

#### LEHIGH COUNTY AUTHORITY

August 26, 2013

#### **BOARD MEETING AGENDA**

- 1. Call to Order
- 2. Review of Agenda
  - Public Participation Sign-In Request
- 3. Executive Sessions
- 4. Approval of Minutes
  - June 24, 2013 Regular Meeting
  - July 8, 2013 Workshop Meeting
- 5. Public Comments
- 6. Action / Discussion Items

#### **FINANCE AND ADMINISTRATION**

- LCA By-Laws Amendment (Approval)
- Allentown Division 2013-2016 Capital Plan (Approval)

#### **WATER**

None

#### **WASTEWATER**

- Western Lehigh Interceptor Manhole Inspection
- 7. System Operations Overview
- 8. Staff Comments
- 9. Solicitor's Comments
- 10. Other Comments
- 11. Adjournment

SEPTEMBER N	MEETINGS
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Workshop Meeting September 9 – 12:00 p.m.
Board Meeting September 23 – 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.

## REGULAR MEETING MINUTES June 24, 2013

The Regular Meeting of the Lehigh County Authority was called to order at 12:26 p.m. on Monday, June 24, 2013, Chairman Asa Hughes presiding. Other Members present at the commencement of the meeting were: Richard Bohner, Emrich Stellar, Scott Bieber, and Norma Cusick. Authority Staff present were: Aurel Arndt, Bradford Landon, Liesel Adam, Ed Bielarski, Frank Leist, Pat Mandes, and Cristin Keppel.

Nate Swartz and Chris Seyler from Zelenkofske Axelrod, LLC were in attendance.

Angelica Forndran of Cowan Associates and George Maniatty member of the public, was also in attendance.

#### **REVIEW OF AGENDA**

Mr. Arndt stated there would be one additional item for approval after the regularly listed agenda items.

#### **PUBLIC COMMENTS**

None.

#### **EXECUTIVE SESSION**

Mr. Arndt stated there would be an Executive Session regarding personnel following the regular agenda.

#### APPROVAL OF MINUTES

#### April 8, 2013, Workshop Meeting Minutes

On a motion by Mr. Bohner, seconded by Ms. Cusick, the Board unanimously approved the minutes of the April 8, 2013 Workshop Meeting (5-0).

#### April 22, 2013, Regular Meeting Minutes

On a motion by Mr. Bohner, seconded by Ms. Cusick, the Board unanimously approved the minutes of the April 22, 2013 Regular Meeting (5-0).

#### May 13, 2013, Regular Meeting Minutes

On a motion by Mr. Bohner, seconded by Mr. Stellar, the Board unanimously approved the minutes of the May 13, 2013 Workshop Meeting (5-0).

#### **ACTION AND DISCUSSION ITEMS**

#### **2012 Financial Statements and Independent Auditor's Report** (Acceptance)

Mr. Bielarski stated that Mr. Swartz and Ms. Seyler performed the audit for 2012 and will be presenting their findings.

Ms. Seyler gave a brief overview of the audit report, stating that this was a clean audit. She noted that balance sheets reflecting any net assets are now labeled as net position, per Government Accounting Standards Board Rule 67. Ms. Seyler noted there is a change in Authority assets in 2012 because of the acquisition of Lynn Township Sewer Authority. She stated that all assets are healthy and that a single audit was required for all federal funds the Authority received, which was also a clean audit. Some discussion followed.

On a motion from Mr. Stellar, seconded by Ms. Cusick, the Board unanimously accepted the 2012 Financial Statements and Independent Auditor's Report (5-0).

Mr. Swartz and Ms. Seyler left the meeting at 12:42 p.m.

#### **Resolution 6-2013-1 – National Penn Bank Transactions** (Approval)

Mr. Landon explained this Resolution is needed as part of PennVEST loan closing; a separate debt service reserve account is required for the loan. He stated the account has been established with National Penn Bank, listing Authority officials who sign for all other transactions. Mr. Landon also noted that this Resolution complies with Authority Financial Guidelines.

Ms. Mandes left the meeting at 12:47 p.m.

On a motion from Mr. Stellar, seconded by Ms. Cusick, the Board unanimously approved Resolution 6-2013-1, designating staff members approved to execute transactions and perform other functions on behalf of the Authority with National Penn Bank.

#### Wastewater Capital Recovery Fees – Resolution 6-2013-2 (Approval)

Mr. Arndt distributed a corrected summary sheet and noted that this is the annual update to the capital recovery charges for a new customer connected to the system, or in the event that an industrial customer increases their capacity needs. He highlighted some of the charges for various systems. Mr. Arndt explained that charges need to be approved via a Resolution per the Pennsylvania Municipality Authorities Act.

On a motion from Mr. Bohner, seconded by Ms. Cusick, the Board unanimously approved Resolution 6-2013-2 (5-0).

#### Wynnewood Terrace Pump Station and Main Replacement (Approval)

Mr. Leist referred to the attached memorandum and explained the Authority acquired the Wynnewood Terrace Sewer System located in the northeastern part of North Whitehall Township in July of 2003. He noted that the system was not built well, as there have been many breaks throughout the system and pump station problems since it was acquired. As part of the previously approved work, Cowan Associates, Inc. (CA) evaluated the existing aged force main resulting in a recommendation to replace the line with a new 6-inch line. He explained the existing line is not capable of handling the peak flow requirements of the proposed new pump station. In addition, this line has experienced a number of failures, the most recent in April 2013, resulting in a sanitary sewer overflow. Because presently access to the line is difficult as it is located along the back and side yards of properties, the proposed line will be constructed within public right-of-way. Mr. Leist said approval is needed for the design to move forward with the replacement of approximately 3,000 linear-feet of existing 4-inch force main with 6-inch pipe. Two types of construction methods will be considered: conventional open cut and the use of "no dig" technology, such as horizontal drilling.

On a motion from Mr. Stellar, seconded by Mr. Bieber, the Board unanimously approved a Capital Project Authorization Amendment, including a Professional Services Authorization for Cowan Associates, Inc., in the amount of \$74,670 (5-0).

#### **SYSTEM OPERATIONS OVERVIEW**

None.

#### **STAFF COMMENTS**

None.

#### **SOLICITOR'S COMMENTS**

None.

#### **OTHER COMMENTS**

#### City of Allentown Concession Lease Update

Mr. Arndt provided an update of Concession activities. He noted there are a plethora of meetings between LCA and City Transition team members and between LCA and the consultants that have been engaged to aide with the financial closing of the Lease. He also stated that he met with City of Allentown Signatories to discuss future service. Mr. Arndt gave a brief overview of the financing process, specifically regarding obtaining credit ratings for the Authority. He also noted that interest rates have gone up since the signing of the Lease Agreement; therefore, the Concession payment may be different because it is depended on the interest rate. Extensive discussion followed.

#### **EXECUTIVE SESSION**

The Chairman called for an Executive Session at 1:34 p.m. to discuss personnel, at which time members of the public exited the meeting.

The session ended at 2:16 p.m.

Mr. Hughes left the meeting during Executive Session at 2:08 p.m.

Mr. Arndt continued his update regarding the Concession Lease. He noted that additional costs for consultant fees and other closing expenses have been incurred and asked for approval of said costs.

On a motion from Mr. Bieber, seconded by Ms. Cusick, the Board unanimously approved a Budget Amendment for Concession Lease costs in the amount of \$71,836.62 (4-0).

#### **ADJOURNMENT**

There being no further business, the Secretary adjourned the meeting at 2:17 p.m.

Richard H. Bohner
Secretary

## WORKSHOP MEETING MINUTES July 8, 2013

The Workshop Meeting of the Lehigh County Authority was called to order at 12:30 p.m., on Monday, July 8, 2013, Vice Chairman Tom Muller presiding. Other Members present at the commencement of the meeting were: Brian Nagle, Richard Bohner, Norma Cusick, and Scott Bieber. Authority Staff present were: Aurel Arndt, Patricia Mandes, Liesel Adam, Ed Bielarski, Frank Leist, Bradford Landon and Cristin Garger.

Donna Kreiser of McNees. Wallace and Nurick was in attendance.

Member of the public, George Maniatty was also in attendance.

#### Agenda Review

Mr. Arndt stated there would be no additional items.

#### **Public Comments**

None.

#### **Executive Session**

Mr. Arndt stated there would be an Executive Session before the regular agenda items to discuss property acquisition and litigation.

The Vice Chairman called for an Executive Session at 12:32 p.m., at which time, Mr. Maniatty left the meeting.

The Session ended at 1:31 p.m.

The Vice Chairman called for a recess at 1:31 pm. The meeting resumed at 1:50 p.m., at which time Emrich Stellar joined the meeting via phone and Mr. Maniatty reentered the meeting.

#### Water and Sewer Bonds (Allentown Concession) Resolution 7-2013-1 (Approval)

Mr. Arndt stated that Ms. Kreiser would review the Resolution for the financing of the City of Allentown Concession bonds.

Ms. Kreiser reviewed the parameters of the Resolution and summarized each section of the Consent Agreement, noting that all parameters were unique to the specific transaction.

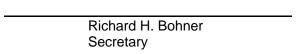
Mr. Bohner inquired as to why one of the bonds is taxable.

Ms. Kreiser stated one of the bonds is taxable because of how the money is being spent.

Mr. Bielarski followed up, stating that money for future capital projects is included in the financing and those funds do not meet the criteria for tax exempt bonds. Extensive discussion followed.

On a motion from Mr. Bohner, seconded by Ms. Cusick, the Board unanimously approved Resolution 7-2013-1, which among other approvals, authorized the undertaking of the concession, established parameters for bond financing as well as issuance of the bonds within those parameters, empowered certain staff members to negotiation and execute necessary documents, and approved the printing of the Preliminary Official Statement (6-0).

There being no further business, the Vice Chairman adjourned the meeting at 2:14 p.m.



#### **FINANCE & ADMINISTRATION**

#### **ACTION ITEMS**

#### 1. **By-Laws Amendment** (Approval)

The staff recommends the amendments to the By-Laws set forth in the 16 August 2013 notice provided to all Board members, a copy of which notice is attached *(gold)*.

#### 2. <u>Allentown Division – 2013 through 2016 Capital Plan</u> (Approval)

The staff recommends the approval of the Allentown Division Capital Plan. The Plan is a separate attachment.

#### **DISCUSSION ITEMS**

#### 1. None.

#### **INFORMATION ITEMS**

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

			Gross	Date of	Date	Net Rate
Fund	Bank	Location	Amount	Purchase	Due	%
Consolidated (2)	PSDLAF Flex Pool		155.000.00	7/1/13	8/27/13	0.150
LLRI 2	PSDLAF Flex Pool		245.000.00	7/1/13	8/27/13	0.150
2010 DSR	PSDLAF Flex Pool		150,000.00	7/1/13	8/27/13	0.150
Water Renew & Repl	PSDLAF Flex Pool		1,000,000.00	7/1/13	8/27/13	0.150
LLRI Cap Reserves	PSDLAF Flex Pool		400,000.00	7/1/13	8/27/13	0.150
WW Capacity	PSDLAF Flex Pool		600,000.00	7/1/13	8/27/13	0.150

#### Fund Descriptions for Investments:

WW Capac	Wastewater Capacity
Cons Wtr (2)	Consolidated Water 2
LLRI CR	Little Lehigh Relief Interceptor Capital Reserves
2010 DSR	2010 Bond Debt Service Reserves
Wtr R & R	Renewal and Replacement
LLRI (2)	Consolidated Little Lehigh Relief Interceptor 2

#### **WATER**

#### **ACTION ITEMS**

1. None

#### **DISCUSSION ITEMS**

1. None.

#### **INFORMATION ITEMS**

#### 1. Phase 2 Interconnection with Allentown

Livengood Excavators intends to address restoration at Schantz Road this fall. All other punch-list items have been addressed. *No Current Activity* 

#### 2. Water Main Replacement Project - Oakland Park

Final paving, lawn and driveway restoration was completed in early June. The project is complete and now in the 18-month warranty period.

#### 3. Arcadia West Pumping Station Modifications

Bids are scheduled to be opened on August 22<sup>nd</sup>. T&M Associates estimates that the general and electrical contracts will total \$863,000.

#### 4. 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 later this year.

#### 5. 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. Construction is underway the site work is completed at a majority of the facilities. Long lead items provided by the electrical contractor such as transfer switches and generators are scheduled to be delivered by the end of September. The Agreement requires substantial completion of the project no later November 16, 2013.

