



BOARD MEETING AGENDA – June 28, 2021 – 12:00 p.m.

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

1. Call to Order

- NOTICE OF MEETING RECORDINGS

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

- *Public Participation Sign-In Request*

2. Review of Agenda / Executive Sessions

3. Approval of Minutes

- *May 24, 2021 Board meeting minutes*

4. Public Comments

5. Action / Discussion Items:

FINANCE AND ADMINISTRATION

- *Suburban Division SCADA System Improvements (Approval) (blue) (digital Board packet, page 7-10)*

WATER

- *CLD Upper System Water Supply Upgrade – Developer Cost-Sharing Agreement (discussion only)*

WASTEWATER

- *Kline's Island Sewer System –Interim Act 537 Plan & Trexlertown Upgrade Project Update (discussion only)*

6. Monthly Project Updates / Information Items (1st Board meeting per month)

7. Monthly Financial Review (2nd Board meeting per month) – **May report attached**

8. Monthly System Operations Overview (2nd Board meeting per month) – **May report attached**

9. Staff Comments

10. Solicitor's Comments

11. Public Comments / Other Comments

12. Executive Sessions

13. Adjournment

UPCOMING BOARD MEETINGS		
July 12, 2021	July 26, 2021	August 9, 2021

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

May 24, 2021

The Regular Meeting of the Lehigh County Authority Board of Directors was called to order at 12:02 p.m. on Monday, May 24, 2021, Chairman Brian Nagle presiding. The meeting was held via video and audio advanced communication technology ("ACT"), using the Zoom internet application, including telephone option, due to the COVID-19 pandemic emergency. Each Board member and other attendees of the meeting were able to hear each other attendee and be heard by each other attendee. The public could also participate in the meeting via ACT, using the Zoom internet application, including telephone option. A Roll Call of Board members present was taken. Chairman Brian Nagle, Richard Bohner, Norma Cusick, Kevin Baker, Linda Rosenfeld, Scott Bieber and Amir Famili were present for the duration of the meeting.

Solicitor Michael Gaul of KingSpry was present along with Authority Staff, Liesel Gross, John Parsons, Chris Moughan, Chuck Volk, Susan Sampson, Andrew Moore, Phil DePoe, Lisa Miller and Todd Marion.

Chairman Nagle stated that the Board received their electronic copy of the Board packet in advance and asked if they also received their hard copy of the packet. Mr. Nagle also stated that the Board received copies of the approved 2022-2026 Capital Plans along with the approved 2021 Budget. He asked if everyone received these items to which the Board members replied yes.

REVIEW OF AGENDA

Liesel Gross stated there are no changes to the agenda and there are a couple of items for Staff Comments. An Executive Session is scheduled to follow the regular meeting to discuss matters of personnel and also legal matters with the Solicitor.

APPROVAL OF MINUTES

May 10, 2021 Meeting Minutes

Richard Bohner noted some grammatical errors. On a motion by Richard Bohner, seconded by Norma Cusick, the Board approved the minutes of the May 10, 2021 Board meeting as corrected (5-0). Scott Bieber and Kevin Baker abstained.

PUBLIC COMMENTS

None.

ACTION AND DISCUSSION ITEMS

Allentown Division – Kline’s Island WWTP: Solids Process Boiler and HVAC System Upgrade Project – Design Phase Authorization

Chairman Nagle noted that a revised Capital Project Authorization form was issued with the correct phase of the project noted.

Chuck Volk gave an overview of the project and described the process to replace the boilers and associated HVAC system at Kline’s Island Wastewater Treatment Plant. Two of the boilers that heat the anaerobic digesters are located in the basement beneath the causeway that connects the digester control building with the dewatering building. This is a corrosive environment which

accelerates the aging of the equipment. There is less than 4 feet of clearance around the boilers, which makes maintenance difficult and potentially a safety issue. The Pa. Department of Environmental Protection requires the digesters to be heated to 95 degrees to achieve Class B biosolids pathogen reduction and to stabilize the sludge to be dewatered. If this process is interrupted in a major way, the sludge would have to be landfilled, which is much more costly than the current land-application process. Some design errors occurred when the boilers were installed in 1995, including a miscalculation of the gas output of the digesters, which causes challenges for the plant operational staff. Mr. Volk explained that the plant staff have done a great job modifying the system to operate properly over the years, but the equipment is now at the end of its useful life and needs to be replaced. Mr. Volk said this project will replace and consolidate the three old boilers into two that are sized adequately to handle whole load. The new boilers will be placed at grade level in a new structure that will provide adequate clearance for maintenance and safety considerations. Mr. Volk said the Authority authorized GHD to perform preliminary engineering work to develop a conceptual Basis of Design Report for the replacement of the boilers and associated HVAC equipment. GHD was selected based on their prior experience with anaerobic digester rehabilitation projects at the facility, and their knowledge of the solids processing system.

Amir Famili asked if corrosion from the off gas is part of the challenge creating the need for this project. Mr. Volk said the corrosion issue is a problem with the HVAC system and not so much for the boilers. Chairman Nagle asked if the Authority received any DEP violations as a result of the difficulty operating these boilers. Mr. Volk said no violations have occurred as a result of the boilers due to staff efforts to modify the system to allow for proper heating of the sludge.

On a motion by Norma Cusick, seconded by Linda Rosenfeld, the Board approved the Capital Project Authorization for the Design Phase in the amount of \$175,159.00 which includes the Professional Services Authorization for the Design Phase Engineering to GHD, Inc. in the amount of \$147,659.00 (7-0).

MONTHLY FINANCIAL REVIEW

Liesel Gross stated that Ed Klein is not present at today's meeting and recommends holding any Board questions regarding the April Monthly Financial review until the June 14 Board meeting. A copy of the presentation was sent to the Board and Staff, and is also posted to the Authority's website.

MONTHLY SYSTEMS OPERATIONS OVERVIEW

John Parsons reviewed the April 2021 Monthly Systems Overview report, noting that despite a dry spring season, Schantz Spring is still producing well. Mr. Parsons said that the precipitation level in our area is very low and the Authority will be monitoring closely. A Pennsylvania drought conditions map was presented showing the Authority's service area as being abnormally dry. Conditions of groundwater and surface water are continually monitored and a Drought Watershed Monitoring Report posted online.

STAFF COMMENTS

Liesel Gross reported that last week a few municipalities and municipal authorities had a joint meeting with the Pennsylvania Municipal Retirement System (PMRS) to discuss their financial reporting challenges and delays that the municipalities have been experiencing. There has been quite a large turnover of employees at PMRS, including the Executive Director, CFO, Client Relations Manager, Program Manager, and several other staff members. They assured everyone on

the call that the organization is getting back on track, but as previously discussed, the Authority's audit will be delayed until September or October until PMRS data is received. Chairman Nagle asked why the large turnover in staff had occurred. He said the Board needs to feel comfortable and safe knowing the funds are being managed properly. Ms. Gross said PMRS has struggled with succession planning and technology implementation for quite some time. From a financial performance perspective, however, the funds are healthy and performing well.

As a follow up to the conversation from the previous meeting regarding the restrictions related to the COVID-19 pandemic, Ms. Gross reported that the Authority has made some internal changes that will go into effect June 1st. Employees will be working in the office a little bit more, while still maintaining the flexibility to work remotely and maintain social distancing. There will also be some limited opening of the offices for public access. Ms. Gross asked the Board member how they would like to proceed with future public meetings. She stated that Solicitor Gaul has done more research on remote meetings for municipal authorities and would like him to comment, along with Chris Moughan, who has been working on the technology to allow for hybrid meetings including a mix of in-person and virtual attendance options.

Chris Moughan reported that the Authority's main conference room will be converted to a Zoom meeting room allowing for more opportunities for participation in the meetings. Starting on June 7th, the Authority will be able to allow for in-person public participation along with a live broadcast of the meetings. Ms. Gross noted that Pennsylvania is still operating under a Declaration of Emergency and can continue meeting virtually, but she would like to get a feel for when the Board would like to start meeting in person. Scott Bieber commented that he is looking forward to going back to regular in-person meetings. Kevin Baker also commented that he is fine with either meeting in-person or via Zoom. Solicitor Gaul commented that after May 31st, there will not be any restrictions on capacity or the opening of businesses. The only restriction will be unvaccinated persons must still wear a mask. There is no restriction that would prevent the Board from having an in-person meeting at the Authority's main conference room. Board members who desired to participate remotely could still do so under the Authority's by-laws and the Sunshine Act, provided they are able to hear comments at the meeting, and be heard by meeting attendees, via Zoom or conference call. Linda Rosenfeld asked if the public will be allowed in the conference room and if the Authority can screen the public and ask if they have been vaccinated. Solicitor Gaul said that the public can attend the meetings and cannot be asked if they have been vaccinated. The majority of the Board members stated they would be in favor of resuming in-person meetings. Ms. Gross commented that if the Authority is going to resume in-person Board meetings, the staff will poll the Board members to learn who will attend in-person versus via Zoom so the room can be set up properly for that and provide proper spacing and safety measures.

On a motion by Norma Cusick, seconded by Richard Bohner, the Board approved resuming in-person meetings at the Authority offices, with capabilities for remote attendance, starting with the June 14, 2021 meeting, but subject to confirmation from the Chief Executive Officer that the appropriate technology is in place to allow for such meetings to take place (7-0).

SOLICITOR'S COMMENTS

None.

PUBLIC COMMENTS / OTHER COMMENTS

None.

EXECUTIVE SESSION

ADJOURNMENT

There being no further business, the Chairman adjourned the meeting at 12:51 p.m.

