



LEHIGH COUNTY AUTHORITY

December 9, 2013

BOARD MEETING AGENDA

1. Call to Order
2. Review of Agenda
 - *Public Participation Sign-In Request*
3. Executive Sessions
4. Approval of Minutes
5. Public Comments
6. Action / Discussion Items

FINANCE AND ADMINISTRATION

- *2014 Budget (Approval)*
- *LCA Articles of Amendment – Board Expansion (Approval)*

WATER

- *None*

WASTEWATER

- *2013 SCARP Program Management (Approval)*
 - *CH2MHill Contract Extension (Approval)*
7. System Operations Overview
 8. Staff Comments
 9. Solicitor's Comments
 10. Other Comments :
 11. Adjournment

JANUARY MEETINGS

Workshop Meeting
Board Meeting

January 13 – 12:00 p.m.
January 27 – 12:00 p.m.

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. 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.

FINANCE & ADMINISTRATION

ACTION ITEMS

1. **2014 Budget** (Approval)

Review of the 2014 Budget. The detail sheets are included as a separate attachment.

2. **LCA Articles of Amendment – Board Expansion** (Approval)

Pursuant to the Board discussion at the November Board Meeting, a resolution will be sent prior to the meeting for consideration that would expand the Authority Board to nine members from the present seven members.

DISCUSSION ITEMS

1. ***None.***

INFORMATION ITEMS

1. **Recently Purchased Investments – Certificates of Deposit (CDs)**

Fund	Bank	Location	Amount	Purchase	Due	%
LLRI CR	1st Financial Bank USA	Dakota Dunes, SD	248,000.00	11/14/13	11/14/14	0.35

Fund Descriptions for Investments:

LLRI CR

Little Lehigh Relief Interceptor Capital Reserves

WATER

ACTION ITEMS

1. *None.*

DISCUSSION ITEMS

1. *None.*

INFORMATION ITEMS

1. **Phase 2 Interconnection with Allentown**

We were informed by South Whitehall Township that the contractor did not remove in-flow inserts from sanitary sewer manholes prior to installation of paving riser rings when overlaying W. Walnut Street and Mertz Lane last fall. Livengood Excavators has informed the township that they will cut out the old inserts and install new inserts later this year. Livengood Excavators will address restoration at Schantz Road next spring. **No Current Activity**

2. **Arcadia West Pumping Station Modifications**

The contractors are in the process of submitting their schedules and shop drawings for review.

3. **Upper Milford Central Division Radon Mitigation Study**

Board authorized this project in June and our consultant Cowan Associates (CA) is currently evaluating the existing wells in the Upper Milford Central Division (a/k/a Buss Acres). A Draft report was received in late December and a Draft Final report was received in early April. The final report is currently being reviewed by LCA staff. The report findings will be presented to the Board in 2014. **No Current Activity**

4. **LCA Facilities Emergency Power Project**

The Board authorized the construction phase of this project at the April 8, 2013, Work Shop meeting. Notices of Award were issued on April 9, 2013 to Barry J. Hoffman Co., Inc. – Electrical Construction and Lisbon – General Construction. All required documentation from the contractors has been received and Notices to Proceed (NTP) were issued on May 20, 2013. A pre-construction meeting was held on June 11, 2013. All site work, except final grading and seeding is completed at all of the facilities except the LCA main office. All generators have been installed onsite and are now operable except for LCA main office. The electrical contractor is currently working on the installation of both the automatic transfer switch and PLC control logic at the LCA main Office which is the last facility for construction to take place at. All the LCA main office construction work should be completed very shortly in the days to come. In a related matter, the delivery of the 500 KW generator for the Office Operations Center purchased by LCA through the Co-Stars program has been delayed until February 2014.

5. **Allentown Division- Water Main Replacement Program**

The Board authorized the design, bid, and pipe prioritization assessment program of the project at the October 28, 2013 Board Meeting. A Professional Service Authorization was awarded to Gannett Fleming, Inc. Currently preliminary meetings with City of Allentown Engineering Department, City of Allentown Streets Department, and PennDot have taken place to introduce the program and to ascertain some very important scheduling and design

information that will help aid in the selection of water mains to be replaced. This project will be funded by LCA.

6. Allentown Division- Coagulation Chemical Conversion

In 2010 DEP approved the City to change the primary coagulant from Aluminum Sulfate (Alum) to Polyaluminum Chloride (PACL). This change has not been implemented due to change over in City personnel and the leasing of the City water system. LCA is in the process of reviewing the studies completed by the City and what is required to complete the conversion. A Request for Professional services is being finalized and is expected to be issued in late December 2013. This project will be funded by LCA

7. Allentown Division- Schantz Spring Cl2 Booster Station

Construction of a chlorine feed station at a midway point of the transmission main from Schantz Spring to the Water Filtration Plant to increase the reliability of the source. For the past few months we have been waiting for a response from the Director of Parks regarding the proposed location of the station. In addition, an alternative to the station is being discussed internally. This Project is identified as Un-Completed Work and will be funded by the City. **No current activity**

8. Allentown Division- WFP Chemical Building Roof Replacement

The Project includes modifications to the roof of WFP chemical storage area (i.e. installation of hatches), removal and replacement of (2) 8,000 gallon chemical storage tanks; and replacement of the 20-year old rubber membrane roof system. The project has been bid by the City and a contract has been awarded. Work is expected to start early spring. This project is identified as Un-Completed Work and will be funded by the City. **No current activity**

9. Developments

Water system construction is occurring at the following developments:

- Parkland Fields, Phase 1B, 25 residential lots (sfd), UMT
- Valley West Estates, Phases 4, 5 & 6, 46 residential lots (sfd), UMT.
- West Hills Business Center, 8 industrial lots, WeisT, water and sewer

Water system plans are being reviewed for the following developments:

- Above & Beyond (personal care facility), 2 commercial lots, UMT
- Diocesan Pastoral Center, 2 commercial lots, 3 additional lots and residual lot for existing cemetery, LMT
- Grant Street Townes, 18 residential lots (sfa), WashT
- Hamilton Crossings, 2 commercial lots with 20 buildings having retail, financial, convenience and restaurant uses, LMT
- Hickory Park Estates, 3 residential lots (sfd), UMT
- Hillview Farms, 31 residential lots (sfd), LMT/SWT
- Indian Creek Industrial Park, 6 commercial lots, UMiIT, water and sewer
- Lehigh Hills, 247 residential lots (sfa/sfd), UMT
- Liberty at Mill Creek, 2 industrial lots, UMT
- Morgan Hills, 40 residential lots (sfd), WeisT, water and sewer
- North Whitehall Commercial Center (Walmart), 5 commercial lots, NWT, water and sewer
- Route 100 Bypass & Cetronia Road Proposed Commercial Development, 1 commercial lot with 4 buildings having auto, convenience, financial and day care uses, UMT
- Shepherd's Corner, 1 commercial lot, LMT
- Spring Creek Properties Settlement Subdivision (formerly Spring Creek Properties Subdivision I), 16 commercial and industrial lots, LMT
- Trexler Business Center, Lot 1, 1 commercial building, LMT
- Weilers Road Twins, 82 residential lots (sfa), UMT
- Woodmere Estates, 60 residential units (sfd), UMT
- Woodmont at Upper Macungie (formerly Rabenold Farms II), 288 apartment units and clubhouse, (Portion north of I-78), UMT

WASTEWATER

ACTION ITEMS

1. **2013 SCARP Program Management** (Approval)

A Professional Services Authorization and Capital Project Amendment is being presented to the Board for consideration for Arcadis (Malcom Pirnie) for work related to the I & I SCARP Program. The work includes Program Management for the 2014. Attached is a memo, Professional Services Authorization, Capital Project Amendment, and Arcadis scope of work (*tan*).

2. **CH2MHILL Contract Extension** (Approval)

Approval is being sought for a 5 year extension to the Pretreatment Plant operating contract.

DISCUSSION ITEMS

1. *None.*

INFORMATION ITEMS

1. **Infiltration and Inflow (I&I) Program Update**

The following is work planned for 2013:

- Submission of reports to EPA and DEP.
- CCTV work in areas identified as have high leakage to determine the extent of the leakage. Malcolm Pirnie will review the CCTV video and determine a Basis of Rehab.
- Keystone Consulting Engineers (KCE) is generating the population projections for the LCA service area to be used in the Level of Service modeling.
- Completion of the Level of Service Modeling for future growth.
- Rehab effectiveness metering in Phase 1 pipe lining project areas to determine the reduction in peak flows as a result of the rehab work.
- Phase 2 of Signatory pipe lining projects as determined by KCE.
- Rehab effectiveness metering in Phase 2 pipe lining project areas.
- Alternative Modeling and feasibility analysis to evaluate the various alternatives to achieve the preliminary objectives. The alternatives will include various combinations of I & I elimination, storage and capacity increases.
- Long term flow meters will continue on a limited basis. Two rain gauges and meters remain in the system.
- Preliminary Program Objectives Evaluation Report will be submitted to DEP by the end of 2013. This document will define the current system performance and assess what it will take to achieve the system preliminary objectives. The report will include a discussion of the investigation and evaluation work completed including flow evaluation, SSES prioritization, modeling, current and future level of service, current and future system sizing requirements, and will propose the Level of Control for system operation.

- The development of the Capital Improvements Plan is scheduled to begin by the end of the year. This will identify the rehab needs, replacement needs, expansion requirements, costs of improvements and schedule for implementation to achieve the program objectives. **No Current Activity.**

2. **Wastewater Treatment Capacity**

The Memo of Understanding (MOU) regarding working together on a joint Act 537 Plan with the City was never executed with the City. We have revised the MOU and will be again submitting it to the City so that they can have representation on the project.