#### 6. <u>Developments</u>

Water system construction is occurring at the following developments:

Trexler Fields, Phases 2, 3, 4 & 5 (Partial), 28 residential lots (sfa & sfd), UMT

Valley West Estates, Phases 4, 5 & 6, 46 residential lots (sfd), UMT. We were notified that construction will resume after no activity in over four years.

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, UMilT, 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

Woodmont at Upper Macungie (formerly Rabenold Farms II), 288 apartment units and clubhouse, (Portion north of I-78), UMT

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 Subdivision I, 14 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

#### **WASTEWATER**

#### **ACTION ITEMS**

#### 1. <u>Western Lehigh Interceptor Manhole Inspection</u> (Approval)

A Capital Project Authorization Amendment and a Professional Services Authorization for Arcadis (Malcolm Pirnie) will be presented for consideration for the inspection of 700 manholes in the WLI Interceptor System to identify structural and leakage issues. This work is part of the SCARP and is a requirement of the EPA Administrative Order.

#### **DISCUSSION ITEMS**

1. None.

#### **INFORMATION ITEMS**

#### 1. <u>Infiltration and Inflow (I&I) Program Update</u>

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.

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.

#### 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.

The total cost of the WTP including soft costs and KidsPeace acquisition costs is estimated at \$4.69 million.

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. *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. NWT continues discussions to secure a site for the proposed WTP and to secure commitments to connect from property owner along the proposed route.

#### 4. Arcadia West WWTP Improvements

Construction activity continues at the site with about 50% of the work completed by the end of July. Most of the block work will be complete by the end of August. The total project cost estimate is \$3,502,300.

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

Staff has completed review of the Preliminary Technical Memorandum and returned comments to our consultant Cowan Associates, Incorporated (CA). Design work is proceeding on a below grade self-contained pump station with submersible pumps and a new 6" force main.

#### 6. Park Pump Station Improvements

<u>Fuel Tank Replacement</u> – 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 the end of September and award the work at the October Board Meeting.

#### 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; the

Agreement requires substantial completion of the facility no later than 270 days from the date of the NTP.

#### **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 currently being filled. After this digester is put back in service, the 2<sup>nd</sup> digester will be drained and mixers installed. 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 1<sup>st</sup> 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. PPL has finally responded and is requiring that temporary sub-meters be installed to set a base line and verify estimated energy savings for the digester mixers.

#### BY-LAWS AMENDMENT NOTICE

#### 16 August 2013

In order to meet the seven days written notice requirement of Article V, §1 of the By-Laws, notice is hereby given that consideration of various amendments to the Lehigh County Authority By-Laws will be considered at the Lehigh County Authority Board meeting on 26 August 2013:

1) To reflect the numerous position title and responsibilities changes among the Authority management staff as a result of the successful transition under the City of Allentown Concession Agreement arrangement, all references in the Authority By-Laws to the prior staff position of General Manager shall be amended to the current staff position of Chief Executive Officer.

## [Hereinafter, amendments are reflected with italicized language being added language and strikenthrough language being deleted language)

#### 2) ARTICLE I, SECTION 5. SPECIAL MEETINGS

Special meetings of the Board shall be held whenever called by the Chairman or by not less than three members of the Board. Calls for special meetings shall be in writing, shall be served upon the General Manager, as designees for the Secretary, and shall specify the purpose or purposes of the special meeting.

Notice shall be given of the time, place and purpose of each special meeting by telephone or delivery at least 24 hours before the meeting to each member of the Board, but such notice may be waived by any member. Notice shall also be publicized in accordance with statutory requirements.

This provisions shall not be the exclusive manner for calling special meetings, but this section is intended as a procedure for board members to institute the calling of a special meeting.

#### 3) ARTICLE I, SECTION 6. QUORUM AND TRANSACTION OF BUSINESS

... For purposes of quorum and transaction of business in this section, "present" shall include all or any member of the Board which can hear and participate in a meeting through a telephone conference call or other technology which allows participation from a location distant from the board meeting, which telephonic connection must be for the length of the entire meeting and must allow all persons present in the meeting room to hear any comments made by members participating by telephone...



CAPITAL PLAN
ALLENTOWN DIVISION
2013 – 2016

**AUGUST 2013** 

## LEHIGH COUNTY AUTHORITY ALLENTOWN DIVISION CAPITAL PLAN 2013 – 2016

The Allentown Division Capital Plan (Plan) covers the period August 8, 2013 through December 31, 2016. In addition to typical annual Lehigh County Authority (LCA) capital expenditures the Plan includes both water and wastewater projects identified in the City of Allentown's (City) Capital Improvement Program, projects developed with the input of key City Bureau of Water Resources personnel and other projects deemed necessary by LCA. During the Plan period additional projects may be identified as the result of studies and/or a more in-depth investigation of the system needs and when applicable will be added to the current Plan or the 5-year Plan based upon priority.

The projects identified in the Plan fall into two primary categories, those funded by LCA and those funded by the City; with the latter further categorized as Administrative Order (AO) projects and Uncompleted Work (UW).

<u>AO Projects:</u> The AO project is necessary to bring the City's wastewater system into compliance with the US Environmental Protection Agency (USEPA) Administrative Order to eliminate Sanitary Sewer Overflows / By-passes at Outfall 003 of the wastewater treatment plant. Pursuant to the Concession Lease Agreement (Lease) the City is responsible for making all decisions related to this work and for funding said work. LCA is responsible for the execution of the work.

<u>UW Projects</u>: UW projects are the City's responsibility to fund and complete prior to closing the Concession Lease, however at this juncture the majority of the projects were not started and none have been completed. The City has requested that LCA execute these projects. Funding will be provided by the City.

Funding by system and category is as follows:

System	Capital Funding 2013-2016							
	LCA		City		Totals			
		UW	AO	Sub-Total	iotais			
Water	\$12,837,500	\$ 3,806,000	N/A	\$3,806,000	\$ 16,643,500			
Wastewater	\$ 8,172,000	\$ 1,075,000	\$ 2,231,000	\$3,306,000	\$ 11,478,000			
Totals	\$21,009,500	\$ 4,881,000	\$2,231,000	\$7,112,000	\$ 28,121,500			

Water projects focus on regulatory compliance, future needs and addressing the Lease operating standards. Projects include the rehabilitation of the 28<sup>th</sup> Street elevated tank, placing the City's three steel reservoir tanks in an on-going maintenance and rehabilitation program with a national company that specializes in these services, permitting un-permitted equipment in a water booster station, construction of a chlorine booster station on the Schantz Spring main, and replacing a leaking segment of the Schantz Spring main. Funding is also provided for both spun cast and pit cast water main replacements including coordination of main replacements with the annual City Streets Program. To assist in future planning needs, an "all pipe" City

water system model is included in the Plan. Finally, studies will be conducted to pilot test the change in coagulants at the Water Filtration Plant (WFP) to identify any issues prior to the changeover; evaluate the impact and options when PaDEP declares the Schantz Spring water supply under the influence of surface water; and to evaluate both operational and capital improvements options to minimize water age in the reservoirs.

Wastewater projects focus on regulatory compliance, critical needs at the Wastewater Treatment Plant (WWTP), and addressing the Lease operating standards. Projects include a new bar rack at the WWTP Head-works, Sanitary Sewer Evaluation Study (SSES), additional flow metering, and a wastewater hydraulic model upgrade. Funding is also provided for the replacement of five motor control centers, replacement and/or rehabilitation of the three belt filter presses and the replacement of two digester covers all at the WWTP; and for the replacement and/or rehabilitation of defective sewer mains that are located within streets that are included in the annual City Streets Program.

Additional information regarding these projects can be found in the Plan's individual detail sheets.



# August 8, 2013 - 2016 CAPITAL PROGRAM **LEHIGH COUNTY AUTHORITY ALLENTOWN DIVISION**

WATER

					WAIER							
			Approvals	Project Cost	Cost		Th	This Capital Program	n			
		) T		Total	(3) By City							
Project			Stage (2)	Cost	Prior to	2013	2014	2015	2016		Dept.	Funding
#	Name or Title of Proposal				August 8, 2013	(From August 8,2013)		(For named projects)	(For named projects)	Total	Priority	
	LCA FUNDED PROJECTS											
CA-W-1	New & Replacement Meter Installations (non AMR project)		۷	140,000 \$	-	\$ 20,000	\$ 40,000	\$ 40,000	\$ 40,000	140,000	Mandated	LCA
CA-W-2	Distribution Mains - Development and Service Connections		⋖	210,000	1	\$ 30,000	\$ 60,000	\$ 60,000	\$ 60,000	210,000	High	LCA
CA-W-3	Distribution Mains - Upsizing		A	70,000	1	10,000	20,000	20,000	20,000	70,000	High	LCA
CA-W-4	Other Equipment		٨	200,000	1	20,000	50,000	20,000	20,000	200,000	High	LCA
CA-W-5	WFP General Improvements		٨	525,000	1	75,000	150,000	150,000	150,000	525,000	High	LCA
CA-W-6	Steel Tank Reservoir Rehabilitation / Maintenance Contract		Ь	455,000	1	-	150,000	150,000	155,000	455,000	High	LCA
CA-W-7	Water Main Replacements		Ь	9,115,000	1	145,000	1,900,000	3,535,000	3,535,000	9,115,000	High	LCA
CA-W-8	Misc Minor Water Facility Permitting Amendments		Ь	27,500	1	2,500	20,000	1		27,500	Mandated	LCA
CA-W-9	Various Water System Related Studies		Ь	300,000	-	30,000	200,000	70,000		300,000	High	LCA
CA-W-10	Water System Hydraulic Model		Ь	340,000	-	-	40,000	300,000		340,000	Medium	LCA
CA-W-11	Schantz Spring Main Replacement		Ь	1,455,000	-	-	20,000	1,405,000		1,455,000	Medium	LCA
	Sub-Total LCA Funded Projects			12,837,500		367,500	2,680,000	5,780,000	4,010,000	12,837,500		
	CITY FUNDED PROJECTS											
CA-W-12	28th Street Elevated Steel Tank Rehabilitation	MΩ		430,000	-	-	430,000	-	-	430,000	High	City
CA-W-13	Schantz Spring Chlorine Booster Station	ΛN		250,000	17,000	18,000	215,000	1	-	233,000	High	City
CA-W-14	WFP- Chemical Building Roof Replacement	MΩ		805,000	17,000	53,000	735,000	-	-	788,000	High	City
CA-W-15	AMR Meter Project	MΩ		8,845,000	6,490,000	200,000	1,855,000		1	2,355,000	High	City
	Sub-Total City Funded Projects			10,330,000	6,524,000	571,000	3,235,000	1	1	3,806,000		
	Grand Total			\$ 23,167,500 \$	\$ 6,524,000	\$ 938,500	\$ 5,915,000	\$ 5,780,000	\$ 4,010,000	\$ 16,643,500		

<sup>(1)</sup> **UW=** "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.

AO= "Administrative Order" Projects as per the Agreement are to be Funded by the City and executed by LCA.

<sup>(2)</sup> **A**= Annual Item, **S**= Study/Planning, **D**= Design, **C**= Construction / Implementation, **P** = Pending Approval, **E** = Entire Project Approved (3) Estimated City expenditures (consultant, contract and equipment) for City Funded Projects prior to settlement.

Project:	CA-W-1
Preparer:	FJL

DEPARTMENT: CAPITAL WORKS
Sub-Organizational Unit: Water Capital Date: 7/27/13

1. Proposal Title: New & Replacement Meter Installations (non AMR project) 2. Location: Allentown

#### 3. Description:

Covers meters for new water customers and also includes funds annually to cover routine meter and radio reading equipment replacement

**4. Justification (need, function, selection of time, specific relationship to any long-term work program):** Regulatory agencies require metering of all properties connected to the water system. The costs associated with meters for new customers are recovered through customer paid meter fees.

