



LCA Main Office:
1053 Spruce Road
Wescosville, PA 18106
610-398-2503

Agendas & Minutes Posted:
www.lehighcountyauthority.org

LEHIGH COUNTY AUTHORITY

Published: June 1, 2026

BOARD MEETING AGENDA – June 8, 2026 – 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 the public record. Recordings may be retained or destroyed at LCA's discretion.

- *Public Participation Sign-In Request*

2. Review of Agenda / Executive Sessions

- Additions to Agenda (vote required if action will be taken)

3. Approval of Minutes

- *April 27, 2026 Board Meeting minutes*

4. Committee Reports

5. Public Comments

6. Action / Discussion Items:

FINANCE AND ADMINISTRATION

WATER

WASTEWATER

- *Industrial Pretreatment Plant Master Plan (Discussion / Approval)*
- *Allentown Division – Kline's Island WWTP – 2026 Structural Upgrades (Approval) (green)* (digital Board packet, pages 9-14)

7. Monthly Project Updates / Information Items (1st Board meeting per month) (digital Board packet, pages 15-21) – **June 2026 report attached**

8. Capital Project Update Report (Quarterly) (digital Board packet, pages 22-31) – **Q1 2026 report attached**

9. Monthly Financial Report (2nd Board meeting per month)

10. Monthly Safety Report (2nd Board meeting per month)
11. Monthly System Operations Report (2nd Board meeting per month)
12. Staff Comments
13. Solicitor's Comments
14. Public Comments / Other Comments
15. Board Member Comments
16. Executive Sessions
17. Adjournment

UPCOMING BOARD MEETINGS		
June 22, 2026	July 13, 2026	July 27, 2026

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

April 27, 2026

The Regular Meeting of the Lehigh County Authority Board of Directors was called to order at 12:00 p.m. on Monday, April 27, 2026, Chairman Amir Famili presiding. The meeting was hybrid via in-person attendance and video and audio advanced communication technology (“ACT”), using the Zoom internet application, including telephone option. Each Board member and other attendees of the meeting were able to hear each other attendee and be heard by each other attendee. The public could also participate in the meeting in-person or via ACT, using the Zoom internet application, including telephone option. A roll call of Board members present was taken. Amir Famili, Jeff Morgan, Linda Rosenfeld, Peter Dent, Minal Amin, and Vijay Singh were present for roll call and remained for the duration of the meeting. Sean Ziller was present for roll call but left the meeting at 12:45 p.m. Ted Lyons was present for roll call but left the meeting at 2:02 p.m.

Attorney Kevin Reid of the KingSpry law firm, the Authority’s Solicitor, was present along with Authority Staff, Liesel Gross, Ed Klein, Andrew Moore, Chris Moughan, AJ Capuzzi, Chuck Volk, Phil DePoe, Taylor Stakes, and Lisa Miller.

Chairman Famili announced that the Board received their electronic and hard copies of the Board packet in advance. A copy of the packet is also available online.

Chairman Famili introduced a new member of the Board, Vijay Singh, and invited him to provide a brief summary of his background and experience.

REVIEW OF AGENDA

Liesel Gross stated that there are no changes to the agenda and no Executive Session is planned. She noted that there had been an update to the agenda after the mailing last week which was emailed to the Board and Staff.

APPROVAL OF MINUTES

April 13, 2026 Meeting Minutes

On a motion by Linda Rosenfeld, seconded by Ted Lyons, the Board approved the minutes from the April 13, 2026 meeting as presented (8-0).

Committee Reports

Liesel Gross said a draft copy of the April 13, 2026, Governance Committee meeting minutes are attached to the agenda for the Board’s information, and they will be reviewed and approved by the Committee at their next meeting. Peter Dent, Chair of the Governance Committee, announced that Chairman Famili will be forming a Finance Committee in the coming weeks. He also announced that there will be facility tours coming up and encouraged Board members to sign up.

PUBLIC COMMENTS

None.

Resolution No. 4-2026-1: Destruction of Authority Documents

Liesel Gross explained that this is a standard procedure of document destruction that the Authority follows at least once per year in accordance with the Pennsylvania Municipal Records Act. A list of documents for destruction is attached to the Resolution.

On a motion by Linda Rosenfeld, seconded by Jeff Morgan, the Board approved Resolution No. 4-2026-1 (8-0).

Allentown Division - Water Filtration Plant: PFAS Treatment

Amy Rohrbach provided background information for the PFAS treatment system project for Crystal Spring. During design, it was determined that additional services would be necessary due to requests from the Authority and the City of Allentown. Ms. Rohrbach provided details of the eight tasks covered under the Change Order being requested. The tasks include additional conceptual engineering, scope of work additions, rate escalation for calendar year 2026, auxiliary spring chamber recommendations, additional geotechnical investigation, additional detailed design scope, additional permitting services, and pre-procurement services.

Chairman Famili asked if all the stakeholders attended the start of the project so that some of these changes could have been avoided. Amy Rohrbach said that it's a new type of facility and project for the Authority and there were a lot of unknowns going into the project. Mr. Famili asked if there are other facilities the staff could visit to learn more about the new treatment process and lessons learned from their projects. AJ Capuzzi said the staff visited a site owned by Aqua America that was using similar pressure vessels, and this is where they learned about the need for dehumidification to reduce corrosion and mold buildup.

On a motion by Linda Rosenfeld, seconded by Peter Dent, the Board approved the Professional Services Authorization Amendment 1 – AECOM in the amount of \$199,364.00 (8-0).

Allentown Division – Lead Service Line Replacement Cycle 3

Liesel Gross reported that the Authority received Pennvest approval on April 15, 2026, for \$7,266,220.00 in grants and \$8,173,780.00 in loans for this project. Anton Siekmann provided details of the project scope that consists of the replacement of 1,000 lead or galvanized water service lines. The replacements will be focused in the City of Allentown, specifically in Census tracts 7, 8, 19, 21, and 97. These areas were chosen to support the prioritization of lead pipe removal in areas with low-income households and households who are more vulnerable to the public health impacts of lead in drinking water. Mr. Siekmann explained that the majority of the cost of the project is to perform potholing to determine where the lines are located.