Richard Bohner
Secretary

MEMORANDUM

Date: June 21, 2021

To: LCA Board of Directors
Liesel Gross, CEO

From: Chris Moughan, Chief Information Officer

Subject: Administration Division (Suburban): Supervisory Control and Data Acquisition (SCADA) System Upgrades

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	Capital Project Authorization: Administration – SCADA System Upgrades	\$244,300
1A	Professional Services Authorization: Keystone – SCADA System Upgrades	\$214,300*

**Included in the Capital Project Authorization*

AUTHORIZATION OVERVIEW:

The state of the existing SCADA system’s communication reliability is problematic. Many of the remote stations reside on a licensed radio network with an obsolete Modicon Quantum PLC. The main goal of this project is to transfer radio communications to cellular based Ethernet using the newly installed PLC at the main office. Testing on two sites was performed on two remote sites late last year and was successful; therefore, the SCADA capabilities need enhanced at the remaining sites.

FINANCIAL:

Costs associated with the project are funded by the Administration (Suburban) Division.

CURRENT STATUS:

Pending Board approval of these services.

THIS APPROVAL – SCADA SYSTEM UPGRADES:

Lehigh County Authority (LCA) intends to retain the services of an engineering consulting firm to provide the hardware and programming services. These services will include, but are not limited to, the following five tasks:

Professional Services
• Detailed site visits
• Four (4) on site meetings for design review
• Delivery of detailed design drawings
• Delivery of detailed design specifications
• Bidding assistance as required

CONSULTANT SELECTION PROCESS:

LCA has used the Keystone Engineering Group for recent SCADA projects. They have been proven to be a valuable and cost-effective partner to LCA. Their work is performed on a timely basis and has been completed satisfactorily to LCA specifications. Two of their competitors have proven unreliable and for past SCADA projects; therefore, Staff recommends the use of the Keystone Engineering for this critical project.

SCHEDULE:

The design project will commence in early July of 2021 and will be completed by December of 2021.

FUTURE AUTHORIZATIONS:

None for this specific project.

CAPITAL PROJECT AUTHORIZATION

PROJECT NO.:	SD-A-1	BUDGET FUND:	Admin\Suburban\Capital
PROJECT TITLE:	Supervisory Control and Data Acquisition Systems (SCADA) System Improvements	PROJECT TYPE:	<input checked="" type="checkbox"/> Construction <input type="checkbox"/> Engineering Study <input type="checkbox"/> Equipment Purchase <input type="checkbox"/> Amendment
THIS AUTHORIZATION:	\$244,300		
TO DATE (W/ ABOVE)	\$379,100		

DESCRIPTION AND BENEFITS:

This project falls under SD-A-1 (SCADA Programming, Hardware Upgrades, Software & Training) in the Administration Capital Plan.

Prior Authorization: Communication Upgrade Services to Existing Water Systems

This Authorization: SCADA System Improvements

See attached Board Memo and PSA for further project details.

Authorization Status:

Requested This Authorization	
<i>Design Phase</i>	
Staff	\$10,000
Contractor	\$0
Engineering Consultant	\$214,300
Contingency	\$20,000
Total This Authorization	\$244,300
Prior Authorizations (2020)	\$42,000
Prior Authorizations (2021)	\$92,810
Subtotal	\$379,100
<i>Future Authorizations (2022-2026)</i>	<i>\$2,800,000</i>

REVIEW AND APPROVALS:

Project Manager	Date	Chief Executive Officer	Date
Chief Capital Works Officer	Date	Chairman	Date



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

PROFESSIONAL SERVICES AUTHORIZATION

Professional: KEYSTONE ENGINEERING GROUP
590 E. Lancaster Avenue, Suite 200
Frazer, PA 19355

Date: June 28, 2021

Requested By: Chris Moughan

Approvals

Department Head: _____

Chief Executive

Officer: _____

Suburban Division – Supervisory Control and Data Acquisition System (SCADA) System Improvements

The existing SCADA systems that are used at remote well water stations, water booster stations, reservoirs, and sewage pumping stations are need of upgrades. In August of 2020, Keystone delivered a preliminary engineering report that outlined specific recommendations. It was decided to pursue the following – Keystone will provide detailed bid drawings and bid specifications for the installation of new equipment. Programming and startup will be provided separately. Specific tasks that Keystone will perform include, but are not limited to, the following:

Professional Services ⁽¹⁾
1. Detailed site visits
2. Four (4) on site meetings for design review
3. Delivery of detailed design drawings
4. Delivery of detailed design specifications
5. Bidding assistance as required

(1) For services relating to 1/20/21 Proposal Only

Please reference the cover Memo for additional information.

This Proposal: \$214,300

Cost Estimate (not to be exceeded without further authorization): \$214,300

Time Table and Completion Deadline: As required to meet various critical deadlines as set forth in the proposal.

(For Authority Use Only)

Authorization Completion:

Approval: _____ **Actual Cost:** _____ **Date:** _____

**LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS
MAY 2021**

LEHIGH COUNTY AUTHORITY
 FINANCIAL STATEMENTS - SUMMARY
 For the Period Ended May 31, 2021

	Consolidated Financial Statements														
	Month					Year To Date					FULL YEAR				
	Actual	Q2 FC	Prior Year	FC Var	PY Var	Actual	Q2 FC	Prior Year	FC Var	PY Var	Q2 FC	Budget	Prior Year	Bud Var	PY Var
Income Statement															
Suburban Water	76,658	(68,650)	18,304	145,308	58,354	381,054	236,350	433,227	144,704	(52,173)	842,455	183,548	379,997	658,907	462,458
Suburban Wastewater	(27,530)	162,100	17,572	(189,630)	(45,102)	1,342,151	1,531,900	3,284,749	(189,749)	(1,942,597)	1,863,600	1,175,879	2,685,692	687,721	(822,092)
City Division	1,185,442	368,814	(340,638)	816,628	1,526,080	2,272,163	1,455,814	(889,133)	816,350	3,161,296	187,639	865,692	(4,575,013)	(678,053)	4,762,652
Total LCA	1,234,570	462,264	(304,762)	772,306	1,539,332	3,995,369	3,224,064	2,828,843	771,305	1,166,526	2,893,694	2,225,119	(1,509,324)	668,575	4,403,018
Cash Flow Statement															
Suburban Water	(19,773)	(218,607)	(1,446,963)	198,833	1,427,189	(245,510)	(444,272)	(603,295)	198,762	357,785	(2,633,031)	(3,490,153)	(3,715,921)	857,123	1,082,891
Suburban Wastewater	(702,534)	(519,600)	(607,971)	(182,934)	(94,563)	(503,804)	(320,808)	978,654	(182,996)	(1,482,458)	3,082,070	2,321,828	398,089	760,243	2,683,981
City Division	1,565,182	736,682	507,156	828,500	1,058,026	8,157,267	7,328,767	5,577,207	828,500	2,580,060	1,146,080	4,663,547	2,036,183	(3,517,467)	(890,103)
Total LCA	842,874	(1,525)	(1,547,778)	844,399	2,390,652	7,407,953	6,563,687	5,952,566	844,266	1,455,387	1,595,120	3,495,222	(1,281,649)	(1,900,102)	2,876,769
Debt Service Coverage Ratio															
Suburban Water	1.55	0.90	0.79	0.65	0.76	1.40	1.27	1.29	0.13	0.11	1.37	1.20	1.24	0.17	0.13
Suburban Wastewater	6.12	9.14	7.10	(3.02)	(0.97)	10.98	11.58	17.95	(0.60)	(6.98)	9.15	8.17	12.48	0.97	(3.34)
City Division	2.49	1.81	1.58	0.69	0.91	1.88	1.74	1.75	0.14	0.13	1.57	1.62	1.55	(0.05)	0.03

