EAST GOSHEN MUNICIPAL AUTHORITY May 14, 2012

Monday 6:00 PM

The Meeting will start at 6:00 at the Ridley Creek Plant

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE

a. Ask if anyone will be taping the meeting?

2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS

- 3. APPROVAL OF MINUTES
 - a. April 9, 2012
- 4. APPROVAL OF INVOICES

a.	Pennoni #504741	\$ 1,089.00
b.	Pennoni #504742	\$ 5,835.00
C.	Pennoni #504744	\$ 10,348.75
d.	Pennoni #504746	\$ 3,035.25
e.	Gawthrop Greenwood #98012	\$ 152.00
f.	Gawthrop Greenwood #98989	\$ 703.00

- 5. LIAISON REPORTS
- 6. FINANCIAL REPORTS
 - a. Memo from Jon Altshul
 - b. RCSTP Budget
- OLD BUSINESS
 - a._Clinger invoice response
- GOALS
 - a. April Goals
- NEW BUSINESS
- 10. CAPACITY REQUESTS none
- SEWER REPORTS
 - a. Director of Public Works Report
 - b. Pennoni Report Inspection Report
 - c. Pennoni Engineer's Report
 - d. Big Fish Environmental Inc Report with DMR's
 - e. East Goshen Township Flows for April 2012
- 12. ANY OTHER MATTER
- 13. CORRESPONDENCE AND REPORTS OF INTEREST
- 14. PUBLIC COMMENT
- ADJOURNMENT

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<u>Reminder</u> — NEWSLETTER ARTICLE SUBMISSION DUE DATES:

Article Due Date

Website Posting Date
July 1, 2012 - Summer

1 draft 2 EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY 3 **MEETING MINUTES** 4 **April 9, 2012** 5 6 The East Goshen Township Municipal Authority held their regularly scheduled meeting on 7 Monday, April 9, 2012 at 7:00pm at the East Goshen Township building. Members in attendance were: Chairman Dana Pizarro, Joe McCawley, Jack Yahraes, and Fran Beck. Also in 8 9 attendance were: Rick Smith (Township Manager), Bob Adams, and Scott Towler. 10 11 Call to Order & Pledge of Allegiance 12 Dana called the meeting to order at 7:00pm and led those present in the Pledge of Allegiance. There was a moment of silence to remember the troops. Dana asked if anyone would be 13 14 recording the meeting and there was no response. 15 16 Chairman's Report/Other Members' Reports 17 Jack attended the West Goshen Municipal Authority meeting and provided copies of the minutes. 18 19 Approval of Minutes The Chairman noted that the minutes of the March 12, 2012 meeting were approved. 20 21 22 Approval of Invoices 23 Joe moved to approve payment of the following invoices: 24 Pennoni #501139, a. \$1,366.00 25 b. Pennoni #501140, \$ 472.50 26 Pennoni #501141, c. \$1,422.00 27 \$1,210.00 d. Pennoni #501142 28 e. Pennoni #501143 \$ 442.75 29 f. Pennoni #501144 \$3,319.00 30 Gawthrop #97574 g. \$1,083.00 31 32 Fran seconded the motion. There was no further discussion. The motion passed unanimously. 33 34 Liaison Reports - None 35 36 <u>Financial Reports</u> — The financial reports were reviewed. Fran voiced his concern about the current format of the report and his hope that the new CFO will provide monthly reports every 37 month. He received a questionnaire from the auditors and hesitant to respond. Fran feels he 38 39 does not have enough knowledge of the Authority's finances to answer. Rick explained how the accounting system works (cash vs accrual). Dana asked Rick to invite the new CFO to the next 40 41 meeting. 42 43 **Old Business - None** 44 45 Goals

1. Newsletter – Jack will prepare the article for the summer newsletter.

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2. Joe will attend the June 6th West Goshen meeting and Dana will attend the 1 2 September meeting. 3 4 New Business 5 None 6 7 **Capacity Requests** 8 None. 9 10 Sewer Reports 11 a. Mark Miller, Director of Public Works Report: 12 During the month of March, they were busy with lateral repairs and working with 13 Scott Towler performing maintenance at the plant. Scott has done an excellent job 14 turning the plant around. They met with Dan Ellis to discuss the final Chapter 94 report. They decided to 15 16 continue with the metering of the sewer system. They are going to begin monitoring 17 the Chester Creek system. During the meeting they discussed metering at the plant as they currently have a portable meter out in the wet lands. The reason for this meter is 18 to get actual plant flow since the current meter is on the pump discharge side of the 19 20 plant. Currently they are reading the backwash from the filters and centraite from the 21 centrifuge. 22 Mark recommends purchasing a permanent meter. He asked Allied Control to take a look at the manhole where we would like to install the meter and submit a quote. 23 24 Aqua Waste Water had to be utilized to clean SBR#1 as there was over a foot of grit 25 throughout the tank. Worth has been notified of some problems with the decanter in the SBR, plus they need to install some additional brackets on the pump glide system. 26 Meters - Were read on a daily basis, no problems to report. In the next two weeks 27 28 they will be relocating the portable meters. 29 C.C. Collection - They had to excavate two sewer laterals due to root penetration. 30 Once the laterals were excavated, a new trap and cleanout were installed. The 31 pumping stations were visited on a daily basis where routine maintenance was 32 performed. 33 R.C. Collection - The Hunt Country pumping station was visited on a routine basis for basic maintenance. They are going to continue to use augmentation to break 34 35 down the grease. 36 Alarms - They received 18 alarms for the month; several were due to a tree that came 37 down on Morstein Road causing a power outage at the Barkway Pumping Station. 38 PA One Call – There were 35 PA One calls for the month of March. 39 The Public Works Department was notified of 7 sewer lateral blockages for the month of March, all were cleared with the exception of the two that had to be dug. 40 41 42 b. Pennoni inspection report was reviewed. This report of the Ridley Creek Sewage 43 44

- Treatment Plant was done in order to document existing conditions under Miller Environmental's operation of the plant.
- c. Dan Barbato provided the following report: <u>Invoices</u> - with summaries were provided under separate cover.

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Ridley Creek Sewage Treatment Plant -

• Pennoni design engineer Tim Daily met with Scott Towler at the plant on March 23 to review current operations and clarify the intent of the design. Dan Barbato has been in contact with Scott Towler for coordination. The new NPDES permit went into effect on March 1. Phosphorous effluent limits are currently being met without the use of alum, and nitrogen effluents limits are being met. The centrifuge was under near-continuous operation and the solids inventory being reduced to acceptable levels and age. The interior of the SBR Unit #1 will be inspected by Matt McAloon on Aril 6, pending confirmation of available access by the operator. The plant is currently operating as intended by the design. Will inspect the plant again when the plant returns to a "normal" condition and make a comparison of current conditions to the conditions encountered under the previous operator.

I/I Metering Project

We analyzed flow data from the 11 permanent meters throughout the Chester Creek Service Area for the entirety of 2011. Instantaneous and hourly flows are not recorded on these meters, so we were only able to analyze the daily meter totalizer records. Only a rough flow analysis was performed since inflow peaks and continuous base flows are unknown. It appears the following two areas may have I/I problems based upon apparent excessive daily flows per tributary land area: 1) the southwest corner of East Goshen Township which is generally bounded by East Strasburg Road to the north, the reservoir to the east, and township borders to the south and west; (2) an area bounded by Paoli Pike to the north, North Chester Road to the east, East Strasburg Road to the south, and Ellis Lane to the west. We recommend the Township install four temporary meters in strategic locations within these subareas over the next six month to identify potential I/I sources.

Dana will email Dan with his questions about the flows and the meters.

Ridley Creek Consent Order

• The final report was submitted to DEP on March 29, 2012. Reports after this date will continue to be prepared semi-annually but they will not be submitted to DEP semi-annually. They will be used for internal Authority use and Chapter 94 Annual Reporting only.

LCSTP Elimination

- A pre-construction meeting was held with the Township, Pennoni, the contractor, SJM Construction Co, Inc, and the Chester County Conservation District (CCCD) on March 28, 2012. The contractor tentatively intends to start construction in mid-April and anticipates 30-60 days to complete the work. The required contract completion date is July 2, 2012
- The contractor has provided construction submittals. We have reviewed the submittals, and we provided comments to the contractor. The contractor has also filled out the NPDES Co-Permittee Application and has forwarded it to the Township for signature and eventual submission to the CCCD.
- We prepared a Construction Issue set of plans and specifications to incorporate the various addenda into one set of plans and specifications. We also prepared a CAD

file and survey control data and coordinates, which we forwarded to the contractor for his use in construction stakeout.

Hershey Mill PS Diversion, Reserve PS Elimination Planning

• We have prepared draft plans and draft applications for DEP General Permits (GP) for stream crossings. We are coordinating with DEP regarding permit requirements for PNDI, bog turtle screenings, and wetland delineations since all utility stream crossings are proposed via trenchless technologies (directional drilling for the Hershey Mill PS Diversion and jack & bore for the Reserve PS Diversion). Once direction is received from DEP (and possibly the Army Corps of Engineers), we will finalize and submit the GP applications.

Marydell PS Elimination Planning

• We have prepared draft plans and a draft Penn DOT Highway Occupancy Permit (HOP) application. We are coordinating with PECO regarding mitigation of impacts to overhead utility poles given the proximity of the proposed sewer to the poles. The PECO coordination may impact the HOP application, such as modifications to the exact sewer location. Upon resolution of any such PECO issues, we will finalize and submit the HOP application.

Annual Chapter 94 Reports

- The Chapter 94 reports for the Westtown Service Area and Lockwood Chase STP were prepared and submitted to DEP on March 30, 2012. DEP received them on April 2, 2012. Following receipt of all required information from the Township and operator, the Chapter 94 Reports for the Ridley Creek STP and the West Goshen Service Area were prepared and delivered to DEP on April 4, 2012.
- A new influent metering and organic sampling location is needed at the Ridley Creek STP in order to satisfy DEP's new Chapter 94 requirements. We have discussed the best location with Public Works, and we will forward a recommendation letter to the Authority prior to the April 9, 2012 meeting.
- **c. Big Fish Environmental Services, Inc.** Scott Towler gave the following report on plant operations for March 2012:

Operations and Solids Dewatering/Disposal – Sequencing batch reactors (SBRs) numbered 2, 3 and 4 were in service treating wastewater. SBR #1 was off line and serving as a sludge storage tank. During the month, process control testing continued to monitor the (MLSS) concentrations, pH, total alkalinity, chemical oxygen demand (COD), settleability, ammonia as nitrogen, nitrite as nitrogen, nitrate as nitrogen, sludge volume index (SVI), F:M ratio, depth of clear water as measured from the water. The influent and effluent composite samples were regularly monitored for pH, total alkalinity, ammonia as nitrogen, COD and total Phosphorus. Additional analysis of the effluent was consistently very good during the month. During the month, one key operational set point was established. This operational set point is maintain the pH and total alkalinity concentrations in the SBRs at no less than 7.0 S.U. and 300 mg/L as CaCO3. Maintaining these parameters within the minimum range contributed to improving the nitrification process, settleability and phosphorus removal. Effluent sample data for total phosphorus is reported as 0.28 mg/L without the addition of aluminum sulfate. The monthly average will be finalized upon receipt of the sample collected on March 29 and is anticipated to be close to the effluent limitation of 0.5 mg/L.