A Communications Plan was developed by the consultant with input from LCA and the City. A stakeholder's group has been formed and the kick-off meeting was held in mid-January at the Lehigh County Administration Building. The Stakeholders Advisory Committee (SAC) consists of either Municipal Managers or Municipal Officials from each of the City and LCA Signatories. It is expected that there will be 5 meetings with the SAC during the Study to keep the Committee up to date on Plan with the expectation that the adoption of the plan with the various Signatories will be completed in a short period of time.

Talks continue with DEP on the effluent standards applicable to a discharge to the Jordan Creek. A meeting was held with DEP in late May to discuss the Jordan Creek discharge. DEP indicated water quality standards will be applicable to the plant effluent. We had requested Reuse Standards which are less stringent but DEP will require the secondary drinking water standards. We have since received a letter from DEP with the specific requirements for performing a study of the Jordan Creek that must be completed prior to the issuance of final effluent standards. We have recently completed Total Dissolved Solids (TDS) testing and have compared them to TDS data from several years ago. The trend is an increase in the TDS in the plant effluent. This could potentially mean that an upgraded Pretreatment Plant would require TDS removal such as Reverse Osmosis.

A meeting was held with the DRBC to discuss updating the prospective effluent limits for the various alternatives. The model will be refined and the grandfathered loads for Phosphorus and Ammonia will be updated based on the actual Kline's Island data. A model run will be completed in the near future.

LCA purchased 100,000 gallons of allocation from Salisbury Township at \$6.00 per gallon.

The WWTP data evaluation was completed by the consultant and the process/mass flow diagrams were presented to review the team.

A presentation was made at the November Workshop to update the Board and staff on the 537 Planning. The presentation included the latest information on the Jordan Creek investigation, DRBC Special Protection Waters (SPW) requirements and conveyance issues. The Board indicated that the Jordan Creek option has many challenges and that the focus of the study should not be on this option.

3. **Northern Lehigh Wastewater System**

The project is composed of the following:

Wastewater Treatment Plant (on a 5-acre tract at KidsPeace)

In March, LCA representatives met with North Whitehall Township (NTW) Supervisor, Steve Pany; Solicitor, Lisa Young; and Township Manager, Jeff Bartlett to discuss the Act 537 Plan. In summary, for the westside of Rt. 309 (the 1-5 year service area) LCA has agreed to limit the size of the Wastewater Treatment Plant (WTP) to 200,000 GPD which

in essence reflects the need for this area. Any expansion beyond 200,000 GPD would require NWT approval.

September 18, 2012, after six months of hearings, the Supervisors granted approval of the Conditional Use for the proposed WTP with nine conditions. We have received the written decision from the Township and have accepted all conditions. In late November 2012 the opposition, the Friends of the Jordan, appealed the Township decision to Lehigh County Court of Common Pleas. Legal Briefs were filed by the Voice of the Jordan (Voice), NWT and LCA. Argument took place on Wednesday May 29, 2013 with Judge Edward Reibman presiding. On June 5, 2013 the Court ordered "that the decision of the NWT Board of Supervisors dated October 23, 2012 is hereby reaffirmed". However, on July 29, 2013 the Voice filed an appeal of the previous Court ruling to Commonwealth Court. Arguments are scheduled in Harrisburg on December 11, 2013 at 9:30 a.m.

The total cost of the WTP including soft costs and KidsPeace acquisition costs is estimated at \$4.69 million. **No Current Activity**

Offsite Conveyance Facilities (OSCF)

Wal-Mart has stopped design of the necessary conveyance facilities, which includes gravity sewers, a pump station and force main to deliver the wastewater from their proposed development and other future wastewater customers to the wastewater treatment facilities until a cost sharing agreement is reached with LCA. Wal-Mart has proposed that LCA assume the responsibility of designing, permitting and constructing the OSCF, which is a change from the previous plan where Wal-Mart had the responsibility. Ongoing cost-sharing negotiations are still on hold. **No current activity.**

The construction cost of the conveyance facilities is estimated at \$1.354 million.

Kids Peace Agreement

A revised amendment to the Agreement has been sent to KidsPeace. It primarily focuses the financial impact on the Jordan Creek Wastewater system because of KidsPeace's sale of the 101 Acre parcel to Lehigh Carbon-Community College (LCCC). The 101 Acre parcel was an integral economic component for LCA in the 2006 Agreement. Kids Peace has filed for Chapter 11 Bankruptcy we are investigating how this may impact our Agreement. **No Current Activity**

Act 537 Plan (Plan) Revision

NWT continues to work on developing an alternate a solution for the wastewater treatment needs for a revised 1-5 year service area which would include a WTP located on the eastside of Route 309 that would discharge to the Coplay Creek. LCA has agreed to provide support and expertise. Recent discussions with NWT indicate that the Pennsylvania Department of Environmental Resources (PADEP) has agreed to allow data from the on-site sewer system evaluations and water testing conducted for the current Plan to be used for any Plan revisions. NWT has requested and will receive shortly preliminary wastewater effluent discharge standards from DEP and has met with the Delaware River Basin Commission (DRBC) has verified that water quality modeling will be required for effluent discharge on the Coplay Creek. A conceptual short term service area collector system layout has also been developed. We met with NWT on November 21, 2013 and the Township continues discussions to secure a site for the proposed WTP and to secure commitments to connect from property owner along the proposed route. NWT has requested that LCA work their engineer to obtain the information necessary to secure conceptual pricing for the WTP and to develop high level capital and operating cost estimates.

4. **Arcadia West WWTP Improvements**

Construction is nearly complete at the site. During December, vendor startup efforts will begin, with full facility start up by the end of the month. The total project is about 30 days past schedule, primarily due to delays in Met-Ed initiation of power. The cost estimate of \$3,502,300 is still valid.

5. **Wynnewood Terrace Pump Station & Force Main Replacement**

Design work is complete and regulatory submission for approvals was made on November 8. Plans and specifications, @ 90%, are being reviewed by staff for a below grade self-contained pump station with submersible pumps and a new 6" force main.

6. **Park Pump Station Improvements**

Fuel Tank Replacement – Staff has received and is reviewing the final specifications and plans for replacement of the fuel tank at the Park Pump Station. We expect to place the work to bid by early next year.

7. **LCA WTP- Truck Waste Receiving Station**

Truck Waste Receiving Station (TWRS):

The Board awarded the General and Electrical construction contracts at the January workshop meeting. The contractors have returned the construction Agreements for our execution. Notices to Proceed (NTP) to the respective contractors were issued on February 26, 2013 and a pre-construction meeting was held on March 7, 2013. Construction is underway and on schedule. Start-up of the facility took place on October 17, 2013. There are some minor punch list items. We expect operation of the station to start mid January 2014.

Digester Mixer Replacements:

Notice to Proceed for the Construction Phase of the project was issued to both the General and Electrical contractors on October 8, 2012. Electrical construction work is approximately 80% complete, as most of it could be accomplished without draining the digesters. The General contractor has completed the installation of mixers in the first digester and the digester is now operational. The 2nd digester is now drained and cleaned to facilitate mixer installation. We expect the contractor to mixer installation on the digester in early 2014

As a note; the mixers will be installed one digester at a time, as it is necessary to always have two digesters operating. Assuming no major difficulty in draining the remaining digesters we expect the project will be completed in the 2st quarter of 2014, however additional issues with draining the digesters may extend the completion date.

PPL E-Power Customizable Energy Program:

Applications have been submitted for energy savings rebates and verification methodologies for both the Digester Mixer Replacements and Truck Waste Receiving Station (TWRS). PPL has finally responded and is requiring that temporary sub-meters. Monitoring of the electric usage of the remaining old mixers has been completed. Installation of monitoring devices for should be complete by mid-December 2013 with monitoring extending to the end of January 2014. **No Current Activity**

8. **Allentown Division- WWTP-New Bar Rack at Headworks**

The Project includes the replacement of the existing screen equipment with new coarse bar screens to minimize potential for jamming or mechanical malfunctions experienced by the existing screening equipment, resulting in discharges from Outfall 003 during high flow events. The project has been bid by the City and a contract in the amount of \$737,000 has been awarded to Blooming Glenn Contractors. Given the long lead time for the equipment we expect the bulk of the work to start in June 2014. This Project is identified as Administrative Order / Un-Completed Work and will be funded by the City.

9. Allentown Division- WWTP-Other Work**PPL Combined Heat & Power (CH&P) Facility:**

In October the City of Allentown issued PPL Renewable Energy the building and electrical permits required for the construction of the new Combined Heat and Power (CH&P) facility at the Kline's Island WWTP. Since then Millennium Builders and Albarell Electric have mobilized and begun the construction of the infrastructure required to install the digester gas powered generator. To date the excavation for electrical duct banks and grounding wires has been completed. The project is projected to produce 50% of the electricity required to operate the wastewater plant from digester gas produced in the anaerobic digestion process. The terms of the contract assigned to LCA through the concession call for PPL to construct and maintain CH&P facility at no cost to LCA. LCA will provide the digester gas required to fuel the facility and will purchase the power produced at a discounted rate. In November, the electrical duct banks were completed and the pad for the generator was poured.

Effluent Flushing Water System Leak:

The Effluent Flushing Water (EFW) system for the Dewatering Building was isolated on 10-28-2013 due to a leaking cast iron pipe underground. LCA D&C staff dug up the suspected area of the leak and determined that the pipe was leaking in an inaccessible location under the pad for Thickening Tank (TT) OCU reaction chamber, situated in between No.1 and No.2 TTs. Temporary service for the Digester Control Building and the Dewatering Building was provided by connecting a fire hose to the EFW hydrant located between No.1 and No.2 Primary Anaerobic Digesters. The EFW line located under the OCU reaction chamber was subsequently cut, capped, and abandoned on 10-31-2013. D&C completed the work to provide permanent EFW service to the Digester Control and Dewatering Buildings on 11-18-2013.