**LEHIGH COUNTY AUTHORITY
CONSOLIDATED FINANCIAL STATEMENTS
For the Period Ended May 31, 2021**

STATEMENTS OF ACTIVITIES	Consolidated Financial Statements															
	Month				Year To Date				Q2 FULL YEAR FORECAST				Full Year Budget			
	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA
Operating Revenues:																
User Charges	941,201	1,496,220	3,784,528	6,221,948	4,798,260	7,691,987	16,872,675	29,362,922	11,776,100	19,082,900	41,206,300	72,065,300	11,799,441	19,166,369	41,996,514	72,962,324
Connection & System Charges	73,900	49,470	350,482	473,851	278,563	401,740	1,212,310	1,892,612	1,045,900	1,030,300	4,135,900	6,212,100	912,039	865,588	3,947,981	5,725,607
Other Miscellaneous Revenues	10,455	60	8,738	19,253	22,565	1,805	28,738	53,108	35,200	1,700	61,000	97,900	30,944	628	59,249	90,821
Total Operating Revenues	1,025,556	1,545,750	4,143,748	6,715,053	5,099,388	8,095,532	18,113,723	31,308,643	12,857,200	20,114,900	45,403,200	78,375,300	12,742,423	20,032,585	46,003,744	78,778,752
Operating Expenses:																
Personnel	167,811	49,681	587,677	805,169	1,178,913	485,507	4,045,899	5,710,319	2,982,845	1,651,700	12,117,475	16,752,020	3,289,603	1,760,954	11,561,494	16,612,051
Shared Services - General & Administrative	51,403	24,731	153,558	229,693	204,474	94,527	636,462	935,462	593,100	173,700	1,642,900	2,409,700	663,734	155,415	1,739,417	2,558,565
Utilities	32,958	21,323	141,043	195,323	182,869	121,251	813,799	1,117,919	509,900	395,900	2,112,800	3,018,600	543,917	449,484	2,156,620	3,150,021
Materials and Supplies	28,773	11,914	131,697	172,384	137,177	62,240	516,215	715,632	531,100	386,500	1,672,500	2,590,100	501,582	500,563	1,765,642	2,767,787
Miscellaneous Services	294,652	489,591	54,517	838,761	1,369,276	2,457,171	409,796	4,236,242	3,450,600	6,199,800	1,791,200	11,441,600	3,564,076	6,358,021	1,979,996	11,902,093
Treatment and Transportation	-	569,217	5,813	575,030	-	1,489,218	5,813	1,495,030	-	3,761,000	8,000	3,769,000	-	3,977,539	12,000	3,989,539
Depreciation and Amortization	217,141	384,727	491,154	1,093,022	1,085,705	1,923,635	2,455,770	5,465,110	2,604,400	4,635,800	5,892,800	13,133,000	2,605,699	4,616,783	5,893,862	13,116,343
Major Maintenance Expenses	300	11,276	10,510	22,086	2,635	59,140	46,938	108,713	2,300	869,900	2,546,500	3,418,700	3,400	1,000,000	2,652,924	3,656,324
Other Miscellaneous	3,786	-	-	3,786	3,786	-	-	3,786	48,000	32,000	8,000	88,000	74,864	46,422	13,972	135,258
Total Operating Expenses	796,825	1,562,460	1,575,970	3,935,254	4,164,834	6,692,688	8,930,692	19,788,214	10,722,245	18,106,300	27,792,175	56,620,720	11,246,874	18,865,181	27,775,927	57,887,982
Net Operating Profit	228,731	(16,710)	2,567,778	2,779,799	934,554	1,402,844	9,183,031	11,520,428	2,134,955	2,008,600	17,611,025	21,754,580	1,495,549	1,167,404	18,227,817	20,890,770
Non-Operating Income (Expense)																
Interest Income	4,160	7,117	399	11,676	20,358	40,843	2,808	64,008	60,200	84,900	110,500	255,600	94,327	190,471	172,960	457,758
Interest (Expense)	(159,333)	(15,847)	(1,382,735)	(1,557,916)	(569,852)	(78,109)	(6,913,675)	(7,561,636)	(1,345,600)	(187,800)	(17,533,886)	(19,067,286)	(1,406,328)	(181,995)	(17,535,086)	(19,123,409)
Other Miscellaneous	3,100	(2,090)	-	1,011	(4,005)	(23,426)	-	(27,431)	(7,100)	(42,100)	-	(49,200)	-	-	-	-
Net Non-Operating Income (Expense)	(152,073)	(10,820)	(1,382,336)	(1,545,230)	(553,500)	(60,693)	(6,910,867)	(7,525,059)	(1,292,500)	(145,000)	(17,423,386)	(18,860,886)	(1,312,001)	8,475	(17,362,125)	(18,665,651)
Net Income (Loss)	76,658	(27,530)	1,185,442	1,234,570	381,054	1,342,151	2,272,163	3,995,369	842,455	1,863,600	187,639	2,893,694	183,548	1,175,879	865,692	2,225,119
CASH FLOW STATEMENT																
Cash Flows From Operating Activities																
Operating Revenues	1,025,556	1,545,750	4,143,748	6,715,053	5,099,388	8,095,532	18,113,723	31,308,643	12,857,200	20,114,900	45,403,200	78,375,300	12,742,423	20,032,585	46,003,744	78,778,752
Operating Expenses (ex D&A)	(579,684)	(1,177,733)	(1,084,816)	(2,842,232)	(3,079,129)	(4,769,053)	(6,474,922)	(14,323,104)	(8,117,845)	(13,470,500)	(21,899,375)	(43,487,720)	(8,641,176)	(14,248,398)	(21,882,064)	(44,771,639)
Non-Cash Working Capital Changes	117,124	(1,210,971)	(1,205,335)	(2,299,181)	(755,680)	(1,536,643)	(1,100,109)	(3,392,433)	(19,439)	1,069,456	(1,380,681)	(330,664)	3,418	(0)	50,001	53,419
Net Cash Provided by (Used in) Operating Activities	562,997	(842,954)	1,853,597	1,573,640	1,264,579	1,789,834	10,538,692	13,593,105	4,719,916	7,713,856	22,123,144	34,556,916	4,104,666	5,784,186	24,171,680	34,060,532
Cash Flows From Financing Activities																
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000,000	2,000,000
Interest Payments	(670,774)	(12,899)	-	(683,673)	(696,202)	(72,324)	-	(768,527)	(1,406,328)	(181,995)	(11,565,086)	(13,153,409)	(1,406,328)	(181,995)	(11,565,086)	(13,153,409)
Principal Payments	(31,459)	(45,600)	-	(77,059)	(156,715)	(227,564)	-	(384,279)	(2,092,818)	(549,034)	(2,660,831)	(5,302,683)	(2,092,818)	(549,034)	(2,660,831)	(5,302,683)
Net Cash Provided by (Used in) Financing Activities	(702,233)	(58,499)	-	(760,732)	(852,917)	(299,888)	-	(1,152,805)	(3,499,146)	(731,029)	(14,225,917)	(18,456,093)	(3,499,146)	(731,029)	(12,225,917)	(16,456,092)
Cash Flows from Capital and Related Activities																
Non-Operating Income (Expenses)	3,100	(2,090)	-	1,011	(4,005)	(23,426)	(615,300)	(642,731)	(7,100)	(42,100)	(1,230,600)	(1,279,800)	-	-	(1,230,600)	(1,230,600)
Capital Expenditures, net	(132,480)	(299,108)	(288,814)	(720,402)	(918,207)	(1,516,167)	(1,768,932)	(4,203,306)	(4,151,600)	(3,448,557)	(5,631,046)	(13,231,203)	(4,190,000)	(2,921,800)	(6,224,576)	(13,336,376)
Net Cash Provided By (Used In) Capital and Related Activities	(129,379)	(301,198)	(288,814)	(719,392)	(922,212)	(1,539,593)	(2,384,232)	(4,846,037)	(4,158,700)	(3,490,657)	(6,861,646)	(14,511,003)	(4,190,000)	(2,921,800)	(7,455,176)	(14,566,976)
Cash Flows From Investing Activities																
Investments Converting To Cash	244,682	493,000	-	737,682	244,682	1,484,000	-	1,728,682	244,700	1,484,000	-	1,728,700	-	-	-	-
Purchased Investments	-	-	-	-	-	(1,979,000)	-	(1,979,000)	-	(1,979,000)	-	(1,979,000)	-	-	-	-
Interest Income	4,160	7,117	399	11,676	20,358	40,843	2,808	64,008	60,200	84,900	110,500	255,600	94,327	190,471	172,960	457,758
Net Cash Provided By (Used In) Investing Activities	248,842	500,117	399	749,358	265,040	(454,157)	2,808	(186,309)	304,900	(410,100)	110,500	5,300	94,327	190,471	172,960	457,758
FUND NET CASH FLOWS	(19,773)	(702,534)	1,565,182	842,874	(245,510)	(503,804)	8,157,267	7,407,953	(2,633,031)	3,082,070	1,146,080	1,595,120	(3,490,153)	2,321,828	4,663,547	3,495,222
DEBT SERVICE RATIO																
Debt Service Ratio (Indenture Based)																
Total Operating Revenues	941,201	1,496,220	3,784,528	6,221,948	4,798,260	7,691,987	16,872,675	29,362,922	11,776,100	19,082,900	41,206,300	72,065,300	11,799,441	19,166,369	41,996,514	72,962,324
Total Operating Expenses (Cash Based)	(579,684)	(1,177,733)	(1,084,816)	(2,842,232)	(3,079,129)	(4,769,053)	(6,474,922)	(14,323,104)	(8,117,845)	(13,470,500)	(21,899,375)	(43,487,720)	(8,641,176)	(14,248,398)	(21,882,064)	(44,771,639)
Interest Income	4,160	7,117	399	11,676	20,358	40,843	2,808	64,008	60,200	84,900	110,500	255,600	94,327	190,471	172,960	457,758
Annual Lease Payment (City)	-	-	(102,550)	(102,550)	-	-	(512,750)	(512,750)	-	-	(1,230,600)	(1,230,600)	-	-	(1,230,600)	(1,230,600)
Total Non-Operating Revenues (Expenses)	87,455	47,440	359,220	494,115	297,123	380,118	1,241,048	1,918,289	1,074,000	989,900	4,196,900	6,260,800	942,983	866,216	4,007,230	5,816,428
Cash Available For Debt Service	453,132	373,045	2,956,781	3,782,958	2,036,612	3,343,896	11,128,858	16,509,365	4,792,455	6,687,200	22,383,725	33,863,380	4,195,575	5,974,657	23,064,040	33,234,271
Interest Paid	117,194	15,166	963,757	1,096,117	585,970	75,831	4,818,786	5,480,587	1,406,328	181,995	11,565,086	13,153,409	1,406,328	181,995	11,565,086	13,153,409
Debt Retirement (Principal Payments)	174,402	45,753	221,736	441,890	872,000	228,764	1,108,680	2,209,451	2,092,818	549,034	2,660,831	5,302,683	2,092,818	549,034	2,660,831	5,302,683
Total Debt Service	291,596	60,919	1,185,493	1,538,008	1,457,978	304,596	5,927,465	7,690,039	3,499,146	731,029	14,225,917	18,456,093	3,499,146	731,029	14,225,917	18,456,092
Debt Service Ratio	1.55	6.12	2.49	2.46	1.40	10.98	1.88	2.15	1.37	9.15	1.57	1.83	1.20	8.17	1.62	1.80

LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS - SUBURBAN WATER
For the Period Ended May 31, 2021

