



LEHIGH COUNTY AUTHORITY

May 28, 2013

BOARD MEETING AGENDA

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

FINANCE AND ADMINISTRATION

- *Discussion of City of Allentown Transition Plan*

WATER

- *None*

WASTEWATER

- *None*

7. System Operations Overview
8. Staff Comments
9. Solicitor's Comments
10. Other Comments
11. Adjournment

JUNE MEETINGS

Workshop Meeting
Board Meeting

June 10 – 12:00 p.m.
June 24 – 12:00 p.m.

PUBLIC PARTICIPATION POLICY

In accordance with Authority policy, members of the public shall record their name, address, and discussion item on the sign-in sheet at the start of each meeting; this information shall also be stated when addressing the meeting. Members of the public will be allowed 5 minutes to make comments/ask questions regarding non-agenda items, but time may be extended at the discretion of the Chair; comments/questions regarding agenda items may be addressed after the presentation of the agenda item. Members of the public may not request that specific items or language be included in the meeting minutes.

FINANCE & ADMINISTRATION

ACTION ITEMS

1. *None.*

DISCUSSION ITEMS

1. *None.*

INFORMATION ITEMS

1. *None.*

WATER

ACTION ITEMS

1. *None*

DISCUSSION ITEMS

1. *None.*

INFORMATION ITEMS

1. **Phase 2 Interconnection with Allentown**

Livengood Excavators continues to address several punch-list items. **No Current Activity**

2. **Water Main Replacement Project – Oakland Park**

Final paving, lawn and driveway restoration has begun and will be completed by May 25. Final project closeout will occur by June 30.

3. **Arcadia West Pumping Station Modifications**

Comments on the pre-final plans and specifications were sent to T&M Associates in preparation for bidding. T&M Associates estimates that the general and electrical contracts will total \$863,000. Public Water Supply Construction Permit No. 3912505 was issued by the Department of Environmental Protection (DEP) on March 18, 2013.

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 (aka 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. The Agreement requires substantial completion of the project no later November 16, 2013

6. **Developments**

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 *(There has not been any construction activity at this development 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, UMiIT, water and sewer
Lehigh Hills, 247 residential lots (sfa/sfd), UMT
Liberty at Mill Creek, 2 industrial lots, UMT
Morgan Hills, 40 residential lots (sfd), WeisT, water and sewer
North Whitehall Commercial Center (Walmart), 5 commercial lots, NWT, water and sewer
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
Trexler Senior Living Center, 1 commercial lot, LMT
Weilers Road Twins, 82 residential lots (sfa), UMT
West Hills Business Center, 8 industrial lots, WeisT
Woodmere Estates, 60 residential units (sfd), UMT

WASTEWATER

ACTION ITEMS

1. None.

DISCUSSION ITEMS

1. None.

INFORMATION ITEMS

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

The following is work planned for 2013:

- Submission of reports to EPA and DEP.
- CCTV work in areas identified as have high leakage to determine the extent of the leakage. Malcolm Pirnie will review the CCTV video and determine a Basis of Rehab.
- Keystone Consulting Engineers (KCE) is generating the population projections for the LCA service area to be used in the Level of Service modeling.
- Completion of the Level of Service Modeling for future growth.
- Rehab effectiveness metering in Phase 1 pipe lining project areas to determine the reduction in peak flows as a result of the rehab work.
- Phase 2 of Signatory pipe lining projects as determined by KCE.
- Rehab effectiveness metering in Phase 2 pipe lining project areas.
- Alternative Modeling and feasibility analysis to evaluate the various alternatives to achieve the preliminary objectives. The alternatives will include various combinations of I & I elimination, storage and capacity increases.
- Long term flow meters will continue on a limited basis. Two rain gauges and meters remain in the system.
- Preliminary Program Objectives Evaluation Report will be submitted to DEP by the end of 2013. This document will define the current system performance and assess what it will take to achieve the system preliminary objectives. The report will include a discussion of the investigation and evaluation work completed including flow evaluation, SSES prioritization, modeling, current and future level of service, current and future system sizing requirements, and will propose the Level of Control for system operation.
- The development of the Capital Improvements Plan is scheduled to begin by the end of the year. This will identify the rehab needs, replacement needs, expansion requirements, costs of improvements and schedule for implementation to achieve the program objectives. **No Current Activity.**

2. **Wastewater Treatment Capacity**

The Memo of Understanding (MOU) regarding working together on a joint Act 537 Plan with the City has not been received to date.