Odor Control Unit Air Compressor Rehab:

The Air Compressor at 24 OCU (Odor Control Unit) was taken out of service on 11-6-2013 due to a bearing failure in the air end of the compressor. After evaluating rebuilding existing or replacement with new, taking into consideration economic and longevity factors, the staff decided to go with the new prime mover portion of the compressor. The new air end of the compressor was installed on 11-15-2013 and was subsequently put back in service that day. We're currently anticipating a shipment Kaeser Oil to perform a mandatory oil change for warranty purposes.

Final Settling Tank Warranty Claim:

No.6 Final Settling Tank was taken off line on 11-13-2013 due to a bearing failure in the drive unit. The clarifier mechanism was still under warranty by GMH Associates. On-site warranty service was provided on 11-25-2013 and No.6 Final Settling Tank was put back on line on 11-26-2013. Since the equipment was under warranty, all bearings and seals were replaced at no charge to LCA. The tank's clarifier mechanism remains under warranty until May of 2014.

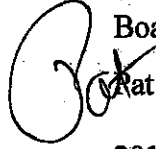


Lehigh County Authority

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

MEMORANDUM

Date: November 25, 2013

To: Board of Directors & Management Staff
From:  Pat Mandes / Frank Leist
Re: 2014 Program Management

Approvals Requested

Approvals Requested	Brief Description	Amount
Capital Project Authorization Amendment (17) Professional Services Authorization (16)	Consulting Services Malcolm Pirnie	\$50,000

Background

In 2008, the Department of Environmental Protection (DEP) required LCA and the Signatories to generate a Corrective Action Plan for the areas identified as having significant infiltration and inflow (I&I) conditions. In addition, EPA has issued a Compliance Order to the City of Allentown, LCA and all municipalities tributary to the City WWTP to eliminate all SSOs within a five year period (2014).

The LCA 2009-2017 Signatory I&I Investigation & Remediation Project Capital Plan was developed so that LCA could take the lead in working with the Signatories to address the overload and SSO issues. A Sewer Capacity Assurance & Rehabilitation Program (SCARP) Outline was drafted by Malcolm Pirnie that provides a formalized and planned method of evaluating the LCA and Signatory systems, prioritizing and conducting sewer rehabilitation by all the LCA Signatory Partners.

Project Scope

2014 Program Management – There are program management tasks required throughout the year that are not defined in a particular approved task. The work will include on-call services, EPA semi-annual report, attending meetings with DEP, attending meetings with the I & I committee or I & I Engineer's Subcommittee, and other coordination or assistance as needed. The total "Not to Exceed" cost is \$50,000 for 2014.



Lehigh County Authority

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

PROFESSIONAL SERVICES AUTHORIZATION

AMENDMENT NUMBER 16

Professional:
Malcolm Pirnie, Inc.
Jim Shelton
824 Market St., Suite 820
Wilmington, DE

Date: 11/25/13
Requested By: Pat Mandes *PM*
Approvals
Department Head: _____
General Manager: _____

Description of Services (Work Scope, Steps, Check Points, etc.):

This is an amendment to the current Malcolm Pirnie authorization for the WLI Infiltration and Inflow Project: The work covered by this amendment includes Program Management for 2014.

Program Management includes work that is not defined by other approved tasks. The work will include on-call services, EPA semi-annual report, annual DEP report, attending meetings with DEP, the LCA I & I committee and the City I & I Committee, technical evaluations as needed and other coordination or services as needed. The total "Not to Exceed" cost is \$50,000 for the period ending December 2014.

The scope of work is described in more detail in the proposal dated October 2, 2013.

Cost Estimate (not to be exceeded without further authorization): This amendment is not to exceed \$50,000 for Program Management. With this amendment the total authorization for the I&I Program consulting will be \$1,407,000.

Time Table and Completion Deadline:

January 2014 through December 2014.

(For Authority Use Only)

Authorization Completion:

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

Capital Project S-08-05, Signatory I & I Investigation/Remediation Program

**CAPITAL PROJECT AUTHORIZATION
AMENDMENT NUMBER 17**

PROJECT NO.: S-08-5 **BUDGET FUND:** WLI Sewer Capital

PROJECT TITLE: Signatory I & I Investigation/Remediation Program **PROJECT TYPE:**

TOTAL PROJECT THIS AUTHORIZATION **Prior:** \$3,570,731 Construction
Current: \$50,000 Engineering Study
 Equipment Purchase
 Amendment

DESCRIPTION AND BENEFITS:

Full Project Overview:

Based on the EPA Compliance Order and the PADEP Chapter 94 requirements, LCA and the LCA Signatories are required to reduce infiltration and inflow from the system and eliminate SSOs from the LCA and Signatory sewer systems within a five year period (2014). The SCARP Program has been developed to investigate the sources of I & I and to remediate areas identified as having excessive I & I. The SCARP Program consists of engineering tasks necessary to define and quantify the problems, to evaluate methods of redress and to determine the corrective actions required to meet the regulatory requirements.

Program Management

The work will include on-call services, preparation of the EPA semi-annual report and annual DEP report, attending meetings with DEP, the Partner I & I committee, Partner Engineer's Subcommittee and the City I & I Committee, technical evaluations as needed, tracking the program progress schedule and other coordination or services as needed.

Program Management for previous years:

- 2009 - \$30,000
- 2010 - \$20,000
- 2011 - \$25,000
- 2012 - \$50,000
- 2013 - \$50,000

	Previously Approved	This Amendment	Total Approval
Flow Monitoring Temporary	\$ 1,280,950		\$ 1,280,950
Purchase of Flow Meters (9)	\$63,000		\$63,000
Long Term Metering	\$431,081		\$431,081
Engineering Consulting	\$1,485,700	\$50,000	\$1,535,700
Staff	\$300,000		\$300,000
Contingencies	\$10,000		\$10,000
Totals	\$ 3,570,731	\$ 50,000	\$ 3,620,731

REVIEW AND APPROVALS:

Pat Mandes *Pat Mandes* 11/25/13 _____
 Project Manager Date General Manager Date

_____ Date _____ Chairman Date

_____ Capital Works Manager _____ Date _____ Chairman _____ Date



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Tel 610.768.5813
Fax 610.768.5817
www.arcadis-us.com

Ms. Pat Mandes
Wastewater Services Director
Lehigh County Authority
P.O. Box 3348
Allentown, PA 18106

Subject:
Sewer Capacity Assurance and Rehabilitation Program
Scope and Budget for SCARP Program Management through 2014

Dear Ms. Mandes:

Date:
October 2, 2013

ARCADIS is pleased to offer this scope and budget for program management services related to the Sewer Capacity Assurance and Rehabilitation Program (SCARP).

Contact:
Tony Dill

PROPOSED SCOPE OF SERVICES

Phone:
484.688.0380

As we have done since the start of the program, ARCADIS will provide coordination and on-call services to LCA and the Western Lehigh SCARP Partnership (Partnership) to facilitate implementation of the SCARP. These program management services will be for tasks not defined in other project specific authorizations. Historically these services have included:

Email:
Anthony.Dill@arcadis-us.com

- Meetings and responses to USEPA regarding the Order of Compliance
- Meetings with Engineering Subcommittee and the I&I committee
- Status meetings with LCA for the overall program
- Technical evaluations and data reviews
- Other on-call services as requested

Our ref:
00247

We anticipate that the services required through 2014 will be similar to those listed above.

DELIVERABLES AND SCHEDULE

Deliverables and schedule for delivery will be determined on an assignment by assignment basis.

BUDGET

As this is undefined work, we recommend allocating \$50,000 for this work through the end of 2014. ARCADIS will conduct this work on a time and materials basis in accordance with the most current rate schedule. We will track the costs associated

Ms. Pat Mandes
October 2, 2013

with this work and report them to LCA monthly throughout the program. We will not exceed the authorized budget without written professional services authorization from LCA.

If you have any questions please do not hesitate to call me at 484-688-0380 or 610-761-3253 (mobile). We look forward to continuing to assist LCA with this important program.

Sincerely,

ARCADIS U.S., Inc.

A handwritten signature in black ink, appearing to read "Tony Dill". The signature is written in a cursive, slightly slanted style.

Tony Dill, P.E.
Program Manager

C: Jim Shelton, ARCADIS
Tanya McCoy-Caretti, ARCADIS

November 25, 2013

Mr. Natalie Eldridge
OMI Finance Director
9193 S. Jamaica St
Englewood, CO 80112

RE: Operations, Maintenance, and Management Services Agreement

Dear Ms. Eldridge:

As approved by the Lehigh County Authority (LCA) Board, LCA has approved the 5 year extension option under Section 7.1 of the existing Services Agreement effective January 1st, 2014 through December 31st, 2018.

Pursuant to recent discussions there are no modifications or amendments to the existing Services Agreement. However, CH2M HILL and The LCA agreed to enter into discussions for a 10 year Services Agreement. The intent of these discussions is to identify potential cost savings options and scope modifications that would be beneficial to the LCA over the 10 year term.

If both parties mutually agree to the new Scope of Services, a new Service Agreement will be developed to include changes in the Terms and Conditions as well as Compensation. If executed, this new Service Agreement will replace the aforementioned 5 year renewal.