1 The effluent discharge will achieve compliance with the CBOD5, TSS, ammonia as 2 nitrogen, fecal coliform, pH, dissolved oxygen for the month of March 2012. A draft 3 summary is attached for review. A summary of the influent and effluent sample data for the month of February 2012 is 4 attached for review. The eDMR and supplemental reports for February 2012 have been 5 prepared and submitted by representatives from MEI. 6 7 Solids Dewatering - During the period for February 22 through March 31, a total of 947,644 gallons of sludge were metered to have been processed through the centrifuge 8 9 sludge dewatering unit. A total of 34 dumpsters of dewatered sludge at approximately 10 437 tons were land filled. Three hundred and eighty-two (382) man hours were expended 11 towards dewatering the sludge in SBR1, sludge holding tanks 1 & 2. 12 Maintenance, Repairs & Warranty -SBR1 requires one replacement decanter valve assembly - Worth & Co. informed 13 14 Centrifuge replacement parts - Worth & Co. to replace parts used for warranty repair 15 JWC fine screen has a failed UPS - Worth & Co. informed 16 JWC fine screen upstream transducer - replacement connection on order 17 SBR and Centrifuge MCC panel hours meters - Worth & Co. informed 18 19 Discussion: Scott reported that both sludge tanks are empty and will be cleaned to get 20 ideal conditions. Dana asked Scott to add a line item in the spreadsheet for design basis 21 vs permit basis. Scott will get 94 readings. Scott reported that Worth has a list of 22 warranty issues. Scott recommends getting a permanent influent inflow meter which 23 would cost about \$5,000. Mark or Rick will get a proposal for the next meeting. 24 25 Any Other Matter - None 26 27 Correspondence and Reports of Interest 28 Letter to residents about a Zoning Hearing Board application 1. 29 Consent Order & Agreement Semi-Annual Corrective Action Status Report #07 2. 30 31 **Public Comment** – None

33 Adjournment

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The May 14th meeting will start at 6:00 p.m. at the Ridley Creek Sewer Plant.

There being no further business, Joe moved to adjourn the meeting. Jack seconded the motion. The motion passed unanimously. The meeting was adjourned at 8:15pm.

38 Respectfully submitted,

4041 Ruth Kiefer42 Recording Secretary



302-655-4451 Fax: 302-654-2895

Remit Payment To: Pennoni Associates Inc. P.O. Box 827328 Philadelphia, PA 19182-7328

East Goshen Municipal Authority 1580 Paoli Pike West Chester, PA 19380-6199 Attention: Louis F. Smith, Twp Mgr.

Invoice #: 504741 Invoice Date: 04/26/2012

Project: EGMA1105

Project Name: LCSTP Final Design & Permitting

For Services Rendered through: 04/15/2012

Prepared Construction Issue plans and specifications.

Phase: 2 -- Sewer Stakeout and Easements

Total Phase: 2 -- Sewer Stakeout and Easements

Labor: Expense: 1,089.00

0.00

Phase Total:

1,089.00

Amount Due This Invoice

\$1,089.00

Fee:

77,800.00

Prior Billings:

59,048.88

Current Billings:

1,089.00

Total Billings:

60,137.88

Phase: 2 -- Sewer Stakeout and Easements

Labor Hours/ Amount Class Units Rate 93.00 Project Engineer 1.00 93.00 996.00 12.00 83.00 Associate Engineer 13.00 1,089.00 Labor Total:

Total Phase: 2 -- Sewer Stakeout and Easements

Labor :

\$1,089.00

Expense:

\$0.00

Total Project : EGMA1105 -- LCSTP Final Design & Permitting

Labor:

\$1,089.00

Expense:

\$0.00

East Goshen Municipal Authority EGMA1105 Invoice Summary Invoice Date 04/26/12

Project :	LCSTP Final Design & Permitting
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Pennoni Job No.: EGMA1105

Invoice No.: 504741

Invoice Period :	3/18/2012	to	4/15/2012
Initial Authorization:	\$ 77,800.00	Date:	5/5/2011

Changes: \$ - Date:

Contract Amount: \$ 77,800.00

Previously Invoiced: \$ 59,048.88

Current Invoice: \$ 1,089.00

Invoiced to Date (\$): \$ 60,137.88

Invoiced to Date (%): 77%

Remaining Budget (\$): \$ 17,662.12

Remaining Budget (%): 23%

Budget by Phase:

Phase No. ****

LCSTP Final

Phase Name: Design &

Phase Budget: \$ 77,800.00
Previousy Invoiced: \$ 59,048.88
Current Invoice: \$ 1,089.00
Invoiced to Date (\$): \$ 60,137.88
Invoiced to Date (%): 77%

Remaining Budget (\$): \$ 17,662.12 Remaining Budget (%): 23%

Comments: Prepared Construction Issue plans and specifications.



INVOICE Newark, DE 302-655-4451 Fax: 302-654-2895

Remit Payment To: Pennoni Associates Inc. P.O. Box 827328 Philadelphia, PA 19182-7328

East Goshen Municipal Authority

1580 Paoli Pike

West Chester, PA 19380-6199

Attention: Louis F. Smith, Twp Mgr.

Invoice #: 504742

Invoice Date: 04/26/2012

Project : EGMA1107

Project Name: HersheyMill &Reserve PS Div Des

Per

For Services Rendered through: 04/15/2012

Phase: 1 -- Design

Prepared draft permit/construction plan sets for Reserve PS Diversion and Hershey Mill PS Diversion; performed PA One Call and initiated existing utility for both projects; prepared draft DEP General Permit GP-5 "Utility Line Stream Crossings" applications for both projects and DEP General Permit GP-8 "Temporary Road Crossings" application for Hershey Mill PS Diversion including PNDI searches and PNDI-required potential impact submission to PA Dept. of Conservation and Natural Resources (DCNR).

Total Phase: 1 -- Design

Labor:

4,382.50

Expense : Phase Total : 0.00 4,382.50

Phase: 4 -- E&SPC Permitting

Total Phase: 4 -- E&SPC Permitting

Labor:

207.50

Expense:

0.00

Phase Total:

207.50

Phase: 6 -- PADEP General Permits

Total Phase: 6 -- PADEP General Permits

Labor:

1,245.00

Expense :

0.00

Phase Total:

1,245.00

Amount Due This Invoice

\$5,835.00

Fee:

60,200,00

Prior Billings:

8,352.50

Current Billings:

5,835.00

Total Billings:

14,187.50

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5-11-12

SPLIT

7427-1000

\$ 2917.50

7426-1000

\$ 2917.50

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INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

Project: EGMA1107 HersheyMill &F	<u>Reserve PS Div I</u>	Des Per	Invoic	e # : 504742
Continued from previous page				
Phase: 1 Design				
Labor Class	Hours/ Units	Rate		· Amount
Project Engineer	2.50	93.00		232.50
Associate Engineer	50.00	83.00		4,150.00
Labor Total:	52.50			4,382.50
Total Phase : 1 Design			Labor :	\$4,382.50
-	O.A.		Expense :	\$0.00
Phase : 4 E&SPC Permitting				
Labor Class	Hours/ Units	Rate		Amount
Associate Engineer	2.50	83.00		207.50
Labor Total:	2.50			207.50
Total Phase : 4 E&SPC Permitting			Labor :	\$207.50
			Expense :	\$0.00
Phase : 6 PADEP General Permits				
Labor	Hours/			
Class	Units	Rate		Amount
Associate Engineer	15.00	83.00		1,245.00
Labor Total:	15.00			1,245.00

Total Phase: 6 -- PADEP General Permits

Total Project : EGMA1107 -- HersheyMill &Reserve PS Div Des Per

\$1,245.00

\$5,835.00

\$0.00

\$0.00

Labor:

Labor:

Expense:

Expense:

East Goshen Municipal Authority EGMA1107 Invoice Summary Invoice Date 04/26/12

Project: Hershey Mill & Reserve PS Diverse Design & Permitting

Pennoni Job No.: EGMA1107

Invoice No.: 504742

Invoice Period: 3/18/2012 to 4/15/2012 Initial Authorization: \$ 60,200.00 Date: 7/7/2012

Changes: \$ - Date:

\$ Contract Amount: 60,200.00 Previously Invoiced: \$ 8,352.50 Current Invoice: 5,835.00 Invoiced to Date (\$): 14,187.50 Invoiced to Date (%): 24% Remaining Budget (\$): 46,012.50 Remaining Budget (%): 76%

Budget by Phase:

Phase No. 01

Hershey Mill &

Phase Name: Reserve PS

Phase Budget: \$ 60,200.00
Previousy Invoiced: \$ 8,352.50
Current Invoice: \$ 5,835.00
Invoiced to Date (\$): \$ 14,187.50
Invoiced to Date (%): 24%

Remaining Budget (\$): \$ 46,012.50 Remaining Budget (%): 76%

Comments: Prepared draft permit/construction plan sets for Reserve PS Diversion and Hershey Mill PS Diversion; performed PA One Call and initiated existing utility for both projects and DEP General Permit GP-8 "Temporary Road Crossings" application for Hershey Mill PS Diversion including PNDI searches and PNDI-required potential



INVOICE 302-655-4451 Fax: 302-654-2895

Remit Payment To: Pennoni Associates Inc. P.O. Box 827328 Philadelphia, PA 19182-7328

East Goshen Municipal Authority 1580 Paoli Pike West Chester, PA 19380-6199

Attention: Louis F. Smith, Twp Mgr.

Invoice #: 504744 Invoice Date: 04/26/2012 Project: EGMA1202

Project Name: 2012 COA and I&I Reports

For Services Rendered through: 04/15/2012

Analyze portable flow meter date and permanent flow meter data; attend CO&A status review meeting with M. Miller and R. Smith; prepare and submit CO&A Status Report #07 (Final) to DEP.