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. DEP indicated water quality standards will be applicable to the plant effluent. We are requesting Reuse Standards which are less stringent. A meeting is scheduled with DEP in late May.

LCA purchased 100,000 gallons of allocation from Salisbury Township at \$6.00 per gallon. Brad reviewed the language in the Authority's Act restricting the sale of capacity to the cost the seller charges to their residential customers. Brad's finding is that the sale of the allocation is grandfathered under the provisions of (v) in the Authority's Act because the acquisition of the allocation was pursuant the 1981 City Agreement.

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. Arguments are scheduled to take place on Wednesday May 29, 2013 with Judge Edward Reibman presiding. Legal Briefs have been filed by the Friends of the Jordan, NWT and LCA. The Township will bear the burden of defending their decision.

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 while Wal-Mart internally reevaluates the proposed store's financial viability. **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. We hope to resolve this issue by the end of December 2012. **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 preliminary wastewater effluent discharge standards from DEP and has met with the Delaware River Basin Commission (DRBC) to discuss water quality modeling requirements for a discharge on the Coplay Creek. A conceptual short term service area collector system layout has also been developed. **No current activity.**

4. **Arcadia West WWTP Improvements**

Construction activity has started at the site. Erosion and Sedimentation plans have been implemented and field offices are in place. Anticipated activities for May include assembly of the precast reactor units and piping installation. Staff has postponed PennVest Settlement to June 19. The total project cost estimate is \$3,502,300.

Change Orders to date:

Contract 1, CO#1 – Establishes deadline for Substantial and Final Completions. November 26, 2013 and January 25, 2014, respectively. No price adjustment.

Contract 2, CO#1 – Establishes deadline for Substantial and Final Completions. November 26, 2013 and January 25, 2014, respectively. No price adjustment.

Contract 1, CO#2 – Adjustment in Prevailing Wage Rates from bid opening date to start of construction. Increase of \$7,952.13.

Contract 1, CO#3 – Adjustment in contract price to accommodate accent stripe on new block structure. Increase of \$913.50.

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

Staff has reviewed the Preliminary Technical Memorandum and returned comments to our consultant Cowan Associates, Incorporated (CA). Of the pump station types evaluated a below grade self contained pump station was determined to be the best option. CA also evaluated the existing aged force main which was constructed by the developer of different types and pressure classifications of pipe. They have recommended that it should be replaced to mitigate the potential for continued failure; increase hydraulic capacity; and with a change in location provide future ease of maintenance. The pump station design and force main evaluation was previously authorized by the Board. A Project Authorization Amendment for force main design is anticipated for action at the in June Workshop. **No current activity**

6. **Park Pump Station Improvements**

Fuel Tank Replacement – Staff has received and is reviewing the plans for replacement of the fuel tank at the Park Pump Station. Additional easement area from the City of Allentown (COA) has finally been acquired. The project team is reviewing schedules in anticipation to going to bid in June. **No current activity**

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 75% complete, as most of it could be accomplished without draining the digesters. OMI, our WTP contract operator, has finally completed draining the contents of the first digester which is necessary to facilitate mixer installation. The General contractor started the installation of mixers in the first digester on April 8th. 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 1st quarter of 2014.

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. We are awaiting PPL approval of the methodologies for verifying electrical savings. **No current activity.**

8. *Vera Cruz Area Sewer Project*

All construction for this project was completed in 2012. Staff is working with contractors, suppliers and professional services to close out all documentation required by the funding agencies. All but 13 connections have been completed.



**Lehigh County Authority
Regular Board Meeting
May 28, 2013**

Allentown Lease Discussion

1. Status Update
2. LCA Charter Extension
3. Bond Resolution
4. Staffing Plan – Organizational Chart
5. Budget Amendment