On a motion by Minal Amin, seconded by Jeff Morgan, the Board approved the Capital Project Authorization for the Final Design and Bidding Phase of the Allentown Division Lead Service Line Replacement Cycle 3 Project in the amount of \$847,300.00 which includes the Professional Services Authorization for Final Design and Bidding Services to CDM Smith in the amount of \$707,300.00 (8-0).

Allentown Division – Schantz Spring WFP Interconnection

Anton Siekmann presented an overview of the project which is to optimize the use of Schantz Spring for increased protection of public health. Schantz Spring is currently classified as a groundwater source and therefore not required to undergo coagulation treatment and filtration. However, water quality is impacted at times by increased turbidity. In March 2026, the Authority began work on conceptual design of potential interconnection at the Water Filtration Plant. The next planning phase includes bench-scale testing of treatment of Schantz Spring water. The study will evaluate coagulant dosing, filter effluent turbidity, filter head loss and filter run duration, and backwashing effectiveness to support regulatory coordination and future design decisions.

Vijay Singh asked how these projects are chosen. AJ Capuzzi explained the annual capital planning process and how the projects are evaluated and scored based on age, condition, regulatory requirements, and lease requirements. He said that public health projects score the highest priority. There was additional discussion regarding the process of testing turbidity.

On a motion by Peter Dent, seconded by Linda Rosenfeld, the Board approved the Capital Project Authorization for the Planning Phase of the Schantz Spring WFP Interconnection Project in the amount of \$234,800.00 which includes the Professional Services Authorization for Planning – Pilot Scale Filtration Testing to GFT in the amount of \$184,800.00 (7-0).

Industrial Pretreatment Plant Master Plan

Liesel Gross said an email invitation has been sent to the Board to tour the Industrial Pretreatment Plant on June 4, 2026, at 1:00 p.m. Taylor Stakes is organizing the tour and has also invited some people from the County of Lehigh to attend. The tour also includes a tour of Kline's Island Wastewater Treatment Plant. There is another tour on June 11, 2026, in the evening. She said detailed conversations are continuing regarding long-term plans for this facility with Upper Macungie Township engineer and staff.

Allentown Division – Sanitary Sewer Collection System: City of Allentown Manhole Rehabilitation

Jason Peters provided background and an overview of the Cycle 2 Manhole Rehabilitation project to rehabilitate approximately 425 manholes throughout the Industrial, Tioga, and Juniata drainage basins in the City of Allentown. Mr. Peters said that 78 of those manholes will be contracted work due to the large-scale rehabilitation which includes replacement or resetting of frames, covers, and water tight chimney wrapping. The Field Services staff will complete the non-structural maintenance work on the remaining 347 manholes.

Mr. Peters explained the disparity in the bids received noting that Triangle Contracting did the work for the Cycle 1 project. He said that Environmental Service Corporation is currently working in the Borough of Emmaus which may explain the lower bid.

Vijay Singh asked whether the staff time shown in the authorization is for new staff or an allocation of existing staff. Ed Klein explained the budgeting process and noted that staff costs are included in the annual budget and then allocated to capital projects to ensure proper cost accounting for each project. There was some additional discussion about the budgeting process for capital projects.

On a motion by Jeff Morgan, seconded by Minal Amin, the Board approved the Capital Project Authorization for the Construction Phase of the Allentown Division Cycle 2 Manhole Rehabilitation Project in the amount of \$571,280.00 which includes the Professional Services Authorization for Construction Engineering and Administration Services to Arcadis in the amount of \$140,000.00 and the General Construction Contract to Environmental Service Corporation in the amount of \$381,280.00 (7-0).

Allentown Division – Kline's Island WWTP – Nitrification Study

Stephen Boone provided an overview of one of the long-term strategies under evaluation for the Kline's Island Sewer System to reduce the scope of treatment at the Industrial Pretreatment Plant (PTP). This will result in higher amounts of organic loading being transported downstream to the Kline's Island Wastewater Treatment Plant (KIWWTP). One of the immediate-term projects in the KIWWTP Master Plan is to stress test the plant's nitrification performance to understand biological

treatment capacity. Mr. Boone provided details on how the stress test will be performed to meet effluent limits, mostly ammonia, at an upper threshold of organic loading.

Peter Dent asked how this project relates to the Act 537 Plan. Phil DePoe stated that this study relates to the Act 537 Plan because the treatment of higher organic loading is driven by growth in the region that is included in the Plan, as well as operational changes at the PTP. Chairman Famili asked how the new plastic media that was recently installed at the KIWWTP will impact this testing process. Chuck Volk said the plant is not expected to see much of a change in treatment performance as a result of changing the plastic media. Andrew Moore noted the age and structural integrity of the existing plastic media were the primary drivers for that project.

On a motion by Peter Dent, seconded by Linda Rosenfeld, the Board approved the Capital Project Authorization for the Allentown Division KIWWTP Nitrification Stress Testing Study in the amount of \$228,290.00 which includes the Professional Services Authorization to AECOM in the amount of \$178,290.00 (7-0).

Kline's Island Sewer System – Act 537 Plan

Liesel Gross presented information on the Kline's Island Sewer System (KISS) and provided an overview of the system and the Act 537 Plan that was approved by the 15 KISS municipalities in October 2025. The system serves approximately 270,000 people and treats 32 million gallons of wastewater daily. The system is facing major challenges such as aging infrastructure, size of the existing infrastructure, capacity for new connections, and regulatory oversight. Phil DePoe explained the inflow and infiltration (I&I) situation and provided details of the Plan. Beginning in 2007, the EPA issued Administrative Orders due to the excessive sanitary sewer overflows and bypasses and requiring a regional Act 537 Plan to find a solution and fix the problem. The estimated cost for the Act 537 Plan is between \$123 million and \$135 million dollars over the next five years. Mr. DePoe reviewed the seven commitments covered in the Plan including a future flow characterization study, possible new intermunicipal agreements, regular reporting to DEP, I&I source reduction, sewage billing meters, KIWWTP pump upgrades, and a continued connection management plan. The continued connection management plan will require full scale planning modules to be submitted to DEP for approval.