Phase: **** -- Professional Services

Total Phase : **** -- Professional Services

Labor: 4,152.25 0.00 Expense:

Phase Total: 4,152.25

Amount Due This Invoice \$4,152.25

13,000.00 442.75

Prior Billings: 4,152.25 Current Billings: 4,595.00 Total Billings:

Phase: **** -- Professional Services

Labor Hours/ Amount Class Units Rate 220.00 **Authority Engineer** 2.00 110.00 93.00 3,557.25 Project Engineer 38.25 375.00 Technical Specialist 5.00 75.00 4,152.25 Labor Total: 45.25

\$4,152.25 Total Phase: **** -- Professional Services Labor: \$0.00 Expense:

Labor: \$4,152.25 Total Project: EGMA1202 -- 2012 COA and I&I Reports

Expense: \$0.00

0724- 3130

East Goshen Municipal Authority EGMA1202 Invoice Summary Invoice Date 04/26/12

Project: 2012 COA and I&I Reports

Pennoni Job No.: EGMA1202

Invoice No.: 504744

Invoice Period: 3/18/2012 to 4/15/2012 Initial Authorization: \$ 13,000.00 Date: 1/5/2012

Changes: \$ - Date:

\$ 13,000.00 **Contract Amount:** \$ 442.75 Previously Invoiced: \$ Current Invoice: 4,152.25 Invoiced to Date (\$): 4,595.00 Invoiced to Date (%): 35% \$ Remaining Budget (\$): 8,405.00 Remaining Budget (%): 65%

Budget by Phase:

Phase No. ****

2012 COA and

Phase Name: 1&1 Reports

Phase Budget: \$ 13,000.00

Previousy Invoiced: \$ 442,75

Current Invoice: \$ 4,152.25

Invoiced to Date (\$): \$ 4,595.00

Invoiced to Date (%): 35%

Remaining Budget (\$): \$ 8,405.00 Remaining Budget (%): 65%

Comments: Analyze portable flow meter date and permanent flow meter data; attend CO&A status review meeting with IVI. Miller and R. Smith; prepare and submit CO& A Status Report #07 (Final) to DEP.



INVOICE Newark, DE 302-655-4451 Fax: 302-654-2895

Remit Payment To: Pennoni Associates Inc. P.O. Box 827328 Philadelphia, PA 19182-7328

East Goshen Municipal Authority 1580 Paoli Pike West Chester, PA 19380-6199

West Chester, PA 19380-6199 Attention: Louis F. Smith, Twp Mgr. Invoice #: 504745 Invoice Date: 04/26/2012

Project : EGMA1203 Project Name : 2011 Chapter 94

For Services Rendered through: 04/15/2012

Prepared and submitted 2011 Chapter 94 Annual Reports for Ridley Creek STP, Lockwood Chase STP, West Goshen Service Area, and Westtown Service Area (four seperate reports) in DEP's requied new format; coordinated with Township, contract operator, lab, and DEP to identify and obtain required information for reporting; analyzed existing hydraulic and organic loadings and projected future loadings.

Phase: **** -- Professional Services

Total Phase: **** -- Professional Services

Labor: 10,348.75

Expense : 0.00

Phase Total: 10,348.75

Amount Due This Invoice

\$10,348.75

Fee: 14,000.00
Prior Billings: 3,319.00
Current Billings: 10,348.75
Total Billings: 13,667.75

Phase: **** -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	0.50	110.00	55.00
Project Engineer	43.75	93.00	4,068.75
Technical Specialist	83,00	75.00	6,225.00
Labor Total:	127.25		10,348.75

Total Phase: **** -- Professional Services Labor: \$10,348.75

Expense: \$0.00

Total Project : EGMA1203 -- 2011 Chapter 94 Labor : \$10,348.75

Expense: \$0.00

765 5-11-12 7424 -3136

East Goshen Municipal Authority EGMA1203 Invoice Summary Invoice Date 04/26/12

Project :	201	1 Chapter 94		
Pennoni Job No. :	EGN	MA1203		
Invoice No. :	504	745		
Invoice Period :	113	3/18/2012	to	4/15/2012
Initial Authorization:	\$	14,000.00	Date:	1/5/2012
Changes:	\$)	Date:	
Contract Amount :	\$ \$ \$	14,000.00		
Previously Invoiced:	\$	3,319.00		
Current Invoice :	\$	10,348.75		
Invoiced to Date (\$):	\$	13,667.75		
Invoiced to Date (%):		98%		
Remaining Budget (\$):	\$	332.25		
Remaining Budget (%):		2%		
Budget by Phase :				
Phase No.		***		
	20	11 Chapter		
Phase Name :		94		
Phase Budget:	\$	14,000.00		
Previousy Invoiced:	\$	3,319.00		
Current Invoice :	\$	10,348.75		
Invoiced to Date (\$):	\$	13,667.75		
Invoiced to Date (%):		98%		
Remaining Budget (\$):	\$	332.25		
Remaining Budget (%):		2%		

Comments: Prepared and submitted 2011 Chapter 94 Annual Reports for Ridley Creek STP, Lockwood Chase STP, West Goshen Service Area, and Westtown Service Area (four separate reports) in DEP's required new format; coordinated with Township, contract operator, lab, and DEP to identify and obtain required information for reporting; analyzed existing hydraulic and organic loadings and projected future loadings.



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Remit Payment To: Pennoni Associates Inc. P.O. Box 827328 Philadelphia, PA 19182-7328

East Goshen Municipal Authority 1580 Paoli Pike

West Chester, PA 19380-6199 Attention: Louis F. Smith, Twp Mgr. Invoice #: 504746 Invoice Date: 04/26/2012

Project: EGMA1204
Project Name: Lockwood Chase Construction

Phase S

For Services Rendered through: 04/15/2012

Issued Notice to Proceed; prepared listing of required construction submittals for contractor; reviewed construction submittals and shop drawings; prepared NPDES Co-Permittee application paperwork; prepared for and attended pre-construction meeting on-site; follow-up to pre-construction meeting including review of proposed manhole elevation near detention basin, advise PW Dept. on maximizing LCSTP spray rate to dewater lagoon and pond, NPDES plan reproduction, etc.; prepared project CAD file for contractor's surveyor.

Phase: **** -- Professional Services

Total Phase: **** -- Professional Services Labor:

Expense: 0.00

3,035.25

Phase Total: 3,035.25

Amount Due This Invoice \$3,035.25

Fee: 16,000.00

Prior Billings : 920.25
Current Billings : 3,035.25
Total Billings : 3,955.50

Phase: **** -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Project Engineer	23.50	93.00	2,185.50
Associate Engineer	0.75	83.00	62.25
Technical Specialist	10.50	75.00	787.50
Labor Total:	34.75		3,035.25

Total Phase: **** -- Professional Services Labor: \$3,035.25

Expense: \$0.00

Total Project : EGMA1204 -- Lockwood Chase Construction Phase S Labor : \$3,035.25

Expense: \$0.00

010 RS 5-11-12 7424 - 7475

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

East Goshen Municipal Authority EGMA1204 Invoice Summary Invoice Date 04/26/12

Project: Lockwood Chase Construction Phase S

Pennoni Job No. : EGMA1204 Invoice No. : 504746

Invoice Period: 3/18/2012 to 4/15/2012 Initial Authorization: \$ 16,000.00 Date: 2/15/2012

Changes: \$ - Date:

16,000.00 Contract Amount: \$ Previously Invoiced: 920.25 \$ Current Invoice: 3,035.25 Invoiced to Date (\$): \$ 3,955.50 Invoiced to Date (%): 25% Remaining Budget (\$): 12,044.50 Remaining Budget (%): 75%

Budget by Phase:

Phase No. ****

Lockwood

Phase Name : Chase

Phase Budget: \$ 16,000.00

Previousy Invoiced: \$ 920.25

Current Invoice: \$ 3,035.25

Invoiced to Date (\$): \$ 3,955.50

Invoiced to Date (%): 25%

Remaining Budget (\$): \$ 12,044.50

Remaining Budget (%): 75%

Comments: Issued Notice to Proceed; prepared listing of required construction submittals for contractor; reviewed construction submittals and shop drawings; prepared NPDES Co-Permittee application paperwork; prepared for and attended pre-construction meeting on-site; follow-up to pre-construction meeting including review of proposed manhole elevation near detention basin, advise PW Dept. on maximizing LCSTP spray rate to dewater lagoon and pond, NPDES plan reproduction, etc.; prepared project CAD field for contractor's surveyor.



RFA

Gawthrop Greenwood, PC Attorneys at Law

17 East Gay Street, Suite 100 West Chester, PA 19381-0562 gglaw@gawthrop.com

(p) 610-696-8225 (f) 610-344-0922 www.gawthrop.com

East Goshen Municipal Authority 1580 Paoli Pike West Chester PA 19380 Page: 1 03/31/2012 Client No: 6604-01M

152.00

Invoice No. 98012

Hours

General Authority Services

Fees

03/12/2012 RFA Review packet for Authority meeting of 3/12/12. 0.50
03/21/2012

Review letter from M. Ellis. 0.30
For Current Services Rendered 0.80

Recapitulation

For Current Services Rendered 0.80

Timekeeper Hours Hourly Rate Total 0.80 \$190.00 \$152.00

Previous Balance \$1,083.00

Total Current Charges 152.00

Balance Due \$1,235.00

Oleto PAY \$ 15200 RS



04/16/2012

Gawthrop Greenwood, PC Attorneys at Law

17 East Gay Street, Suite 100 West Chester, PA 19381-0562 gglaw@gawthrop.com | www.gawthrop.com

(p) 610-696-8225 (f) 610-344-0922

East Goshen Municipal Authority 1580 Paoli Pike West Chester PA 19380

Page: 1 04/30/2012

Client No: Invoice No. 6604-01M 98989

General Authority Services

Fees

Hours 04/02/2012 0.30 Review letter from M. Ellis of 3/29 to DEP. **RFA** 04/09/2012 Review packet for Authority meeting of 4/9; attend regular meeting RFA 2.60 of Authority. 551.00 2.90 For Current Services Rendered

Recapitulation Total Hourly Rate Hours \$551.00 Timekeeper \$190.00 2.90 Robert F. Adams

> \$1,235.00 Previous Balance

> 551.00 **Total Current Charges**

Fee Payment Balance Due

-1,083.00 \$703.00

OKTS 5/10/12

Memo

To: ABCs

From: Jon Altshul, CFO
Re: Financial reports
Date: April 17, 2012

I would like to attend the May meeting of each ABC to introduce myself to all of you as the new township CFO and gather feedback and suggestions about both the content and format of your financial reports.