STATEMENTS OF ACTIVITIES	Suburban - Water														
	Month					Year To Date					Full Year				
	Actual	Q2 FC	Prior Yr	FC Var	PY Var	Actual	Q2 FC	Prior Yr	FC Var	PY Var	Q2 FC	Budget	Prior Yr	Bud Var	PY Var
Operating Revenues:															
User Charges	941,201	850,000	781,445	91,201	159,756	4,798,260	4,707,100	4,189,431	91,160	608,829	11,776,100	11,799,441	10,866,675	(23,341)	909,425
Connection & System Charges	73,900	-	-	73,900	73,900	278,563	204,900	78,953	73,663	199,610	1,045,900	912,039	860,596	133,861	185,304
Other Miscellaneous Revenues	10,455	1,000	1,895	9,455	8,560	22,565	13,200	9,110	9,365	13,455	35,200	30,944	105,508	4,256	(70,308)
Total Operating Revenues	1,025,556	851,000	783,340	174,556	242,216	5,099,388	4,925,200	4,277,494	174,188	821,894	12,857,200	12,742,423	11,832,779	114,777	1,024,421
Operating Expenses:															
Personnel	167,811	167,650	133,538	(161)	(34,273)	1,178,913	1,178,950	636,349	37	(542,564)	2,982,845	3,289,603	2,653,747	306,758	(329,098)
Shared Services - General & Administrative	51,403	55,000	105,795	3,597	54,392	204,474	208,100	371,586	3,626	167,112	593,100	663,734	300,465	70,634	(292,635)
Utilities	32,958	45,000	32,293	12,042	(665)	182,869	194,900	160,659	12,031	(22,210)	509,900	543,917	419,493	34,017	(90,407)
Materials and Supplies	28,773	26,000	31,628	(2,773)	2,855	137,177	134,100	94,522	(3,077)	(42,655)	531,100	501,582	279,430	(29,518)	(251,670)
Miscellaneous Services	294,652	297,000	218,673	2,348	(75,980)	1,369,276	1,371,600	999,777	2,324	(369,499)	3,450,600	3,564,076	3,645,096	113,476	194,496
Treatment and Transportation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Depreciation and Amortization	217,141	217,000	220,000	(141)	2,859	1,085,705	1,085,400	1,100,000	(305)	14,295	2,604,400	2,605,699	2,948,963	1,299	344,563
Major Maintenance Expenses	300	-	3,025	(300)	2,725	2,635	2,300	4,990	(335)	2,355	2,300	3,400	-	1,100	(2,300)
Other Miscellaneous	3,786	6,000	-	2,214	(3,786)	3,786	6,000	-	2,214	(3,786)	48,000	74,864	-	26,864	(48,000)
Total Operating Expenses	796,825	813,650	744,951	16,825	(51,873)	4,164,834	4,181,350	3,367,883	16,515	(796,951)	10,722,245	11,246,874	10,247,194	524,630	(475,051)
Net Operating Profit	228,731	37,350	38,389	191,381	190,342	934,554	743,850	909,611	190,703	24,943	2,134,955	1,495,549	1,585,585	639,406	549,370
Non-Operating Income (Expense)															
Interest Income	4,160	9,000	4,713	(4,840)	(554)	20,358	25,200	42,952	(4,842)	(22,594)	60,200	94,327	74,821	(34,127)	(14,621)
Interest (Expense)	(159,333)	(115,000)	(14,679)	(44,333)	(144,654)	(569,852)	(525,600)	(524,896)	(44,252)	(44,956)	(1,345,600)	(1,406,328)	(1,442,776)	60,728	97,176
Other Miscellaneous	3,100	-	(10,119)	3,100	13,219	(4,005)	(7,100)	5,561	3,095	(9,565)	(7,100)	-	162,366	(7,100)	(169,466)
Net Non-Operating Income (Expense)	(152,073)	(106,000)	(20,085)	(46,073)	(131,988)	(553,500)	(507,500)	(476,384)	(46,000)	(77,116)	(1,292,500)	(1,312,001)	(1,205,589)	19,501	(86,911)
Net Income (Loss)	76,658	(68,650)	18,304	145,308	58,354	381,054	236,350	433,227	144,704	(52,173)	842,455	183,548	379,997	658,907	462,458
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	1,025,556	851,000	783,340	174,556	242,216	5,099,388	4,925,200	4,277,494	174,188	821,894	12,857,200	12,742,423	11,832,779	114,777	1,024,421
Operating Expenses (ex D&A)	(579,684)	(596,650)	(524,951)	16,966	(54,732)	(3,079,129)	(3,095,950)	(2,267,883)	16,820	(811,246)	(8,117,845)	(8,641,176)	(7,298,231)	523,331	(819,614)
Non-Cash Working Capital Changes	117,124	107,295	(714,334)	9,829	831,458	(755,680)	(766,070)	(791,307)	10,390	35,628	(19,439)	3,418	(10,602)	(22,858)	(8,837)
Net Cash Provided by (Used in) Operating Activities	562,997	361,646	(455,945)	201,351	1,018,941	1,264,579	1,063,180	1,218,304	201,399	46,275	4,719,916	4,104,666	4,523,946	615,250	195,970
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Payments	(670,774)	(671,095)	-	321	(670,774)	(696,202)	(696,495)	(618,021)	293	(78,182)	(1,406,328)	(1,406,328)	(1,756,050)	(0)	349,722
Principal Payments	(31,459)	(30,957)	(30,788)	(502)	(671)	(156,715)	(156,157)	(153,381)	(558)	(3,334)	(2,092,818)	(2,092,818)	(2,081,390)	(0)	(11,428)
Net Cash Provided by (Used in) Financing Activities	(702,233)	(702,052)	(30,788)	(181)	(671,445)	(852,917)	(852,652)	(771,401)	(265)	(81,516)	(3,499,146)	(3,499,146)	(3,837,440)	(0)	338,294
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	3,100	-	(10,119)	3,100	13,219	(4,005)	(7,100)	5,561	3,095	(9,565)	(7,100)	-	162,366	(7,100)	(169,466)
Capital Expenditures, net	(132,480)	(131,900)	(214,142)	(580)	81,662	(918,207)	(917,600)	(1,348,027)	(607)	429,820	(4,151,600)	(4,190,000)	(5,043,931)	38,400	892,331
Net Cash Provided By (Used In) Capital and Related Activities	(129,379)	(131,900)	(224,261)	2,521	94,882	(922,212)	(924,700)	(1,342,467)	2,488	420,255	(4,158,700)	(4,190,000)	(4,881,565)	31,300	722,865
Cash Flows From Investing Activities															
Investments Converting To Cash	244,682	244,700	249,000	(18)	(4,318)	244,682	244,700	1,982,000	(18)	(1,737,318)	244,700	-	2,382,000	244,700	(2,137,300)
Purchased Investments	-	-	(989,682)	-	989,682	-	-	(1,732,682)	-	1,732,682	-	-	(1,977,682)	-	1,977,682
Interest Income	4,160	9,000	4,713	(4,840)	(554)	20,358	25,200	42,952	(4,842)	(22,594)	60,200	94,327	74,821	(34,127)	(14,621)
Net Cash Provided By (Used In) Investing Activities	248,842	253,700	(735,969)	(4,858)	984,811	265,040	269,900	292,270	(4,860)	(27,230)	304,900	94,327	479,138	210,573	(174,238)
FUND NET CASH FLOWS	(19,773)	(218,607)	(1,446,963)	198,833	1,427,189	(245,510)	(444,272)	(603,295)	198,762	357,785	(2,633,031)	(3,490,153)	(3,715,921)	857,123	1,082,891
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	941,201	850,000	781,445	91,201	159,756	4,798,260	4,707,100	4,189,431	91,160	608,829	11,776,100	11,799,441	10,866,675	(23,341)	909,425
Operating Expenses (Cash Based)	(579,684)	(596,650)	(524,951)	16,966	(54,732)	(3,079,129)	(3,095,950)	(2,267,883)	16,820	(811,246)	(8,117,845)	(8,641,176)	(7,298,231)	523,331	(819,614)
Interest Income	4,160	9,000	4,713	(4,840)	(554)	20,358	25,200	42,952	(4,842)	(22,594)	60,200	94,327	74,821	(34,127)	(14,621)
Annual Lease Payment (City)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Operating Revenues (Expenses)	87,455	1,000	(8,224)	86,455	95,679	297,123	211,000	93,623	86,123	203,500	1,074,000	942,983	1,128,470	131,017	(54,470)
Cash Available For Debt Service	453,132	263,350	252,983	189,782	200,149	2,036,612	1,847,350	2,058,123	189,261	(21,512)	4,792,455	4,195,575	4,771,735	596,881	20,720
Interest Paid	117,194	117,194	146,338	0	(29,144)	585,970	585,970	731,688	0	(145,718)	1,406,328	1,406,328	1,756,050	0	(349,722)
Debt Retirement (Principal Payments)	174,402	174,402	173,449	0	952	872,008	872,008	867,246	0	4,762	2,092,818	2,092,818	2,081,390	0	11,428
Total Debt Service	291,596	291,596	319,787	0	(28,191)	1,457,978	1,457,978	1,598,934	0	(140,956)	3,499,146	3,499,146	3,837,440	0	(338,294)
Debt Service Ratio	1.55	0.90	0.79	0.65	0.76	1.40	1.27	1.29	0.13	0.11	1.37	1.20	1.24	0.17	0.13