The LCA desires to complete negotiations for a 10 year contract on or before December 31st 2014. If both parties fail to reach an Agreement, the LCA intends to re-bid the current Agreement following December 31st, 2018 service agreement.

Thank you and please let me know if you require any additional information.

Sincerely,

Pat L Mandes
LCA Director

Cc: Bill Haberstroh – CH2M HILL
Kevin Dahl – CH2M HILL



LEHIGH COUNTY AUTHORITY

**PROPOSED
2014 BUDGET**

Adopted:

CITY DIVISION

**2014 BUDGET
CITY DIVISION
SUMMARY OF REVENUES AND RESERVE FUNDS
TOTAL SYSTEM**

	2013 Budget	2013 Annualized	2014 Projection (2)	2014 Budget
OPERATING FUNDING				
<u>OPERATING REVENUES:</u>				
Water System	\$ 6,748,381	\$ 16,196,114	\$ 16,431,329	\$ 16,431,329
Wastewater System	6,244,922	15,612,305	16,400,394	16,400,394
Total	12,993,303	31,808,419	32,831,723	32,831,723
<u>OPERATING EXPENSES:</u>				
Water System	2,246,596	5,616,490	6,912,019	8,261,095
Wastewater System	3,612,094	9,030,235	9,381,369	8,753,778
Laboratory	475,988	1,189,970	882,634	864,168
Other Expenses			1,223,000	
Total	6,334,678	15,836,695	18,399,022	17,879,042
SURPLUS (DEFICIT) - OPERATING RESERVE	6,658,625	15,971,724	14,432,701	14,952,681
<u>DEBT SERVICE & RESERVES:</u>				
Interest Expense (1)	4,131,778	10,329,445	13,047,722	13,047,722
Capitalized Interest			(1,350,000)	(1,350,000)
Total	4,131,778	10,329,445	11,697,722	11,697,722
SURPLUS (DEFICIT) AFTER USE OF RESERVES	\$ 2,526,847	\$ 5,642,279	\$ 2,734,979	\$ 3,254,959
Debt Service Coverage	1.61	1.55	1.23	1.28
CAPITAL FUNDING				
<u>NON-OPERATING REVENUES:</u>				
Water System	\$ 21,269	\$ 21,269		
Wastewater System				
Total	21,269	21,269	-	-
<u>CAPITAL CONTRIBUTIONS:</u>				
Water System	571,000	571,000		1,620,000
Wastewater System	405,000	405,000		3,666,000
Total	976,000	976,000	-	5,286,000
<u>BORROWED FUNDS & RESERVES:</u>				
Water System	367,500	346,231	2,430,852	2,550,500
Wastewater System	446,000	446,000	4,875,000	4,653,000
Total	813,500	792,231	7,305,852	7,203,500
CAPITAL EXPENDITURES	1,789,500	1,768,231	7,305,852	12,489,500
SURPLUS (DEFICIT) - CAPITAL RESERVE FUND	\$ 21,269	21,269	-	-

(1) Amount represents 12/1/13 interest payment, which is basis of debt service coverage calculation of 1.62.

(2) Per the July 31st OM.

**2014 BUDGET
CITY DIVISION
SUMMARY OF EXPENSES
TOTAL SYSTEM**

	<u>2014 Projection</u>	<u>2014 Budget</u>
OPERATING EXPENSES:		
PERSONNEL:		
Permanent	\$ 5,730,159	\$ 4,850,390
Overtime	420,634	563,421
Employee Benefits	3,044,434	3,032,909
Total	<u>9,195,227</u>	<u>8,446,720</u>
PURCHASE OF SERVICES:		
Internal Services - Overhead & Support	984,217	2,503,720
Utilities	2,138,622	2,142,965
Engineering	125,000	85,000
Contract Operating Svcs	1,293,650	255,315
Analysis	50,000	46,700
Maintenance Services	1,096,333	1,091,458
Extraordinary Expenditures	307,500	125,000
Industrial Meter Testing & Repair	-	-
System Planning/Capital Management	-	-
I/I Rehabilitation Program	-	-
Miscellaneous Services	743,842	534,990
Total	<u>6,739,164</u>	<u>6,785,148</u>
MATERIALS AND SUPPLIES:		
Pump Supplies	50,000	38,500
Purification Supplies	965,624	1,639,524
Distribution & Transmission Supplies	371,921	433,800
Misc. Materials & Supplies	371,921	136,100
Fuel & Mileage	250,000	240,100
Total	<u>2,009,466</u>	<u>2,488,024</u>
Equipment	<u>455,164</u>	<u>159,150</u>
TOTAL OPERATING EXPENSES	<u>\$ 18,399,021</u>	<u>\$ 17,879,042</u>

**2014 BUDGET
CITY DIVISION
SUMMARY OF REVENUES AND RESERVE FUNDS
WATER SYSTEM**

	2013 Partial Year	2013 Annualized	2014 Budget
OPERATING FUNDING			
<u>OPERATING REVENUES:</u>			
Residential/Industrial/Commercial	\$ 5,521,113	\$ 13,250,671	\$ 13,301,657
Penalties	96,094	230,626	236,391
Fire Service	32,458	77,899	79,848
Reserves		-	-
Interest Income		-	20,000
Other Water Sales	1,098,716	2,636,918	2,793,433
Total	\$ 6,748,381	\$ 16,196,114	16,431,329
OPERATING EXPENSES	2,246,596	5,616,490	8,261,095
SURPLUS (DEFICIT) - OPERATING RESERVE	\$ 4,501,785	\$ 10,579,624	\$ 8,170,234
CAPITAL FUNDING			
<u>NONOPERATING REVENUES:</u>			
Supply/Special Tapping Fees	\$ 21,269	\$ 21,269	
Meter Sales & Installations		-	-
Distribution Tapping Fees		-	-
Inspection & Review Fees		-	-
Reimbursement from Wastewater Funds		-	-
Other Income		-	-
Total Nonoperating Revenues	21,269	21,269	0
<u>CAPITAL CONTRIBUTIONS:</u>			
Grants			0
Reimbursement from Other Entities	571,000	571,000	1,620,000
Total Capital Contributions	571,000	571,000	1,620,000
BORROWED FUNDS & RESERVES	367,500	346,231	2,550,500
TOTAL CAPITAL FUNDING	959,769	938,500	4,170,500
CAPITAL EXPENDITURES	938,500	938,500	4,170,500
SURPLUS TO CAPITAL RESERVE FUND	\$ 21,269	\$ -	\$ -

**2014 BUDGET
CITY DIVISION
OPERATING EXPENSES
WATER SYSTEM TOTAL**

	2013 Partial Year	2013 Annualized	2014 Budget
OPERATING EXPENSES:			
PERSONNEL:			
Permanent	\$ 552,730	\$ 1,381,825	\$ 2,218,242
Overtime	74,709	186,773	300,541
Employee Benefits	319,994	799,985	1,402,721
Total	947,433	2,368,583	3,921,504
PURCHASE OF SERVICES:			
Internal Services - Overhead & Support	578,383	1,445,958	1,157,971
Utilities	305,654	764,135	1,077,570
Engineering	-	-	25,000
Contract Operating Svcs	127,209	318,023	53,400
Analyses (External)	-	-	-
Maintenance Services	78,077	195,193	490,100
Extraordinary Expenditures	41,667	104,168	125,000
Industrial Meter Testing & Repair	-	-	-
Miscellaneous Services	4,698	11,745	118,100
Total	1,135,688	2,839,220	3,047,141
MATERIALS AND SUPPLIES:			
Pump Supplies	-	-	38,500
Purification Supplies	148,366	370,915	514,500
Distribution & Transmission Supplies	-	-	433,800
Misc. Materials & Supplies	-	-	88,400
Fuel & Mileage	15,109	37,773	122,500
Total	163,475	408,688	1,197,700
Equipment	-	-	94,750
TOTAL OPERATING EXPENSES	\$ 2,246,596	\$ 5,616,490	\$ 8,261,095

**2014 BUDGET
CITY DIVISION
OPERATING EXPENSES
WATER FILTRATION PLANT**

	2013 Partial Year	2013 Annualized	2014 Budget
OPERATING EXPENSES:			
PERSONNEL:			
Permanent	\$ 313,611	\$ 784,028	\$ 1,054,339
Overtime	39,591	98,978	150,271
Employee Benefits	180,133	450,333	681,138
Total	533,335	1,333,338	1,885,748
PURCHASE OF SERVICES:			
Internal Services - Overhead & Support	325,587	813,968	562,292
Utilities	289,689	724,223	1,041,200
Engineering	-	-	25,000
Contract Operating Svcs	122,750	306,875	-
Analyses (External)	-	-	-
Maintenance Services	57,882	144,705	165,800
Extraordinary Expenditures	-	-	-
Industrial Meter Testing & Repair	-	-	-
Miscellaneous Services	-	-	108,500
Total	795,908	1,989,770	1,902,792
MATERIALS AND SUPPLIES:			
Pump Supplies	-	-	38,500
Purification Supplies	148,366	370,915	514,500
Distribution & Transmission Supplies	-	-	-
Misc. Materials & Supplies	-	-	74,000
Fuel & Mileage	12,609	31,523	18,000
Total	160,975	402,438	645,000
Equipment	-	-	47,470
TOTAL OPERATING EXPENSES	\$ 1,490,218	\$ 3,725,545	\$ 4,481,010