Liesel Gross noted that the Act 537 Plan was approved by DEP on April 3, 2026, and reviewed the primary implementation requirements included in the DEP approval letter. The KISS municipalities met last week and discussed next steps, which are outlined in the memo provided to the Board.

There was some discussion on the I&I reporting. Chairman Famili congratulated the team for getting the Plan approved and noted the importance of working with the municipalities to change the agreements and billing process to ensure an equitable distribution of costs.

MONTHLY FINANCIAL REPORT

Ed Klein gave an overview of the March 2026 financial statements, highlighting variances between actual expenses and budgeted or forecasted expenses. Mr. Klein reported that both net income and cash flows for all three funds are better than forecasted. He also reported that the metrics and scorecard for all three funds are in good shape. He noted that the next steps are to look at the second quarter forecast to see if the year-to-date variances are just a timing issue or a deeper review of financial performance is needed.

There was some discussion about interest earnings, which are higher than expected. Ed Klein explained that there has been more cash earning the interest and the interest rates are currently higher.

MONTHLY SAFETY REPORT

Ed Klein reviewed the safety report for March 2026. He reported that there was a total of 21 incidents year-to-date, which included 13 employee incidents and 8 vehicle incidents. The report also highlighted root causes, incidents by body part, incident breakdown by category, a severity classification, and corrective actions.

Liesel Gross noted that this is a new report format and if the Board has any feedback or questions, they should contact her.

MONTHLY SYSTEM OPERATIONS REPORT

Andrew Moore reviewed the March 2026 report noting that water production is lower this month compared to earlier in the year, likely due to the repair of 25 main breaks and leaks over the very cold winter months. He also noted that a higher volume of water is being drawn from the Lehigh River for various reasons including the amount of rain and turbidity. The turbidity in the Lehigh River is easier to treat. He noted that the wastewater flows at Kline's Island has increased due to wet weather. Mr. Moore also reported that a bypass occurred at the Heidelberg Heights WWTP due to a storm that produced 1.60 inches of rainfall. He reviewed permit exceedances at the Sand Spring and Wynnewood Terrace wastewater treatment plants.

The Board asked about the status of the drought and communications about the drought. Andrew Moore stated that conditions have improved slightly and groundwater levels have slightly rebounded. He also noted that the Little Lehigh Creek levels are higher than they were a couple of months ago. However, the drought conditions have persisted and are concerning. Liesel Gross added that the Authority is hosting an industry advisory group meeting this week to discuss the drought conditions with large industrial users.

STAFF COMMENTS

Liesel Gross reported that she, Andrew Moore and Chris Moughan attended the 2026 American Water Works Association Water Matters Fly-In in Washington DC in April to talk to legislators about infrastructure funding, PFAS liability, cybersecurity, and a host of other issues.

Peter Dent asked if there has been any success on legislation to put "no flush" labels on wipes. Ms. Gross said she has not heard specifically about the legislation.

SOLICITOR'S COMMENTS

None.

PUBLIC COMMENTS / OTHER COMMENTS

None.

BOARD MEMBER COMMENTS

None.

EXECUTIVE SESSION

None.

ADJOURNMENT

There being no further business, the Chairman adjourned the meeting at 2:06 p.m.

Linda A. Rosenfeld
Secretary

MEMORANDUM

Date: June 8, 2026

To: Lehigh County Authority Board of Directors
From: Amy Rohrbach, Project Manager
Subject: Allentown Division – KIWWTP 2026 Architectural & Structural Upgrades Project - Construction Phase

MOTIONS / APPROVALS REQUESTED:

No.	Item	Amount
1	Capital Project Authorization – Construction Phase	\$469,252.37
2 ⁽¹⁾	Professional Services Authorization – CHA Consulting	\$29,400
3 ⁽¹⁾	General Contract Award – Zimmerman Environmental	\$394,852.37

(1) Included in the Capital Project Authorization.

PROJECT BACKGROUND:

As a condition of the Trust Indenture with the Manufacturers and Traders Trust Company for the Allentown Water & Sewer Lease bonds, an annual Consulting Engineer’s Report is prepared to document the condition of the water and wastewater treatment plants in the City. Based on physical inspections by the engineer, required repairs and upgrades are outlined in the report. Lehigh County Authority (LCA) staff have worked to address minor deficiencies outlined in the annual reports, and capital projects are developed to address more significant needs. This project represents the annual capital improvements to address deficiencies identified through this process at Kline’s Island Wastewater Treatment Plant (KIWWTP).

PROJECT SCOPE:

This project consists of addressing primarily structural steel deficiencies at Plastic Media Trickling Filter #4 (PMTF 4) at KIWWTP. Work includes welding steel plates to columns in areas where web thickness is deficient, installation of column anchor bolts, and two bid alternates which include coating of the top stiffener ring and angle and coating of the steel columns to prolong the lifespan of the steel.

FINANCIAL:

This Project will be funded by the LCA Allentown Division.

PROJECT STATUS:

CHA Consulting completed design in April 2026. The project was advertised for bid on 4/17/2026 and a pre-bid meeting was held on 4/23/2026. Bids were received via PennBID on 5/12/2026. Three bids were received as summarized below.

THIS APPROVAL – CONSTRUCTION PHASE:

The contract time for this work is 140 days from Notice to Proceed to substantial completion. Assuming construction phase authorization at the 6/8/2026 Board meeting, construction is anticipated to conclude by the end of 2026.

BIDDING SUMMARY:

The project consists of a single General Construction Contract. The bid results are summarized below:

Bidder	Base Bid	Bid Alternate 1	Bid Alternate 2
Zimmerman Environmental	\$302,217	\$92,635.37	\$154,670
LB Industries, Inc.	\$113,381	\$317,411	\$177,412
Blooming Glen Contractors, Inc.	\$409,370	\$267,561	\$474,698

The Base Bid includes new anchor bolts installed at column base plates, new structural steel plates to reinforce the columns, and new steel plates to reinforce at each girt connection at Plastic Media Trickle Filter #4. Bid Alternate 1 includes coating the steel of the top ring stiffener and angle. Bid Alternate 2 includes coating the steel columns.