**LEHIGH COUNTY AUTHORITY
VARIANCE ANALYSIS - MONTH
For the Period Ended May 31, 2021**

Suburban - Water				
STATEMENTS OF ACTIVITIES	Actual	Q2 FC	FC Var	Comments
Operating Revenues:				
User Charges	941,201	850,000	91,201	Higher industrial, commercial, and residential user charges
Connection & System Charges	73,900	-	73,900	Higher tapping fees and project reimbursement
Other Miscellaneous Revenues	10,455	1,000	9,455	
Total Operating Revenues	1,025,556	851,000	174,556	Higher user charges and higher connection fees
Operating Expenses:				
Personnel	167,811	167,650	(161)	
Shared Services - General & Administrative	51,403	55,000	3,597	
Utilities	32,958	45,000	12,042	
Materials and Supplies	28,773	26,000	(2,773)	
Miscellaneous Services	294,652	297,000	2,348	
Treatment and Transportation	-	-	-	
Depreciation and Amortization	217,141	217,000	(141)	
Major Maintenance Expenses	300	-	(300)	
Other Miscellaneous	3,786	6,000	2,214	
Total Operating Expenses	796,825	813,650	16,825	Lower G&A and utilities
Net Operating Profit	228,731	37,350	191,381	Higher operating revenues along with lower operating expenses
Non-Operating Income (Expense)				
Interest Income	4,160	9,000	(4,840)	
Interest (Expense)	(159,333)	(115,000)	(44,333)	
Other Miscellaneous	3,100	-	3,100	
Net Non-Operating Income (Expense)	(152,073)	(106,000)	(46,073)	Lower interest income and higher interest expense
Net Income (Loss)	76,658	(68,650)	145,308	Higher net operating profit partly offset by higher interest expense
CASH FLOW STATEMENT				
Cash Flows From Operating Activities				
Operating Revenues	1,025,556	851,000	174,556	
Operating Expenses (ex D&A)	(579,684)	(596,650)	16,966	
Non-Cash Working Capital Changes	117,124	107,295	9,829	
Net Cash Provided by (Used in) Operating Activities	562,997	361,646	201,351	Higher operating revenues, lower operating expenses, and favorable working capital movements
Cash Flows From Financing Activities				
Capital Contributions	-	-	-	
Proceeds New Borrowing	-	-	-	
Interest Payments	(670,774)	(671,095)	321	
Principal Payments	(31,459)	(30,957)	(502)	
Net Cash Provided by (Used in) Financing Activities	(702,233)	(702,052)	(181)	Slightly higher principal payments
Cash Flows from Capital and Related Activities				
Non-Operating Income (Expenses)	3,100	-	3,100	
Capital Expenditures, net	(132,480)	(131,900)	(580)	
Net Cash Provided By (Used In) Capital and Related Activities	(129,379)	(131,900)	2,521	Favorable non-operating cash flows
Cash Flows From Investing Activities				
Investments Converting To Cash	244,682	244,700	(18)	
Purchased Investments	-	-	-	
Interest Income	4,160	9,000	(4,840)	
Net Cash Provided By (Used In) Investing Activities	248,842	253,700	(4,858)	Lower interest income
FUND NET CASH FLOWS	(19,773)	(218,607)	198,833	Higher cash from operations along with higher capital related cash flows

**LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS - SUBURBAN WASTEWATER
For the Period Ended May 31, 2021**

STATEMENTS OF ACTIVITIES	Suburban - Wastewater														
	Month					Year To Date					Full Year				
	Actual	Q2 FC	Prior Yr	FC Var	PY Var	Actual	Q2 FC	Prior Yr	FC Var	PY Var	Q2 FC	Budget	Prior Yr	Bud Var	PY Var
Operating Revenues:															
User Charges	1,496,220	1,700,000	1,202,793	(203,780)	293,427	7,691,987	7,895,900	6,416,705	(203,913)	1,275,282	19,082,900	19,166,369	16,174,427	(83,469)	2,908,473
Connection & System Charges	49,470	80,000	43,654	(30,530)	5,816	401,740	432,300	2,814,387	(30,560)	(2,412,647)	1,030,300	865,588	3,584,347	164,712	(2,554,047)
Other Miscellaneous Revenues	60	-	30	60	30	1,805	1,700	105	105	1,700	1,700	628	6,194	1,072	(4,494)
Total Operating Revenues	1,545,750	1,780,000	1,246,476	(234,250)	299,273	8,095,532	8,329,900	9,231,197	(234,368)	(1,135,665)	20,114,900	20,032,585	19,764,968	82,315	349,932
Operating Expenses:															
Personnel	49,681	178,000	53,202	128,319	3,521	485,507	613,700	292,100	128,193	(193,406)	1,651,700	1,760,954	1,330,827	109,254	(320,873)
Shared Services - General & Administrative	24,731	13,000	47,526	(11,731)	22,795	94,527	82,700	192,791	(11,827)	98,265	173,700	155,415	77,142	(18,285)	(96,558)
Utilities	21,323	37,000	22,213	15,677	891	121,251	136,900	114,245	15,649	(7,006)	395,900	449,484	296,419	53,584	(99,481)
Materials and Supplies	11,914	42,000	14,505	30,086	2,591	62,240	92,500	55,077	30,260	(7,163)	386,500	500,563	232,039	114,063	(154,461)
Miscellaneous Services	489,591	529,000	452,256	39,409	(37,335)	2,457,171	2,496,800	2,210,062	39,629	(247,108)	6,199,800	6,358,021	6,257,849	158,221	58,049
Treatment and Transportation	569,217	341,000	241,617	(228,217)	(327,600)	1,489,218	1,261,000	1,201,617	(228,218)	(287,600)	3,761,000	3,977,539	2,906,958	216,539	(854,042)
Depreciation and Amortization	384,727	379,000	383,460	(5,727)	(1,267)	1,923,635	1,917,800	1,917,300	(5,835)	(6,335)	4,635,800	4,616,783	5,937,183	(19,017)	1,301,383
Major Maintenance Expenses	11,276	83,000	23,202	71,724	11,926	59,140	130,900	34,321	71,760	(24,819)	869,900	1,000,000	-	130,100	(869,900)
Other Miscellaneous	-	4,000	-	4,000	-	-	4,000	-	4,000	-	32,000	46,422	-	14,422	(32,000)
Total Operating Expenses	1,562,460	1,606,000	1,237,982	43,540	(324,478)	6,692,688	6,736,300	6,017,514	43,612	(675,173)	18,106,300	18,865,181	17,038,417	758,881	(1,067,883)
Net Operating Profit	(16,710)	174,000	8,494	(190,710)	(25,204)	1,402,844	1,593,600	3,213,682	(190,756)	(1,810,838)	2,008,600	1,167,404	2,726,551	841,196	(717,951)
Non-Operating Income (Expense)															
Interest Income	7,117	6,400	15,751	717	(8,633)	40,843	40,100	96,615	743	(55,772)	84,900	190,471	185,457	(105,571)	(100,557)
Interest (Expense)	(15,847)	(15,700)	(16,927)	(147)	1,079	(78,109)	(77,900)	(84,851)	(209)	6,741	(187,800)	(181,995)	(199,707)	(5,805)	11,907
Other Miscellaneous	(2,090)	(2,600)	10,254	510	(12,344)	(23,426)	(23,900)	59,302	474	(82,729)	(42,100)	-	(26,609)	(42,100)	(15,491)
Net Non-Operating Income (Expense)	(10,820)	(11,900)	9,078	1,080	(19,898)	(60,693)	(61,700)	71,066	1,007	(131,759)	(145,000)	8,475	(40,859)	(153,475)	(104,141)
Net Income (Loss)	(27,530)	162,100	17,572	(189,630)	(45,102)	1,342,151	1,531,900	3,284,749	(189,749)	(1,942,597)	1,863,600	1,175,879	2,685,692	687,721	(822,092)
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	1,545,750	1,780,000	1,246,476	(234,250)	299,273	8,095,532	8,329,900	9,231,197	(234,368)	(1,135,665)	20,114,900	20,032,585	19,764,968	82,315	349,932
Operating Expenses (ex D&A)	(1,177,733)	(1,227,000)	(854,522)	49,267	(323,211)	(4,769,053)	(4,818,500)	(4,100,214)	49,447	(668,838)	(13,470,500)	(14,248,398)	(11,101,234)	777,898	(2,369,266)
Non-Cash Working Capital Changes	(1,210,971)	(1,211,800)	(1,627,148)	829	416,177	(1,536,645)	(1,537,408)	(1,047,626)	763	(489,019)	1,069,456	(0)	(839,283)	1,069,456	1,908,740
Net Cash Provided by (Used in) Operating Activities	(842,954)	(658,800)	(1,235,194)	(184,154)	392,240	1,789,834	1,973,992	4,083,356	(184,158)	(2,293,522)	7,713,856	5,784,186	7,824,450	1,929,670	(110,594)
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Payments	(12,899)	(12,900)	-	1	(12,899)	(72,324)	(72,300)	(70,265)	(24)	(2,060)	(181,995)	(181,995)	(164,692)	-	(17,304)
Principal Payments	(45,600)	(45,600)	(44,682)	(0)	(918)	(227,564)	(227,600)	(226,805)	36	(759)	(549,034)	(549,034)	(542,065)	36	(6,969)
Net Cash Provided by (Used in) Financing Activities	(58,499)	(58,500)	(44,682)	1	(13,818)	(299,888)	(299,900)	(297,069)	12	(2,819)	(731,029)	(731,029)	(706,757)	-	(24,272)
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	(2,090)	(2,600)	10,254	510	(12,344)	(23,426)	(23,900)	59,302	474	(82,729)	(42,100)	-	(26,609)	(42,100)	(15,491)
Capital Expenditures, net	(299,108)	(299,100)	890,900	(8)	(1,190,008)	(1,516,167)	(1,516,100)	(2,722,550)	(67)	1,206,383	(3,448,557)	(2,921,800)	(8,381,452)	(526,757)	4,932,895
Net Cash Provided By (Used In) Capital and Related Activities	(301,198)	(301,700)	901,154	502	(1,202,352)	(1,539,593)	(1,540,000)	(2,663,248)	407	1,123,655	(3,490,657)	(2,921,800)	(8,408,061)	(568,857)	4,917,404
Cash Flows From Investing Activities															
Investments Converting To Cash	493,000	493,000	494,000	-	(1,000)	1,484,000	1,484,000	1,731,000	-	(247,000)	1,484,000	-	5,156,000	1,484,000	(3,672,000)
Purchased Investments	-	-	(739,000)	-	739,000	(1,979,000)	(1,979,000)	(1,972,000)	-	(7,000)	(1,979,000)	-	(3,653,000)	(1,979,000)	1,674,000
Interest Income	7,117	6,400	15,751	717	(8,633)	40,843	40,100	96,615	743	(55,772)	84,900	190,471	185,457	(105,571)	(100,557)
Net Cash Provided By (Used In) Investing Activities	500,117	499,400	(229,249)	717	729,367	(454,157)	(454,900)	(144,385)	743	(309,772)	(410,100)	190,471	1,688,457	(600,571)	(2,098,557)
FUND NET CASH FLOWS	(702,534)	(519,600)	(607,971)	(182,934)	(94,563)	(503,804)	(320,808)	978,654	(182,996)	(1,482,458)	3,082,070	2,321,828	398,089	760,243	2,683,981
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	1,496,220	1,700,000	1,202,793	(203,780)	293,427	7,691,987	7,895,900	6,416,705	(203,913)	1,275,282	19,082,900	19,166,369	16,174,427	(83,469)	2,908,473
Operating Expenses (Cash Based)	(1,177,733)	(1,227,000)	(854,522)	49,267	(323,211)	(4,769,053)	(4,818,500)	(4,100,214)	49,447	(668,838)	(13,470,500)	(14,248,398)	(11,101,234)	777,898	(2,369,266)
Interest Income	7,117	6,400	15,751	717	(8,633)	40,843	40,100	96,615	743	(55,772)	84,900	190,471	185,457	(105,571)	(100,557)
Annual Lease Payment (City)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Operating Revenues (Expenses)	47,440	77,400	53,938	(29,960)	(6,497)	380,118	410,100	2,873,794	(29,982)	(2,493,675)	989,900	866,216	3,563,932	123,684	(2,574,032)
Cash Available For Debt Service	373,045	556,800	417,959	(183,755)	(44,914)	3,343,896	3,527,600	5,286,899	(183,704)	(1,943,004)	6,687,200	5,974,657	8,822,582	712,543	(2,135,382)
Interest Paid	15,166	15,166	13,724	-	1,442	75,831	75,831	68,622	-	7,210	181,995	181,995	164,692	-	17,304
Debt Retirement (Principal Payments)	45,753	45,753	45,172	-	581	228,764	228,764	225,861	-	2,904	549,034	549,034	542,065	-	6,969
Total Debt Service	60,919	60,919	58,896	-	2,023	304,596	304,596	294,482	-	10,113	731,029	731,029	706,757	-	24,272
Debt Service Ratio	6.12	9.14	7.10	(3.02)	(0.97)	10.98	11.58	17.95	(0.60)	(6.98)	9.15	8.17	12.48	0.97	(3.34)