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2012
RCSTP BUDGET

			Annual		
Account Title	Acct	#	Budget	M-T-D	Y-T-D
REVENUE					
INTEREST EARNED - RCSTP EXPANSION	07341	1020		10	35
GRANT REVENUE	07392	0800			
TOTAL REVENUE				10	35
EXPENSES					
R.CCAP. PROJENGINEER	07424	7451			
R.C. CAP EXPANSION GEN'L CONTRACTOR	07424	7452			
R.C. CAP EXPANSION - ELECTRICAL	07424	7453			
R.C. CAP EXP CONTINGENCY CAPITAL	07424	7454			
R.C. CAP EXP CONTINGENCY ONGOING	07424	7455			
R.C. CAP EXP ADDITIONAL CONTINGENCY	07424	7456			
TRANSFER TO AUTHORITY CAP FUND	07492	0990			
TOTAL EXPENSES					0
NET RESULT				10	35

EAST GOSHEN TOWNSHIP Municipal Authority April 2012 OPERATING BUDGET

		Annual		•
Account Title	Acct #	Budget	M-T-D	Y-T-D
D. Tro Profession				
REVENUE INTEREST EARNINGS	07341 1000		5	6
C.C. TAPPING FEES	07364 1100	2 000	J	•
	07364 1110	•		
R.C. TAPPING FEES	07364 1110	2,000		846
CONNECTION FEES - SEWER		1 000		423
MISCELLANEOUS REVENUE	07380 1000	•		
TRANSFER FROM SEWER OPERATING	07392 0500	125,000		30,700
TOTAL REVENUE		130,000	5	31,975
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	•		8,392
MISCELLANEOUS EXPENSE	07424 3000	•		950
MUNIC.AUTHAUDITING	07424 3110			
ENGINEERING SERVICES		37,066		6,374
LEGAL SERVICES	07424 3140	12,485	1,083	2,909
M.CDVRFA-DEBT SERVICE	07471 1000	19,600		
M.CDVRFA-INTEREST PAYMN	07472 1000	6,981		
TOTAL EXPENSES		126,806	6,055	18,625
NET RESULT		3,194	(6,050)	13,351

EAST GOSHEN TOWNSHIP Municipal Authority April 2012 CAPITAL BUDGET

Account Title	Acct #	;	Annual Budget	M-T-D	Y-T-D
REVENUE					
LOAN PROCEEDS-SEWER PROJECT	07392 0	804			
TOTAL REVENUE					0
EXPENSES					
MARYDELL PUMP STATION - ENGINEER	07425 1		51,764	1,422	2,232
MARYDELL PUMP STATION -CONSTRUCTION			170,000		
LOCHWOOD ABANDONMENT ENGINEER	07424 7	475	37,553	1,366	15,722
LOCHWOOD ABANDONMENT CONSTRUCTION	07424 7	476	411,000		
HERSHEY MILL STATION - ENGINEER	07426 1	.000	29,069		2,337
HERSHEY MILL STATION - CONSTRUCTION			46,000		
RESERVE PUMP STATION - ENGINEER	07427 1	.000	29,069	473	1,078
RESERVE PUMP STATION - CONSTRUCTION	07427 2	000	93,000		
RESERVOIR PUMP STATION - ENGINEER	07428 1	.000			
RESERVOIR PUMP STATION CONSTRUCTION	07428 2	000			
TOTAL EXPENSES			867,455	3,261	21,368
NET RESULT			(867,455)	(3,261)	(21,368)

07424-7475 LOCHWOOD ABANDONMENT ENGINEER

1202 31393 2,600.00

PAGE 1 Report Date 05/11/12 GL Transaction Details Acct # Per Src Trx # Debits Credits Beg/End Bal Date Check/Ref # ID # Name/Description 07424-1400 ADMINISTRATIVE WAGES 0.00 03/13/12 2085 425 EAST GOSHEN TOWNSHIP 1203 CD 31601 8,391.94 1ST QTR.2012 MUNICIPAL AUTHORITY EXPENSES 8,391.94 0.00 8,391.94 8,391.94 0.00 8,391.94 07424-3000 MISCELLANEOUS EXPENSE 0.00 01/06/12 2081 2132 PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 1201 30772 950.00 2012 ACTIVE MEMBERSHIP DUES 0.00 950.00 950.00 0.00 950.00 07424-3130 ENGINEERING SERVICES 0.00 1202 31393 220.00 02/22/12 2084 1052 PENNONI ASSOCIATES INC. SERV.THRU 1/15/12 2011 ANNUAL SE 220.00 0.00 220.00 03/13/12 2086 1052 PENNONI ASSOCIATES INC. 1203 31608 1,182.50 SERVICES THRU 12/11/12 2011 ANN SERVICES 1,182.50 0.00 1,402.50 1204 32043 4,971.75 04/12/12 2088 1052 PENNONI ASSOCIATES INC. SERVICES THRU 3/18/12 2012 GEN.S. 4,971.75 0.00 6,374.25 6,374.25 0.00 6,374.25 07424-3140 LEGAL SERVICES 0.00 02/22/12 2083 1202 31393 1,825.68 528 GAWTHROP GREENWOOD & HALSTED LEGAL SERV. 12/12/11 - GEN.AUTH. 1,825.68 0.00 1,825.68 32043 1,083.00 04/12/12 2087 1204 528 GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 2/7-2/29/12 GEN.AU 1,083.00 0.00 2,908.68 2,908.68 0.00 2,908.68

> 0.00 02/22/12 2082 2911 EARTHCORE SERVICES LLC MOBILIZATION, ATV RIG, AUGER PRO

> > LOCKWOOD ENGINEERING

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID#	Name/Description
07424-7475	1202	CD	31393	4,315.00			02/22/12	2084	1052	PENNONI ASSOCIATES INC. SERV.THRU 1/15/12 LCSTP FINAL D
			***	6,915.00	0.00	***				
	1203		31608	6,915.00 7,440.50	0.00	6,915.00	03/13/12	2086		PENNONI ASSOCIATES INC. SERVICES THRU 12/11/12 LCSTP FI DESIGN
	1204		32043	7,440.50 1,366.00	0.00	14,355.50		2088		PENNONI ASSOCIATES INC. SERVICES THRU 3/18/12 LOCHWOOD
				1,366.00	0.00	15,721.50			90 90 M PE PE PE PE PE PE PE	
			200 300 300 300	15,721.50	0.00	15,721.50			\$00 TOO DOE DIES SEE THE TOO DIES SEE THE BEE	
	MARYI 1203	DELL	PUMP S 31608	TATION - ENGI 810.00	NEER	0.00	03/13/12	2086	1052	PENNONI ASSOCIATES INC. SERVICES THRU 12/11/12 MARYDELL
	1204	~	32043	1,422.00		810.00	04/12/12	2088	1052	PENNONI ASSOCIATES INC. SERVICES THRU 3/18/12 MARYDELL P
	MD 144 344 348			1,422.00	0.00	•				
				2,232.00		2,232.00				
	HERSI 1203			ATION - ENGIN 2,336.75	EER	0.00	03/13/12	2086	1052	PENNONI ASSOCIATES INC. SERVICES THRU 12/11/12 HERSHEY
				2,336.75	0.00	2,336.75				
4 M4 340 M4 M4 M4 M4 M4 M4 M4 M4				2,336.75	0.00	2,336.75				
07427-1000	RESEI	RVE 1	PUMP ST	ATION - ENGIN 605.00	EER	0.00		2086	1052	PENNONI ASSOCIATES INC. SERVICES THRU 12/11/12 RESERVE
	1204		32043	605.00 472.50	0.00	605.00	04/12/12	2088	1052	PENNONI ASSOCIATES INC. SERVICES THRU 3/18/12 RESERVE PU
				472.50	0.00	1,077.50				
				1,077.50	0.00		300 DOS DOS DOS DOS DOS DOS	had then had had had had had now then had need need not		
g Bal			0.00	39,992.62		39,992.62	*****			

Rick Smith

From: Rick Smith <rsmith@eastgoshen.org>
Sent: Monday, April 16, 2012 2:27 PM

To: 'Robert Dina'
Subject: RE: Safety Issue

Bob

Thanks

I will put this on the Authority's agenda. There next meeting is on May 14th.

Rick

From: Robert Dina [mailto:rdina@clingerelectric.com]

Sent: Monday, April 16, 2012 11:23 AM

To: rsmith@eastgoshen.org

Cc: Joe Natale

Subject: Safety Issue

Rick,

I wanted to send you a copy of the pages of the Collective Bargaining Agreement that we must follow as a Union Contractor. The front cover provides the date of the agreement to show it is current and the rule is found on page 23 of that agreement Section 4.19, which I have clouded, that clearly indicates that "On all energized circuits or equipment carrying 440 volts or over, as a safety measure, two or more journeyman must work together". I can bring you a full booklet if you deem it necessary.

I hope this can settle this issue and we can get paid in full for our invoice. I appreciate your patience in this matter and will continue to work with you on this.

Thank you,

Robert F. Dina, Sr.

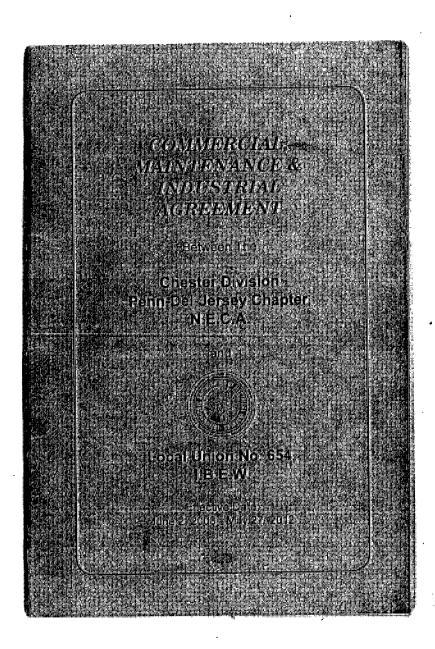
Cell: (484) 325-1126 | Email: rdina@clingerelectric.com



736 Baltimore Pike, P.O. Box 158, Concordville, PA 19331

Office: (610) 459-1234 | Fax: (610) 459-8823 | www.ClingerElectric.com

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Section 4.11 - During periods where less than 50% of Journeymen normally employed are employed, the Labor-Management Committee shall have the right to limit the maximum number of hours a month per man, in order to increase the number of men employed.

