## BOARD ACTION/DISCUSSION ITEMS SEPTEMBER 2012 – NOVEMBER 2012

<b>PRIORITY*</b>	<b>PROJECT/ISSUE</b>	TYPE OF ACTION	TIMING**
	AS NEEDED		
Н	Update on wastewater treatment capacity evaluation/steering committee	Status Report	As needed
н	Acquisition/Growth Strategy Activities	Status Report	As needed
Н	Jordan Creek Wastewater Plant	Status Report	As needed
	WITHIN 45 DAYS		
Н	2013-2022 Capital Plan- Preliminary	Presentation	September (B)
Н	Wynnewood Estates Main Wastewater Pumping Station Replacement, Design Phase. Capital Project & Professional Services Authorizations	Approval	September(B)

#### WITHIN 75 DAYS

H 2013 Budget Assumptions

9/24/12September Board Meeting10/8/12October Workshop Meeting\* H – HighM – MediumL – Low

\*\* (W) – Workshop (B) – Board (W/B) - Either

October (B)

Presentation/Discussion

## LEHIGH COUNTY AUTHORITY

## WORKSHOP AGENDA

#### Monday, September 10, 2012 – 12:00 PM

#### **INITIAL ITEMS** (Collectively 5 Minutes)

#### 1. Identify items for September Board Meeting

• Review Board Discussion items, September 2012 – November 2012

#### **ACTION/DISCUSSION ITEMS**

#### 1. Water Main Replacement Project – Oakland Park (UMT) (Approval)

This project consists of the installation of 4500' of new 8" ductile iron water mains within five separate roads in the Oakland Park development. Construction will be completed by December 31; however, final restoration will not occur until May 2013. Board approval is requested for the Construction Phase of this project which includes a Capital Project Authorization Amendment, a Professional Services Authorization and construction contract award **(Salmon)**.

#### **INFORMATION ITEMS**

#### 1. Education and Training

Pat Mandes	PIX Pretreatment Conference – Bethlehem, PA	9/14
------------	---	------

#### **OTHER ITEMS**

#### 1. None.



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

#### **MEMORANDUM**

Date: September 4, 2012

То:	Board of Directors & Management Staff
From:	Emily Gerber
Re:	Water Main Replacement Project Oakland Park

## MOTIONS / APPROVALS REQUESTED:

No.	Type of	Item	Amount
	Approval		
1	Funding	Capital Project Authorization – Amendment No.1 Construction Phase	\$899,106.00
2	Contract	Contract Award: Construction Phase	
**		Doli Construction Corporation	\$676,416.00
3 **	Contract	Professional Services Authorization Construction Inspection Services	
		Keystone Consulting Engineers, Inc.	\$63,240.00

(\*\*) Included in the Capital Project Authorization

## **PROJECT OVERVIEW:** (See attached location map)

Approximately 4,500' of cast iron pipe (CIP) will be replaced with ductile iron pipe (DIP) in the Oakland Park residential development in Upper Macungie Township. The streets included in the project area are all or portions of Fir Road, Cottonwood Street, Elm Road, Bastian Lane and Maple Circle. These areas were selected because the CIP still in use has experienced multiple water main breaks in recent years. At least sixteen different water main leaks have occurred in Oakland Park since 1998 and fourteen of those breaks were in the areas identified for replacement.

Typical trench construction methods will be used to install the new mains in new locations and the existing water mains will be abandoned in place. The 65 properties within the project area will have new service laterals (public portion only) and curb boxes installed. During various stages of construction, customers will experience temporary, short term water outages.

## **CONTRACTOR SELECTION PROCESS:**

## Construction Contractor

The construction work for this project was advertised on August 2, 2012. A mandatory Pre-Bid Meeting was held on August 14<sup>th</sup> with representatives from sixteen different firms in attendance. Bids were opened on August 30<sup>th</sup> and nine firms submitted bids as shown below:

Bidder	Base Bid Amount	Placement
Doli Construction Corporation	\$676,416.00	1
Pact Construction	\$682,277.50	2
Bellview Pump LLC	\$724,925.00	3
Livengood Excavators, Inc.	\$734,302.43	4
Michael F. Ronca & Sons, Inc.	\$743,000.00	5
Delaware Valley Utility Contractors	\$777,492.50	6
Joao & Bradley Construction Co.	\$788,131.00	7
Mazzuca Enterprises, Inc.	\$874,540.00	8
Pioneer Construction	\$881,895.00	9
Anrich, Inc.	No Bid Submitted	
G.E.C. Services, Inc.	No Bid Submitted	
Penn Quaker Site Contractors	No Bid Submitted	
RGC Development	No Bid Submitted	
Scheuermann Excavating, Inc.	No Bid Submitted	
Wexcon, Inc.	No Bid Submitted	

We have reviewed all submittals for conformance to the contract documents and we recommend award of this construction contract to Doli Construction Corporation in the amount of \$676,416.00. This award is conditioned upon the timely receipt of properly executed Contract Agreements and Payment Bonds by the contractor as well as a thorough internal review of their references.