5.	Status of Proposal:  X Preliminary Estimate Plans and Specs Com Other (Specify)	pleted				6.	Cost of Land F	c. @		cre n ft.		
7.	Status of Land Rights: Not Yet AcquiredPartly AcquiredLCA OwnedX_No Land Involved	_				9.	Annual Oper. ( Add. Personnel Personnel Serv Supplies & Equ Maintenance St Other	Cost Imp Man-Hrs ices ipment	act: Incr./(Decr.	,	\$ \$ \$ \$ \$	-
8.	Estimated Costs: Capital Works (Staff) Land Acquisition	\$	95,000				Indirect Operati Overhead Cos Debt Service ( Su	sts			\$ \$_	2,730 2,730
	Construction/Equip. Professional Services Other (Labor)	\$ \$ \$	45,000 45,000		\$ 45,000	40		·	ating Costs		\$ _	2,730
	Contingencies Total Project Cost	\$ \$	140,000			10.	Gain/Loss in Ar Assessment, Co	nual Rev			\$	
	Requested in this Capital Program	\$	140,000				in-Aid-of-Cons Grants & Other				\$ \$	98,000
11.	Source of Funds:						So	ource				
		.—	Need		Oper. Revenues		Borrowing		Assess., ontrin-Aid			Reserves
	Prior Years 1st Year 2nd Year 3rd Year 4th Year 5th Year	\$ \$ \$ \$ \$ \$ \$ \$ \$	20,000 40,000 40,000 40,000	\$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$	6,000 12,000 12,000 12,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	14,000 28,000 28,000 28,000		\$ \$ \$ \$ \$ \$	
12.	6th thru 10th Years  Departmental Priority Ra	\$ ating:		\$		\$		\$			\$	
	High		Medium		Low		Le	egally Ma	ndated	X		

Project: CA-W-2
Preparer: FJL

**Date:** 7/27/13

DEPARTMENT: CAPITAL WORKS
Sub-Organizational Unit: Water Capital

Proposal Title: Distribution Mains & Service Connections
 Location:

3.	Descri	ption:

Plan review and construction inspection of extensions and connections to the water system. Also included are general planning expenses.

#### 4. Justification (need, function, selection of time, specific relationship to any long-term work program):

To assure that development water lines and service connections to the City water system are designed and constructed according to the applicable specifications. Also allows for planning expenses.

5. 3	Status of Proposal:  X Preliminary Estimate Plans and Specs Comp Other (Specify)	oleted				6. -	Cost of Land R ac l.f. Total:	∴ @	/acre /lin ft.		
7. :	Status of Land Rights:  Not Yet Acquired Partly Acquired LCA Owned X No Land Involved	_					Add. Personnel Personnel Servi Supplies & Equi Maintenance Sv Other	Man-Hices ipment		\$ \$ \$ \$ \$ \$	-
8.	Estimated Costs: Capital Works (Staff) Land Acquisition Construction/Equip.	\$ \$ \$	210,000				Indirect Operation Overhead Cost Debt Service ( Su	ts	yr.)	\$ \$	8,200 8,200
	Professional Services Other (Labor) Contingencies Total Project Cost	\$ \$ \$	210,000				<b>Revenue Impa</b> Gain/Loss in An Assessment, Co	act: inual R ontribu	tion-	\$ \$	8,200
	Requested in this Capital Program	\$	210,000				in-Aid-of-Cons Grants & Other		1	\$ \$	84,000
11.	Source of Funds: Prior Years	\$	Need	\$	Oper. Revenues	\$	Borrowing	s s	Assess., Contrin-Aid	\$	Reserves
	1st Year 2nd Year 3rd Year 4th Year 5th Year 6th thru 10th Years	\$ \$ \$ \$ \$	30,000 60,000 60,000 60,000	\$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$	18,000 36,000 36,000 36,000	\$ \$ \$ \$ \$ \$	12,000 24,000 24,000 24,000	\$ \$ \$ \$ \$ \$ \$ \$	
12.	Departmental Priority Ra	ting:	Medium _		Low_		Le	gally N	landated		

**Lehigh County Authority** Project: CA-W-3 **CAPITAL PROGRAMMING PROJECT DETAIL** Preparer: FJL **CAPITAL WORKS DEPARTMENT: Sub-Organizational Unit:** Water Capital **Date:** 7/27/13 1. Proposal Title: Distribution Mains Upsizing 2. Location: Allentown 3. Description: Contribute to developer-installed systems to increases pipe diameters to provide additional flow capabilities; or the extension of water mains to serve a development all pursuant to the LCA Main Extension Policy. 4. Justification (need, function, selection of time, specific relationship to any long-term work program): To economically provide proper pipe capacities and extensions to meet future service needs. 5. Status of Proposal: 6. Cost of Land Rights: X Preliminary Estimate /acre Plans and Specs Completed Other (Specify) 9. Annual Oper. Cost Impact: Incr./(Decr.) Add. Personnel Man-Hrs. 7. Status of Land Rights: Personnel Services Not Yet Acquired Supplies & Equipment Partly Acquired Maintenance Svcs LCA Owned Other O... T-4-1

X No Land Involved					Su	ub-Tota	ıl	\$	-
				Ir	ndirect Operatir	na Cos	ts:		
8. Estimated Costs:					Overhead Cos	_		\$	_
Capital Works (Staff)	\$	4,000			Debt Service (	5%-30°	vr.)	\$	4,550
Land Acquisition	\$	,			•	ub-Tota		•	4,550
Construction/Equip.	\$	66,000							,
Professional Services	\$	,			To	otal Op	erating Costs	\$	4,550
Other (Labor)	\$					•	Ŭ	• :	<del></del>
Contingencies	\$								
Total Project Cost	\$	70,000		\$					
. otal i rojost osst	*	. 0,000			Bain/Loss in An Issessment, Co			•	
Requested in this				\$	_				
Capital Program	\$	70,000			in-Aid-of-Const Frants & Other			\$	
11. Source of Funds:					So	ource			
			Oper.				Assess.,		
		Need	Revenues		Borrowing		Contrin-Aid		Reserves
Prior Years	\$		\$ 	\$		\$		\$	
1st Year	\$	10,000	\$	\$	10,000	\$		\$	
2nd Year	\$	20,000	\$	\$	20,000	\$		\$	
3rd Year	\$	20,000	\$	\$	20,000	\$		\$	
4th Year	\$	20,000	\$	\$	20,000	\$		\$	
5th Year	\$		\$	\$		\$		\$	
6th thru 10th Years	\$		\$	\$		\$		\$	
12. Departmental Priority I									

Low \_\_\_\_

Legally Mandated

High \_\_\_\_

Medium X

	PARTMENT: b-Organizational Unit:		PITAL WORK ter Capital	S					Date: 8/2/13		
1.	Proposal Title: Other E	Equipme	ent					2. Location	: Allentown		
3.	<b>Description:</b> Generally utilized for indivi	vidual e	quipment grea	ater tha	n \$5000						
4.	Justification (need, func Replacement and new ed 'Items include electric and needed.	quipmer	nt is required f	rom tim	ne to time to m	naint	ain and improve s	ervice integrity	and reliability.		
5.	Status of Proposal:  X Preliminary Estimate Plans and Specs Con Other (Specify)	npleted				6.	Cost of Land Rig ac. I.f. Total:	hts: @ @ \$	/acre /lin ft.		
7.	Status of Land Rights:  Not Yet Acquired Partly Acquired LCA Owned X No Land Involved	_					Annual Oper. Co Add. Personnel M Personnel Service Supplies & Equipr Maintenance Svos Other	an-Hrs. es nent	er./(Decr.)	\$ \$ \$ \$	-
8.	Estimated Costs: Capital Works (Staff) Land Acquisition Construction/Equip. Professional Services	\$ \$ \$	200,000						nete	\$ \$_	11,380 11,380 11,380
	Other (Labor) Contingencies Total Project Cost	\$ \$\$	200,000				Revenue Impac Gain/Loss in Annu Assessment. Con	t: lal Revenue		\$	,,000
	Requested in this Capital Program	\$	200,000				in-Aid-of-Constru Grants & Other			\$ \$	-
11.	Source of Funds:			_	Oper.		Sou	rce Asses	9		
	Prior Years 1st Year 2nd Year 3rd Year 4th Year 5th Year 6th thru 10th Years	\$ \$ \$ \$ \$ \$	50,000 50,000 50,000 50,000 50,000	<u> </u>	Oper. Revenues	\$ \$ \$ \$ \$ \$ \$ \$ \$	25,000 50,000 50,000 50,000	Contrin-	•	**********	Reserves
12.	Departmental Priority R	ating:									
	High X		Medium		Low		Lega	ally Mandated			

Project:

Preparer:

CA-W-4

FJL

C	APIT	AL PROGR <i>A</i>	MMING PR	OJE	CT DETAIL		Preparer:	-	JP/BK
DEPARTMENT:		CAPITAL WORK	S			Det	- 7/27/42		
Sub-Organizational Unit	•	Water Capital				Date	e: <u>7/27/13</u>		
1. Proposal Title: Wa	ter Filtr	ation Plant (WFP)	General Improve	ements		2. Location:	Allentown		
3. Description: Funding to cover the unforeseen equipmer							ess		
4. Justification (need, fu The Water Filtration F aged . The WFP and central Lehigh Divisio reduction the water su	Plant w d assoc n. A bi	as constructed in clated pumping fac	the 1920's with a dilities provides the	large re e water	etro-fit in mid 199 for City of Allente	0, still some of the own and a large po	rtion for LCA		
5. Status of Proposal:  — Preliminary Estima — Plans and Specs ( — Other (Specific)		ited		6.	Cost of Land Ri ac. I.f.	~ _	/acre /lin ft.		
Other (Specify)  7. Status of Land Rights				9.		ost Impact: Incr./(I Man-Hrs.	Decr.)	\$	_
Not Yet Acquired Partly Acquired LCA Owned No Land Involved	<b>.</b> .				Supplies & Equip Maintenance Svo Other	oment		\$ \$ \$ \$	
INO Land involved					Sui	o-Total		φ	-
					Indirect Operatin				
8. Estimated Costs:					Overhead Cost			\$	-
LCA Staff	\$				Debt Service (5	• ,		\$	34,150
Land Acquisition Construction/Equip.	\$	520,000				o-Total		_	34,150
Professional Services Other (Labor)	\$	;				al Operating Costs		\$ <u>-</u>	34,150
Contingencies	\$			10	. Revenue Impa			•	
Total Project Cost	\$	525,000			Gain/Loss in Ann Assessment, Con			\$	
Requested in this					in-Aid-of-Consti			\$	_
Capital Program	\$	525,000			Grants & Other			\$	
11. Source of Funds:					So	urce			
			Oper.			Assess.,			
Drier Veere	•	Need	Revenues		Borrowing	Contrin-Aid	_	φ-	Reserves
Prior Years 1st Year	\$ \$		\$ \$	\$ \$	75,000	\$ \$		\$ \$	
2nd Year	φ \$		\$ \$	э \$	150,000	Φ \$		\$	
3rd Year	\$		\$	\$	150,000	\$		\$	
4th Year	\$		\$	\$	150,000	\$		\$	
5th Year	\$	i	\$	\$	•	\$		\$	
6th thru 10th Years	\$		\$	\$		\$		\$	

Project:

CA-W-5

Medium \_\_\_\_ Low \_\_\_ Legally Mandated

12. Departmental Priority Rating: High X

Project:	CA-W-6
Preparer:	FJL

**Date:** 8/1/13

DEPARTMENT:CAPITAL WORKSSub-Organizational Unit:Water Capital

1. Proposal Title: Steel Tank Reservoir Rehabilitation / Maintenance Contract 2. Location: Allentown

#### 3. Description:

To contract with a national tank maintenance firm for inspection, maintenance and rehabilitation services for the City three above ground steel water tanks. *Note: The remaining City reservoirs tanks are concrete and are not included in the program* 

#### 4. Justification (need, function, selection of time, specific relationship to any long-term work program):

The reservoirs are in need of regular inspection, maintenance and rehabilitation as they age. The contracted firm will be responsible for these continuous on going services for as long a LCA deems the costs to be justifiable. This arrangement takes the work load off of existing staff, both Operational and Capital Works, in planning and implementing these critical programs. Note: The Operating Standards of the Concession Agreement require this work.