**2014 BUDGET
CITY DIVISION
OPERATING EXPENSES
WATER DISTRIBUTION SYSTEM**

	2013 Partial Year	2013 Annualized	2014 Budget
OPERATING EXPENSES:			
PERSONNEL:			
Permanent	\$ 239,119	\$ 597,798	\$ 1,163,902
Overtime	35,118	87,795	150,271
Employee Benefits	139,861	349,653	721,583
Total	414,098	1,035,245	2,035,756
PURCHASE OF SERVICES:			
Internal Services - Overhead & Support	252,796	631,990	595,680
Utilities	15,965	39,913	36,370
Engineering	-	-	-
Contract Operating Svcs	4,459	11,148	53,400
Analyses (External)	-	-	-
Maintenance Services	20,195	50,488	324,300
Extraordinary Expenditures	41,667	104,168	125,000
Industrial Meter Testing & Repair	-	-	-
Miscellaneous Services	4,698	11,745	9,600
Total	339,780	849,450	1,144,350
MATERIALS AND SUPPLIES:			
Pump Supplies	-	-	-
Purification Supplies	-	-	-
Distribution & Transmission Supplies	-	-	433,800
Misc. Materials & Supplies	-	-	14,400
Fuel & Mileage	2,500	6,250	104,500
Total	2,500	6,250	552,700
Equipment			47,280
TOTAL OPERATING EXPENSES	\$ 756,378	\$ 1,890,945	\$ 3,780,085

**2014 BUDGET
CITY DIVISION
CAPITAL EXPENDITURES
WATER SYSTEM - ALL SERVICE AREAS**

Project	Priority	Estimated Project Cost	Estimated Costs Through 2013	2014 Budget	Beyond 2014
<u>LCA Funded Projects</u>					
Capital Management		Annual		50,000	
Capital Works Supplies & Software		Annual		5,000	
Distribution Mains and Service Connections		Annual		60,000	
System Planning		Annual		20,000	
Distribution Mains - Upsizing *		Annual		20,000	
Distribution System Improvements		Annual		5,000	
New Meter Installations (non AMR project)		Annual		40,000	
Other Equipment		Annual		50,000	
WFP General Improvements		Annual		275,000	
Steel Tank Reservoir Rehabilitation / Maintenance Contract		Annual		105,000	
GIS Data Attribution		Annual		50,000	
Computer System Hardware & Software Upgrades		Annual		75,000	
Backflow Control Prevention Program Development/ Investigations		500,000	3,000	50,000	447,000
Water Main Replacement Program ⁽²⁾		9,315,000	100,000	2,000,000	7,215,000
Misc Minor Water Facility Permitting Amendments		27,500	1,000	26,500	-
Various Water System Related Studies		300,000	5,000	295,000	-
Water System Hydraulic Model		340,000	-	40,000	300,000
Schantz Spring Main Replacement		1,405,000	-	50,000	1,355,000
Fuel Tank Replacement - (AST)		140,000	1,000	139,000	-
Sub-total Allentown Division Water Capital Funded by LCA			107,000	2,550,500	8,870,000
<u>City Funded Projects</u>					
28th Street Elevated Steel Tank Rehabilitation ⁽¹⁾	High	430,000	1,000	429,000	-
Schantz Spring Chlorine Booster Station ⁽¹⁾	High	250,000	19,500	230,500	-
WFP- Chemical Building Roof Replacement ⁽¹⁾	High	805,000	19,500	785,500	-
AMR Meter Project ⁽¹⁾	High	8,705,000	8,455,000	175,000	75,000
Sub-total Allentown Division Water Capital Funded by the City			8,495,000	1,620,000	75,000
Total Allentown Division Water Capital Expenditures:			\$ 8,602,000	\$ 4,170,500	\$ 8,945,000

Note: Projects in bold type will not proceed beyond the planning phase, or beyond current authorized phase without specific authorization from the LCA Board subsequent to the adoption of this budget.

* Individual upsizing contributions less than \$75,000 will not require additional authorization beyond adoption of this budget.

(1) "Uncompleted Work" City Projects that were supposed to be complete by the time of settlement or executed by City personnel after settlement. The City will fund these projects but has requested that LCA execute them.

(2) Required Capital Improvement Projects as shown on Schedule 7 of the Agreement and will be funded by LCA.

(3) "Administrative Order" Projects as per the Agreement are to be Funded by the City and executed by LCA.

**2014 BUDGET
CITY DIVISION
SUMMARY OF REVENUES AND RESERVE FUNDS
WASTEWATER SYSTEM**

	2013 Partial Year	2013 Annualized	2014 Budget
OPERATING FUNDING			
<u>OPERATING REVENUES:</u>			
User Charges - Municipal	\$ 2,667,428	\$ 6,668,570	\$ 7,210,215
User Charges - Residential and Commercial	3,173,900	7,934,750	7,903,855
Interest Income - Revenue Fund		-	
Other Income	403,594	1,008,985	1,286,324
Total	6,244,922	15,612,305	16,400,394
OPERATING EXPENSES	3,612,094	9,030,235	8,753,778
SURPLUS (DEFICIT) - OPERATING RESERVE	\$ 2,632,828	\$ 6,582,070	\$ 7,646,616
CAPITAL FUNDING			
<u>NON-OPERATING REVENUES:</u>			
Total	\$ -	\$ -	\$ -
<u>CAPITAL CONTRIBUTIONS:</u>			
Grants			
Reimbursement from other entities	405,000	405,000	3,666,000
Total	405,000	405,000	3,666,000
<u>BORROWED FUNDS & RESERVES:</u>	446,000	446,000	4,653,000
TOTAL CAPITAL FUNDING	851,000	851,000	8,319,000
CAPITAL EXPENDITURES	\$ 851,000	\$ 851,000	\$ 8,319,000
SURPLUS (DEFICIT) - CAPITAL RESERVE FUND	\$ -	\$ -	\$ -

**2014 BUDGET
CITY DIVISION
OPERATING EXPENSES
WASTEWATER SYSTEM TOTAL**

	2013	2013	2014
	Partial Year	Annualized	Budget
OPERATING EXPENSES:			
PERSONNEL:			
Permanent	\$ 872,143	\$ 2,180,358	\$ 2,267,682
Overtime	156,393	390,983	259,028
Employee Benefits	524,554	1,311,385	1,428,710
Total	1,553,090	3,882,725	3,955,420
PURCHASE OF SERVICES:			
Internal Services - Overhead & Support	948,119	2,370,298	1,179,425
Utilities	426,165	1,065,413	1,065,395
Engineering	-	-	60,000
Contract Operating Services	170,995	427,488	201,915
General Analyses	-	-	20,000
Maintenance Services	216,724	541,810	569,008
Miscellaneous Services	3,844	9,610	414,590
System Planning/Capital Management	-	-	-
I/I Rehabilitation Program	-	-	-
Total	1,765,847	4,414,618	3,510,334
MATERIALS AND SUPPLIES:			
Fuel	39,247	98,118	117,600
Purification Chemicals and Misc Materials	253,910	634,775	1,125,024
Equipment	-	-	45,400
Amortized Equipment	-	-	-
Total	293,157	732,893	1,288,024
AMORTIZED PLANNING	-	-	-
RESERVE FUND ALLOCATION	-	-	-
DEPRECIATION & AMORTIZATION	-	-	-
TOTAL OPERATING EXPENSES	\$ 3,612,094	\$ 9,030,235	\$ 8,753,778

**2014 BUDGET
CITY DIVISION
OPERATING EXPENSES
KLINE ISLAND WASTEWATER TREATMENT PLANT**

	2013 Partial Year	2013 Annualized	2014 Budget
OPERATING EXPENSES:			
PERSONNEL:			
Permanent	\$ 633,024	\$ 1,582,560	\$ 1,753,192
Overtime	121,275	303,188	203,564
Employee Benefits	384,693	961,733	1,106,434
Total	1,138,992	2,847,480	3,063,190
PURCHASE OF SERVICES:			
Internal Services - Overhead & Support	695,323	1,738,308	913,381
Utilities	415,200	1,038,000	1,030,525
Engineering	-	-	60,000
Contract Operating Svcs	166,536	416,340	27,965
General Analyses	-	-	20,000
Maintenance Services	113,196	282,990	203,908
Miscellaneous Services	-	-	406,790
System Planning/Capital Management		-	-
I/I Rehabilitation Program		-	-
Total	1,390,255	3,475,638	2,662,569
MATERIALS AND SUPPLIES:			
Fuel	36,747	91,868	76,800
Purification Chemicals and misc supplies	253,910	634,775	783,574
Equipment		-	45,400
Amortized Equipment		-	
Total	290,657	726,643	905,774
AMORTIZED PLANNING			
RESERVE FUND ALLOCATION			
DEPRECIATION & AMORTIZATION			
TOTAL OPERATING EXPENSES	\$ 2,819,904	\$ 7,049,760	\$ 6,631,533

**2014 BUDGET
CITY DIVISION
OPERATING EXPENSES
WASTEWATER COLLECTION SYSTEM**

	2013 Partial Year	2013 Annualized	2014 Budget
OPERATING EXPENSES:			
PERSONNEL:			
Permanent	\$ 239,119	\$ 597,798	\$ 514,490
Overtime	35,118	87,795	55,464
Employee Benefits	139,861	349,653	322,276
Total	414,098	1,035,245	892,231
PURCHASE OF SERVICES:			
Internal Services - Overhead & Support	252,796	631,990	266,045
Utilities	10,965	27,413	34,870
Engineering	-	-	-
Contract Operating Services	4,459	11,148	173,950
General Analyses	-	-	-
Maintenance Services	103,528	258,820	365,100
Miscellaneous Services	3,844	9,610	7,800
System Planning/Capital Management	-	-	-
I/I Rehabilitation Program	-	-	-
Total	375,592	938,980	847,765
MATERIALS AND SUPPLIES:			
Fuel	2,500	6,250	40,800
Misc. Materials & Supplies	-	-	341,450
Equipment	-	-	-
Amortized Equipment	-	-	-
Total	2,500	6,250	382,250
AMORTIZED PLANNING			
RESERVE FUND ALLOCATION			
DEPRECIATION & AMORTIZATION			
TOTAL OPERATING EXPENSES	\$ 792,190	\$ 1,980,475	\$ 2,122,245