## **Construction Inspection Services**

A RFP for construction inspection services was sent out to six local engineering firms. We received proposals from five of those firms as shown below:

	Hourly	Overtime	Inspection	Other	Estimated
Firm	Rate	Rate	Costs	Costs	Project Cost
Keystone Consulting Engineers	\$62.00	N/A	\$63,240.00	\$0.00	\$63,240.00
ARRO	\$62.00	N/A	\$63,240.00	\$0.00	\$63,240.00
T&M Associates	\$77.00	N/A	\$78,540.00	\$300.00	\$79,840.00
Barry Isett Associates	\$64.00	\$75.00	\$67,920.00	\$16,984.00	\$84,904.00
Spotts, Stevens McCoy	\$85.00	N/A	\$86,700.00	\$8,450.00	\$95,150.00

\*Project Cost is based on a maximum of 1020 inspection hours, 240 of which could be considered overtime

While both Keystone Consulting Engineers (KCE) and ARRO had the same hourly rate for inspection services, we recommend award of this contract to KCE in the not-to-exceed amount of \$63,240.00. KCE will bill LCA based upon actual time charged for inspection services. Since KCE is Upper Macungie Township's engineer, there will be certain synergies and economies by having a single entity responsible for both LCA water main and township infrastructure inspections.

## PROJECT TIMELINE:

Construction is anticipated to begin as early as the first week in October. All water main installation, testing and service initiation as well as temporary paving must be completed by December 31, 2012. Permanent paving and lawn/driveway final restoration will not be completed until May 2013. Project completion is expected on or before June 30, 2013.

## FUTURE WATER MAIN REPLACEMENT PROJECTS:

A decision will be made by the end of the year as to which areas should be replaced in 2013. A separate project for that work will be structured similarly to this year's project but with a projected construction start date in late spring or early summer.

# **CAPITAL PROJECT AUTHORIZATION**

PROJECT NO.:	W-10-1		BUDGET FUNI	D: WATER CAPITAL	- CLD	
PROJECT TITLE:	Water Main Replacement Project PROJECT TYPE:					
	Upper Macungie Township X Construction					
	Oakland Par				Engineering Study	
		K deven	opinent		Design	
AMOUNT	THIS AMEND	MENT	: \$899	,106.00	X Amendment	
ТОТ	TAL COST EST	IMATE		,006.00		
				,		
DESCRIPTION AN	D BENEFITS					
replaced are all in the follows: 1374' alon	e Oakland Park g Fir Road, 856' c of Maple Circl	develop along C le. All c	oment, totaling approved to the second street, so the second street areas have	oximately 4500 linear f 965' along Elm Road, 1 experienced multiple w	ip. The segments to be ceet. The segments are as 091' along Bastian Lane and ater main and service line	
This authorization a	ccounts for awar	d and c	onstruction and wil	l take the project throug	gh completion.	
Pı	evious Authoriz	zations				
Design Phase		\$	44,900.00			
-	ested this Auth	orizatio	on			
Construction Pha	ise	¢	20.000.00			
Payroll		\$	29,000.00			
Contract		\$	676,416.00			
Inspection Service		<b>)</b>	63,240.00			
Nuclear Compacti Miscellaneous Co	-	\$ ¢	7,500.00 12,000.00			
Contingency (15%		\$ \$	110,950.00			
Total Construction		φ \$	<b>899,106.00</b>	Total Requested		
		\$	944,006.00	Projected Project T	otal	
REVIEW AND APPROVALS						
Project M	Ianager		Date	General Ma	nager Date	
	-					
Capital Wor	ks Manager		Date	Chairma	in Date	



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

## **PROFESSIONAL SERVICES AUTHORIZATION**

Professional:	Keystone Consulting Engineers, Inc.	Date:	September 4, 2012
	6235 Hamilton Boulevard	Requested By:	Emily Gerber
	Suite 100	Approvals	
	Wescosville, PA 18106	Department Head:	
		General Manager:	

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

Keystone Consulting Engineers, Inc. (KCE) will provide construction inspection and observation services for the Water Main Replacement Project in the Oakland Park residential development in Upper Macungie Township. Work will begin once the selected contractor, Doli Construction Corporation, starts mobilization efforts at the site and will continue throughout the entire project.

Tasks to be performed by KCE's inspector include, but are not limited to:

- Attend project meetings
- Act as on-site liaison for LCA with the contractor, regulators and customers
- Conduct on-site observations of work and ensure materials installed meet LCA, township and regulatory requirements
- Witness pressure and leakage tests
- Flush and sample new water mains with LCA personnel assistance
- Provide LCA with reports and project updates
- Review monthly payment applications and provide LCA with the approved quantities for payment
- Maintain marked up set of plans as record drawings
- Maintain list of punchlist items to be completed prior to Final Completion

This authorization is based on a maximum of 1020 inspection hours at a cost of \$62.00 per hour. No overtime or administrative costs will be billed to LCA for this project.

## Cost Estimate (not to be exceeded without further authorization): \$63,240.00

Time Table and Completion Deadline : On or before June 30, 2013 (Final Completion)

(For Authority Use Only)

**Authorization Completion :** 