LEHIGH COUNTY AUTHORITY
VARIANCE ANALYSIS - MONTH
For the Period Ended May 31, 2021

Suburban - Wastewater				
STATEMENTS OF ACTIVITIES	Actual	Q2 FC	FC Var	Comments
Operating Revenues:				
User Charges	1,496,220	1,700,000	(203,780)	Higher residential and commercial charges along with higher penalties more than offset by lower municipal revenues and lower hauler charges
Connection & System Charges	49,470	80,000	(30,530)	Lower tapping fees
Other Miscellaneous Revenues	60	-	60	
Total Operating Revenues	1,545,750	1,780,000	(234,250)	Lower user charges and lower system/connection charges
Operating Expenses:				
Personnel	49,681	178,000	128,319	
Shared Services - General & Administrative	24,731	13,000	(11,731)	
Utilities	21,323	37,000	15,677	
Materials and Supplies	11,914	42,000	30,086	
Miscellaneous Services	489,591	529,000	39,409	
Treatment and Transportation	569,217	341,000	(228,217)	
Depreciation and Amortization	384,727	379,000	(5,727)	
Major Maintenance Expenses	11,276	83,000	71,724	
Other Miscellaneous	-	4,000	4,000	
Total Operating Expenses	1,562,460	1,606,000	43,540	Lower personnel costs along with lower utilities, materials/supplies, services, and major maintenance expenses offset in part by slightly higher G&A and higher treatment and transportation costs
Net Operating Profit	(16,710)	174,000	(190,710)	Lower operating revenues partially made up for by lower operating expenses
Non-Operating Income (Expense)				
Interest Income	7,117	6,400	717	
Interest (Expense)	(15,847)	(15,700)	(147)	
Other Miscellaneous	(2,090)	(2,600)	510	
Net Non-Operating Income (Expense)	(10,820)	(11,900)	1,080	
Net Income (Loss)	(27,530)	162,100	(189,630)	Higher net operating profit
CASH FLOW STATEMENT				
Cash Flows From Operating Activities				
Operating Revenues	1,545,750	1,780,000	(234,250)	
Operating Expenses (ex D&A)	(1,177,733)	(1,227,000)	49,267	
Non-Cash Working Capital Changes	(1,210,971)	(1,211,800)	829	
Net Cash Provided by (Used in) Operating Activities	(842,954)	(658,800)	(184,154)	Lower operating revenues partially offset by lower operating expenses and favorable working capital movements
Cash Flows From Financing Activities				
Capital Contributions	-	-	-	
Proceeds New Borrowing	-	-	-	
Interest Payments	(12,899)	(12,900)	1	
Principal Payments	(45,600)	(45,600)	(0)	
Net Cash Provided by (Used in) Financing Activities	(58,499)	(58,500)	1	
Cash Flows from Capital and Related Activities				
Non-Operating Income (Expenses)	(2,090)	(2,600)	510	
Capital Expenditures, net	(299,108)	(299,100)	(8)	
Net Cash Provided By (Used In) Capital and Related Activities	(301,198)	(301,700)	502	
Cash Flows From Investing Activities				
Investments Converting To Cash	493,000	493,000	-	
Purchased Investments	-	-	-	
Interest Income	7,117	6,400	717	
Net Cash Provided By (Used In) Investing Activities	500,117	499,400	717	
FUND NET CASH FLOWS	(702,534)	(519,600)	(182,934)	Lower cash from operations

LEHIGH COUNTY AUTHORITY
FINANCIAL STATEMENTS - CITY DIVISION
For the Period Ended May 31, 2021