**2014 BUDGET
CITY DIVISION
CAPITAL EXPENDITURES
WASTEWATER - CAPITAL**

Project	Priority	Estimated Project Cost	Estimated Costs Through 2013	2014 Budget	Beyond 2014
<u>LCA Funded Projects</u>					
Capital Management	High	Annual		50,000	
Collection System - Development and Service Connections	High	Annual		40,000	
System Planning	High	Annual		20,000	
Other Equipment	High	Annual		50,000	
WWTP General Improvements	High	Annual		275,000	
WWTP- Replacement of Motor Control Centers ⁽²⁾	High	2,482,000	10,000	2,472,000	-
WWTP- Belt Filter Press Rebuilds & Replacement ⁽²⁾	High	1,775,000	4,000	1,771,000	-
WWTP- Digester Cover Replacements ⁽²⁾	High	2,205,000	1,500	85,000	2,118,500
Sub-total Allentown Division Wastewater Capital Funded by LCA			\$ 15,500	\$ 4,653,000	\$ 2,118,500
<u>City Funded Projects</u>					
WWTP-New Bar Rack at Headworks ⁽³⁾	High	955,000	29,000	926,000	-
Sanitary Sewer Evaluation Study -SSES ⁽³⁾	High	935,000	2,500	932,500	-
WWTP-SCADA Upgrades ⁽¹⁾	High	850,000	4,000	846,000	-
Additional Flow Metering ⁽³⁾	High	215,000	2,500	212,500	-
WRA Phase II RDII Corrective Action Plan Tasks 1-6 ⁽²⁾	High	275,000	1,000	274,000	-
Sanitary Sewer Manhole Lining ⁽³⁾	High	290,000	2,500	287,500	-
Sanitary Sewer Manhole Chimneys ⁽³⁾	High	190,000	2,500	187,500	-
Sub-total Allentown Division Wastewater Capital Funded by the City			\$ 44,000	\$ 3,666,000	-
Total Wastewater Capital Expenditures:			\$ 59,500	\$ 8,319,000	\$ 2,118,500

Note: Projects in bold type will not proceed beyond the planning phase, or beyond current authorized phase without specific

authorization from the LCA Board subsequent to the adoption of this budget.

(1) "Uncompleted Work" City Projects that were supposed to be complete by the time of settlement or executed by City personnel after settlement.

The City will fund these projects but has requested that LCA execute them.

(2) Required Capital Improvement Projects as shown on Schedule 7 of the Agreement and will be funded by LCA.

(3) "Administrative Order" Projects as per the Agreement are to be Funded by the City and executed by LCA.

**2014 BUDGET
CITY DIVISION
OPERATING EXPENSES
LABORATORY**

	2013 Partial Year	2013 Annualized	2014 Budget
OPERATING EXPENSES:			
PERSONNEL:			
Permanent (A)	\$ 152,030	\$ 380,075	\$ 364,466
Overtime	23,028	57,570	3,852
Benefits	89,280	223,200	201,477
Total	264,338	660,845	569,795
PURCHASE OF SERVICES:			
Internal Services - Overhead & Support	161,371	403,428	166,323
Laboratory Maintenance Services	17,505	43,763	32,350
Analyses (External)	-	-	26,700
Miscellaneous	-	-	2,300
Total	178,876	447,190	227,673
MATERIALS & SUPPLIES:			
Lab Supplies	16,387	40,968	32,400
Miscellaneous Supplies		-	15,300
Total	16,387	40,968	47,700
EQUIPMENT:			
Total	16,387	40,968	19,000
DEPRECIATION:			
			-
TOTAL EXPENSES	\$ 475,988	\$ 1,189,970	\$ 864,168

**SUBURBAN DIVISION
INTERNAL SERVICE**

2014 BUDGET
OPERATING EXPENSES
ALLOCATION UNIT: CONSOLIDATED INTERNAL SERVICE

	2012 Actual	2013 Budget	2013 Estimate	2014 Budget
PERSONNEL:				
Permanent (A)				\$ 443,915
Overtime				-
Benefits				117,444
Total	-	-	-	561,359
PURCHASE OF SERVICES:				
Postage				16,184
Computer Services				126,556
IT Consultant Services				
Advertising				5,000
Building & Equipment Maintenance				42,550
Utilities				84,100
Audit Fees			37,455	37,455
Dues & Subscriptions				25,000
Travel & Mileage			1,972	
Education & Training				76,680
Worker's Compensation Insurance				22,175
Legal/Litigation Fees				50,000
Miscellaneous				110,075
Public Relations				98,625
Special Studies				
Total	-	-	39,427	694,400
MATERIALS & SUPPLIES:				
Office Supplies				8,761
Maintenance Materials and Supplies				
Total	-	-	-	8,761
EQUIPMENT/SITE IMPROVEMENT:				
Gen'l Office Furniture and Equipment				
Computer Equipment & Software				22,700
Operation Center Improvement				
Total	-	-	-	22,700
DEPRECIATION:				
TOTAL EXPENSES	\$ -	\$ -	\$ 39,427	\$ 1,287,220

2014 BUDGET
OPERATING EXPENSES
ALLOCATION UNIT: CITY INTERNAL SERVICE

	2013 Budget	2013 Annualized	2013 Estimate	2014 Budget
PERSONNEL:				
Permanent (A)	\$ 694,627	\$ 1,736,568	\$ 201,830	\$ 573,990
Overtime	39,026	97,565	14,479	16,879
Benefits	374,163	935,408	71,278	334,102
Total	1,107,816	2,769,540	287,587	924,971
CONSOLIDATED INTERNAL SERVICES				
	208,947	522,368	19,714	728,180
PURCHASE OF SERVICES:				
Postage	24,000	60,000	12,396	101,823
Computer Services	7,500	18,750	2,083	34,050
IT Consultant Services	-			
Advertising				
Building & Equipment Maintenance				
Utilities			859	-
Travel & Mileage	2,000	5,000		
Education & Training	2,500	6,250	727	45,890
Worker's Compensation Insurance	83,555	208,888	83,555	153,163
Property & Liability Insurance	147,805	369,513	147,805	316,887
Legal/Litigation Fees	2,500	6,250	-	
Miscellaneous	9,500	23,750	2,446	103,200
Public Relations	5,000	12,500		
Special Studies				
Uncollectible Receivables	86,750	216,875		
Total	371,110	710,900	249,872	755,012
MATERIALS & SUPPLIES:				
Office Supplies	-		2,570	20,652
Maintenance Materials and Supplies	-		661	
Total	-	-	3,231	20,652
EQUIPMENT/SITE IMPROVEMENT:				
Gen'l Office Furniture and Equipment	-		1,397	
Computer Equipment & Software				74,904
Total	-	-	1,397	74,904
DEPRECIATION:				
TOTAL EXPENSES	\$ 1,687,873	\$ 4,002,808	\$ 561,800	\$ 2,503,720
 (A) Salaries include bonus payout.				
Total Expenses less Depreciation	\$ 1,687,873	\$ 4,002,808	\$ 561,800	\$ 2,503,720

2014 BUDGET
OPERATING EXPENSES
ALLOCATION UNIT: SUBURBAN INTERNAL SERVICE

	2012 Actual	2013 Budget	2013 Estimate	2014 Budget
PERSONNEL:				
Permanent (A)	\$ 790,335	\$ 739,455	\$ 485,146	\$ 464,422
Overtime	14,135	5,000	7,324	4,324
Benefits	231,045	235,900	174,837	141,051
Total	1,035,515	980,355	667,307	609,798
CONSOLIDATED INTERNAL SERVICES				
	-	-	15,771	559,040
PURCHASE OF SERVICES:				
Postage	59,895	62,000	57,226	67,882
Computer Services	63,110	66,385	64,810	1,000
IT Consultant Services	-	50,000	-	-
Advertising	1,810	3,500	2,778	-
Building & Equipment Maintenance	50,200	49,900	40,584	-
Utilities	62,840	63,710	65,671	-
Travel & Mileage	5,030	7,000	6,731	-
Education & Training	23,900	40,000	16,659	20,270
Worker's Compensation Insurance	16,845	16,000	16,939	38,055
Property & Liability Insurance	144,040	145,065	145,503	142,001
Legal/Litigation Fees	9,160	72,000	45,924	-
Miscellaneous	65,875	65,245	62,605	39,520
Public Relations	21,835	48,575	17,639	-
Special Studies	-	10,000	-	-
Total	524,540	699,380	543,069	308,728
MATERIALS & SUPPLIES:				
Office Supplies	14,220	16,000	16,397	10,435
Maintenance Materials and Supplies	7,035	7,500	10,839	-
Total	21,255	23,500	27,236	10,435
EQUIPMENT/SITE IMPROVEMENT:				
Gen'l Office Furniture and Equipment	7,145	7,500	36,954	-
Computer Equipment & Software	12,860	18,000	-	24,100
Total	20,005	25,500	36,954	24,100
DEPRECIATION:				
	21,525	23,500	23,500	7,000
TOTAL EXPENSES	\$ 1,622,840	\$ 1,752,235	\$ 1,313,837	\$ 1,519,100