Section 4.12 - Journeymen and Apprentices shall provide themselves with a standard conventional kit of tools necessary to perform their classification of work.

Section 4.13 - Workmen shall be held responsible for the Employer's tools and equipment, providing the employer furnishes a tool box with proper lock or other safe place for the storing of such tools or equipment and allows reasonable time for such care.

(a) The Employer shall provide a safe place for workmen's tools and clothing; in the event of loss by fire, he shall be held responsible for replacement thereto. Section 4.14 - Workmen shall install all electrical work in a safe and workmanlike manner and in accordance with applicable code and contract specifications.

(a) All electrical work including temporary light and power shall be done by men employed under the terms of this agreement. (b) On jobs whenever temporary lighting, power and/or equipment is required for productive construction in other than regular working hours by workmen other than electricians, at least one (1) Journeyman electrician shall be employed on the site. This joumeyman shall do productive work when not engaged in temporary work. (c) On renovation, repair, or maintenance temporary light, power, and equipment shall be installed and maintained by electrical workers covered under this agreement. No work shall be performed outside of the regular working hours to maintain or repair this temporary light, power, or equipment unless it is specifically at the employer's request.

(d) Under all project chroumstances, temporary electric shall be left energized and in working condition past the normal working hours for lighting, heating/air conditioning, job trallers and shanties, receptacles used for equipment charging, ingress/egress and security without the requirement for a journeyman electrician to be employed past the normal working hours.

NEW TOTAL PROPERTY OF THE PROP

Section 4.15 - A Journeyman shall be required to make corrections on improper workmanship for which he is responsible on his own time and during regular working hours, unless errors were made on orders of the employer or the employer's representative. Employers shall notify the Union of workmen who fail to adjust improper workmanship and the Union assumes responsibility for the enforcement of this provision.

Section 4.16 - The representative of the Union shall be allowed access to any shop or job at any reasonable time workmen are employed under the terms of this agreement.

Section 4.17 - The Employer shall pay for traveling time and furnish transportation from shop to job, job to job, and job to shop, within the jurisdiction of the Union, except when an Employee uses his own transportation, he shall be compensated by his Employer, at no less than twemy-two cents (\$.22) per mile, from shop to job, job to job to shop, within the jurisdiction of the Union. On work outside the jurisdiction of the Union, the Employer shall furnish transportation, board and all other necessary expenses.

Section 4.18 - No traveling time shall be paid before or after working hours to workmen for traveling to and from any job in the jurisdiction of the Union when workmen are ordered to report on the job.

Section 4.19 - On all energized circuits or equipment carrying 440 volts or over, as a safety measure, two or more journeymen must work together.

Section 4.20 - The policy of the Members of the Local Union is to promote the use of materials and equipment manufactured, processed or repaired under economically sound wage, hour and working conditions by qualified electrical workers.

Section 4.21 - On jobs having a Foreman, workmen are not to take directions or orders, or accept the layout of any job from anyone except the Foreman.

On jobs having a General Foreman, all directions or orders shall be processed through the General Foreman.

Section 4.22 - No workman shall act as a Foreman on more than one job at a time.

5

EAST GOSHEN MUNICIPAL AUTHORITY EAST GOSHEN TOWNSHIP



1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

February 22, 20121

Mr. Robert Dina
Wm. H. Clinger Corporation
P.O. Box 158
Concordville, PA 19331

Re:

Ridley Creek Sewage Treatment Plant

Invoice M 11143

Dear Bob:

The Municipal Authority discussed the above referenced invoice at their meeting on February 20, 2012. They did not believe it would be appropriate to pay to have two people respond to what was essentially a service call to determine if a repair was a warranty item.

In their experience the mechanic or electrician would respond, make an assessment of the situation and communicate the required information to his office. Based on the information the electrician would then advise us if the repair was covered under warranty or not.

They did note that they would consider payment of an invoice that reflected the labor cost for the electrician only. Accordingly if you can send a corrected invoice in the amount of \$614.04 they would consider it at their meeting on March 12, 2012.

Please give me a call at 610-692-7171 or e-mail me at <u>rsmith@eastgoshen.org</u> if you have any questions or need additional information.

Sincerely,

Louis F. Smith, Jr. Township Manager

Kell

F:\Data\Shared Data\Public Works Dept\Bids\RCSTP 2007\Electrical\Letter 022212.doc



736 Baltimore Pike P.O. Box 158 Concordville, PA 19331 Phone: (610) 459-1234 Fax: (610) 459-8823 Website: clingerelectric.com

Invoice

Invoice #: M11143 EAST GOSHEN MUNICIPAL AUTHORITY ATTN: ACCTS. PAYABLE Invoice Date: 12/23/11 Due Date: 01/22/12 1580 PAOLI PIKE **VERBAL** WEST CHESTER, PA 19380-6199 PO #: Customer ID: 204 RICK SMITH Contact: Contact: MARK MILLER Job: CEG800 Work Performed: Electrical - Miscellaneous

Description: Labor Thru Week E	Ending 12-25-11	Price	Total
Work Order#:	Amount		
PLEASE SEE ATTACHED WO#: 08690,08725	\$ 1,484.04		
Subtotal	\$ 1,484.04		
Previously Paid	\$0.00		上海市市市中央市场的《日本市场》上第4届中央市场等 在1日中市场的中央市场的《日本市场》上第4届中央市场等 在1日中市场中的市场的中央市场的中央市场的中央市场的中央市场的中央市场的中央市场的中央
NET PAYMENT CURRENT DUE			\$1,484.04

Please make checks payable to: Wm. H. Clinger Corp.

WILLIAM H. CLINGER, CORP.

P. O. Box 158 736 Baltimore Pike Concordville, Pa. 19331 phone (610) 459-1234 fax (610) 459-8823

Signature:

$T \cap \cdot$	

East Goshen M	unicipal Authority
East Goshen To	ownship
1580 Paoli Pike	
West Chester, I	[⊃] a. 19380-6199
Attn: Mr. Rick S	mith & Mr. Mark Miller
TERMS:	Net 30 Days

WORK ORDER	۲ # <u>0</u>	8725	
SHEET	1	OF	
FOR JOB CEG-8	00		

DATE RECEIVED BY OFFICE	
INVOICE#	
INVOICE DATE	
FOREMAN	Ed Kik <u>ut</u>
CUSTOMER'S ORDER #	
T&M	Х
CHANGE ORDER	
JOB NAME / NUMBER	CEG-800
JOB LOCATION	Plant
PERCENT COMPLETE	100.00%
WEEK ENDING *	12/25/11

QTY.		MATERIAL	in e pr	ICE AMOUNT		DE	SCRIPTION (OF WOR	K ATE KA	
				0.00	Troubleshoot ME-45 Floc Tank Mixer - Control Circuit Fault. Isolated cause to 120V coming from FFCP. Reset the VFD and isolated the start circuit in to VFD. VFD was running in the HAND mode at 100%.					d cause
				0.00						ircuit in the
				0.00						
				0.00	Control company ne	eds to fix this	fault.			
					4 A A A A A A A A A A A A A A A A A A A		OTHER CHA	RGES		
			*							
	Subtotal			0,00						
1	10% Markup			0.00						
	·									
								.		
					20.345 (1945.19		I	TOTA	AL OTHER	0.00
		÷			LABOR	DATE	ST OT DT	HRS.	RATE	AMOUNT
					Ed Kikut	12/21/11	ST	4.00	102.34	409.36
					Robert F. Dina, Sr.	12/21/11	ST	4.00	145.00	580.00
	A									
	··········									
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	,		,							
		, .				 				
			***			1	L			
		7 _			TOT	AL HOURS	AND LABOR	L		989.36
DATE CO	OMPLETED:		TOTAL MATERIALS	0.00			<u></u>		ATERIALS	0.00
		_			Tial	Vall		TOTA	L OTHER	0.00
					TRAIL				TAY	
	Work Ordered by:	Scott Towler						TOTA	TAX	989.36
					L		L	1017	AL OTHER	969.36

^{*} Week begins on Monday and ends on Sunday

WILLIAM H. CLINGER, CORP.

P. O. Box 158 736 Baltimore Pike Concordville, Pa. 19331 phone (610) 459-1234 fax (610) 459-8823

Signature:

East Goshen Mi	unicipal Authority
East Goshen To	ownship
1580 Paoli Pike	
West Chester, F	°a. 19380-6199
Attn: Mr. Rick S	mith & Mr. Mark Miller

WORK ORDER	# 08	690		
SHEET	1	OF	1	

FOR JOB	East Goshen Waste	Water Plant

DATE RECEIVED BY OFFICE	
INVOICE #	
INVOICE DATE	
FOREMAN	Ed Kik <u>ut</u>
CUSTOMER'S ORDER #	
T&M	X
CHANGE ORDER	
JÖB NAME / NUMBER	CEG-800
JOB LOCATION	Plant
PERCENT COMPLETE	100.00%
WEEK ENDING *	12/04/11

	regarding	a warranty iss	una mith th			
ontrifuan Dougtorina	DESCRIPTION OF WORK Got called on 11/28/11 regarding a warranty issue with the exhaust fan i					
Centrifuge Dewatering room. Responded to this call on 12/1/11 with Ed electrician, found that someone else took the starter apart and removed					ved a coil.	
erified that feeder and	l xfmr were	good but tha	ıt's all we	could do.		
	111 111 111 111 111 111	OTHER CHA	RGES			
			TOTA	L OTHER	0.00	
LABOR	DATE	ST OT DT	HRS.	RATE	AMOUNT	
d Kikut	12/01/11	ST	2.00	102.34	204.68	
obert F. Dina, Sr.	12/01/11	ST	2.00	145.00	290,00	
1						
TOTA	LUOURS	AND LABOR			494.68	
1017	IL FIOUNS			ATERIALS	0.00	
	Vail				0.00	
Thank	YUU			TAX		
			TOTA		494.68	
d	LABOR I Kikut Obert F. Dina, Sr.	LABOR DATE I Kikut 12/01/11 Dipert F. Dina, Sr. 12/01/11	LABOR DATE STOT DT I Kikut 12/01/11 ST Dibert F. Dina, Sr. 12/01/11 ST TOTAL HOURS AND LABOR	TOTAL HOURS AND LABOR TOTAL MARGES TOTAL M	TOTAL OTHER LABOR DATE STOT DT HRS. RATE I Kikut 12/01/11 ST 2.00 102.34 obert F. Dina, Sr. 12/01/11 ST 2.00 145.00 TOTAL HOURS AND LABOR TOTAL MATERIALS	