It is LCA’s desire to award the Base Bid plus Bid Alternate 1 with the low bidder being Zimmerman Environmental at their bid of \$394,852.37. Zimmerman Environmental has worked with both LCA and CHA on previous projects and has the capabilities required to perform this project. Consequently, the engineer’s estimate for the Base Bid + Bid Alternate 1 was \$394,000 which is within 1% of the combined Base Bid + Alternate 1 price of the low bidder. Based upon the review of the bids, we recommend award of a contract to Zimmerman Environmental, subject to the receipt of the necessary Performance Bonds, Insurance, and other required documentation.

PROFESSIONAL SERVICES:

CHA Consulting has been LCA’s design consultant on this project and will provide construction administration services for the project. Their work will include:

1. Facilitate of the Agreement and other contractual elements.
2. Prepare for, attend and facilitate pre-construction conference, issue meeting minutes.
3. Prepare for and conduct job conference meeting.
4. Process and review shop drawings and RFIs.
5. Process applications for payment.
6. Process any necessary change orders.
7. Provide part-time construction observation over a 36-week construction period (assume 4 hours per week for 16 weeks).
8. Perform project closeout activities, including punch list development and final inspection.
9. Prepare record drawings.

PROJECT SCHEDULE:

Based on construction phase authorization following the 6/8/2026 Board meeting, the project should conclude by the end of 2026.

FUTURE AUTHORIZATIONS:

Future projects will be developed based on required upgrades outlined in the annual bond indenture engineering reports.



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REQUEST FOR BOARD AUTHORIZATION

Board of Directors Meeting Date: 6/8/2026
 Staff Member Requesting Authorization: Amy Rohrbach
 Department: Capital Works
 Short Description / Title of Project / Purchase: KIWWTP 2026 Architectural & Structural Upgrades
 Project Number (if applicable): 50383

Capital Expense: *(check all that apply)*

- Capital Project >\$250,000
 - Construction / Other Contract(s)
 - Professional Services Authorization
 - Initial Authorization
 - Amended Authorization
- Professional Services Authorization >\$100,000
- Equipment Purchase >\$250,000
- Upsizing / Extension >\$250,000
- Aggregate Change Order >10% of contract and >\$100,000
- Stand-Alone Change Order >\$50,000

Operations Expense:

- Construction / Other Contract >\$250,000
- Professional Services Authorization >\$100,000
- Equipment / Other Individual Item >\$250,000
- Emergency Authorization >\$50,000
- Aggregate Change Order >10% of contract and >\$100,000
- Stand-Alone Change Order >\$50,000

LCA Enterprise Fund: Allentown Division Suburban Water Suburban Wastewater Internal Service / Admin

Current Project Phase: N/A (skip to Description) Planning Conceptual Design Design / Bid Construction

Prior Authorization(s):

Date	Phase	Description	Amount Authorized
1/30/2026	Design/Bid Phase	Design & Bidding services – CHA Consulting	\$27,700
			\$
			\$
Total Prior Authorizations:			\$27,700

Current Authorization Requested:

Description	Amount Requested
Construction Administration Services – CHA Consulting	\$29,400
Construction – Zimmerman Environmental	\$394,852.37
Staff Time	\$20,000
Contingency	\$25,000
	\$
	\$
	\$
Total Amount Requested (this authorization):	\$469,252.37

Future Authorizations:

Phase	Note / Description	Estimated Cost
	N/A	\$
		\$
Estimated Total Project Cost:		\$496,952.37

Short Description: *(please attach supporting documentation, cost justification, trade-in values, proposals, memos, etc.)*

The scope of this project includes structural repairs to the steel columns at Plastic Media Trickling Filter #4 and coating of the top stiffener ring. These repairs were identified during the recent rehabilitation of PMTF #4. This request is for the awarding of a construction contract to Zimmerman Environmental and a construction administration contract to CHA Consulting.

Purchasing Procedure: Formal Bid Request for Proposal Cooperative Purchasing Group / CoStars N/A - Emergency

Motion: _____ **Second:** _____ **Approved?** _____ **Certified by:** _____



May 29, 2026

Amy Rohrbach
Project Manager
Lehigh County Authority
1053 Spruce Road
Wescosville, PA 18106

Subject: LCA Kline's Island Wastewater Treatment Plant (KIWWTP)
2026 Indenture Project
Proposal for Construction Administration Services

Dear Ms. Rohrbach:

We would like to thank you for the opportunity to submit a proposal to provide construction administration services to LCA for the above-referenced project. Below is a project description and summary of our proposed services.

PROJECT DESCRIPTION

CHA Consulting, Inc. (CHA) will provide construction administration services during the rehabilitation and structural steel repairs on Plastic Media Trickling Filter (PMTF) #4 at KIWWTP. Construction administration services are also included for the coating of the top horizontal ring on PMTF #4 based on the selection of Bid Alternate No. 1. This work is expected to be ready for final payment within 180 days (6 months) from Notice to Proceed (NTP). It is anticipated that NTP will be issued in July 2026, with onsite construction starting in August 2026. Project completion is expected to be achieved in January 2027.

SCOPE OF SERVICES

CHA will provide the following construction administration services:

1. Facilitate completion of the Agreement and other contractual elements.
2. Prepare for, attend and facilitate a pre-construction conference.
3. Prepare for and attend one job conference meeting.
4. Process and review shop drawings and RFIs.
5. Process applications for payment.
6. Process any necessary change orders.
7. Provide construction observation over a 36-week construction period, 68 hours of observation (approx. 4 hours per week for 16 weeks).
8. Perform project closeout activities, including punch list development and final inspection.
9. Prepare record drawings.

EXCLUSIONS & ADDITIONAL SCOPE CONSIDERATIONS

The following scope of services is not included in the fee proposal:

1. Testing services.
2. Additional field investigations or studies.
3. Reproduction of contract documents.
4. Fees required for municipal permits.
5. Full-time project representation during construction, unless otherwise indicated above.
6. Scope of work items not previously listed.