5. 3	Status of Proposal:  X Preliminary Estimate Plans and Specs Complete Other (Specify)	d		6.	Cost of Land Ri	. @/acre		
7. :	Status of Land Rights:  Not Yet Acquired Partly Acquired LCA Owned X No Land Involved			9.	Add. Personnel Personnel Servic Supplies & Equip Maintenance Sv Other	ces pment	\$ \$ \$ \$	-
8.	Estimated Costs:  LCA Staff \$ Land Acquisition \$				Indirect Operatin Overhead Cost Debt Service (5 Su	ts	\$ \$_	29,600 29,600
	Construction/Equip. SProfessional Services Misc SPROFESSIONAL SERVICES SPROFESSIONAL S	355,000 10,000				tal Operating Costs	\$ =	29,600
	Contingencies \$ Total Project Cost \$			10	D. Revenue Impa Gain/Loss in Ani Assessment, Co	nual Revenue ontribution-	\$	
	Requested in this Capital Program	455,000			in-Aid-of-Const Grants & Other	ruction	\$ \$	-
11.	Source of Funds:		1		So	urce		
	Prior Years \$ 1st Year \$ 2nd Year \$ 3rd Year \$ 4th Year \$ 5th Year \$ 6th thru 10th Years \$	150,000 150,000 155,000	\$ \$ \$ \$ \$ \$ \$	Oper. Revenues \$ \$ \$ \$ \$ \$ \$ \$ \$	150,000 150,000 155,000	Assess., Contrin-Aid (1)  \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	* * * * * * * * * * * * * * * * * * *	Reserves
12.	Departmental Priority Rating	: Modium		Low	La	gally Mandatod		

Project: CA-W-7
Preparer: FJL

DEPARTMENT:CAPITAL WORKSSub-Organizational Unit:Water Capital

**Date:** 7/29/13

Allentown

2. Location:

1. Proposal Title: Water Main Replacements

(Spun Cast, Pit Cast & City Streets Program Areas)

#### 3. Description:

A good part of the City's water distribution system is pit cast iron or spun cast iron mains. Some of the pit cast mains date back to the turn of the century, however the spun cast mains have a higher failure. Although the entire system will be evaluated, LCA will work closely with the City Streets department to coordinate main replacements in advance of the annual City Street paving schedule.

#### 4. Justification (need, function, selection of time, specific relationship to any long-term work program):

The Operating Standards of the Concession Agreement require replacement of 2-miles of pipe per year (1-mile in the first year). Until such time as the City deems it not necessary.

5.	Status of Proposal:					6. (	Cost of Land Rig	hts:					
	X Preliminary Estimate						ac.	@	/acre				
	Plans and Specs Compl	eted					I.f.	@	/lin ft.				
	Other (Specify)					_	Total:	\$	-				
	-				9	9. /	Annual Oper. Co	st In	npact: Incr./(Decr.)				
						1	Add. Personnel M	an-⊦	lrs.				
7.	Status of Land Rights:					I	Personnel Service	es		\$	-		
	Not Yet Acquired					;	Supplies & Equipr	nent		\$			
	Partly Acquired					-	Maintenance Svcs	3		\$			
	LCA Owned					(	Other			\$			
	X No Land Involved	X No Land Involved					Sub-Total						
						ı	Indirect Operating	Cos	ets:				
8.	Estimated Costs:						Overhead Costs			\$	-		
	Capital Works (Staff)	\$	795,000				Debt Service (5%	6-30	yr.)	\$	592,940		
	Land Acquisition	\$					Sub-	-Tota	al	-	592,940		
		\$	6,360,000										
	Professional Services	\$	735,000				Tota	ΙОр	erating Costs	\$	592,940		
	Other	\$	225,000							-			
	Contingencies	\$	1,000,000		•	10.	Revenue Impac	t:					
	Total Project Cost	\$	9,115,000			(	Gain/Loss in Annu	ıal R	evenue	\$			
	•					,	Assessment, Con	tribu	tion-				
	Requested in this						in-Aid-of-Constru	iction	า	\$	-		
	Capital Program	\$	9,115,000			(	Grants & Other			\$			
11	. Source of Funds:			-			Sou	rce					
					Oper.				Assess.,				
			Need	_	Revenues		Borrowing	_	Contrin-Aid		Reserves		
	Prior Years	\$		\$		\$		\$		\$			
	1st Year	\$	145,000	\$		\$	145,000	\$		\$			
		\$	1,900,000	\$		\$	1,900,000	\$		\$			
		\$	3,535,000	\$		\$	3,535,000	\$		\$			
	4th Year	\$	3,535,000	\$		\$	3,535,000	\$		\$			
	5th Year	\$		\$		\$		\$		\$			
	6th thru 10th Years	\$		\$		\$		\$		\$			
12	. Departmental Priority Rat	ing:											
	High X		Medium _		Low		Lega	ally N	landated				

### CA

Miscellaneous Minor Water Facility Permitting Amendments

CAPIT	Lehigh County Authority AL PROGRAMMING PROJECT DETAIL	Project: Preparer:	CA-W-8
DEPARTMENT: Sub-Organizational Unit:	CAPITAL WORKS Water Capital	<b>Date:</b> 7/18/13	_

2. Location:

Allentown

#### 3. Description:

1. Proposal Title:

In accordance with PADEP requirements, apply for permit amendments where equipment has been added and/or other changes made in a facility without obtaining the required permit amendment.

4. Justification (need, function, selection of time, specific relationship to any long-term work program): Regulatory requirement, failure to obtain the required amendment(s) may result in DEP enforcement action.

5.	Status of Proposal:  X Preliminary Estimate Plans and Specs Comp Other (Specify)	leted			6.	Cost of Land R ac I.f. Total:	. @	/acre		
7.	Status of Land Rights: Not Yet AcquiredPartly AcquiredLCA OwnedX No Land Involved	-			9.	Add. Personnel Personnel Servi Supplies & Equi Maintenance Sv Other	Man-lices pment	t	\$ \$ \$ \$ \$ \$ \$	-
8.	Estimated Costs: Capital Works (Staff) Land Acquisition Construction/Equip.	\$ \$	5,000 5,000			Indirect Operatir Overhead Cos Debt Service (\$ Su	ts	lyr.)	\$ \$ _	1,790 1,790
	Professional Services Other (Labor) Contingencies	\$ \$ \$	10,000 5,000 2,500		10.	To . <b>Revenue Imp</b> a	·	perating Costs	\$ =	1,790
	Total Project Cost  Requested in this  Capital Program	\$	27,500			Gain/Loss in An Assessment, Co in-Aid-of-Const Grants & Other	ontribu	ition-	\$ \$ \$	-
11.	Source of Funds:					So	ource			
	Prior Years 1st Year 2nd Year 3rd Year 4th Year 5th Year 6th thru 10th Years	\$ \$ \$ \$ \$ \$ \$ \$ \$	7,500 20,000	\$ \$ \$ \$ \$ \$ \$ \$	Oper. Revenues \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,500 20,000	* * * * * * * *	Assess., Contrin-Aid	****	Reserves
12.	Departmental Priority Rat	ting:	Medium		Low	Le	gally N	Mandated X		

## **Lehigh County Authority**

Project: CA-W-9 CAPITAL PROGRAMMING PROJECT DETAIL Preparer: FJL **DEPARTMENT: CAPITAL WORKS Sub-Organizational Unit:** Water Capital **Date:** 7/19/13 1. Proposal Title: Various Water System Related Studies 2. Location: Allentown 3. Description: The following studies are included in this Project (1) Water Filtration Plant (WFP) -Conduct a study to assure that the change in the type of coagulants will not impact the quality of the finished water; (2) Schantz Spring-Identify the impact of and improvements necessary at the WFP when DEP designates Schantz Spring "as under the influence of ground water"; (3) Reservoirs- Identify physical improvements and/or operating changes to minimize water age in the reservoirs 4. Justification (need, function, selection of time, specific relationship to any long-term work program): To assure the highest quality water and to plan for future upgrades to the WFP to assure the continued use of the Schantz Spring water supply source. 5. Status of Proposal: 6. Cost of Land Rights: X Preliminary Estimate Plans and Specs Completed Other (Specify) 9. Annual Oper. Cost Impact: Incr./(Decr.) Add. Personnel Man-Hrs. 7. Status of Land Rights: Personnel Services Not Yet Acquired Supplies & Equipment \$ \$ Partly Acquired Maintenance Svcs LCA Owned Other \$ X No Land Involved Sub-Total **Indirect Operating Costs:** 8. Estimated Costs: Overhead Costs LCA Staff \$ 60,000 Debt Service (5%-30yr.) Land Acquisition \$ Sub-Total 19 520 Construction/Equip. \$ Professional Services 200,000 **Total Operating Costs** 19,520 Other \$ 25,000 Contingencies 10. Revenue Impact: 15,000 Total Project Cost Gain/Loss in Annual Revenue 300,000 \$ Assessment. Contribution-Requested in this in-Aid-of-Construction 300,000 Grants & Other Capital Program 11. Source of Funds: Source Oper. Assess.. Need Revenues Borrowing Contr.-in-Aid Reserves Prior Years \$ \$ \$ 1st Year \$ \$ \$ 30,000 \$ 30,000 \$ 2nd Year \$ 200,000 \$ \$ 200,000 \$ \$ 3rd Year \$ \$ 70,000 \$ \$ 70,000 \$

4	•
- 1	_
-	

\$

\$

Low

\$

\$

\$

Legally Mandated

\$

\$

4th Year

5th Year

6th thru 10th Years

12. Departmental Priority Rating: High X

\$

\$

\$

\$

Medium

Project:	CA-W-10
Preparer	FJL

Allentown

2. Location:

DEPARTMENT: CAPITAL WORKS
Sub-Organizational Unit: Water Capital Date: 7/18/13

#### 3. Description:

1. Proposal Title: City Water System Hydraulic Model

Develop a calibrated all-pipe, hydraulic model of the City water system. It is envisioned that the model will utilize, when applicable the semi-automated data update programming that was developed for the LCA Central Lehigh Division model.

#### 4. Justification (need, function, selection of time, specific relationship to any long-term work program):

There is no model of the City water system, as such there is no dynamic way to evaluate the capabilities of the water system, identify areas where pipe sizes or network configuration impacts fire flow ability. A model would be a useful tool in evaluating sections of aged mains that have not structurally failed to determine if replacement is warranted.

5.	Status of Proposal: Preliminary Estimate Plans and Specs Comple Other (Specify)	ted		6.	. C	ost of Land Rig ac. I.f. Total:	ghts: @_ @_ \$	/acre /lin ft. -		
7.	Status of Land Rights:  Not Yet Acquired  Partly Acquired  LCA Owned  No Land Involved			9.	Ad Pe Su M	dd. Personnel Mersonnel Service upplies & Equipn laintenance Svcs ther	lan-H es ment		\$ \$ \$ \$	-
8.	Estimated Costs: Capital Works (Staff) \$ Land Acquisition \$ Construction/Equip. \$	75,000			(	direct Operating Overhead Costs Debt Service (5% Sub-		rr.)	\$ \$	22,120 22,120
	Professional Services \$ Other \$ Contingencies \$ Total Project Cost \$	200,000 35,000 30,000 340,000		10	G	Revenue Impac ain/Loss in Annu	: <b>t:</b> ual Re		\$ \$	22,120
	Requested in this Capital Program \$	340,000			i	ssessment, Cont n-Aid-of-Constru rants & Other	uction		\$ \$	-
11.	. Source of Funds:			Onor		Sou	rce	A		
	Prior Years \$ 1st Year \$ 2nd Year \$ 3rd Year \$ 4th Year \$ 5th Year \$ 6th thru 10th Years \$	- 40,000 300,000	\$ \$ \$ \$ \$ \$ \$ \$	Oper. Revenues  \$ \$ \$ \$ \$ \$ \$ \$ \$		40,000 300,000	\$ \$ \$ \$ \$ \$ \$ \$	Assess., Contrin-Aid	\$ \$ \$ \$ \$ \$ \$	Reserves
12.	. Departmental Priority Ratir High	•	X	Low	_	Lega	ally M	andated	<b>-</b> .	