^{*} Week begins on Monday and ends on Sunday

APRIL 2012 EAST GOSHEN MUNICIPAL AUTHORITY GOALS

ON-GOING

- 1. Submit an article for each newsletter.
 - a. Need by 2/8/12 Kevin Completed
 - b. Need by 5/2/12 Jack Completed
 - c. Need by 8/1/12
 - d. Need by 11/7/12
 - e. February 2013
- 2. Attend West Goshen Meetings quarterly more often if needed.
 - a. 1st Quarter (March) Jack Completed
 - b. 2nd Quarter (June) Joe
 - c. 3rd Quarter (September) Dana
 - d. 4th Quarter (December) Kevin
- 3. Respond to capacity requests in 45 days or less.
- 4. Implement I & I Plan
- 5. Conduct a sewer facilities tour after RCSTP construction is complete Have tour in September

PROJECTS

- 1. Lockwood
 - a. Bid Bid awarded 2/20 Contract executed 3/12
 - b. Pipe Installation Notice to proceed issued 3/20, Work in progress
 - c. Abandon Plant
- 2. Marydell Pump Station
 - a. Design/Permit
 - b. Bid
 - c. Pipe Installation
 - d. Abandon Pump Station
- 3. Hershey Mill Pump station
 - a. Design/Permit
 - b. Bid
 - c. Pipe Installation
- 4. Reserve Pump station
 - a. Design/Permit
 - b. Bid
 - c. Pipe Installation
 - d. Abandon Pump Station

EAST GOSHEN MUNICIPAL AUTHORITY EAST GOSHEN TOWNSHIP

1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

May 11, 2012

To:

Municipal Authority

From:

Mark Miller

Re:

April Monthly Report

C.C. Collection:

We received a call from a resident on Heather Lane stating that there lateral needed repairs. We looked at the lateral and found that the stack had pulled out of the tee. I stood on the stack and pushed the pipe back into the tee. While visiting the Hershey Mill Pump Station the crew found a sewer manhole overflowing. We entered the downstream manhole and removed several 5 gallon buckets of grit; we then jetted the line to clear the clog. We received 12 calls for lateral cap replacement during the month.

ACTION ITEM:

I would like your approval to have Pennoni investigate the cost to install a Muffin Monster at the Hershey Mill Pump Station. With additional flow I believe we are going to have a problem with debris.

R.C. Collection:

The pumping station was visited on a daily basis, the basket was cleaned. We are still adding chemicals to fight the grease. There were no problems during the month of April. We did receive calls for 7 laterals during the month.

Lochwood Plant: As you know the contractor has started the sewer work, they started at the swim club on Tanglewood Drive, the road crossing took them 3 days due to utility conflicts. Once they crossed the road they hit rock which took 3.5 days to get thru. They are currently in good dirt and working their way thru the open space. Matt and I are taking turns inspecting.

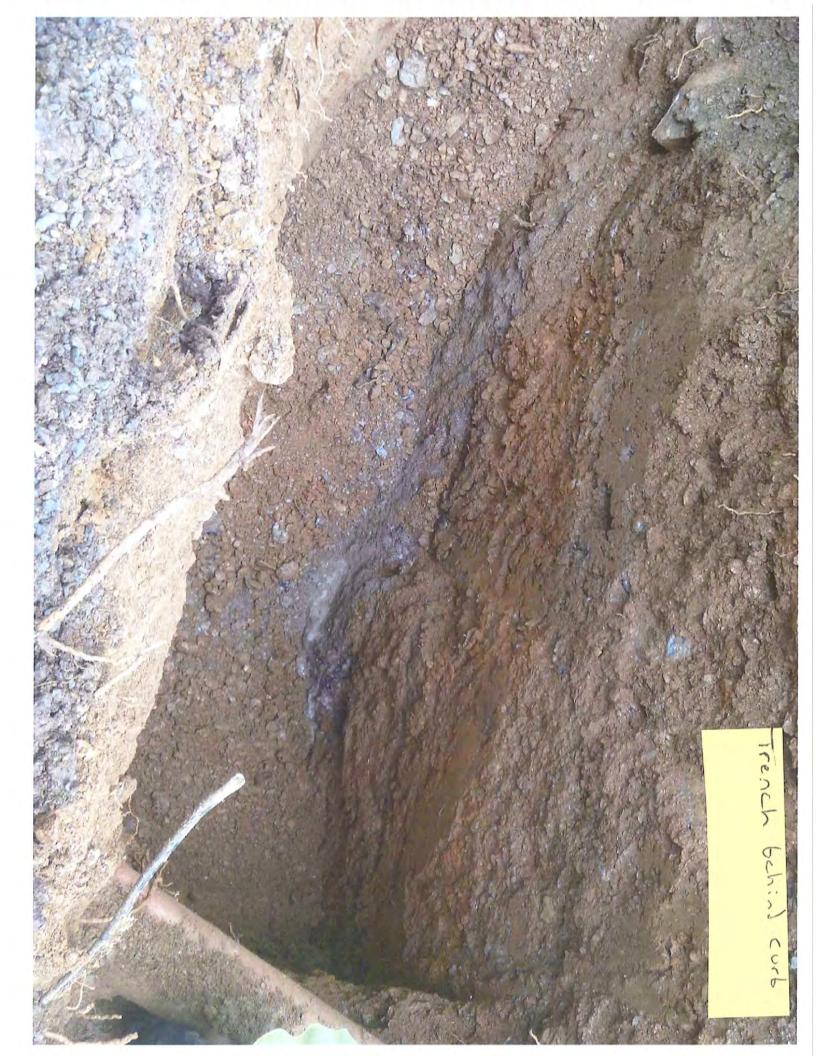
> Dusty Kilgore and Kevin Miller have completed the sewer maintenance courses at Delaware Community College; they have expressed interest in attending other courses when they come up.

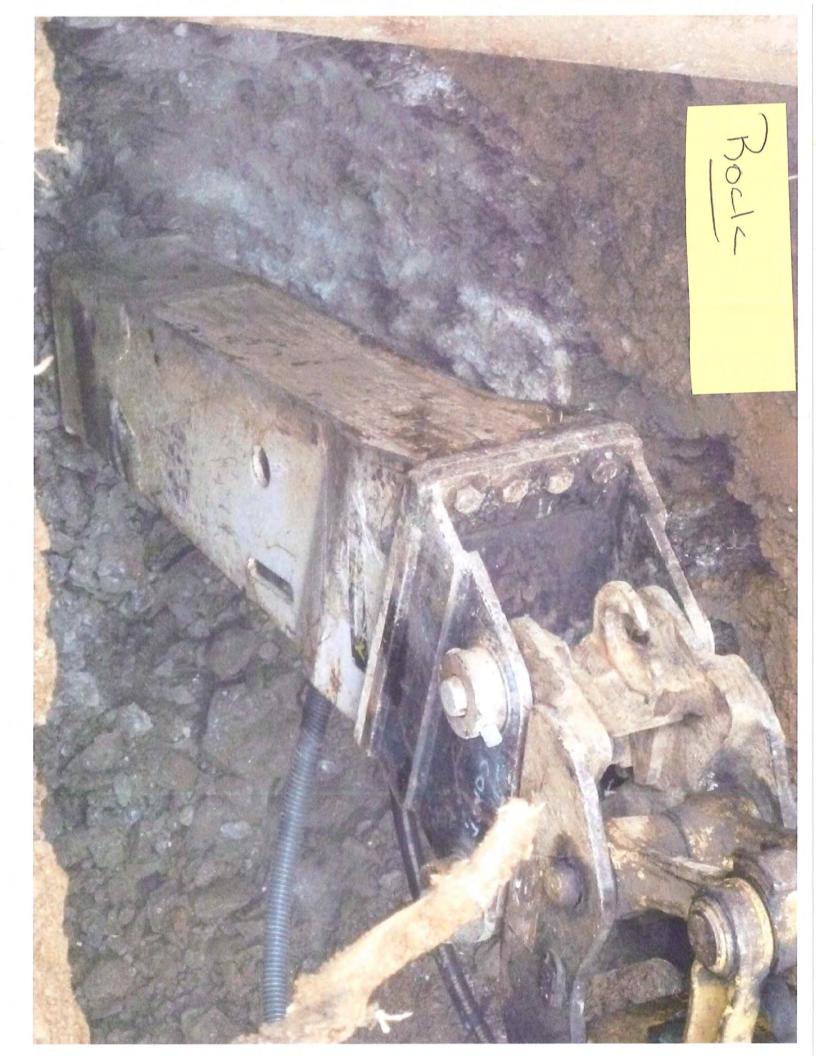
Alarms:

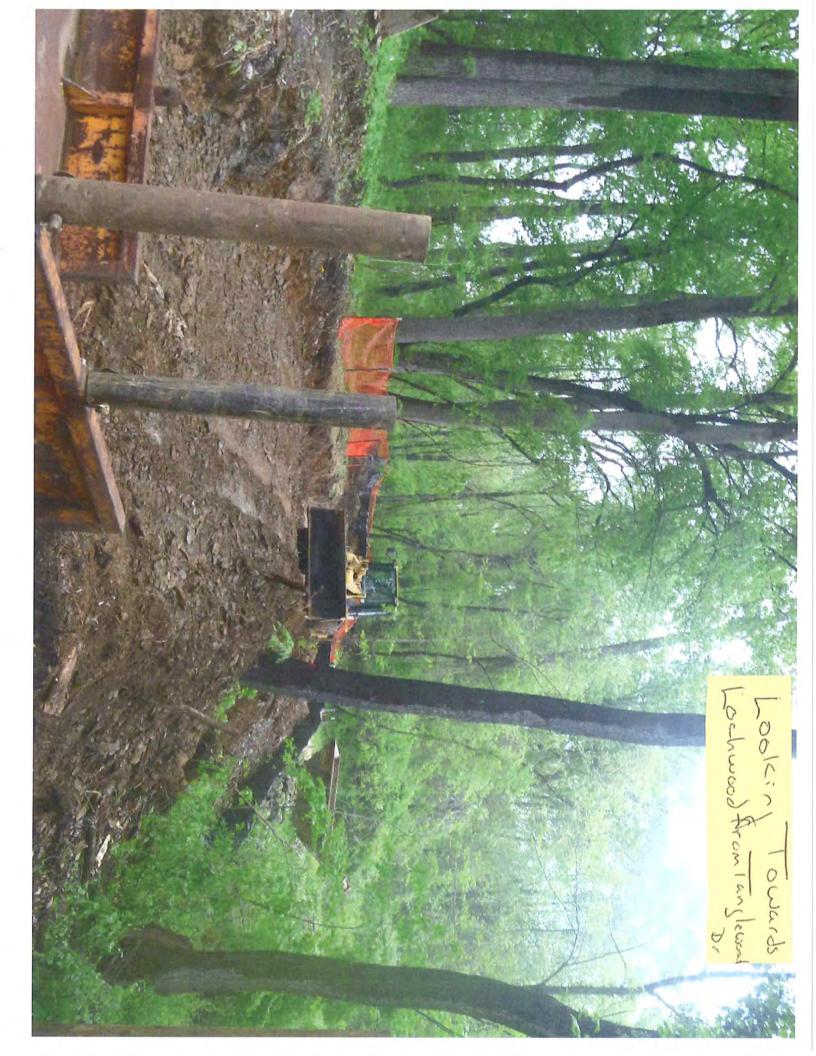
We received 22 alarms for the month.