STATEMENTS OF ACTIVITIES	City Division														
	Month					Year To Date					Full Year				
	Actual	Q2 FC	Prior Yr	FC Var	PY Var	Actual	Q2 FC	Prior Yr	FC Var	PY Var	Q2 FC	Budget	Prior Yr	Bud Var	PY Var
Operating Revenues:															
User Charges	3,784,528	3,444,000	3,028,470	340,528	756,057	16,872,675	16,532,300	14,928,116	340,375	1,944,559	41,206,300	41,996,514	37,983,732	(790,214)	3,222,568
Connection & System Charges	350,482	89,000	108,488	261,482	241,993	1,212,310	950,900	621,229	261,410	591,081	4,135,900	3,947,981	2,767,986	187,919	1,367,914
Other Miscellaneous Revenues	8,738	3,000	2,929	5,738	5,809	28,738	23,000	20,339	5,738	8,399	61,000	59,249	51,620	1,751	9,380
Total Operating Revenues	4,143,748	3,536,000	3,139,888	607,748	1,003,860	18,113,723	17,506,200	15,569,684	607,523	2,544,039	45,403,200	46,003,744	40,803,339	(600,544)	4,599,861
Operating Expenses:															
Personnel	587,677	587,186	827,178	(491)	239,501	4,045,899	4,045,386	3,699,692	(513)	(346,207)	12,117,475	11,561,494	11,298,193	(555,981)	(819,282)
Shared Services - General & Administrative	153,558	145,000	189,940	(8,558)	36,381	636,462	627,900	1,071,319	(8,562)	434,856	1,642,900	1,739,417	1,390,681	96,517	(252,219)
Utilities	141,043	180,000	145,048	38,957	4,006	813,799	852,800	788,313	39,001	(25,486)	2,112,800	2,156,620	1,815,047	43,820	(297,753)
Materials and Supplies	131,697	156,500	93,584	24,803	(38,113)	516,215	541,000	530,408	24,785	14,193	1,672,500	1,765,642	1,378,969	93,142	(293,531)
Miscellaneous Services	54,517	174,500	118,420	119,983	63,903	409,796	529,700	529,010	119,904	119,215	1,791,200	1,979,996	2,064,942	188,796	273,742
Treatment and Transportation	5,813	1,000	490,000	(4,813)	(5,813)	5,813	1,000	529,010	(4,813)	(5,813)	8,000	12,000	11,926	4,000	3,926
Depreciation and Amortization	491,154	491,000	490,000	(154)	(1,154)	2,455,770	2,455,800	2,450,000	30	(5,770)	5,892,900	5,893,862	6,117,396	1,062	224,596
Major Maintenance Expenses	10,510	50,000	149,970	39,490	139,459	46,938	86,500	271,969	39,562	225,031	2,546,500	2,652,924	-	106,424	(2,546,500)
Other Miscellaneous	-	1,000	-	1,000	-	-	1,000	-	1,000	-	8,000	13,972	-	5,972	(8,000)
Total Operating Expenses	1,575,970	1,786,186	2,014,140	210,217	438,170	8,930,692	9,141,086	9,340,711	210,394	410,019	27,792,175	27,775,927	24,077,155	(16,249)	(3,715,020)
Net Operating Profit	2,567,778	1,749,814	1,125,748	817,964	1,442,030	9,183,031	8,365,114	6,228,973	817,917	2,954,058	17,611,025	18,227,817	16,726,184	(616,792)	884,841
Non-Operating Income (Expense)															
Interest Income	399	2,000	1,528	(1,601)	(1,129)	2,808	4,500	155,625	(1,692)	(152,817)	110,500	172,960	162,074	(62,460)	(51,574)
Interest (Expense)	(1,382,735)	(1,383,000)	(1,453,283)	265	70,548	(6,913,675)	(6,913,800)	(7,266,416)	125	352,741	(17,533,886)	(17,535,086)	(17,257,071)	1,200	(276,815)
Other Miscellaneous	-	-	(14,630)	-	14,630	-	-	(7,315)	-	7,315	-	-	(4,206,200)	-	4,206,200
Net Non-Operating Income (Expense)	(1,382,336)	(1,381,000)	(1,466,386)	(1,336)	84,050	(6,910,867)	(6,909,300)	(7,118,106)	(1,567)	207,239	(17,423,386)	(17,362,125)	(21,301,196)	(61,260)	3,877,811
Net Income (Loss)	1,185,442	368,814	(340,638)	816,628	1,526,080	2,272,163	1,455,814	(889,133)	816,350	3,161,296	187,639	865,692	(4,575,013)	(678,053)	4,762,652
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	4,143,748	3,536,000	3,139,888	607,748	1,003,860	18,113,723	17,506,200	15,569,684	607,523	2,544,039	45,403,200	46,003,744	40,803,339	(600,544)	4,599,861
Operating Expenses (ex D&A)	(1,084,816)	(1,295,186)	(1,524,140)	210,371	439,324	(6,474,922)	(6,685,286)	(6,890,711)	210,364	415,789	(21,899,375)	(21,882,064)	(17,959,759)	(17,311)	(3,939,616)
Non-Cash Working Capital Changes	(1,205,335)	(1,204,932)	(907,168)	(403)	(298,167)	(1,100,109)	(1,100,028)	(2,592,052)	(81)	1,491,943	(1,380,681)	50,001	(1,934,019)	(1,430,682)	553,338
Net Cash Provided by (Used in) Operating Activities	1,853,597	1,035,882	708,580	817,716	1,145,017	10,538,692	9,720,885	6,086,921	817,807	4,451,770	22,123,144	24,171,680	20,909,561	(2,048,536)	1,213,583
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	2,000,000	-	(2,000,000)	-	
Interest Payments	-	-	-	-	-	-	-	-	-	-	(11,565,086)	(11,565,086)	(10,651,666)	-	(913,420)
Principal Payments	-	-	-	-	-	-	-	-	-	-	(2,660,831)	(2,660,831)	(1,149,035)	-	(1,511,796)
Net Cash Provided by (Used in) Financing Activities	-	-	-	-	-	-	-	-	-	-	(14,225,917)	(12,225,917)	(11,800,701)	(2,000,000)	(2,425,216)
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	-	-	(14,630)	-	14,630	(615,300)	(615,300)	(7,315)	-	(607,985)	(1,230,600)	(1,230,600)	(4,206,200)	-	2,975,600
Capital Expenditures, net	(288,814)	(301,200)	(188,321)	12,386	(100,493)	(1,768,932)	(1,781,318)	(658,024)	12,386	(1,110,908)	(5,631,046)	(6,224,576)	(3,028,551)	593,530	(2,602,496)
Net Cash Provided By (Used In) Capital and Related Activities	(288,814)	(301,200)	(202,952)	12,386	(85,862)	(2,384,232)	(2,396,618)	(665,339)	12,386	(1,718,893)	(6,861,646)	(7,455,176)	(7,234,751)	593,530	373,104
Cash Flows From Investing Activities															
Investments Converting To Cash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Purchased Investments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	399	2,000	1,528	(1,601)	(1,129)	2,808	4,500	155,625	(1,692)	(152,817)	110,500	172,960	162,074	(62,460)	(51,574)
Net Cash Provided By (Used In) Investing Activities	399	2,000	1,528	(1,601)	(1,129)	2,808	4,500	155,625	(1,692)	(152,817)	110,500	172,960	162,074	(62,460)	(51,574)
FUND NET CASH FLOWS	1,565,182	736,682	507,156	828,500	1,058,026	8,157,267	7,328,767	5,577,207	828,500	2,580,060	1,146,080	4,663,547	2,036,183	(3,517,467)	(890,103)
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	3,784,528	3,444,000	3,028,470	340,528	756,057	16,872,675	16,532,300	14,928,116	340,375	1,944,559	41,206,300	41,996,514	37,983,732	(790,214)	3,222,568
Operating Expenses (Cash Based)	(1,084,816)	(1,295,186)	(1,524,140)	210,371	439,324	(6,474,922)	(6,685,286)	(6,890,711)	210,364	415,789	(21,899,375)	(21,882,064)	(17,959,759)	(17,311)	(3,939,616)
Interest Income	399	2,000	1,528	(1,601)	(1,129)	2,808	4,500	155,625	(1,692)	(152,817)	110,500	172,960	162,074	(62,460)	(51,574)
Annual Lease Payment (City)	(102,550)	(102,550)	(44,438)	-	(58,112)	(512,750)	(512,750)	(222,191)	-	(290,559)	(1,230,600)	(1,230,600)	(533,258)	-	(697,342)
Non-Operating Revenues (Expenses)	359,220	92,000	96,787	267,220	262,433	1,241,048	973,900	634,253	267,148	606,795	4,196,900	4,007,230	(1,386,593)	189,670	5,583,493
Cash Available For Debt Service	2,956,781	2,140,264	1,558,207	816,517	1,398,574	11,128,858	10,312,664	8,605,092	816,195	2,523,766	22,383,725	23,064,040	18,266,196	(680,315)	4,117,529
Interest Paid	963,757	963,757	887,639	-	76,118	4,818,786	4,818,786	4,438,194	-	380,592	11,565,086	11,565,086	10,651,666	-	913,420
Debt Retirement (Principal Payments)	221,736	221,736	95,753	-	125,983	1,108,680	1,108,680	478,765	-	629,915	2,660,831	2,660,831	1,149,035	-	1,511,796
Total Debt Service	1,185,493	1,185,493	983,392	-	202,101	5,927,465	5,927,465	4,916,959	-	1,010,507	14,225,917	14,225,917	11,800,701	-	2,425,216
Debt Service Ratio	2.49	1.81	1.58	0.69	0.91	1.88	1.74	1.75	0.14	0.13	1.57	1.62	1.55	(0.05)	0.03

**LEHIGH COUNTY AUTHORITY
VARIANCE ANALYSIS - MONTH
For the Period Ended May 31, 2021**

City Division				
				Comments
Actual	Q2 FC	FC Var		
STATEMENTS OF ACTIVITIES				
Operating Revenues:				
User Charges			Higher water charges from industrial, commercial, and residential along with higher wastewater charges from municipalities with a partial offset from lower residential revenues on the wastewater side	
3,784,528	3,444,000	340,528		
Connection & System Charges	350,482	89,000	Higher tapping fees and higher project reimbursement	
Other Miscellaneous Revenues	8,738	3,000	5,738	
Total Operating Revenues	4,143,748	3,536,000	607,748	Higher user charges and lower system & connection charges
Operating Expenses:				
Personnel	587,677	587,186	(491)	
Shared Services - General & Administrative	153,558	145,000	(8,558)	
Utilities	141,043	180,000	38,957	
Materials and Supplies	131,697	156,500	24,803	
Miscellaneous Services	54,517	174,500	119,983	
Treatment and Transportation	5,813	1,000	(4,813)	
Depreciation and Amortization	491,154	491,000	(154)	
Major Maintenance Expenses	10,510	50,000	39,490	
Other Miscellaneous	-	1,000	1,000	
Total Operating Expenses	1,575,970	1,786,186	210,217	Lower utilities, materials/supplies, services, and major maintenance
Net Operating Profit	2,567,778	1,749,814	817,964	Higher operating revenues, lower operating expenses
Non-Operating Income (Expense)				
Interest Income	399	2,000	(1,601)	
Interest (Expense)	(1,382,735)	(1,383,000)	265	
Other Miscellaneous	-	-	-	
Net Non-Operating Income (Expense)	(1,382,336)	(1,381,000)	(1,336)	Lower interest income offset partly by lower interest expense
Net Income (Loss)	1,185,442	368,814	816,628	Higher operating revenues, lower operating expenses with a small unfavorable offset from interest revenue
CASH FLOW STATEMENT				
Cash Flows From Operating Activities				
Operating Revenues	4,143,748	3,536,000	607,748	
Operating Expenses (ex D&A)	(1,084,816)	(1,295,186)	210,371	
Non-Cash Working Capital Changes	(1,205,335)	(1,204,932)	(403)	
Net Cash Provided by (Used in) Operating Activities	1,853,597	1,035,882	817,716	Higher operating revenues, lower operating expenses, slight offset from unfavorable working capital movements
Cash Flows From Financing Activities				
Capital Contributions	-	-	-	
Proceeds New Borrowing	-	-	-	
Interest Payments	-	-	-	
Principal Payments	-	-	-	
Net Cash Provided by (Used in) Financing Activities	-	-	-	
Cash Flows from Capital and Related Activities				
Non-Operating Income (Expenses)	-	-	-	
Capital Expenditures, net	(288,814)	(301,200)	12,386	
Net Cash Provided By (Used In) Capital and Related Activities	(288,814)	(301,200)	12,386	Slightly lower project spending
Cash Flows From Investing Activities				
Investments Converting To Cash	-	-	-	
Purchased Investments	-	-	-	
Interest Income	399	2,000	(1,601)	
Net Cash Provided By (Used In) Investing Activities	399	2,000	(1,601)	Lower interest income
FUND NET CASH FLOWS	1,565,182	736,682	828,500	Higher cash from operations aided by slightly lower capex with a small unfavorable effect from lower interest income