CA	PITA	_	h County Authorit	-	CT DETAIL		Project: Preparer:	=	CA-W-11 FJL
DEPARTMENT: Sub-Organizational Unit:		APITAL WORK Vater Capital	(S			ſ	Date: 7/29/13		
1. Proposal Title: Schai	ntz Spr	ing Main Replac	cement			2. Location:	: Allentown		
3. Description:  Replacement of approx from Schribers Bridge to			•	h diam	neter main in Mart	in Luther King, 、	Jr. Boulevard		
Justification (need, fun     To maintain the integrity     conducted by the City in	of the	Schantz Spring	g water supply tran	smissi	ion main. A prev				
5. Status of Proposal:  X Preliminary Estimate Plans and Specs Co Other (Specify)		d		6.	Cost of Land Ri ac. l.f. Total:	•	/acre /lin ft.		
7. Status of Land Rights:  Not Yet Acquired Partly Acquired LCA Owned X No Land Involved				9.	Annual Oper. Co Add. Personnel M Personnel Servic Supplies & Equip Maintenance Svo Other	Man-Hrs. ces oment	r./(Decr.)	\$ \$ \$ \$ <u>-</u>	-
8. Estimated Costs: LCA Staff Land Acquisition	\$ \$	60,000			Indirect Operatin Overhead Costs Debt Service (5	g Costs:		\$ \$_	94,650 94,650
Construction/Equip. Professional Services Other Contingencies Total Project Cost	\$ \$ \$ \$ <b>5</b>	1,200,000 60,000 15,000 120,000 1,455,000		10	Tot  D. Revenue Impa  Gain/Loss in Anr		sts	\$ <u>-</u>	94,650
Requested in this Capital Program	\$ <u></u>	1,455,000			Assessment, Con in-Aid-of-Constr Grants & Other	ntribution-		\$ \$	-
11. Source of Funds:			Oper.		So	urce Assess	3		
Prior Years	\$	Need	Revenues \$	- \$	Borrowing	Contrin-A	'	\$	Reserves

ii. Oodice oi i diids.				uice	
		Oper.		Assess.,	
	Need	Revenues	Borrowing	Contrin-Aid	Reserves
Prior Years	\$ 	\$	\$ 	\$	\$
1st Year	\$	\$	\$	\$	\$
2nd Year	\$ 50,000	\$	\$ 50,000	\$	\$
3rd Year	\$ 1,405,000	\$	\$ 1,405,000	\$	\$
4th Year	\$	\$	\$	\$	\$
5th Year	\$	\$	\$	\$	\$
6th thru 10th Years	\$	\$	\$	\$	\$

	1st Year	\$		\$	\$		\$	\$
	2nd Year	\$	50,000	\$	\$	50,000	\$	\$
	3rd Year	\$	1,405,000	\$	\$	1,405,000	\$	\$
	4th Year	\$		\$	\$		\$	\$
	5th Year	\$		\$	\$		\$	\$
	6th thru 10th Years	\$		\$	\$		\$	\$
12.	Departmental Priority R	ating:						
	High	_	Medium _	X	Low	I	_egally Mandated	

## CAPITAL

CAPITAL WORKS

DEPARTMENT:

Lehigh County Authority	Project:	CA-W-12
PROGRAMMING PROJECT DETAIL	Preparer:	FJL

Sub-Organizational Unit:	Water Capital		Da	ate: 8/1/13	
1. Proposal Title: 28th Stre	eet Elevated Steel Tank Reserv	voir Rehabilitation	2. Location:	Allentown	
3. Description: The project will repair struc	ctural deficiencies, make impro	vements and will recoat (pain	t) both interior and exte	rior surfaces	
tank deficiencies were ide	on, selection of time, specific Bjorkman Associates to inspentified in the report. Secondly anducted by DEP. Reservoirs	ct concrete and steel reservo	oir tanks. The 28th streets tank were noted in the	2010 annual	
Status of Proposal:     X Preliminary Estimate     Plans and Specs Comp Other (Specify)	eleted	6. Cost of Lan	ac. @ l.f. @	/acre /lin ft.	
7. Status of Land Rights:  Not Yet Acquired Partly Acquired LCA Owned X No Land Involved	_	-	Equipment	Decr.)	\$ - \$ \$ \$ \$ -
8. Estimated Costs: LCA Staff Land Acquisition Construction/Equip. Professional Services Misc Contingencies Total Project Cost  Requested in this	\$ 30,000 \$ 310,000 \$ 40,000 \$ 5,000 \$ 45,000 \$ 430,000	Overhead of Debt Service  10. Revenue la Gain/Loss in Assessment in-Aid-of-Ca	ce (5%-30yr.) Sub-Total  Total Operating Costs  mpact: Annual Revenue Contribution- construction		\$ - \$ - \$ - \$ - \$ - \$ 430,000
Capital Program  11. Source of Funds:	\$430,000_	Grants & Otl Oper.	Source Assess.,		\$
Prior Years 1st Year 2nd Year 3rd Year 4th Year 5th Year 6th thru 10th Years	Need Room Room Room Room Room Room Room Roo	evenues Borrowing  \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Contrin-Aid ( \$ \$ \$ 430,0 \$ \$	<u>,                                     </u>	Reserves \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

Medium \_\_\_\_\_ Low \_\_\_\_

12. Departmental Priority Rating: High X

Legally Mandated

<sup>(1)</sup> This an Uncompleted Work (UW) Project that will be funded by the City of Allentown

Project:	CA-W-13
Preparer:	JP

DEPARTMENT: Sub-Organizational	CAPITAL WORKS  Unit: Water-Capital	Date: _	8/1/13	
1. Proposal Title:	Schantz Spring Chlorine Booster Station	2. Location:	Allentown	

#### 3. Description:

Construction of Chlorine Booster Station, located on City park property north of Honochick Drive, between Ott Street and the park pavilions along a section of the Schantz Spring water transmission main. The project will include a pre-cast building and applicable equipment and a chlorine injection structure over the top of the transmission main.

#### 4. Justification (need, function, selection of time, specific relationship to any long-term work program):

Schanz Spring is a inexpensive groundwater supply source for the City and as such is subject to the EPA Ground Water Rule, which requires that a specified minimum chlorine residual be maintained at all times. If the residual is not maintained the water in the 30-inch diameter 5-mile long Schantz Spring transmission main must be wasted otherwise a boil water notice might be required. Currently there is only one chlorination station located at the Spring site

5.	Status of Proposal:  X Preliminary Estimate Plans and Specs Comple Other (Specify)	eted				6.	Cost of Land Rig ac. l.f. Total:	hts: @ @ \$	/acre /lin ft. -		
7.	Status of Land Rights:  Not Yet Acquired  X Partly Acquired  LCA Owned  No Land Involved						Annual Oper. Co Add. Personnel M Personnel Service Supplies & Equipr Maintenance Svcs Other	an-Hrs. es nent	ct: Incr./(Decr.)	\$ \$ \$ \$	-
8.	Land Acquisition Construction/Equip.	\$ \$ 1	30,000 65,000 25,000					%-30yr.) ·Total	ting Costs	\$ \$_ \$_	-
	Contingencies		5,000 25,000 50,000				Revenue Impac Gain/Loss in Annu Assessment, Conin-Aid-of-Constru	ıal Reve tribution		\$ \$	250,000
	•	\$ 2	33,000				Grants & Other	iction		\$	230,000
11.	1st Year 2nd Year 3rd Year 4th Year 5th Year	\$ \$	eed 17,000 18,000 15,000	* * * * * * * * * * * * * * * * * * *	Oper. Revenues	\$ \$ \$ \$ \$ \$	Borrowing		Assess., htrin-Aid (1) 17,000 18,000 215,000	\$ \$ \$ \$ \$ \$ \$ \$	Reserves
12.	Departmental Priority Rati	_	Medium	Х	Low		Leaa	ally Man	dated		

<sup>(1)</sup> This an Uncompleted Work (UW) Project that will be funded by the City of Allentown

Project:	CA-W-14
Preparer:	FJL

	ARTMENT: -Organizational Unit:		CAPITAL WORK Water-Capital	S					Date:	8/1/13		
1. P	Proposal Title: WFP	- Cher	mical Building Ro	of Re	eplacement		2. Lo	cation:		Allentown		
	Description: Modifications to the rootanks, replacement of the					replacement of (2	8,000	gallon chem	ical sto	orage		
	ustification (need, fur The existing roof is app membrane roofing syst a hatchway to allow ac	oroxim tem is	ately <b>20 years</b> ol required to assur	d, ha	as been repaired ov integrity of the bui	er the years . Replication Replications and it's continuous contractions.	placeme	ent of the ag				
5. S	Status of Proposal:				6.	Cost of Land Ri	ghts:					
_	Preliminary Estimat					ac.	@			/acre		
-	X Plans and Specs Co Other (Specify)	omple	ted			l.f. Total:	@ \$		-	/lin ft.		
<del>-</del> -	Not Yet Acquired Partly Acquired LCA Owned X No Land Involved				9.	Annual Oper. Co Add. Personnel N Personnel Servic Supplies & Equip Maintenance Svo Other	Man-Hrs ces oment		ecr.)		\$ \$ \$ \$	-
	::					Indirect Operatin	•	:			Φ.	
	stimated Costs: LCA Staff	\$	50,000			Overhead Costs Debt Service (5		)			\$ \$	-
	Land Acquisition	\$	00,000			•	o-Total	,			Ψ_	_
	Construction/Equip.	\$	625,000			-						
	Professional Services	\$	30,000			Tot	al Opera	ating Costs			\$	-
	Other	\$	5,000								_	
	Contingencies	\$	95,000		10	. Revenue Impa						
	Total Project Cost	\$	805,000			Gain/Loss in Ann					\$	
	Degraphed in this					Assessment, Co		n-			•	005.000
	Requested in this Capital Program	\$_	788,000			in-Aid-of-Constr Grants & Other	ruction				\$ \$	805,000
11.	Source of Funds:					Soi	urce					
					Oper.			Assess.				
		_	Need		Revenues	Borrowing		ontrin-Aid (			_	Reserves
	Prior Years	\$	17,000	\$	\$		\$		7,000		\$	
	1st Year	\$	53,000	\$	\$	-	\$		3,000		\$ \$ \$	
	2nd Year	\$	735,000	\$	\$	-	\$	73	5,000		\$	
	3rd Year	\$		\$	\$		\$				\$	
	4th Year 5th Year	\$ \$		\$ \$	\$		\$ \$				\$ \$	

Medium \_\_\_\_

6th thru 10th Years

**12. Departmental Priority Rating:** High X

Low\_\_\_\_

Legally Mandated

<sup>(1)</sup> This an Uncompleted Work (UW) Project that will be funded by the City of Allentown

CAPITAL WORKS

Water-Capital

**DEPARTMENT:** 

**Sub-Organizational Unit:** 

12. Departmental Priority Rating:

High X

Project:	CA-W-15
Preparer:	FJL

Date: 8/2/13

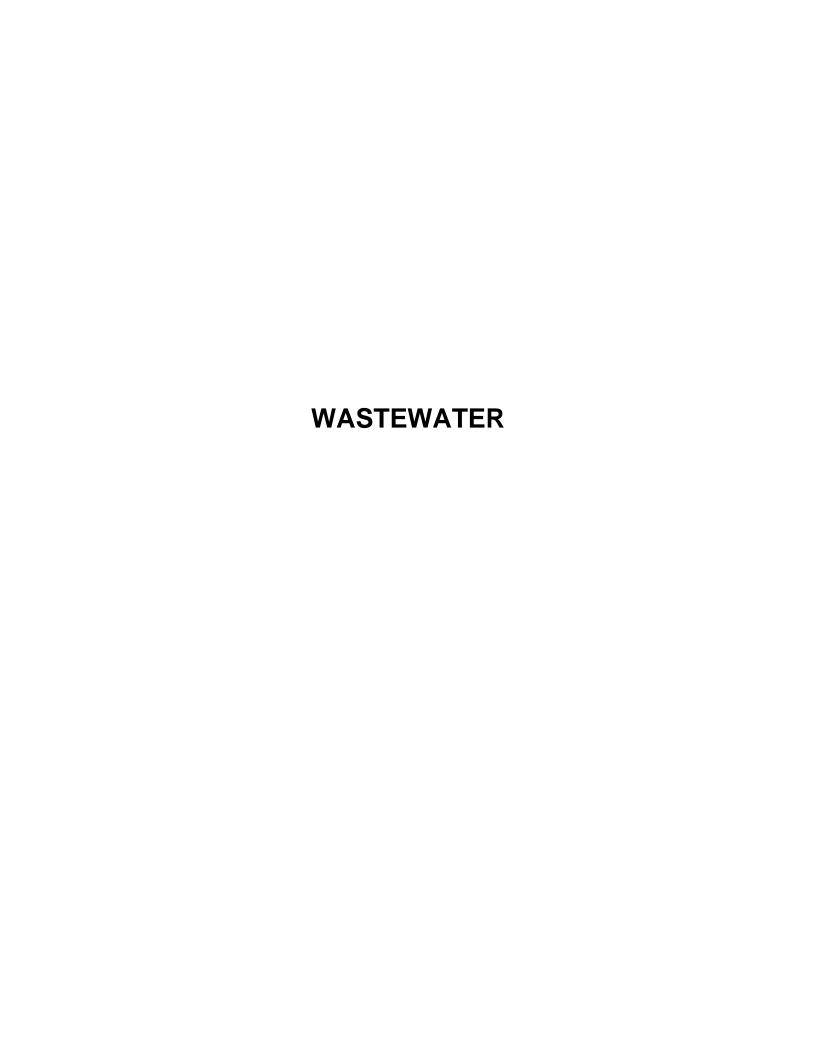
1.	Proposal Title: AMR N	∕leterin	g Project			:	2. Location:	Allentown		
3.	<b>Description:</b> The Project includes the greater in size and ~100									
4.	Justification (need, func Replacement of aged me revenue water. Secondle	eters th	nat may not be	registering all water	usa(	ge is expected to red	luce the amount o			
5.	Status of Proposal:  Preliminary Estimate Plans and Specs Cor X Other (Specify) City contract work under	mplete	d			l.f.	@	/acre /lin ft.		
7.	Status of Land Rights:  Not Yet Acquired Partly Acquired LCA Owned No Land Involved					Personnel Services Supplies & Equipmon Maintenance Svcs Other Sub-T	ent		\$ \$ \$ \$ -	-
8.	Estimated Costs: LCA Staff Land Acquisition Construction/Equip.	\$ \$ \$	290,000			Overhead Costs Debt Service (5%-Sub-T	30yr.)		\$ \$_	-
	Professional Services Other Contingencies	\$ \$ \$	415,000 10,000 130.000		10	Total (	Operating Costs		\$ _	-
	Total Project Cost  Requested in this	\$	8,845,000			Gain/Loss in Annua Assessment, Contri in-Aid-of-Construc	I Revenue bution-		\$ \$	8,845,000
	Capital Program	\$	2,355,000			Grants & Other			\$	
11	. Source of Funds:					Sourc				
	Prior Years 1st Year 2nd Year 3rd Year 4th Year 5th Year 6th thru 10th Years	- * * * * * * * *	Need 6,490,000 500,000 1,855,000	Oper. Revenues  \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$	Borrowing	Assess., <u>Contrin-Aid (</u> \$ 6,490,0 \$ 500,0 \$ 1,855,0 \$ \$ \$	000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Reserves