**SUBURBAN DIVISION
WATER**

2014 BUDGET
SUBURBAN DIVISION
SUMMARY OF REVENUES AND RESERVE FUNDS
WATER FUND - ALL SERVICE AREAS

	2012 Actual	2013 Budget	2013 Estimate	2014 Budget
OPERATING REVENUES:				
Large Industrial	\$ 668,025	\$ 675,000	\$ 846,648	\$ 960,091
Other Industrial/Commercial	2,095,590	2,244,000	2,301,244	2,711,637
Residential	3,162,670	3,250,000	3,321,134	3,353,941
Penalties	48,225	47,655	58,605	56,260
Private Fire Service	602,430	588,885	589,521	596,805
Public Fire Service	344,765	345,315	358,918	368,440
Rental Income	119,005	118,816	75,700	51,446
Interest Subsidy - 2010 A Bonds	227,230	227,230	207,462	207,462
Interest Income - Revenue Fund	22,740	23,000	17,609	20,000
Interest Income - Debt Service	12,890	10,100	5,353	7,500
Miscellaneous Income	109,875	119,030	53,637	76,385
Total	\$ 7,413,445	\$ 7,649,031	\$ 7,835,831	\$ 8,409,967
OPERATING EXPENSES AND DEBT SERVICE LESS COVERAGE AND DEPRECIATION	6,330,355	7,003,429	6,154,497	6,850,924
TRANSFER TO RENEWAL & REPLACEMENT RESERVE FUND	274,185	298,773	298,773	311,202
SURPLUS (DEFICIT) - OPERATING RESERVE	\$ 808,905	\$ 346,829	\$ 1,382,561	\$ 1,247,841
OPERATING COVERAGE (A)	1.38	1.23	1.60	1.56
CAPITAL FUNDING				
NONOPERATING REVENUES:				
Meter Sales & Installations	\$ 101,659	\$ 84,475	\$ 96,453	\$ 75,000
Supply/Special Tapping Fees	217,298	157,495	170,000	223,570
Distribution Tapping Fees	47,295	20,000	13,000	20,000
Inspection & Review Fees	57,627	75,000	62,641	65,000
Reimbursement from Wastewater Funds	20,419	63,330	26,980	71,767
Other Income	26,123	24,000	24,000	24,000
Total Nonoperating Revenues	470,421	424,300	393,075	479,337
CAPITAL CONTRIBUTIONS:				
Grants	-	-	-	-
Reimbursement from Other Entities	-	55,220	-	-
Total Capital Contributions	-	55,220	-	-
BORROWED FUNDS & RESERVES	3,271,113	4,975,280	3,106,925	3,997,163
TOTAL CAPITAL FUNDING	3,741,534	5,454,800	3,500,000	4,476,500
CAPITAL EXPENDITURES	\$ 3,741,534	\$ 5,454,800	\$ 3,500,000	\$ 4,476,500
SURPLUS TO CAPITAL RESERVE FUND	\$ -	\$ -	(0)	(0)

(A) Equates to Operating Revenues less Operating Expenses, without Debt Service, divided by Interest expense and principal reduction. The trust indenture requires a minimum 1.1 factor.

2014 BUDGET
SUBURBAN DIVISION
OPERATING AND NONOPERATING EXPENSES
WATER FUND - ALL SERVICE AREAS

	2012 Actual	2013 Budget	2013 Estimate	2014 Budget
OPERATING EXPENSES:				
PERSONNEL:				
Permanent	\$ 660,080	\$ 709,540	\$ 596,835	\$ 771,597
Overtime	73,330	88,870	56,073	38,679
Employee Benefits	214,595	252,755	196,955	257,559
Total	948,005	1,051,165	849,863	1,067,835
PURCHASE OF SERVICES:				
Internal Services - Overhead & Support	734,365	841,050	390,697	526,190
Utilities	497,455	396,450	413,636	430,450
Engineering	12,640	59,000	54,500	89,500
Analyses (External)	53,030	29,835	25,725	76,840
Contract Operating Svcs	34,470	34,450	34,240	34,600
Compliance Expense	-	-	-	-
Maintenance Services	194,875	322,175	214,973	329,200
Extraordinary Expenditures	32,250	50,000	30,000	56,000
Industrial Meter Testing & Repair	3,700	8,000	6,000	8,000
Miscellaneous Services	48,080	37,715	36,708	40,060
Water Purchases	612,035	993,580	951,353	1,003,980
Total	2,222,900	2,772,255	2,157,832	2,594,820
MATERIALS AND SUPPLIES:				
Pump Supplies	41,985	48,750	42,265	51,100
Purification Supplies	58,930	81,245	72,865	82,180
Distribution & Transmission Supplies	71,285	50,945	51,835	49,500
Misc. Materials & Supplies	57,635	52,565	47,605	55,750
Fuel & Mileage	47,625	59,005	53,554	64,900
Total	277,460	292,510	268,124	303,430
EQUIPMENT:	36,755	80,330	76,430	84,450
DEPRECIATION & AMORTIZATION	2,546,690	2,900,000	2,700,000	2,900,000
TOTAL OPERATING EXPENSES	6,031,810	7,096,260	6,052,249	6,950,536
NONOPERATING EXPENSES:				
DEBT SERVICE:				
Interest Expense	1,440,000	1,335,669	1,329,098	1,296,791
Financing Fees	7,670	7,500	7,500	7,500
Debt Retirement	1,397,565	1,464,000	1,465,650	1,496,097
Coverage *	425,635	419,950	419,212	418,933
TOTAL NONOPERATING EXPENSES	3,270,870	3,227,119	3,221,460	3,219,321
TOTAL EXPENSES	\$ 9,302,680	\$ 10,323,379	\$ 9,273,710	\$ 10,169,857

**2014 BUDGET
SUBURBAN DIVISION
CAPITAL EXPENDITURES
TOTAL WATER FUND**

Project	Priority	Estimated Project Cost	Estimated Costs Through 2013	2014 Budget	Beyond 2014
Water Company Acquisitions	High	Annual	\$ -	\$ 62,000	
Capital Management	High	Annual	-	85,000	
Capital Works Supplies & Software	High	Annual	-	20,000	
Distribution Mains & Service Connections	High	Annual	-	100,000	
System Planning	High	Annual	-	60,000	
Distribution Mains Upsizing *	High	Annual	-	75,000	
Distribution System Improvements	High	Annual	-	5,000	
New Water Meter Installations	High	Annual	-	115,000	
Mobile Equipment	High	Annual	-	85,000	
Other Equipment	High	Annual	-	60,000	
Reservoir Rehabilitation/ Maintenance Contract	High	Annual	-	168,000	
GIS Data Attribution/Updates & Application Development	High	Annual	-	90,000	
SCADA Programming, Hardware Upgrades, Software & Training	High	Annual	-	148,000	
Computer System Hardware & Software Upgrades	High	Annual	-	56,000	
Water Main Replacement Projects	High	Annual	-	500,000	
Information Technology Master Plan Implementation	High	2,709,000	150,000	500,000	2,059,000
Knowledge Management / Sharing Program	High	596,250	358,000	238,250	-
Hydro-Pneumatic Pump Station Upgrades	High	495,500	1,000	160,000	334,500
Arcadia Pump Station Improvements	High	1,166,750	200,000	966,750	-
Water Facility Emergency Backup Power	High	1,624,500	1,449,500	175,000	-
Non-residential Water Meter Replacements	Medium	470,000	-	265,000	205,000
Lynn Water Company Improvements	Medium	124,000	44,000	80,000	-
Crestwood- New Alternate Water Supply	Medium	184,500	2,000	182,500	-
CLD Auxiliary Pump Station & Main Extension	Medium	953,500	5,000	125,000	823,500
Route 309 Crossing @ Sand Spring Road	Medium	190,000	35,000	155,000	-
					-
Total Suburban Divisions Water Capital Expenditures:			\$ 2,244,500	\$ 4,476,500	\$ 3,422,000

Note: Projects in bold type will not proceed beyond the planning phase, or beyond current authorized phase without specific authorization from the LCA Board subsequent to the adoption of this budget.

* Individual upsizing contributions less than \$75,000 will not require additional authorization beyond adoption of this budget.

**SUBURBAN DIVISION
WASTEWATER**

**2014 BUDGET
SUBURBAN DIVISION
EXPENSE & REVENUE SUMMARY
WASTEWATER FUND**

	2012 Actual	2013 Budget	2013 Estimate	2014 Budget
REVENUES:				
Operating and Nonoperating:				
Western Lehigh Interceptor System	\$ 5,611,982	\$ 6,849,195	\$ 5,873,797	\$ 6,333,983
Little Lehigh Relief Interceptor System				
Phase 1	219,900	451,900	182,665	349,706
Little Lehigh Relief Interceptor System				
Phase 2	29,075	57,555	28,873	53,965
Common Rate Collector System (A)	708,035	727,830	723,247	744,491
Arcadia West	158,746	167,645	182,522	174,497
Wastewater Treatment Plant	6,814,288	6,871,407	7,863,804	8,271,519
Washington Township System	473,220	511,685	496,264	512,498
Lynn Township System (B)	321,242	366,475	363,428	393,347
Capital	3,579,467	11,328,500	4,286,420	6,275,000
Total Revenues	\$ 17,915,955	\$ 27,332,192	\$ 20,001,020	\$ 23,109,006

EXPENSES:

Operating and Nonoperating:				
Western Lehigh Interceptor System	\$ 5,611,982	\$ 6,849,195	\$ 5,873,797	\$ 6,333,983
Little Lehigh Relief Interceptor System				
Phase 1	219,900	451,900	182,665	349,706
Little Lehigh Relief Interceptor System				
Phase 2	29,075	57,555	28,873	53,965
Common Rate Collector System (A)	630,247	720,857	696,109	838,760
Arcadia West System	84,465	167,645	100,307	124,530
Lynn Township System (B)	-	293,030	243,683	288,767
Wastewater Treatment Plant	5,985,185	5,873,304	5,747,168	6,941,673
Washington Township System	473,220	511,685	499,343	512,498
Capital	3,579,467	11,328,500	4,250,000	6,275,000
Total Expenses	\$ 16,613,541	\$ 26,253,671	\$ 17,621,944	\$ 21,718,882

(A) This budget includes the Heidelberg Heights, Wynnewood Terrace, Sand Spring, Weisenberg Township and Upper Milford Collector Systems.