**LEHIGH COUNTY AUTHORITY
CASH & INVESTMENT SUMMARY
For the Period Ended May 31, 2021**

	Suburban Water				Suburban Wastewater				City Division				Total			
	5/31/2021 Actual	2021 Forecast	2021 Budget	2020 Actual	5/31/2021 Actual	2021 Forecast	2021 Budget	2020 Actual	5/31/2021 Actual	2021 Forecast	2021 Budget	2020 Actual	5/31/2021 Actual	2021 Forecast	2021 Budget	2020 Actual
Cash																
Operating																
Unrestricted	6,989,184	4,290,776	1,173,430	5,206,224	(3,427,757)	158,187	4,315,728	(217,015)	7,381,845	(1,927,303)	19,638,366	1,378,271	10,943,272	2,521,661	25,127,525	6,367,480
Restricted	-	-	2,532,181	-	-	272	0	272	16,576,496	23,992,555	1,614,754	23,992,617	16,576,496	23,992,827	4,146,935	23,992,889
Total Operating	6,989,184	4,290,776	3,705,611	5,206,224	(3,427,757)	158,459	4,315,728	(216,743)	23,958,341	22,065,252	21,253,120	25,370,888	27,519,769	26,514,488	29,274,460	30,360,369
Capital																
Unrestricted	319,665	319,665	2,037,248	2,037,248	10,378,887	10,378,887	7,672,019	7,672,019	4,621,634	4,621,634	169,980	169,980	15,320,187	15,320,187	9,879,247	9,879,247
Restricted	95,418	-	-	-	338,274	337,932	337,932	337,932	7,500,062	7,500,062	7,500,000	7,500,000	7,933,753	7,837,994	7,837,932	7,837,932
Total Capital	415,083	319,665	2,037,248	2,037,248	10,717,161	10,716,819	8,009,951	8,009,951	12,121,696	12,121,696	7,669,980	7,669,980	23,253,940	23,158,180	17,717,179	17,717,179
Other Restricted																
Debt Reserves	1,452,187	1,858,493	1,043,094	1,858,493	-	-	-	-	33,572,767	28,454,669	37,684,197	28,454,669	35,024,954	30,313,162	38,727,291	30,313,162
Escrow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Other Restricted	1,452,187	1,858,493	1,043,094	1,858,493	-	-	-	-	33,572,767	28,454,669	37,684,197	28,454,669	35,024,954	30,313,162	38,727,291	30,313,162
Total Cash	8,856,455	6,468,934	6,785,954	9,101,965	7,289,404	10,875,278	12,325,679	7,793,208	69,652,804	62,641,618	66,607,297	61,495,537	85,798,663	79,985,830	85,718,930	78,390,710
Investments																
Operating																
Unrestricted	1,983,744	1,497,825	2,136,930	1,497,825	-	5,387,746	6,757,276	5,387,746	-	-	-	-	1,983,744	6,885,571	8,894,206	6,885,571
Restricted	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating	1,983,744	1,497,825	2,136,930	1,497,825	-	5,387,746	6,757,276	5,387,746	-	-	-	-	1,983,744	6,885,571	8,894,206	6,885,571
Capital																
Unrestricted	1,000,050	1,000,000	1,000,000	1,000,000	6,886,319	1,000,000	1,000,000	1,000,000	-	-	-	-	7,886,369	2,000,000	2,000,000	2,000,000
Restricted	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Capital	1,000,050	1,000,000	1,000,000	1,000,000	6,886,319	1,000,000	1,000,000	1,000,000	-	-	-	-	7,886,369	2,000,000	2,000,000	2,000,000
Other Restricted																
Debt Reserves	-	244,924	-	244,924	-	-	-	-	-	-	-	-	-	244,924	-	244,924
Escrow	5,789,883	4,210,752	4,236,279	4,210,752	-	-	-	-	-	-	-	-	5,789,883	4,210,752	4,236,279	4,210,752
Total Other Restricted	5,789,883	4,455,676	4,236,279	4,455,676	-	-	-	-	-	-	-	-	5,789,883	4,455,676	4,236,279	4,455,676
Total Investments	8,773,677	6,953,501	7,373,209	6,953,501	6,886,319	6,387,746	7,757,276	6,387,746	-	-	-	-	15,659,996	13,341,247	15,130,485	13,341,247
Total Cash and Investments	17,630,132	13,422,435	14,159,163	16,055,466	14,175,723	17,263,024	20,082,955	14,180,954	69,652,804	62,641,618	66,607,297	61,495,537	101,458,659	93,327,077	100,849,415	91,731,957
Summary																
Cash																
Unrestricted	7,308,850	4,610,441	3,210,679	7,243,472	6,951,130	10,537,074	11,987,747	7,455,004	12,003,479	2,694,332	19,808,346	1,548,251	26,263,459	17,841,847	35,006,772	16,246,727
Restricted	1,547,605	1,858,493	3,575,275	1,858,493	338,274	338,204	337,932	338,204	57,649,325	59,947,286	46,798,951	59,947,286	59,535,204	62,143,983	50,712,158	62,143,983
Total Cash	8,856,455	6,468,934	6,785,954	9,101,965	7,289,404	10,875,278	12,325,679	7,793,208	69,652,804	62,641,618	66,607,297	61,495,537	85,798,663	79,985,830	85,718,930	78,390,710
Investments																
Unrestricted	2,983,794	2,497,825	3,136,930	2,497,825	6,886,319	6,387,746	7,757,276	6,387,746	-	-	-	-	9,870,113	8,885,571	10,894,206	8,885,571
Restricted	5,789,883	4,455,676	4,236,279	4,455,676	-	-	-	-	-	-	-	-	5,789,883	4,455,676	4,236,279	4,455,676
Total Investments	8,773,677	6,953,501	7,373,209	6,953,501	6,886,319	6,387,746	7,757,276	6,387,746	-	-	-	-	15,659,996	13,341,247	15,130,485	13,341,247
Total Cash and Investments	17,630,132	13,422,435	14,159,163	16,055,466	14,175,723	17,263,024	20,082,955	14,180,954	69,652,804	62,641,618	66,607,297	61,495,537	101,458,659	93,327,077	100,849,415	91,731,957

Lehigh County Authority

System Operations Review - May 2021

Presented: June 28, 2021

<u>Critical Activities</u>	<u>System</u>	<u>Description</u>	<u>May-21</u>	<u>2021 Totals</u>	<u>2020 Totals</u>	<u>Permit</u>
			<u>Daily Avg (MGD)</u>	<u>Daily Avg (MGD)</u>	<u>Daily Avg (MGD)</u>	<u>Daily Max (MGD)</u>
Water Production	Allentown	Total	22.81	21.63	21.37	39.0
		Schantz Spring	7.06	7.60	7.31	9.0
		Crystal Spring	3.80	3.73	3.80	4.0
		Little Lehigh Creek	11.90	10.25	10.17	30.0
		Lehigh River	0.05	0.06	0.09	28.0
	Central Lehigh	Total	11.86	10.60	10.24	19.04 MGD Avg
		Feed from Allentown	8.01	7.17	6.71	7.0 MGD Avg 10.5 MGD Max
		Well Production (CLD)	3.85	3.43	3.53	8.54 MGD Avg
		Sum of all (12) other Suburban Water Systems	0.15	0.13	0.15	1.71 Sum of all wells
Wastewater Treatment		Kline's Island	30.89	33.11	32.27	40.0
		Pretreatment Plant	5.16	5.23	4.94	5.75 (design capacity)
		Sum of all (5) other Suburban WW Systems	0.17	0.21	0.21	0.36
			<u>May-21</u>	<u>2021 Totals</u>	<u>2020 Totals</u>	<u>2019 Totals</u>
Precipitation Totals (inches)			3.56	14.91	49.57	60.66
Compliance Reports Submitted to Allentown			17	137	275	278
Notices of Violation (NOVs)		(Allentown + Suburban)	0	0	2	1
Sanitary Sewer Overflows (SSOs)/Bypasses		(Allentown + Suburban)	0	5	44	37
Main Breaks Repaired		Allentown	0	15	19	20
		Suburban	2	8	17	12
Customer Service Phone Inquiries		(Allentown + Suburban)	1,637	8,163	16,772	22,992
Water Shutoffs for Non-Payment		(Allentown + Suburban)	213	441	280	1,956
Injury Accidents		(Allentown + Suburban)	0	6	10	10
Emergency Declarations		Allentown	0	0	(4)@\$750,058	(2)@ \$152,053
		Suburban	0	0	(1)@\$110,000	(1) @ \$19,335
<p>Significant Repairs/Upgrades: The sodium hypochlorite generation system at Schantz Spring that was originally installed in 2007 was replaced by a new, very compact system. The original system was badly out of date and needed to be replaced. The unit produces 0.1% sodium hypochlorite which must be injected at the spring because the time spent in the transmission line is needed for 4-log disinfection. The original unit replaced an antiquated chlorination system. Using low strength hypo, and having the building right next to the headwaters of Cedar Creek, we didn't need to install any secondary containment. The new system produces 150 pounds of chlorine per day compared to the original unit that only produced 125 pounds per day. Also, the new unit runs off 480V, compared to 240V previously.</p>						
<p>Description of NOVs and/or SSOs: There were no SSOs, bypasses or NOVs during May, 2021 for the Allentown systems or any of the suburban systems.</p>						
<p>Other Highlights: Nothing to report.</p>						