PA One Call:

We had 87 PA One calls for the Month of April.









East Goshen Township Ridley Creek Sewage Treatment Plant

Plant Inspection - April 11 & 13, 2012 Inspection and Notes completed by Matt McAloon

On site as requested by the Township to document the condition, housekeeping, overall operations and maintenance of the plant and process testing done at the WWTP by the plant operator.

Screen Building

- The exhaust fan adjusted and is now controlled by thermostat
- Building is clean and well organized
- The seal tight flexible conduit to both the upstream and downstream level transducers is not connected and secured to the level transducer unit
- The level transducers for the screen unit is not working, screen unit is running constantly
- The JWC screening unit is running without any excess noise or evidence of excess wear
- AQUA Environmental onsite to clean and vacuum grit and solids out of the screen building flow and bypass channels.
- An additional sampler line was routed to the screen building influent channel, up stream of the grinder and screen, to fulfill Chapter 94 sampling requirements.

Influent Pump Station

- AQUA Environmental onsite to wash the walls of the wet well, vacuum grease floating on top of the wet well, and vacuumed solids from the collection box sump
- Sampler line was rerouted and secured away from the pumps
- Strain reliever / Kellum grip for influent pump P-13 connected

Meter Pit

- East Goshen Public Works reported that the meter was recently replaced under warranty by Worth & Co.
- Influent meter appears to be accurately working and was recently calibrated.

Treatment Building

- Alum Tank & Chemical Feed Systems
 - The Alum system is currently shut off and Alum is not being used in the treatment process.
 - Alum tank currently reading 5.93'
 - Worth & Co has been notified of the evidence of leaking Alum and excessive corrosion on the mounting bracket for SBR # 2 Alum Feed MOV (CV-32) and directed to repair the item under warranty
 - ME-34 (Polymer Injection System) is off, operator verified the system was filled with mineral oil and taken off line
 - Both Watson Marlow pump are energized and set to 64.5 RPMs and in auto but not running at the time of inspection. A tote of Magnesium Hydroxide is connected to the suction side of chemical feed pump MP-32

- The addition of sodium bisulfate (dechlorinating agent), previously tapped into the injection port
 of the Polymer Static mixer (ME-41), has been disconnected and the of sodium bisulfate barrels
 removed.
- High pressure Alum Feed Pump (MP-33) and VFD (MP-33VFD) are energized, but not in operation.

2. UV System / structure

- The missing rack of UV lights in Bank # 1 has not been returned or reinstalled by Siemens.
- 1 bank of UV lights are on (Bank # 2)
- Flow reading at UV control panel: 0.34 MGD
- No solids or floc is visible in the UV channel and weir, the water is clear with low turbidity.
- The Plant operator washed and scrubbed UV discharge weir while during the April 13, 2012 inspection.

3. Disk Filters

- Drain valves to both disk filers are closed.
- Disk filters are clean, walls and weirs were recently scrubbed by the operator
- Insecticide in floating dispensers utilized in the influent weir of both filters
- Plant operator has agreed to investigate tension in disk filter drive chains and adjust according to Aqua Aerobics O & M manuals.
- Filters are backwashing and sludge wasting on cycle, at time of inspection both filters were online and a backwash cycle was manual triggered:
 - Disk filter #1: 113 minutes since last sludge wasting, 50.8 minutes since last back wash & pulled 17 in Hg suction in backwash
 - Disk filter # 2: 21 minutes since last sludge wasting, 160.1 minutes since last back wash & pulled 5.9 in Hg suction in backwash
- Filter 1: total time in backwash <u>95105.6 min</u> & total sludge wasting <u>6363.5 min</u>
- Filter 2: could not read total time in backwash (exceeded hour meter limit) & total sludge wasting 6118.4.9 min
- As visible from the top of the filter platform when the filter feed pumps are on, flow to the filters
 appeared to be clear with minimal solids, only isolated foam and flecks of grease
- There is a leak in the vacuum pump piping 90 degree bend in filter # 1.
- Operator reported that both filters were drained a number of times and heavy sludge build ups and deposits removed
- Composite sampler set up to sample the influent flow to filter # 1.
- Constant flow to filters from the filter feed pumps and post EQ tanks.

4. Blower Room / Utility Water System

- Cannot verify the oil was checked or changed in any of the blowers
- The noise canceling panels were removed from blower # 3
- The blower room exhaust fan & louver working and controlled by thermostat
- Utility water system online and operating between 45 and 50 psi, both bladder tanks online.

5. Control / Electrical Room

- Control room is neat and well organized
- None of the MCC are tripped or locked out, and not of the VFDs are showing unusual faults
- 46 gallons per minute flow to Applebrook, flow charts indicate an almost constant flow through the Applebrook flow meter
- 482 gallons per minute effluent discharge flow (not including Applebrook)
- Limit switch to SBR # 3 Alum feed MOV (C-34) failed.



6. SBR Tanks

- At the time of the April 13, 2012 inspection the plant operator was running the plant on two SBRs: SBR # 3 & # 4 online and running, #2 SBR off and decanting / draining in prep to be taken off line, SBR # 1 draining to sludge digester.
- Plant operator onsite washing down the walls to the SBR tank # 2 as it was drained
- MLSS in tanks # 3 & # 4 (active SBRs) is low and within the acceptable design range
- One of the plunger valves on the decanter is broken; Worth & Co notified and will repair under contract warranty

7. General

- All of the SBR Decant knife gate valves are open
- The large piles of dead bugs have been removed from under bug zapper
- The exhaust fan above the UV and the associated louver are operational and controlled by the thermostat
- The Apple Brook meter is operating and reading 45 gpm

Centrifuge / Sludge Handing & EQ Tanks

- The centrifuge still has 99.9 hours on the hour meter and the Moyno Grinder pump control panel has 714 hours on the control panel. The flow meter in the centrifuge pump room reads 1,498,769 gallons. Worth and Co. have been notified about the detective hour meter on the centrifuge control panel.
- During the April 11, 2012 site visit, both digesters were at less than 2', all onsite sludge was dewatered in the centrifuge and hauled off site. Operator reports a total of 38 dumpsters of sludge were hauled offsite.
- After pressing was complete the centrifuge was shut down, Cleaned in Place (CIP), the bowl fully cleaned, and polymer system charged with mineral oil.
- Early in the new operator's tenure the damaged bearings in were removed and replaced by the township and plant staff.

Existing Control Building

- No change
- No faults or alarms visible in the new or existing MCCs
- 93 spikes recorded on the control building TVSS

Sludge Digesters / Post EQ tanks

- Post EQ Tanks were drained and cleaned April 11, 2012. Heavy layer of sludge six plus inches thick
 was washed off the walls collected and removed from the site by AQUA Environmental with the
 assistance of the plant operator.
- As viewed during the April 13, 2012 site inspection the Post EQ tanks clear and with good clarity and no sludge deposits on the tank walls
- The blowers to the Post EQ Tanks are on and operational with consistent air bubble patterns
- Post EQ tanks and filter feed pumps set to provide a constant forward flow to the disk filters
- Per the plant operator the sludge digester telescoping valves are operating properly and as designed
- Sludge Digester # 1 is empty and Sludge Digester # 2 is being used as a holding tank for MLSS pumped out of SBR # 1 and SBR # 2.

- The sludge in the digester is a light chocolate milk color with moderate foaming
- All of the air drops to the sludge digester / holding tanks appear to be working (one or two of the couplers for the air drops are leaking air)

Discharge of Ridley Creek

- V notch weir for the effluent meter was cleaned and appears to be providing more accurate flow readings
- Constant flow from the Post EQ tanks, through the disk filters and UV, allows the utility water pumps and Applebrook discharge pump to draw effluent as required without frequently shutting down due to low flows.
- At the time of inspection, Ridley Creek Sewage Treatment Plant is in compliance with the new discharge permits and operations appear to be organized and efficient.



MEMORANDUM

TO:

East Goshen Municipal Authority Board

Rick Smith, Township Manager

FROM:

Daniel Barbato, P.E. Authority Engineer

DATE:

May 1, 2012

SUBJECT:

Engineer's Report

Invoices

• Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- The plant was inspected in detail on April 11 and 13. The purpose of the inspection was to compare the current operation and plant condition to the conditions documented in the March 5, 2012 report, which was immediately following the departure of Miller Environmental. The majority of the deficient conditions appear to have been corrected. The buildings were clean and well organized, the alum feed system is not currently required, the disk filters were clean and appeared to be operating properly, sludge levels in the digesters was acceptable, and effluent appeared clear at the time of the inspections. A detailed inspection report is attached. In summary, several conclusions and observations can be made:
 - 1. Miller Environmental was not properly operating the plant.
 - 2. Housekeeping and process data collection was poor.
 - 3. The plant is capable of meeting the new discharge limitations.
 - 4. Miller's claim that design shortcomings in the plant inhibited their ability to operate the plant is unfounded, particularly in light of the demonstration of the plant performance over the past two months.
 - 5. The centrifuge is capable of processing solids.
 - 6. Miller Environmental did not properly manage and remove solids at the facility.
 - 7. Miller Environmental relied too heavily on chemical treatment, particularly alum.
 - 8. The plant is currently being operated properly, with good data management, housekeeping, and maintenance practices.