PROPOSED FEE

As indicated in the attached fee summary, we propose completing the described services for the base bid scope of work and the selected alternate for the lump sum fee of \$29,400. In the event additional construction administration services are necessary, CHA will proceed only upon written agreement of LCA.

We are prepared to begin work on this project immediately upon authorization. We thank you for the opportunity to help LCA complete this important project. If you have any questions or require any additional information, please contact us at 610-865-3000.

Respectfully submitted,

CHA CONSULTING, INC.



David Wodyka, PE
Section Manager



Craig W Murray, PE
Business Practice Leader

C: Chuck Volk, LCA

Enclosure



**LCA KIWWTP 2026 INDENTURE CONSTRUCTION ADMINISTRATION
ENGINEERING FEE BREAKDOWN**

TOTAL PROJECT HOURS AND FEE WITHOUT ALTERNATE									
Task	Principal & QA/QC	Project Manager	Structural PEs	Construction Manager I	Engineer II	Construction Manager II	Admin	Total Labor Hours	Total Task Labor Fee
1.1 Project Management	0	4	0	0	0	4	0	8	\$ 1,400
1.2 Meetings (Precon + Progress)	0	6	0	6	6	6	0	24	\$ 3,600
1.3 Shop Drawings	0	4	12	0	8	0	0	24	\$ 4,392
1.4 RFIs/Coordination	0	1	2	1	4	0	0	8	\$ 1,279
1.5 Pay Applications	0	2	0	6	0	0	0	8	\$ 1,026
1.6 Change Orders	0	4	0	0	4	0	0	8	\$ 1,308
1.7 Construction Observation	0	4	0	60	4	0	0	68	\$ 7,848
1.8 Punch List and Closeout	0	4	0	4	8	0	8	24	\$ 2,908
1.9 Record Drawings	0	4	0	12	4	0	0	20	\$ 2,616
TOTAL HOURS	0	33	14	89	38	10	8	192	26,377
Hourly Rate	\$ 254	\$ 186	\$ 210	\$ 141	\$ 109	\$ 164	\$ 75	-	-
Total Labor Category Fee	\$ -	\$ 6,138	\$ 2,940	\$ 12,549	\$ 4,142	\$ 1,640	\$ 600	-	\$ 28,009
Reimbursible Expenses									\$ 1,391
TOTAL PROJECT FEE WITHOUT ALTERNATE									\$ 29,400

Lehigh County Authority – Monthly Report to Board of Directors

Upcoming Board Agenda Items & Project Updates – June 2026

Published: June 1, 2026

PART 1 – Upcoming Agenda Items – Action & Discussion Items

FINANCE & ADMINISTRATION

Project Title: Monthly Financial Review

Division / Funding: n/a

Status or Action Desired: Information

Board Action Date: 6/22/2026

Project Phase: n/a

Project Notes: The May 2026 monthly financial report will be presented. Staff Responsibility: Ed Klein

SYSTEM OPERATIONS

Project Title: Quarterly Capital Project Update Report

Division / Funding: n/a

Status or Action Desired: Information

Board Action Date: 6/8/2026

Project Phase: n/a

Project Notes: The first Quarter 2026 capital project update report will be presented. Staff Responsibility: Albert Capuzzi

Project Title: Monthly Safety Report

Division / Funding: n/a

Status or Action Desired: Information

Board Action Date: 6/22/2026

Project Phase: n/a

Project Notes: The May 2026 monthly safety report will be presented. Staff Responsibility: Ed Klein

Project Title: Monthly Operations Report

Division / Funding: n/a

Status or Action Desired: Information

Board Action Date: 6/22/2026

Project Phase: n/a

Project Notes: The May 2026 monthly operations report will be presented. Staff Responsibility: Andrew Moore & Chris Moughan

WASTEWATER PROJECTS – SUBURBAN DIVISION

Project Title: Industrial Pretreatment Plant Master Plan

Division / Funding: Suburban Division

Status or Action Desired: Approval

Board Action Date: Ongoing

Project Phase: Planning Phase

Project Notes: This project involves the preparation of a Master Plan for the LCA Industrial Pretreatment Plant. An initial Master Plan was authorized by the Board on December 13, 2021, with the plan developed in 2022 and delivered in April 2023. The Plan included full-scale condition assessments, review of treatment process optimization, and development of short-term and long-term capital plans. Due to the high cost of facility rehab and expansion, additional value engineering work was completed in March 2024. An external stakeholder engagement process was then initiated to develop additional recommendations for LCA consideration. A review of the stakeholder process and final recommendation for inclusion in the Act 537 Plan was presented at the August 12, 2024 Board meeting. Since that time, significant additional stakeholder engagement has occurred to identify funding sources for a full upgrade to the facility. An update to the PTP evaluation was provided to the LCA Board in August 2025, with a review of the engineering evaluation was provided in September 2025. Beginning in December 2025, staff have presented monthly updates to the LCA Board on discussions with industrial and municipal partners regarding financing of the updated project, and Board approval to enter into negotiations for partner cost-sharing agreements will be requested at a future meeting date, depending on the status or municipal decision-making. Staff Responsibility: Liesel Gross

WASTEWATER PROJECTS – ALLENTOWN DIVISION

Project Title: Kline's Island WWTP - 2026 Structural Upgrades

Division / Funding: Allentown Division

Status or Action Desired: Approval

Board Action Date: 6/8/2022

Project Phase: Construction Phase

Project Notes: As a condition of the financing of LCA's up-front concession payment to the City, LCA entered into a Trust Indenture that requires the preparation of an annual Consulting Engineer's Report. The report identifies physical plant repairs and upgrades required, and reflects progress made in addressing deficiencies. This is an annual project that consists of addressing structural deficiencies at KIWWTP. The 2026 project includes structural repairs to the steel structure of Plastic Media Trickling Filter #4 (PMTF). These repairs were identified during the recent PMTF rehabilitation project. This project was bid in April 2026 with bids due 5/12/26. Request for Board approval for Construction Phase is anticipated for the 6/8/26 meeting. Staff Responsibility: Amy Rohrbach