Medium \_\_\_\_\_

Low

Legally Mandated

<sup>(1)</sup> This an Uncompleted Work (UW) Project that will be funded by the City of Allentown



# August 8, 2013 - 2016 CAPITAL PROGRAM WASTEWATER **LEHIGH COUNTY AUTHORITY ALLENTOWN DIVISION**

					MASIEMAIEM							
		(1	Approvals	Project Cost	Cost		This	This Capital Program				
	Name or Title of Proposal	L) T		Total	(3) By City							
Project		yp	Stage (1)	Cost		2013	2014	2015	2016		Dept.	Funding
#		е			August 8, 2013	(From August 8, 2013)				Total	Priority	
	LCA FUNDED PROJECTS											
CA-S-1	Collection System - Development and Service Connections		4	115,000	1	\$ 10,000	\$ 35,000	\$ 35,000 8	\$ 35,000	\$ 115,000	0 High	LCA
CA-S-2	Other Equipment		Α	85,000		10,000	25,000	25,000	25,000	\$ 85,000	0 High	LCA
CA-S-3	WWTP General Improvements		Α	525,000	1	75,000	150,000	150,000	150,000	\$ 525,000	0 High	LCA
CA-S-4	Sanitary Sewer Main Replacements and/or Rehabilitation		Д	985,000		180,000	265,000	270,000	270,000	000'586 \$	0 High	LCA
CA-S-5	WWTP- Replacement of Motor Control Centers		Ъ	2,482,000	-	76,000	1,664,000	742,000	-	\$ 2,482,000	0 High	LCA
CA-S-6	WWTP- Belt Filter Press Rebuilds & Replacement		Ь	1,775,000		92,000	1,680,000	1	1	1,775,000	0 High	LCA
CA-S-7	WWTP- Digester Cover Replacements		Ъ	2,205,000	1		85,000	1,110,000	1,010,000	\$ 2,205,000	0 Medium	LCA
	Sub-Total LCA Funded Projects			8,172,000		446,000	3,904,000	2,332,000	1,490,000	8,172,000	0	
	CITY FUNDED PROJECTS											
CA-S-8	WWTP-New Bar Rack at Headworks	ΑO		955,000	24,000	290,000	641,000	1	-	\$ 931,000	0 Mandated	City
CA-S-9	Sanitary Sewer Evaluation Study (SSES)	AO		1,025,000	-	000'09	965,000	1		\$ 1,025,000	0 Mandated	City
CA-S-10	Additional Flow Metering & Hydraulic Model Update	AO		275,000	-	45,000	230,000	1	-	\$ 275,000	0 Mandated	City
CA-S-11	WWTP-SCADA Upgrades	MΩ		850,000	-	10,000	840,000	1	-	000'058 \$	0 Medium	City
CA-S-12	WWTP-Security Upgrades	MN		225,000	-	-	-	225,000		\$ 225,000	0 Medium	City
	Sub-Total City Funded Projects			3,330,000	24,000	405,000	2,676,000	225,000	-	3,306,000	- 0	•
				-						_		
	Grand Total			\$ 11,502,000 \$	\$ 24,000	\$ 851,000	\$ 6,580,000	\$ 2,557,000	1,490,000	\$ 11,478,000	0	
										•		

<sup>(1)</sup> **UW=** "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.

8/2/2013 Preliminary

AO= "Administrative Order" Projects as per the Agreement are to be Funded by the City and executed by LCA.

<sup>(2)</sup> **A**= Annual Item, **S**= Study/Planning, **D**= Design, **C**= Construction / Implementation, **P** = Pending Approval, **E** = Entire Project Approved (3) Estimated City expenditures (consultant, contract and equipment) for City Funded Projects prior to settlement.

## **Lehigh County Authority**

Project: CA-S-1 CAPITAL PROGRAMMING PROJECT DETAIL Preparer: FJL **CAPITAL WORKS DEPARTMENT: Sub-Organizational Unit:** Wastewater Capital **Date:** 7/27/13 1. Proposal Title: Collection System - Development and Service Connections 2. Location: Allentown 3. Description: Plan review and construction inspection of extensions and connections to the sanitary sewer system. Also included are general planning expenses. 4. Justification (need, function, selection of time, specific relationship to any long-term work program): To assure that development sewer mains and the connection of laterals to the City sanitary sewer system are designed and constructed according to the applicable specifications. Also allows for planning expenses. 5. Status of Proposal: 6. Cost of Land Rights: X Preliminary Estimate /acre Plans and Specs Completed l.f. /lin ft Other (Specify) 9. Annual Oper. Cost Impact: Incr./(Decr.) Add. Personnel Man-Hrs. 7. Status of Land Rights: Personnel Services \$ Supplies & Equipment Not Yet Acquired \$ Partly Acquired Maintenance Svcs \$ LCA Owned Other \$ X No Land Involved Sub-Total Indirect Operating Costs: 8. Estimated Costs: Overhead Costs 115,000 LCA Staff \$ Debt Service (5%-30yr.) 4.110 Land Acquisition \$ Sub-Total 4.110 Construction/Equip. \$ Professional Services \$ **Total Operating Costs** 4,110 Other \$ Contingencies \$ 10. Revenue Impact: **Total Project Cost** 115,000 Gain/Loss in Annual Revenue \$ Assessment, Contribution-Requested in this in-Aid-of-Construction 51,750 \$ Capital Program 115,000 Grants & Other 11. Source of Funds: Source Oper. Assess., Revenues Contr.-in-Aid Need Borrowing Reserves Prior Years

1st Year	\$	10,000	\$	\$ 5,500	\$	4,500	\$
2nd Year	\$	35,000	\$	\$ 19,250	\$	15,750	\$
3rd Year	\$	35,000	\$	\$ 19,250	\$	15,750	\$
4th Year	\$	35,000	\$	\$ 19,250	\$	15,750	\$
5th Year	\$		\$	\$	\$		\$
6th thru 10th Years	\$		\$	\$	\$		\$
12. Departmental Priority	/ Rating:						
High >	_	Medium	Low	Le	gally Mar	dated	
		_					

		County Authority			Project:	_	CA-S-2
CAPI	TAL PROGRA	MMING PROJE	ECT DETAIL		Preparer:	_	FJL
DEPARTMENT:	CAPITAL WORK	'S					
Sub-Organizational Unit:	Wastewater Cap			Date	e: 7/27/13		
1. Proposal Title: Other Ed	quipment			2. Location:	Allentown		
3. Description: Generally utilized for purch	nase of individual eq	uipment greater than \$	65,000				
Justification (need, function Replacement equipment is equipment, electric and e	s required from time	to time to maintain ser	vice integrity. Items	include valves, sar			
5. Status of Proposal:			6. Cost of Land Ri	ghts:			
X Preliminary Estimate			ac.	<u> </u>	/acre		
Plans and Specs Comp	pleted		l.f.	@	/lin ft.		
Other (Specify)			Total:	\$ -			
-	_		9. Annual Oper. Co Add. Personnel N		Decr.)		
7. Status of Land Rights:			Personnel Servic	es		\$	-
Not Yet Acquired			Supplies & Equip			\$	
Partly Acquired			Maintenance Svo	S		\$	
LCA Owned			Other			\$_	
X No Land Involved			Sub	o-Total		\$	-
			Indirect Operating	g Costs:			
8. Estimated Costs:			Overhead Costs	3		\$	-
LCA Staff	\$		Debt Service (5	,		\$ _	5,530
Land Acquisition	\$		Sub	o-Total			5,530
Construction/Equip. Professional Services	\$ 85,000		T-4	-l Oti Ot-		•	5 500
	\$		100	al Operating Costs		Φ =	5,530
Other Contingencies	\$ \$		10. Revenue Impa	·+·			
Total Project Cost	\$ 85,000		Gain/Loss in Ann			\$	
Total Troject Gost	ψ 05,000		Assessment. Cor			Ψ	
Requested in this			in-Aid-of-Constr			\$	_
Capital Program	\$85,000		Grants & Other			\$	
11. Source of Funds:		_	Sou	ırce			
		Oper.	_	Assess.,		·	_
Dries Vesse	Need	Revenues	Borrowing	Contrin-Aid	_		Reserves
Prior Years 1st Year	\$ \$ 10,000	\$ ¢	\$ \$ 10,000	\$ \$		\$	
2nd Year	\$ 10,000 \$ 25,000	\$ \$	\$ 25,000	\$ \$		\$ \$	
3rd Year	\$ 25,000	\$ \$	\$ 25,000	\$ \$		φ \$	
	,	T	,	T		Ψ.	

\$ \$ \$ \$ \$ \$

Low \_\_\_\_

25,000

\$ \$ \$ \$ \$ \$

Legally Mandated

\$ \$ \$ \$ \$ \$ \$

\$ \$ \$ \$ \$ \$ \$

25,000

Medium \_\_\_\_\_

\$ \$ \$

4th Year

5th Year

6th thru 10th Years

12. Departmental Priority Rating: High X

## **Lehigh County Authority**

6th thru 10th Years

12. Departmental Priority Rating: High X

Medium \_\_\_\_\_

	CAP	ITAL	_ PROGRA	MMING PRO	JEC	T DETAIL		Preparer:	-	JP/RK
	EPARTMENT: b-Organizational Unit:		APITAL WORK astewater Capi				Dat	e: 7/27/13		
1.	Proposal Title: Waste	Water	Treatment Plan	nt (WWTP) Genera	al Impro	ovements	2. Location:	Allentown		
3.	Description: Funding to cover the on-quipment fa									
4.	Justification (need, func The WWTP was built in t equipment is required im	he 192	20's with major	upgrades in 1968,	1978 a	nd 1998. Repla	cement of failed cr			
5.	Status of Proposal:				6. (	Cost of Land Ri	ghts:			
	X Preliminary Estimate					ac.	<b>@</b>	/acre		
	Plans and Specs Con	pleted	t		_	l.f.	@	/lin ft.		
	Other (Specify)					Total:	\$ -			
7.	Status of Land Rights:  Not Yet Acquired  Partly Acquired	_			,   	Add. Personnel M Personnel Servic Supplies & Equip Maintenance Svo	es ment	Decr.)	\$ \$	-
	LCA Owned X No Land Involved				(	Other Sub	o-Total		\$ _ \$	
8.	Estimated Costs: LCA Staff Land Acquisition	\$	5,000		I	Indirect Operating Overhead Costs Debt Service (5 Sub	5		\$ \$_	34,150 34,150
	Construction/Equip. Professional Services	\$ \$	520,000			Tot	al Operating Costs		\$	34,150
	Other	\$				100	ar operating costs		Ψ=	04,100
	Contingencies	\$			10.	Revenue Impa	ct:			
	Total Project Cost	\$	525,000			Gain/Loss in Ann Assessment, Cor			\$	
	Requested in this				,	in-Aid-of-Constr ا			\$	_
	Capital Program	\$	525,000		(	Grants & Other	dollori		\$	
11	. Source of Funds:					Sou	urce			
				Oper.			Assess.,			
	Diany	_	Need	Revenues		Borrowing	Contrin-Aid			Reserves
	Prior Years	\$	75 000	\$	\$	75.000	\$		\$	
	1st Year 2nd Year	\$ \$	75,000 150,000	\$ \$	\$ \$	75,000 150,000	\$ \$		\$ \$	
	3rd Year	э \$	150,000	\$ \$	э \$	150,000	\$ \$		φ \$	
	4th Year	φ \$	150,000	\$		150,000	\$		\$	
	5th Year	\$	100,000	\$	\$ \$	.00,000	\$ \$		\$ \$	
	6th thru 10th Years	\$		\$	\$		\$		\$	

Project:

CA-S-3

2	1
_	_

Low

Legally Mandated

Sanitary Sewer Main Replacements and/or Rehabilitation

Project: CA-S-4
Preparer: FJL

DEPARTMENT:CAPITAL WORKSSub-Organizational Unit:Wastewater Capital

Date: 8/2/13

Allentown

2. Location:

#### 3. Description:

1. Proposal Title:

Replacement and/or rehabilitation of sanitary sewer mains that have been found to be defective. The replacement and/or rehabilitation of "Building Sewers" or Laterals as defined in City Ordinance "Title Five- Sewers" that are connected to said sewer mains is not included because these laterals are owned and maintained by the owners of the improved properties.

