8,489,731.40	2 040 640 00
Total Investments	3,906,416.84	8,489,731.40	3,940,640.00 3,940,640.00
TOTAL CASH & INVESTMENTS			
TOTAL CASH & INVESTIMENTS	26,632,345.09	17,831,417.66	58,572,621.43
BEGINNING OF YEAR			
CASH			
	0 202 060 60	F 214 OF1 71	10 017 720 22
Operating	8,283,969.69	5,314,951.71	18,017,729.33
Capital	5,772,084.72	7,739,379.19	42,935.90
Restricted	1,564,965.39	337,562.23	34,161,520.50
Escrow	4,990,657.44	-	6,361.22
Total Cash	20,611,677.24	13,391,893.13	52,228,546.95
INVESTMENTS			
Operating	3,356,991.39	-	-
Capital	3,426,629.74	6,455,704.16	-
Restricted	25,521.88		3,940,640.00
Total Investments	6,809,143.01	6,455,704.16	3,940,640.00
TOTAL CASH & INVESTMENTS	27,420,820.25	19,847,597.29	56,169,186.95
YTD CHANGE IN BALANCES			
CASH			
Operating	2,855,625.78	(3,205,875.39)	(1,658,027.30)
Capital	(367,292.38)	(844,543.29)	1,903,399.00
Restricted	16,362.75	211.81	2,158,062.46
Escrow	(390,445.14)	-	0.32
Total Cash	2,114,251.01	(4,050,206.87)	2,403,434.48
INVESTMENTS			
Operating	(1,220,368.51)	-	-
Capital	(1,682,362.50)	2,034,027.24	-
Restricted	4.84	-	-
Total Investments	(2,902,726.17)	2,034,027.24	-
TOTAL CASH & INVESTMENTS	(788,475.16)	(2,016,179.63)	2,403,434.48
CASH WITHOUT ESCROW	2,504,696.15	(4,050,206.87)	2,403,434.16

Lehigh County Authority

System Operations Review - July 2019

Presented: August 26, 2019

Critical Activities	System	<u>Description</u>	<u>Jul-19</u>	2019 Totals	2018 Totals	<u>Permit</u>
			Daily Avg (MGD)	Daily Avg (MGD)	Daily Avg (MGD)	Daily Max (MGD)
Water Production	Allentown	Total	22.02	21.65	21.48	39.0
		Schantz Spring	8.10	7.99	6.90	9.0
		Crystal Spring	3.89	3.89	3.88	4.0
		Little Lehigh Creek	10.03	9.76	10.69	30.0
		Lehigh River	0.00	0.00	0.02	28.0
	Central Lehigh	Total	10.29	9.95	9.46	19.04 MGD Av
		Feed from Allentown	7.03	7.06	6.74	7.0 MGD Avg 10.5 MGD Max
		Well Production (CLD)	3.26	2.89	2.71	8.54 MGD Av
		Sum of all (12) other Suburban Water Systems	0.17	0.18	0.18	1.71 Sum of all wells
Wastewater Treatment		Kline's Island	40.39	41.25	36.08	40.0
		Pretreatment Plant	6.88	6.50	5.46	5.75 (desig capacity)
		Sum of all (5) other Suburban WW Systems	0.20	0.20	0.20	0.36
			<u>Jul-19</u>	2019 Totals	2018 Totals	2017 Totals
recipitation Totals (inche	s)		9.55	41.5	66.96	50.18
ompliance Reports ubmitted to Allentown			29	183	285	291
otices of Violation (NOVs)		(Allentown + Suburban)	0	1	1	3
anitary Sewer Overflows (S	SOs)/Bypasses	(Allentown + Suburban)	6	29	78	22
ain Breaks Repaired		Allentown	1	17	33	19
		Suburban	0	3	23	12
ustomer Service Phone Inqu	iries	(Allentown + Suburban)	1,889	14,143	26,440	27,313
ater Shutoffs for Non-Paym	ent	(Allentown + Suburban)	156	1,033	1,838	1,577
njury Accidents		(Allentown + Suburban)	1	7	14	8
injury mooruomes			l	i e	i	
mergency Declarations		Allentown	(1)@ \$136,877	(2)@ \$152,053	(5) @ \$76,469	(2) @ \$51,23

<u>Significant Repairs/Upgrades</u>: Recent problems at the Pine Lakes development have led to several changes attempting to rectify the problems. In one of the water storage tanks, a level sensor that was still under warrantee was bad and was replaced. SCADA upgrades were in the process of installation when the last low pressure issue occurred. A second storage tank from the recent upgrade project is now on-line so there are redundant level sensors should one go bad.

<u>Description of NOVs and/or SSOs:</u> There were two (2) bypasses in July 2019, with both occurring at Heidelberg Heights. The bypasses happened on 7/12 and 7/22. There were four (4) SSOs that were recorded during July. Two (2) of them happened on 7/22, one (1) in the City Lehigh Parkway and one (1) in Upper Milford. Two (2) other bypasses occurred in Upper Macungie Township on 7/29. There were no (0) NOVs issued during July 2019.

Other Highlights: As of 8/16, three (3) watershed monitoring stations are running and three (3) more are to be running by the end of August. In September, automatic data transfers back to LCA Main Office will begin. Calibrations of the flow gauging stations are underway, and they are expected to run into the first half of 2020.

Western Lehigh Interceptor High Flow Emergency Project

Status as of 8/19/2019

Phase 1 MH Start Point U84-7 MH End Point U6

CCTV Work and Cleaning/Grouting: 100% Complete

<u>Phase 2</u> MH Start Point U6 MH End Point L274

Remediation work began in Phase 2 on 7/1/2019.

Nine (9) segments need to be CCTV'd yet. Short bypasses are needed.

CCTV Work and Cleaning/Grouting: ~70% Complete

<u>Phase 3</u> MH Start Point L274 MH End Point L255 (SCPS)

Bypass system is set up and ready. Start-up scheduled 8/19.

Cleaning/CCTV work and grouting repairs expected to take 4-6 weeks.

Phase 3 completion will be a priority so equipment can be removed ASAP.

Phase 4 MH Start Point L255 (SCPS) MH End Point L90 (Alburtis Line)

Several segments remain to be CCTV'd.

Large amounts of debris in upstream segments need to be removed ASAP.

Phase 5 MH Start Point L90 MH End Point L1 (Meter Station 5)

Several segments remain to be CCTV'd.

<u>Phase 6</u> MH Start Point L1 MH End Point B1 (PPS)

Several segments remain to be CCTV'd.

Other than Phase 3, only a short list of segments remain within the entire project area that have not been CCTV'd yet. The remaining areas all have site specific problems to overcome, i.e. access problems, area is flooded, etc. As far as cleaning and grouting work is concerned, the vast majority of Phase 2 has been completed. No cleaning and grouting has been done at all for Phases 3-6.

The remaining timetable for the project in 2019 still has a lot of variables. We anticipate Phase 3 taking no longer than four weeks, but depending on what's found during the camera inspections, that may take longer. After Phase 3 is completed, Phase 2 will need to be finished but is currently almost done anyway. Completing Phases 2 and 3 could realistically take two months, and maybe longer, which will get us to mid-October. Bad weather could delay things even further as we are in hurricane season.

As mentioned above, there are significant amounts of debris in the line below SCPS and this should all be removed this year yet. We may not complete all of Phase 4 but we should do a good portion of it this year yet. Assuming the partial completion of Phase 4 takes an additional month, we are now approaching Thanksgiving. Once the cold weather arrives, this project will become nearly impossible to continue so the remainder would need to be delayed until spring when the weather breaks.