PART 2 – Project Updates – Information Items

No items for June 2026

PART 3 – Open Project List – No Updates

Project Category	Project Title	Division / Funding	Project Phase	Staff Responsibility
Finance & Administration	LCA Rebranding Strategy	All Divisions	Planning Phase	Taylor Stakes
Finance & Administration	Digital / IT Master Plan	All Divisions	Planning Phase	Stephen Boone
Finance & Administration	LCA Strategic Plan - Progress Reporting	All Divisions	n/a	Liesel Gross
Finance & Administration	LCA Building Optimization Study & Master Plan	All Divisions	Planning Phase	Stephen Boone
System Operations	Watershed Monitoring Program	Suburban Division	Planning Phase	Andrew Moore
Water - Suburban	Applewood Pump Station and CLD Well Station Upgrades	Suburban Division	Design Phase	Amy Kunkel
Water - Suburban	Upper System Pump Station and Main Extension	Suburban Division	Design Phase	Amy Kunkel
Water - Suburban	Emergency Interconnection Agreement (Bortz Property)	Suburban Division	Planning Phase	Phil DePoe & Amy Kunkel
Water - Suburban	2025 Water Meter Replacements	Suburban Division	Construction Phase	Amy Kunkel
Water - Suburban	North Whitehall Division - Second Water System Interconnection	Suburban Division	Design Phase	Amy Kunkel
Water - Suburban	Suburban Division Lead Service Line Inventory Program & Compliance Planning	Suburban Division	Planning Phase	Albert Capuzzi
Water - Suburban	Central Lehigh and North Whitehall Systems – Water Supply Study	Suburban Division	Planning Phase	Phil DePoe
Water - Suburban	Water Main Replacement Program Cycle 8	Suburban Division	Design Phase	Jason Peters
Water - Suburban	Buss Acres Water System Interconnection & PFAS Remediation	Suburban Division	Design Phase	Amy Kunkel
Water - Allentown	Water Main Replacement Program Cycles 9 & 10	Allentown Division	Construction Phase	Jason Peters

Project Category	Project Title	Division / Funding	Project Phase	Staff Responsibility
Water - Allentown	Water Filtration Plant: PFAS Treatment	Allentown Division	Design Phase	Amy Rohrbach
Water - Allentown	Lead Service Line Replacement Cycle 3	Allentown Division	Design Phase	Anton Siekmann
Water - Allentown	Schantz Spring WFP Interconnection	Allentown Division	Design Phase	Anton Siekmann
Water - Allentown	Lead Service Line Replacement Project Cycle 1	Allentown Division	Construction Phase	Reni Keane-Dengel
Water - Allentown	Water Filtration Plant: Fluoride System Upgrades	Allentown Division	Construction Phase	Amy Rohrbach
Water - Allentown	Lead Service Line Replacement Project Cycle 2	Allentown Division	Construction Phase	Anton Siekmann
Water - Allentown	Water Filtration Plant: Redundant Raw Water Line	Allentown Division	Design Phase	Amy Rohrbach
Water - Allentown	30" & 36" East Side Transmission Main Repair Project	Allentown Division	Construction Phase	Jason Peters
Water - Allentown	Lehigh River Pump Station Upgrades	Allentown Division	Design Phase	Amy Rohrbach
Water - Allentown	Allentown Division Lead Service Line Inventory Program & Compliance Planning	Allentown Division	Planning Phase	Reni Keane-Dengel
Water - Allentown	Badger Meter Replacements	Allentown Division	Construction Phase	Amy Kunkel
Water - Allentown	Water Filtration Plant: Emergency Power Design	Allentown Division	Design Phase	Amy Rohrbach
Water - Allentown	Water Main Replacement Program Cycles 9 - 11	Allentown Division	Design Phase	Jason Peters
Water - Allentown	Water Filtration Plant: Filter Upgrade Project	Allentown Division	Construction Phase	Amy Rohrbach
Water - Allentown	Water Filtration Plan: HVAC Upgrades Phase 2	Allentown Division	Construction Phase	Anton Siekmann
Sewer - Act 537	Sanitary Sewer Collection System: City of Allentown Manhole Rehabilitation cycle 2	Allentown Division	Construction Phase	Jason Peters

Project Category	Project Title	Division / Funding	Project Phase	Staff Responsibility
Sewer - Act 537	Sanitary Sewer Collection System: City of Allentown Manhole Inspections	Allentown Division	Planning Phase	Phil DePoe
Sewer - Act 537	Kline's Island Sewer System - Act 537 Plan	City of Allentown (AO)	Planning Phase	Phil DePoe
Sewer - Act 537	KISS System Modeling - Sewage Billing Meter QA/QC Data Analytics and Flow Metering Program	City of Allentown (AO)	Planning Phase	Phil DePoe
Sewer - Act 537	Legal Services: Development of New Intermunicipal Agreement(s)	City of Allentown (AO)	Planning Phase	Liesel Gross
Sewer - Act 537	Upper Western Lehigh Pump Station & Force Main	Suburban Division	Construction Phase	Amy Kunkel
Sewer - Act 537	Western Lehigh Interceptor Parallel Survey	Suburban Division	Planning Phase	Phil DePoe
Sewer - Act 537	Western Lehigh Interceptor Municipalities Test & Seal Lateral Grouting Project, Year 2 (2025)	Suburban Division	Construction Phase	Jason Peters
Sewer - Act 537	Western Lehigh Service Area - Engineering & Program Support	Suburban Division	Planning Phase	Phil DePoe
Sewer - Suburban	Heidelberg Heights Sewer System: I&I Source Reduction Program	Suburban Division	Construction Phase	Chuck Volk
Sewer - Suburban	Pretreatment Plant - Critical Upgrades	Suburban Division	Construction Phase	Chuck Volk
Sewer - Suburban	North Whitehall Township Act 537 Plan	Suburban Division	Planning Phase	Phil DePoe
Sewer - Suburban	Arcadia WWTP Screening System Project	Suburban Division	Construction Phase	Anton Siekmann
Sewer - Suburban	Wynnewood Terrace WWTP Expansion - Developer Cost-Sharing Agreement	Suburban Division	Design Phase	Chuck Volk
Sewer - Suburban	Pretreatment Plant (PTP) Electrical Study Study and Upgrades	Suburban Division	Planning Phase	Chuck Volk
Sewer - Suburban	Lynn Township Corrective Action Plan	Suburban Division	Planning Phase	Chuck Volk
Sewer - Allentown	Kline's Island WWTP - Nitrification Study	Allentown Division	Planning Phase	Stephen Boone