#### 4. Justification (need, function, selection of time, specific relationship to any long-term work program):

The Operating Standards require replacement and/or repair of any sanitary mains found to be defective when said mains are located in a street that has been included the City 's annual Streets Program.

5.	Status of Proposal:  X Preliminary Estimate Plans and Specs Compl Other (Specify)	eted				6.	Cost of Land R ac I.f. Total:	c. @_		icre n ft.		
7.	Status of Land Rights:  Not Yet Acquired Partly Acquired LCA Owned X No Land Involved					; ; [	Add. Personnel Personnel Servi Supplies & Equi Maintenance Sv Other	Man-H ices ipment		·.)	\$ \$ \$ \$ <b>-</b>	-
R	Estimated Costs:					I	Indirect Operation		ts:		\$	_
٥.		\$	130,000				Debt Service (		/r \		\$	64,080
		\$	130,000				•	ub-Tota	,		Ψ_	64,080
	•	\$	650,000				0.0	10 TOTA				04,000
		\$	95,000				To	otal Ope	erating Costs		\$	64,080
		\$	10,000						<b>J</b>		· =	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		\$	100,000			10.	Revenue Impa	act:				
	•	\$ <u> </u>	985,000				Gain/Loss in An		evenue		\$	
		*	,				Assessment, Co				*	
	Requested in this						in-Aid-of-Cons				\$	-
	•	\$	985,000			(	Grants & Other				\$	
11	. Source of Funds:						Sc	ource				
				_	Oper.				Assess.,			
			Need		Revenues		Borrowing	_	Contrin-Aid			Reserves
		\$	400.000	\$		\$	400.000	\$			\$	
		\$	180,000	\$		\$	180,000	\$			\$	
		\$	265,000	\$		\$	265,000	\$			\$ \$ \$	
		\$	270,000	\$		\$	270,000	\$			\$	
		\$	270,000	\$		\$	270,000	\$			\$	
		\$ \$		\$ \$		\$ \$		\$ \$			\$ \$	
	oth thru Toth Years	<b>Þ</b>		Ф		Ф		Ф			Ф	
12	. Departmental Priority Rat	ina:										
	High X	9.	Medium		Low		Le	egally M	andated			

4th Year

5th Year

6th thru 10th Years

12. Departmental Priority Rating: High X

\$

\$

\$

\$

Medium

Project:	CA-S-5
Preparer:	FJL

\$

\$

**CAPITAL WORKS DEPARTMENT: Sub-Organizational Unit:** Wastewater Capital **Date:** 7/23/13 1. Proposal Title: Wastewater Treatment Plant (WWTP) Replacement of Motor 2. Location: Allentown **Control Centers** 3. Description: This Project will replace five aged motor control centers that provide power on a 24/7 basis to various parts of the WWTP. 4. Justification (need, function, selection of time, specific relationship to any long-term work program): The motor control centers are located in areas where they are exposed to corrosive wastewater gas and have deteriorated considerably. Because of their ages replacement parts are nearly impossible to find. This equipment is critical for the daily operation of the WWTP. 5. Status of Proposal: 6. Cost of Land Rights: X Preliminary Estimate ac. @ /acre Plans and Specs Completed l.f. /lin ft Other (Specify) 9. Annual Oper. Cost Impact: Incr./(Decr.) Add. Personnel Man-Hrs. 7. Status of Land Rights: Personnel Services \$ Not Yet Acquired Supplies & Equipment \$ Partly Acquired Maintenance Svcs \$ LCA Owned Other \$ X No Land Involved Sub-Total **Indirect Operating Costs:** 8. Estimated Costs: Overhead Costs Debt Service (5%-30yr.) LCA Staff 176,000 \$ 161,460 Land Acquisition \$ Sub-Total 161,460 Construction/Equip. \$ 1,760,000 Professional Services \$ 264,000 **Total Operating Costs** 161,460 Other \$ 18,000 264,000 Contingencies 10. Revenue Impact: **Total Project Cost** 2,482,000 Gain/Loss in Annual Revenue \$ Assessment, Contribution-Requested in this in-Aid-of-Construction \$ Capital Program 2,482,000 Grants & Other 11. Source of Funds: Source Oper. Assess., Revenues Need Borrowing Contr.-in-Aid Reserves Prior Years \$ \$ \$ \$ \$ 1st Year \$ 76,000 \$ \$ 76,000 \$ 2nd Year \$ 1,664,000 \$ \$ \$ 1,664,000 3rd Year \$ \$ \$ \$ \$ 742,000 742,000

_	
	/
_	

\$

\$

Low

\$

\$

\$

Legally Mandated

Project:	CA-S-6
Preparer:	FJL

DEPARTMENT: CAPITAL WORKS
Sub-Organizational Unit: Wastewater Capital

Date: 7/23/13

 1. Proposal Title:
 WWTP- Belt Press Rebuilds & Replacement
 2. Location:
 Allentown

3. Description	1:
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The Project will replace one Belt Filter Press (BFP) and rebuild in place two BFPs

#### 4. Justification (need, function, selection of time, specific relationship to any long-term work program):

The current BFPs, 1984 vintage have not been reconditioned properly over time and now, although operating are in a various states of disrepair. The BFPs are used to dewater sludge to meet PaDEP requirements **for land application**.

5.	Status of Proposal:  X Preliminary Estimate Plans and Specs Comple Other (Specify)	eted				6. (	Cost of Land R ac. I.f. Total:	. @	/acre		
							<b>Annual Oper. C</b> Add. Personnel I		mpact: Incr./(Decr.) Hrs.		
7.	Status of Land Rights:						Personnel Servi			\$	-
	Not Yet Acquired						Supplies & Equip		t	\$	
	Partly Acquired						Maintenance Sv	cs		\$	
	LCA Owned					(	Other			\$_	
	X No Land Involved						Su	ıb-Tota	al	\$	-
							Indirect Operatin	ng Cos	sts:		
8.	Estimated Costs:						Overhead Cost			\$	-
	LCA Staff		190,000				Debt Service (5			\$_	115,470
		\$					Su	ıb-Tota	al		115,470
		\$	1,255,000				_			_	
		\$	90,000				To	tal Op	perating Costs	\$ <u>_</u>	115,470
		\$	50,000								
	3	\$ <u></u>	190,000				Revenue Impa				
	Total Project Cost	\$	1,775,000				Gain/Loss in Ani			\$	
	Requested in this				Assessment, Contribution- in-Aid-of-Construction						_
	•	<b>B</b>	1,775,000			(	Grants & Other	li dollo	11	\$ \$	
	oup.tu. rogram	_	.,				G. G. 10 1. 10.			*	
11	. Source of Funds:						So	urce			
					Oper.				Assess.,		
			Need		Revenues		Borrowing	_	Contrin-Aid		Reserves
	Prior Years S		05.000	\$		\$	0.5.000	\$		\$	
	1st Year		95,000	\$		\$	95,000	\$		\$ \$ \$ \$ \$ \$ \$	
	2nd Year		1,680,000	\$		\$	1,680,000	\$		\$	
	3rd Year			\$		\$		\$		<b>\$</b>	
	4th Year S			\$		\$ \$		\$		<b>Þ</b>	
	5th Year 5 6th thru 10th Years 5			\$ \$		\$ \$		\$ \$		<b>\$</b>	
	6th thru 10th Years	₽		Ф		Ф		ф		\$	
12	. Departmental Priority Rati	ng:									
	Hiah X		Medium		Low		Lec	gally N	Mandated		

**Lehigh County Authority** Project: CA-S-7 **CAPITAL PROGRAMMING PROJECT DETAIL** Preparer: FJI **CAPITAL WORKS Sub-Organizational Unit:** Wastewater Capital **Date:** 7/27/13 1. Proposal Title: WWTP- Digester Cover Replacements 2. Location: Allentown Phase 1 of this Project will replace the primary digester cover. Phase-2 will replace the secondary digester cover. 4. Justification (need, function, selection of time, specific relationship to any long-term work program): The WWTP has two primary digesters and one secondary digester. In 2009 the 1968 vintgage cover on one of the primary digesters failed and caused major operational issues. The failed digester cover replacement work was completed in 2010. The remaining two digester covers are nearing the end of their useful life and must be replaced 5. Status of Proposal: 6. Cost of Land Rights: X Preliminary Estimate ac. /acre Plans and Specs Completed /lin ft. Other (Specify) 9. Annual Oper. Cost Impact: Incr./(Decr.) Add. Personnel Man-Hrs. 7. Status of Land Rights: Personnel Services Not Yet Acquired Supplies & Equipment \$ Partly Acquired Maintenance Svcs \$ LCA Owned Other X No Land Involved Sub-Total Indirect Operating Costs: 8. Estimated Costs: Overhead Costs 120,000 Debt Service (5%-30yr.) Land Acquisition \$ Sub-Total \$ 1,660,000 Construction/Equip. **Professional Services** \$ 165,000 **Total Operating Costs** 143,440 \$ 10,000 250,000 10. Revenue Impact: **Total Project Cost** Gain/Loss in Annual Revenue 2,205,000 Assessment, Contribution-

in-Aid-of-Construction

Grants & Other

\$

11. Source of Funder

Requested in this

Capital Program

2,205,000

Contingencies

LCA Staff

Other

**DEPARTMENT:** 

3. Description:

before failure.

1. Source of Funds:				Source						
			Oper.			Assess.,				
		Need	Revenues		Borrowing	Contrin-Aid	Reserves			
Prior Years	\$		\$	\$		\$	\$			
1st Year	\$		\$	\$		\$	\$			
2nd Year	\$	85,000	\$	\$	85,000	\$	\$			
3rd Year	\$	1,110,000	\$	\$	1,110,000	\$	\$			
4th Year	\$	1,010,000	\$	\$	1,010,000	\$	\$			
5th Year	\$		\$	\$		\$	\$			
6th thru 10th Years	\$		\$	\$		\$	\$			
Donartmontal Priority	Datina									

6th	thru 10th Years	\$	\$	\$	\$	
12. De <sub>l</sub>	partmental Priority F High	•	edium X	Low	Legally Mandated	

### CA

Lehigh County Authority	Project:	CA-S-8
APITAL PROGRAMMING PROJECT DETAIL	Preparer:	FJL

DEPARTMENT: Sub-Organizational Unit:	CAPITAL WORKS Wastewater Capital	Date:	7/24/13
1. Proposal Title: WW	TP- New Bar Rack at Headworks	2. Location:	Allentown

#### 3. Description:

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.

#### 4. Justification (need, function, selection of time, specific relationship to any long-term work program):

This project is one of the improvements necessary to assure compliance with the EPA Administrative Order; and is identified in the CDM report dated January 2011 entitled "EPA Directed Feasibility Study to Analyze Alternatives For Wet Weather Flow Management at Klines Island WWTP".