(B) Acquired on March 1, 2012.

Note: Expenses are net of depreciation.

2014 BUDGET
SUBURBAN DIVISION
OPERATING AND NONOPERATING EXPENSES
ALLOCATION UNIT: WASTEWATER - ALL FUNDS

	2012 Actual	2013 Budget	2013 Estimate	2014 Budget
OPERATING EXPENSES:				
PERSONNEL:				
Permanent	\$ 312,310	\$ 350,505	\$ 241,271	\$ 365,845
Overtime	19,925	21,950	22,219	7,314
Employee Benefits	107,755	138,000	79,619	150,337
Total	439,990	510,455	343,109	523,496
PURCHASE OF SERVICES:				
Internal Services - Overhead & Support	292,485	327,870	175,317	205,448
Utilities	172,660	216,765	186,988	242,765
Engineering	111,365	180,700	20,000	48,700
Exceptional Strength Analyses	9,480	39,520	32,145	40,320
General Analyses	43,445	54,550	43,725	55,600
Maintenance Services	416,195	387,025	246,295	324,235
Fuel Spill Remediation	1,000	1,200	2,600	2,600
Contract Operator	4,789,240	4,528,701	4,598,072	5,060,038
Compliance Expense	-			
Treatment & Transportation	3,880,860	4,840,983	4,232,634	5,438,567
LCA WTP Treatment /Removals	1,721,334	1,404,055	1,840,576	1,598,651
Misc. Purchase of Services	146,650	151,195	99,617	78,160
Rental Charges	66,085	72,075	54,741	51,387
System Planning/Capital Management	6,245	15,300	-	-
I/I Rehabilitation Program	-	20,000	1,660	20,000
Total	11,657,044	12,239,939	11,534,371	13,166,471
MATERIALS AND SUPPLIES:				
Fuel	17,615	25,795	28,218	37,245
Misc. Materials & Supplies	87,870	99,060	86,745	116,765
Equipment	60,660	78,050	59,528	101,950
Amortized Equipment	-	70,500	70,500	70,500
Total	166,145	273,405	244,992	326,460
AMORTIZED PLANNING	71,565	147,830	147,828	147,828
RESERVE FUND ALLOCATION	-	520,000	-	-
DEPRECIATION & AMORTIZATION	3,968,286	4,103,210	4,039,236	4,048,736
TOTAL OPERATING EXPENSES	16,303,030	17,794,839	16,309,535	18,212,991
NONOPERATING EXPENSES:				
Interest Expense	168,190	260,238	139,075	253,538
Principal Reduction	824,700	825,676	828,871	875,873
Coverage	121,034	124,653	123,629	127,142
TOTAL NONOPERATING EXPENSES	1,113,924	1,210,567	1,091,575	1,256,553
TOTAL EXPENSES	\$ 17,416,954	\$ 19,005,406	\$ 17,401,110	\$ 19,469,543

2014 BUDGET
SUBURBAN DIVISION
SOURCES OF OPERATING REVENUES - WASTEWATER FUND

	2012 Actual	2013 Budget	2013 Estimate	2014 Budget
WLI REVENUES:				
User Charges	\$ 5,522,645	\$ 6,766,695	\$ 5,816,998	\$ 6,256,483
Interest Income - Revenue Fund	3,941	2,500	1,652	2,500
Other Income	85,396	80,000	55,146	75,000
Total	5,611,982	6,849,195	5,873,797	6,333,983
LLRI - PHASE 1 REVENUES:				
User Charges	217,729	449,200	181,590	348,206
Operating Reserves		1,200	-	
Interest Income - Revenue Fund	504	500	425	750
Other Income	1,667	1,000	650	750
Total	219,900	451,900	182,665	349,706
LLRI - PHASE 2 REVENUES:				
User Charges	27,402	55,755	27,448	51,965
Operating Reserves		-	-	-
Interest Income - Revenue Fund	1,673	1,800	1,425	2,000
Total	29,075	57,555	28,873	53,965
COMMON RATE COLLECTOR SYSTEM REVENUES: (A)				
User Charges	666,015	698,695	703,531	718,991
Interest Income	534	550	615	500
Other Income	41,486	28,585	19,101	25,000
Total	708,035	727,830	723,247	744,491
ARCADIA WEST REVENUES:				
User Charges	158,579	159,700	182,322	174,247
Use of Supplemental Revenues	-	7,770	-	
Interest Income	167	175	200	250
Total	158,746	167,645	182,522	174,497
WASHINGTON TWP REVENUES:				
User Charges	412,882	440,300	422,958	429,821
Interest Income	-	50	39	75
Other Income	768	1,000	2,119	2,000
Use of Supplemental Revenues	59,570	70,335	71,148	80,602
Total	473,220	511,685	496,264	512,498
LYNN TOWNSHIP COLLECTOR SYSTEM: (B)				
User Charges	319,204	364,600	362,062	392,097
Interest Income	170	225	227	250
Other Income	1,868	1,650	1,140	1,000
Total	321,242	366,475	363,428	393,347
WASTEWATER TREATMENT PLANT				
Hauler Fees	2,253,458	2,240,000	2,645,862	2,440,000
Industrial Charges	2,796,193	2,713,112	3,300,936	3,292,488
Penalties	33,934	25,000	29,248	25,000
Excess Removal Credits	1,721,332	1,827,845	1,878,691	2,439,188
Interest Income	2,098	2,000	1,045	1,000
Other Income	7,273	63,450	8,021	73,843
Total	6,814,288	6,871,407	7,863,804	8,271,519
Total Operating Revenues	\$ 14,336,488	\$ 16,003,692	\$ 15,714,599	\$ 16,834,006

(A) Includes the following systems: Upper Milford, Weisenberg Township, Heidelberg Heights, Wynnewood Terrace, and Sand Spring.

(B) This system was acquired 2/29/12.

2014 BUDGET

**CAPITAL EXPENDITURES
SUBURBAN DIVISIONS
WASTEWATER - CAPITAL**

<u>Project</u>	<u>Priority</u>	<u>Estimated Project Cost</u>	<u>Estimated Costs Through 2013</u>	<u>2014 Budget</u>	<u>Beyond 2014</u>
General:					
General Sewer System Acquisition & Planning	High	Annual	\$ -	\$ 60,000	\$ -
Subtotal			-	60,000	-
Wastewater Treatment Plant					
Plant Improvements	High	11,200,000	1,400,000	650,000	9,150,000
Biogas Energy Related Improvements	High	5,270,000	1,300,000	600,000	3,370,000
Subtotal			2,700,000	1,250,000	12,520,000
Western Lehigh Interceptor System:					
Capital Management	High	Annual	-	11,000	
Sewer Mains & Connections	High	Annual	-	1,000	
System Planning	High	Annual	-	1,500	
Other Equipment	High	Annual	-	50,000	
Central Lehigh Valley Wastewater Capacity Planning & Expansion	High	8,050,000	700,000	500,000	79,306,000
Signatory I/I Investigation & Remediation	Mandated	10,282,000	3,000,000	1,000,000	6,282,000
Western Lehigh Interceptor Rehabilitation	Medium	9,735,000	785,000	500,000	8,450,000
Spring Creek Pump Station Upgrades	Medium	281,000	3,000	278,000	-
Subtotal			4,488,000	2,341,500	94,038,000
Little Lehigh Relief Interceptor System:					
System Planning	High	Annual	-	500	
Park Pump Station Improvements	High	2,257,000	225,000	500,000	1,532,000
Subtotal			225,000	500,500	1,532,000
Upper Milford Township:					
Sewer Mains & Connections	High	Annual	-	1,500	
System Planning	High	Annual	-	2,000	
Subtotal			-	3,500	-
Northern Lehigh Service Area:					
Sewer Mains & Connections	High	Annual	-	500	
System Planning	High	Annual	-	1,000	
Wynnewood Sewer System Improvements	High	1,182,000	85,000	556,000	541,000
North Whitehall Township Act 537 Plan Update	Medium	35,000	2,000	10,000	23,000
Jordan Creek Wastewater System (1)	Medium	7,055,000	325,000	100,000	6,630,000
Wynnewood I/I Investigation and Remediation Program	Medium	675,000	20,000	225,000	430,000
Subtotal			432,000	892,500	7,624,000
Weisenberg Township:					
Sewer Mains & Connections	High	Annual		2,000	
System Planning	High	Annual		2,000	
Western Weisenberg Twp Wastewater Treatment Plant	High	3,446,500	2,977,500	469,000	-
Subtotal			2,977,500	473,000	-
Lynn Township					
Sewer Mains & Connections	High	Annual		1,500	
System Planning	High	Annual		2,500	
Wastewater Treatment Plant Improvements & Expansion	High	3,500,000	36,000	750,000	2,714,000
Subtotal			36,000	754,000	2,714,000
Total Wastewater Capital Expenditures			\$ 10,858,500	\$ 6,275,000	\$ 118,428,000

(1) Includes LCA WTP @ Kidspace and Offsite Conveyance Facilities