Project Category	Project Title	Division / Funding	Project Phase	Staff Responsibility
Sewer - Allentown	Kline's Island WWTP - Holistic Solids Management Study	Allentown Division	Planning Phase	Stephen Boone
Sewer - Allentown	Sanitary Sewer Collection System: I&I Source Reduction Program (SRP Year 2)	Allentown Division	Construction Phase	Jason Peters
Sewer - Allentown	Kline's Island WWTP - Wet Weather Improvements - Phase 1	Allentown Division	Design Phase	Amy Rohrbach
Sewer - Allentown	KIWWTP Redundant PPL Power Feed	Allentown Division	Design Phase	Amy Rohrbach
Sewer - Allentown	Kline's Island WWTP - Substation No. 1 and Switchgear Replacement	Allentown Division	Construction Phase	Amy Rohrbach
Sewer - Allentown	Kline's Island WWTP - Building Renovations	Allentown Division	Design Phase	Anton Siekmann
Sewer - Allentown	Kline's Island WWTP - Chemically Enhanced Primary Treatment Study	Allentown Division	Planning Phase	Stephen Boone
Sewer - Allentown	Allentown Division I&I Program - Programmatic Support, Trout Creek & Eastside Basins	Allentown Division	Planning Phase	Stephen Boone
Sewer - Allentown	Kline's Island WWTP - 2025 Architectural and Structural Upgrades	Allentown Division	Construction Phase	Anton Siekmann
Sewer - Allentown	Kline's Island WWTP - Final Settling Tanks 1-4 Upgrades	Allentown Division	Construction Phase	Amy Rohrbach
Sewer - Allentown	Sanitary Sewer Collection System: I&I Source Reduction Program (LCA Year 1)	Allentown Division	Construction Phase	Jason Peters

LCA Capital Project Update Report

Q1 2026 (January–March)



Report - Capital Spending Forecast



Reset

Year
2026

CIP Category
All

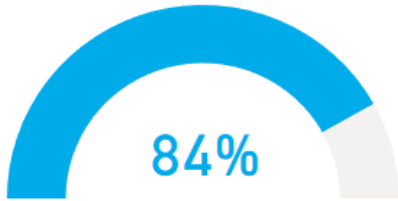
Project Driver
All

Project Name | Project ID
All

Funding
All

Approval Stage
All

2026 Actual vs. Forecast Spend for Q1



\$11.8M of \$14.1M Q1 2026 Forecast Spend

Q1 Delta
-\$2.3M

Q1 Forecast
\$14.1M

2026 Projected vs. Forecast Spend At Year-End

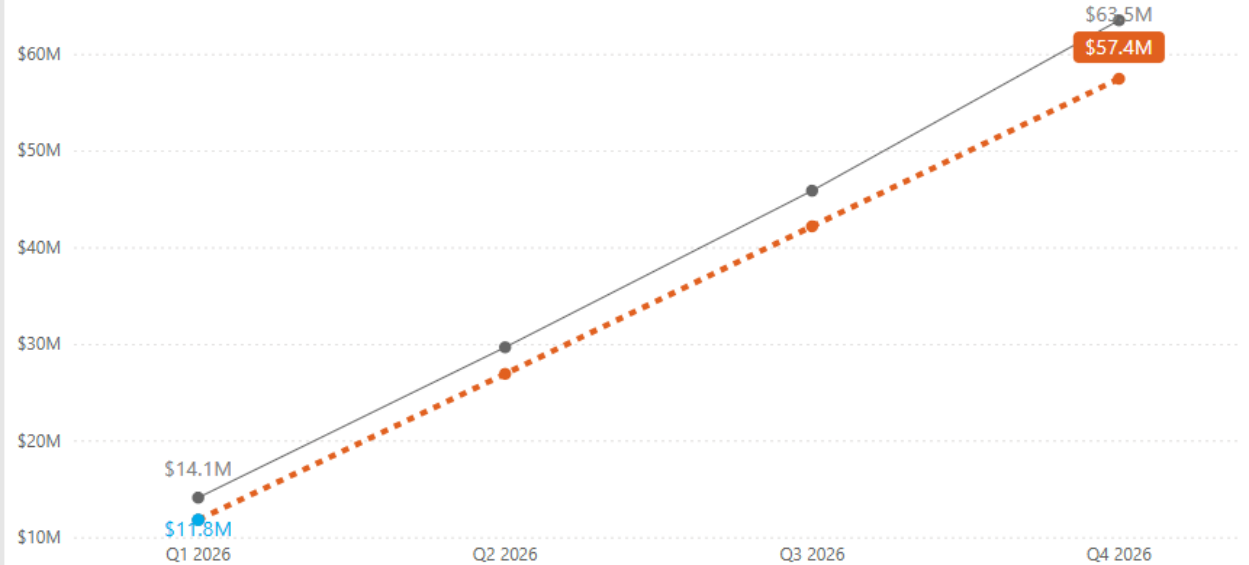


\$57.4M of \$63.5M 2026 Forecast Spend

Year-End Delta
-\$6.1M

2026 Planned
\$63.5M

Forecast — Projected Spend — Actual Spend



Visualize by

CIP Category

Project Driver

Funding

Approval Stage

CIP Category	Number of Projects	Total CIP Budget (Annual)	Actual Spent (YTD)	Actual vs. YTD Forecast Spend	Projected Year-End vs. Annual Forecast Spend
Admin	8	\$1.4M	\$0.0M	20%	101%
SD Wastewater	16	\$6.3M	\$0.8M	52%	83%
City Water	16	\$28.1M	\$4.4M	64%	94%
SD Water	13	\$5.8M	\$0.9M	83%	96%
City Wastewater	15	\$21.9M	\$5.6M	130%	86%
Total	68	\$63.5M	\$11.8M	84%	90%