5.	Status of Proposal: Preliminary Estimate Plans and Specs Comp X Other (Specify) Project Bids Received	eleted				6. Cost of Land Ri ac. I.f. Total:	@ @ \$	/acre /lin ft -		
7.	Status of Land Rights:  Not Yet Acquired Partly Acquired LCA Owned X No Land Involved				•	Annual Oper. C Add. Personnel Personnel Servi Supplies & Equi Maintenance Sv Other Su	Man-Hrs. ces pment	t: Incr./(Decr.)	\$ \$ \$ \$ \$ \$	-
8.	Estimated Costs: LCA Staff Land Acquisition Construction/Equip.	\$ \$ \$	40,000 792,000			Indirect Operatir Overhead Cost Debt Service (5 Su	s		\$ \$	-
	Professional Services Other Contingencies Total Project Cost	\$ \$ \$	38,000 5,000 80,000 955,000			To  10. Revenue Impa Gain/Loss in And Assessment, Co	nual Rever		\$ \$	-
	Requested in this Capital Program	\$	931,000			in-Aid-of-Const Grants & Other	ruction		\$ \$	955,000
11.	Prior Years 1st Year	\$	Need 24,000 290,000	\$		Borrowing \$	\$ \$	Assess., rrin-Aid (1) 24,000 290,000	\$	Reserves
	2nd Year 3rd Year 4th Year 5th Year 6th thru 10th Years	\$ \$ \$ \$	641,000	\$ \$ \$ \$		\$ \$ \$ \$	\$ \$ \$ \$	641,000	\$ \$ \$ \$ \$ \$	
12.	Departmental Priority Rat	ting:	Medium		Low	Le	gally Mand	ated	X	

<sup>(1)</sup> This an Administrative Order (AO) Project that will be funded by the City of Allentown

# Lehigh County Authority Project: CAPITAL PROGRAMMING PROJECT DETAIL Preparer:

**DEPARTMENT:** 

CAPITAL WORKS

CA-S-9

FJL

Su	b-Organizational Unit:	anizational Unit: Wastewater Capital						Date: <u>7/24/13</u>				
1.	Proposal Title: Sanital	ry Se	wer Evaulation S	Study (	SSES)			2. Location:	Allentown			
3.	Description: Field investigatory work to Primary and Secondary I sanitary sewer mains , m	basin	s as identified ir	the W	VRA report . Th	ne v	vork will include C0	CTV of ~102,210 I	inear-feet of			
4.	Justification (need, func This project is one of the compliance with the EPA "System Assessment an	inve A Adn	stigatory tasks n ninistrative Ordei	ecessa; ; and i	ary for the designs is identified in the	gn c	of future I/I mitigation	on projects to assi	ure			
5.	Status of Proposal:					6.	Cost of Land Rig	ghts:				
	X Preliminary Estimate						ac.	@	/acre			
	Plans and Specs Cor	nplet	ed				I.f. Total:	@ \$ -	/lin ft.			
	Other (Specify)						i otal.	Φ -				
						9.	Annual Oper. Co	st Impact: Incr./(	(Decr.)			
_	0						Add. Personnel M			•		
7.	Status of Land Rights: Not Yet Acquired						Personnel Service Supplies & Equipr			\$ \$	-	
	Partly Acquired						Maintenance Svc			\$		
	LCA Owned						Other			\$		
	X No Land Involved						Sub	-Total		\$	-	
							Indirect Operating	Costs:				
8.	Estimated Costs:						Overhead Costs			\$	-	
	LCA Staff	\$	70,000				Debt Service (59	• ,		\$_		
	Land Acquisition	\$	700 000				Sub	-Total			-	
	Construction/Equip. Professional Services	\$ \$	700,000 140,000				Tota	al Operating Costs		\$	_	
	Other	\$	10,000				1010	ii oporating occit	,	Ψ=		
	Contingencies	\$	105,000			10	. Revenue Impac	:t:				
	Total Project Cost	\$	1,025,000				Gain/Loss in Annu			\$		
	Degreeated in this						Assessment, Con			æ	1 005 000	
	Requested in this Capital Program	\$	1,025,000				in-Aid-of-Constru Grants & Other	action		\$ \$	1,025,000	
			.,,							•		
11	. Source of Funds:						Sou					
			Nood		Oper.		Dorrowing	Assess., Contrin-Aid	(4)		Dagamica	
	Prior Years	\$	Need	\$	Revenues	\$	Borrowing	\$	<u>(1)</u>	\$	Reserves	
	1st Year	\$	60,000	\$		\$		\$ 60,00	00	\$		
	2nd Year	\$	965,000	\$		\$		\$ 965,00	00	\$		
	3rd Year	\$		\$		\$ \$ \$		\$ \$		\$ \$ \$		
	4th Year	\$		\$				\$				
	5th Year 6th thru 10th Years	\$ \$		\$ \$		\$ \$		\$ \$		\$ \$		
	out und tout teats	φ		φ		φ		Ψ		φ		

Medium

12. Departmental Priority Rating:

Low

Legally Mandated

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<sup>(1)</sup> This an Administrative Order (AO) Project that will be funded by the City of Allentown

CAPITAL WORKS

Wastewater Capital

**DEPARTMENT:** 

**Sub-Organizational Unit:** 

12. Departmental Priority Rating:

High \_

Project:	CA-S-10
Preparer:	FJL

Date: 7/24/13

1.	Proposal Title: Additional	I Flow Meterin	g and Hydraulic M	odel Update	2.	Location:	Allentown		
3.	<b>Description:</b> This project includes additi "system stressing storm", t				ts the criteria of o	containing at le	ast one		
4.	Justification (need, function The current City system by hydraulic model will be utilide EPA Administrative Order, Report dated January 2013 hydraulic modeling efforts.	draulic model zed to evaluat as such it is in	was calibrated utili e various options for portant that the m	zing less than des or infrastructure ir odel have a high	sirable 2008 flow nprovements to a level of accuracy	metering data assure complia /. The WRA /	ince with the DMNI		
5.	Status of Proposal:  X Preliminary Estimate Plans and Specs Comp Other (Specify)	leted		6. Cost	of Land Rights ac. @ l.f. @ Total: \$		_/acre _/lin ft.		
7.	Status of Land Rights:  Not Yet Acquired  Partly Acquired  LCA Owned  X No Land Involved			Add. Perso Supp	ral Oper. Cost In Personnel Man-lonnel Services lies & Equipment enance Svcs Sub-Tot	Hrs.	Pecr.)	\$ \$ \$ \$	-
8.	Estimated Costs: LCA Staff Land Acquisition Construction/Equip. Professional Services Other	\$ 10,0 \$ \$ 155,0 \$ 95,0	00 00	Ove Deb	·	)yr.)		\$ \$_ \$_	- - -
	Contingencies Total Project Cost  Requested in this Capital Program	\$ 15,0 \$ 275,0 \$ 275,0	00	Gain/ Asse: in-A	enue Impact: Loss in Annual F ssment, Contribu id-of-Constructio is & Other	ition-		\$ \$ \$	275,000
11	Source of Funds:		Ope	r	Source	Assess.,			
	Prior Years 1st Year 2nd Year 3rd Year 4th Year 5th Year 6th thru 10th Years	Need \$ 45,0 \$ 230,0 \$ \$ \$	Reven \$ 00 \$		rrowing \$ \$ \$ \$ \$ \$ \$ \$	Assess., Contrin-Aid ( 45,000 230,000	<del>_</del>	- \$ \$ \$ \$ \$ \$ \$	Reserves

Medium

Low \_\_\_\_\_

Legally Mandated

Χ

<sup>(1)</sup> This an Administrative Order (AO) Project that will be funded by the City of Allentown

	O/Ai		I INCONAMIN	Treparet	-	JI
	EPARTMENT: ub-Organizational Unit:		PITAL WORKS astewater Capital	<b>Date</b> : 8/2/13	<u>;                                    </u>	
1.	Proposal Title: WWTP	SCAD	A Upgrades	2. Location: Allentov	vn	
3.	<b>Description:</b> Installation of a plant wide WWTP.	SCAI	DA system that would	enable operators to monitor and remotely control equipment at the	ie	
4.		g SCA	DA equipment has s	ecific relationship to any long-term work program): urpassed its expected life span. Upgrades to state-of-the-art		
5.	Status of Proposal:  X Preliminary Estimate Plans and Specs Com Other (Specify)	pleted		6. Cost of Land Rights:  ac. @ /acre  I.f. @ /lin ft.  Total: \$ -		
7.	Status of Land Rights: Not Yet AcquiredPartly AcquiredCA Owned	_		9. Annual Oper. Cost Impact: Incr./(Decr.) Add. Personnel Man-Hrs. Personnel Services Supplies & Equipment Maintenance Svcs Other	\$ \$ \$	-
	X No Land Involved			Sub-Total Indirect Operating Costs:	\$	-
В.	Estimated Costs: LCA Staff Land Acquisition Construction/Equip.	\$ \$ \$	145,000 565,000	Overhead Costs Debt Service (5%-30yr.) Sub-Total	\$ \$_	-
	Professional Services Other	\$ \$	10,000	Total Operating Costs	\$ =	-
	Contingencies Total Project Cost	\$ \$	130,000 850,000	10. Revenue Impact: Gain/Loss in Annual Revenue Assessment, Contribution-	\$	
	Requested in this			in-Aid-of-Construction	\$	850,000

Project:

Capital Program 11. Source of Funds:

11. Source of Funds:				Source							
				Oper.			Assess.,				
		Need	R	Revenues	Borrowing	Co	ontrin-Aid <i>(1)</i>	Rese	erves		
Prior Years	\$		\$		\$	\$		\$			
1st Year	\$	10,000	\$	;	\$	\$	10,000	\$			
2nd Year	\$	840,000	\$	;	\$	\$	840,000	\$			
3rd Year	\$		\$	;	\$	\$		\$			
4th Year	\$		\$	;	\$	\$		\$			
5th Year	\$		\$	;	\$	\$		\$			
6th thru 10th Years	\$		\$	;	\$	\$		\$			
12. Departmental Priority	Rating:										
High		Medium _	X	Low	_	Legally Mar	ndated				

Grants & Other

850,000

<sup>(1)</sup> This an Unhcompleted Work (UW) Project that will be funded by the City of Allentown

#### **Lehigh County Authority** C

4. Justification (need, function, selection of time, specific relationship to any long-term work program):

Enhanced security would further reduce the risk of breaches that may have the potential to impair to the operation of the

facility.

11. Source of Funds:

		Project:	CA-S-12	
CAP	PITAL PROGRAMMING PROJECT DETAIL		JP	
DEPARTMENT:	CAPITAL WORKS			
Sub-Organizational Unit:	Wastewater Capital	Date	: 8/2/13	
1. Proposal Title: WWTF	Security Upgrades	2. Location:	Allentown	
3. Description: Installation of upgrades a	and related equipment to the existing security system at the WV	VTP.		

5.	Status of Proposal:  X Preliminary Estimate Plans and Specs Com Other (Specify)	oleted		6. Cost of Land Rights: ac. @/acrel.f. @/lin ft.  Total: \$ -		
7.	Status of Land Rights: Not Yet AcquiredPartly AcquiredCA Owned	_		9. Annual Oper. Cost Impact: Incr./(Decr.) Add. Personnel Man-Hrs. Personnel Services Supplies & Equipment Maintenance Svcs Other	\$ \$ \$	-
	X No Land Involved			Sub-Total	\$ _	-
8.	Estimated Costs:			Indirect Operating Costs: Overhead Costs	\$	-
	LCA Staff	\$	25,000	Debt Service (5%-30yr.)	\$	
	Land Acquisition Construction/Equip.	\$ \$	150,000	Sub-Total Sub-Total		-
	Professional Services	\$	150,000	Total Operating Costs	\$	_
	Other	\$	5,000	<b>,</b>	· =	
	Contingencies	\$	45,000	10. Revenue Impact:		
	Total Project Cost	\$	225,000	Gain/Loss in Annual Revenue Assessment, Contribution-	\$	
	Requested in this			in-Aid-of-Construction	\$	225,000
	Capital Program	\$		Grants & Other	\$	

			Oper.		Assess.,		
		Need	Reven	ues Borro	wing Co	ntrin-Aid <i>(1)</i>	Reserves
Prior Years	\$		\$	\$	\$		\$
1st Year	\$		\$	\$	\$		\$
2nd Year	\$		\$	\$	\$		\$
3rd Year	\$	225,000	\$	\$	\$	225,000	\$
4th Year	\$		\$	\$	\$		\$
5th Year	\$		\$	\$	\$		\$
6th thru 10th Years	\$		\$	\$	\$		\$
12. Departmental Priority Rating:							
High		Medium _	X	Low	Legally Man	dated	<u></u>

Source

<sup>(1)</sup> This an Uncompleted Work (UW) Project that will be funded by the City of Allentown