Capital Plan Cost Variance - Underspent

Top 5 Project that underspent as of Q1 2026

Project Name Project ID	YTD Actual Spent	YTD Forecast	Actual vs Forecast Difference
AD-W-26 Lead Service Line Replacement Program	\$1,203,223	\$3,250,000	▲ -\$2,046,777
AD-W-20 Annual Water Main Replacements	\$80,247	\$1,125,000	-\$1,044,753
SD-S-11 Pretreatment Plant Critical Upgrades	\$22,950	\$500,000	-\$477,050
AD-W-29 WFP HVAC Upgrade Project	\$14,544	\$331,250	-\$316,706
AD-W-25 Lehigh Intake & Transmission Upgrades	\$57,598	\$250,000	-\$192,402

Capital Plan Cost Variance - Overspent

Top 5 Project that overspent as of Q1 2026

Project Name Project ID	YTD Actual Spent	YTD Forecast	Actual vs Forecast Difference
AD-W-13 Large Diameter Valve Replacement Project	\$1,168,419	\$125,000	+\$1,043,419
AD-S-23 WWTP Plastic Media Trickling Filter Rehabilitation Project	\$1,803,171	\$806,250	+\$996,921
AD-S-20 WWTP Electrical Substation Replacement Phase 2	\$876,321	\$206,250	+\$670,071
AD-W-A Annual Projects	\$1,051,727	\$671,250	+\$380,477
SD-W-14 Water Meter Replacement Program	\$196,468	\$0	+\$196,468

Project Schedule Variances

Top 10 Projects with Schedule Variances > 10% original schedule

Project Name	Schedule Variance (Cost-Weighted) ▼	Schedule Variance Reasonings
Upper System PS/Main Extension	1736	Utility / Third-Party / Stakeholder Requirements
Park PS Phase 2 Improvements	894	Material / Equipment Lead Time
Allentown lead service line replacement program cycle 2	761	Utility / Third-Party / Stakeholder Requirements
Water & Sewer Specifications & Standards Update	609	Scope Change / Added Work
PTP Electrical Systems Testing	549	Site Conditions
WFP Filter Upgrades Construction	500	Material / Equipment Lead Time
PTP Critical Asset Upgrade Design	425	Design Changes / Engineering Rework / Design Error
Upper Western Lehigh PS	425	Site Conditions
Wynnewood WWTP Expansion	365	Utility / Third-Party / Stakeholder Requirements
PTP 2.0 Summary Plan Memorandum	273	Scope Change / Added Work




Project Budget Variances

Top 10 Projects with Budget Variances > 5% of Original Budget

Project Name	Cost Variance	Cost Variance Reasonings
Upper Western Lehigh PS	\$819,314	Change in field conditions (eg, sink hole)
KIWWTP Plastic Media Trickling Filter Rehab	\$336,792	LCA-approved new scope change (new work)
PFAS Design/Bidding	\$199,364	LCA-approved new scope change (new work)
PTP Final Clarifier Rehabilitation	\$147,900	Change in field conditions (eg, sink hole)
PTP 2.0 Summary Plan Memorandum	\$141,290	LCA-approved new scope change (new work)
PTP Electrical Systems Testing	\$117,000	LCA-approved new scope change (new work)
Allentown Water Main Cycle 11	\$87,500	LCA-approved new scope change (new work)
KIWWTP Plastic Media Trickling Filter Rehab Construction Admin Services	\$42,000	LCA-approved new scope change (new work)
Allentown Badger Meter Replacement	\$40,447	LCA-approved new scope change (new work)
Additional KISS Modeling	\$25,000	LCA-approved new scope change (new work)

Completed Construction Projects (Q1)

January 2026 – March 2026

Year-Month	Total Costs
 Jan 2026	\$1,088,892
WLSP Lateral Tap Grouting	\$1,088,892
 Feb 2026	\$1,133,865
Allentown Large Valve Replacement Project	\$1,133,865
 Mar 2026	\$232,858
KIWWTP 2025 Indenture Improvements	\$232,858
Total	\$2,455,615

Accomplishments Through May 31, 2026

Q1 Completed & Recently Completed

Q1 (March 31) Completed

- Large Valve Project – Jason Peters
- 2025 WLI Lateral Tap Work - Jason Peters
- 2025 Indenture Work – Anton Siekmann
- Addressed DEP’s comments on the KISS Act 537 – Phil DePoe

Recently Completed

- Heidelberg Private Sewer Laterals complete - reduction in I/I (May '26) - Chuck Volk
- Plastic Media Trickling Filter #4 (May '26) – Amy Rohrbach
- KIWWTP Switchgear and Electrical Substation No. 1 (May '26) – Amy Rohrbach
- KIWWTP Chemically Enhanced Primary Treatment Pilot (May '26)

Accomplishments Through May 31, 2026

Significant Progress & Initiated

Significant Progress

- Rehabilitation of East Side Transmission Main - nearing completion – Jason Peters
- Arcadia Mechanical Screen – nearing completion, Anton Siekmann
- WFP Crystal Spring PFAS Removal - City MCI approval, Completed 60% design, Submitted PWS permit to DEP, Amy Rohrbach
- WFP Filter – Filter 3 nearing completion, Amy Rohrbach
- Pretreatment Plant - Clarifier 1 Installed - Chuck Volk
- Upper Western PS – nearing completion – Amy Kunkel

Initiated

- Lead Service Line Replacement Cycle 2 - Anton Siekmann
- Water Main Replacement Cycle 9/10 - Jason Peters
- KIWWTP Solids Master Plan - Steve Boone
- IT/Digital Master Plan - Steve Boone
- Nitrification Testing - Steve Boone
- Schantz Testing and Design – Steve Boone, Anton Siekmann
- In-house rehab of City MH's – Charlie Myers

Questions?