LCSTP Elimination

- The contractor, SJM Construction Company, began construction on May 1 installing E&S controls and performing site clearing. Sewer construction began on May 3, and they are tentatively projecting approximately 60 days to complete the work. The required contract completion date is July 2, 2012.
- We have been performing close to full-time construction inspection services from the start of construction on May 3 through the time of this report. Full-time inspection is planned to continue at least until the contractor is no longer excavating rock. We expect to be out of rock by May 11.
- As of this report, the contractor is encountering rock at shallower depths (higher elevations) than indicated in the Township's pre-construction borings. The rock removal contract quantity is 75 c.y. We are currently estimating the actual rock removal quantity will be a little over 100 c.y., resuling in an increased cost of approximately \$3,000 due to the increased quantity.
- The existing drop connection at Existing Manhole EXMH-8 along Tanglewood Drive was not damaged during construction of the new sewer, so the Bid Add Item for that item of work will not need to be exercised. That Add Item was bid at \$5,300.00
- We have provided in-office construction support on scheduling, Tanglewood Drive closure, detour/closure signage, marking and extent of tree clearing, rock quantification, and verification that the existing lateral from 924 Dolphin Dr. will not conflict with the proposed sewer based upon the measured lateral depth leaving the house.
- We reviewed additional construction submittals including the contractor's preconstruction video. All submittals have been "Approved" or "Approved as Noted".
- We issued a Construction Issue set of plans and specifications to the contractor and Township to incorporate the various addenda into one set of plans and specifications.

Hershey Mill PS Diversion and Reserve PS Elimination

• We previously prepared draft plans and draft applications for DEP General Permits (GP) for Stream Crossings. The PNDI Receipt for the Hershey Mill PS Diversion identified potential threats to two plant species. We prepared and submitted the required documents to DCNR for their comments/approval regarding the potential threats, and we are awaiting feedback. It also appears that additional construction easements will be required to install a temporary construction bridge stream crossing for the Hershey Mill PS Diversion, and we are coordinating with the Township to determine if the General Permit for a temporary crossing should be pursued as a result.

Marydell PS Elimination

We have prepared draft plans and a draft PennDOT Highway Occupancy Permit (HOP) application. We are continuing attempts to coordinate with PECO regarding mitigation of impacts to overhead utility poles given the proximity of the proposed sewer to the poles. The PECO coordination may impact the HOP application, such as modifications to the

exact sewer location. Upon resolution of any such PECO issues, we will finalize and submit the HOP application.

Annual Chapter 94 Reports

• A new influent metering and organic sampling location is needed at the Ridley Creek STP in order to satisfy DEP's new Chapter 94 requirements. We have discussed the best location with Public Works, and we forwarded a recommendation letter to the Authority prior to the April 9, 2012 meeting.

BIG FISH ENVIRONMENTAL SERVICES, INC.

April 2012 - Ridley Creek and Lochwood Sewage Treatment Plant Operations Report

Executive Summary

Treatment Process Operation

Sequencing batch reactors (SBRs) numbered 2, 3 and 4 were in service until April 11th. SBR No. 2 was removed from service on April 11, 2012 to evaluate the treatment performance through utilizing two (2) SBRs Nos. 3 and 4. The following observations were recorded with only two (2) SBRs in service;

- Occasional filled decants attributed to diurnal flow loadings.
- > Nitrification and denitrification was achieved.
- > Nitrate concentrations became elevated contributing to denitrification within the SBRs during settle phase.
- > Phosphorus removal within the effluent limitation was achieved without alum.
- > DO trends during peak flow periods indicated significant oxygen demand (minimum to no desired "DO peaks").
- > SBR surface developed a layer of foam. Microscopic examinations did not identify Norcardia sp. as the main contributing factor for development of foam.
- > The F:M ratio increased (160 minutes fill cycles)
- Effluent clarity remained good; however, the final effluent exhibited a slight color (similar to the discharge from a trickling filter treatment process). The final effluent achieved permit compliance with the discharge limitations.

On April 7, 2012, transfer of treated effluent to the Applebrook golf course lagoon commenced.

On April 22, 2012, the chemical feed system to provide alum to the floc tank mixer and influent to the disc filters was placed in service. It should be noted that the use of alum to assist in phosphorus removal was driven by the uncertainty of compliance with the NPDES permit. Typical laboratory turnaround for analytical reports is two weeks, with the April 5th sample report received on April 27th. Split sample analysis between on-site testing and the laboratory indicates elevated sample results obtained on site as compared to ALS. Evaluation of selected laboratory accreditation is warranted.

On May 2, 2012, SBR No. 1 was placed in service, in addition to SBR Nos. 3 and 4.

A summary of the influent and effluent sample data for the month of March 2012 is attached for review. The eDMR and supplemental reports for March 2012 have been prepared and hand delivered to PA DEP by BFESI on April 27, 2012. As required by the NPDES permit effective March 1, 2012, the following supplemental reports accompanied the DMR;

- > Daily Effluent Monitoring Report
- Chemical Additives Report
- Sewage Sludge/Biosolids Production and Disposal Report 1 of 3
- Sewage Sludge/Biosolids Production and Disposal Report 2 of 3
- Sewage Sludge/Biosolids Production and Disposal Report 3 of 3
- Hauled in Municipal Waste Report
- > Influent & Process Control Form
- Laboratory Accreditation Report

BIG FISH ENVIRONMENTAL SERVICES, INC.

April 2012 - Ridley Creek and Lochwood Sewage Treatment Plant Operations Report

Flow data:

the state of the s	March 2012	
Flow Meter Location	Total Volume for Month, MGD	Average Daily Flow, gpd
Influent Wastewater	9.996	322,443
Treated Effluent to Disc Filters	9.349	322,388
Final Effluent Discharge	7.486	241,484
Applebrook Golf Course	0	0
	April 2012	
Flow Meter Location	Total Volume for Month, MGD	Average Daily Flow, gpd
Influent Wastewater	10.393	346,428
Treated Effluent to Disc Filters	8.901	296,713
Final Effluent Discharge	5.291	176,367
Applebrook Golf Course	1.150	50,.013

Chemical Usage:

Chemical	Daily Average	Total Monthly
Soda Ash	175 lbs./day	5,450 pounds
Magnesium Hydroxide	25 gpd	780 gallons
Alum	0 gpd	0 gallons

Solids Dewatering and Disposal

The centrifuge was operated from April 1st through April 5th. Two dumpsters were removed.

In preparation for a long term shut down, the clean in place procedure (CIP) was performed and the machine was cleaned. The polymer system was purged with mineral oil to prevent polymer building within the system

Maintenance, Repairs and Warranty

Completed: SBR No. 1 Decanter - repaired

Outstanding: Centrifuge replacement parts – Worth & Co. to replace parts used for warranty repair

Outstanding: JWC fine screen has a failed UPS - Worth & Co. informed

Outstanding: JWC fine screen upstream transducer - replacement connection

scheduled for installation

Outstanding: SBR and Centrifuge MCC panel hour meters - Worth & Co. informed

Outstanding: Leaking PVC valves for alum piping to SBRs Outstanding: Sludge holding tank aeration piping paint is failing

East Goshen Township Municipal Authority

FINAL REPORT

Ridley Creek Sewage Treatment Plant Monthly Operations Report

Instantaneous 40 Sample date	Maximum 0.2420 0.2240	Maximum 40 0.2420 3.2 0.2240 3.1 0.2200 2.8	Maximum 40 0.2420 3.2 0.2240 3.1 0.2200 2.8 0.2240 2.0	Instantaneous 40 Maximum 40 0.2420 3.2 0.2240 3.1 0.2200 2.8 0.2240 2.0 0.2210 3.1	Instantaneous 40 Maximum 40 0.2420 3.2 0.2240 3.1 0.2200 2.8 0.2240 2.0 0.2210 3.1 0.2210 3.1 0.2262 2.8	Instantaneous 40 Maximum 40 0.2420 3.2 0.2240 3.1 0.2200 2.8 0.2240 2.0 0.2240 3.1 0.2240 2.0 0.2210 3.1 0.2262 2.8 0.2200 2.0
43	6 5	5 6 5	5 5 5	5 5 5	5 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	10	10	10	10 12 10 10 20	10 12 10 10 20 20	10 12 10 10 20 20
	0.100	0.100 0.100 0.209	0.100 0.100 0.209 0.114	0.100 0.100 0.209 0.114 0.355	0.100 0.100 0.209 0.114 0.355 0.176	0.100 0.100 0.209 0.114 0.355 0.176
	0.20	0.20 0.20 0.20 0.42	0.20 0.20 0.42 0.23	0.20 0.20 0.42 0.23 0.72	0.20 0.20 0.42 0.23 0.72 0.35	0.20 0.20 0.42 0.23 0.72 0.35
	0.10	0.10 0.14 0.28	0.10 0.14 0.28 0.54	0.10 0.14 0.28 0.54 1.20	0.10 0.14 0.28 0.54 1.20 0.45	0.10 0.14 0.28 0.54 1.20 0.45
	0.20	0.20 0.28 0.57	0.20 0.28 0.57	0.20 0.28 0.57 1.09 2.42	0.20 0.28 0.57 1.09 2.42	0.20 0.28 0.57 1.09 2.42 0.91
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	0.0000	0.0000	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 1.8062	0.0000 0.0000 0.0000 0.0000 1.8062 0.3612	0.0000 0.0000 0.0000 0.0000 1.8062 0.3612

DRAFT

Ridley Creek Sewage Treatment Plant Monthly Operations Report

Maximum 0.9611	Minimum 0.2522	Average 0.4642		April 26, 2012 0.2833	April 20, 2012 0.3600	April 12, 2012 0.9611	April 5, 2012 0.2522	Sample date	MGD Average	0	Design Basis Flow	
3960	2 263	2 2112		3	0	1 263	3960		rage 335	mg/L		
8329	553	4441				553	8,329		2,098	lbs/day	BODs	
950	88	519				88	950		320	mg/L		
1998	185	1092				185	1,998		2,001	lbs/day	TSS	Influent
58	24	41				24.2	57.7		32	mg/L	NH	Influent Wastewater
121	0	57	0			51	121		200	lbs/day	NH ₄ -N	
437	34	235				33.9	437		48	mg/L	TKN, mg/L	
919	0	330	0			71	919		301	lbs/day	ng/L	
97	4	51				3.9	97.4		9.1	mg/L	Phosphorus,Total, mg/L	
205	0	71	0			00	205		57	lbs/day	,Total, mg/L	

April 5 sample collected from influent channel prior to fine screen is not representative as a result of excessive grit/sediment resultant in channel.

Maximum	Minimum	Average	April 12, 2012			Design Basis	
0.2921	0.2921	0.2921	0.2921	MGD Average		Flow	
16	16	16	15.8	5.0	mg/L	CBOD,	
33	33	33	33	31	lbs/day	Đ,	
64	64	64	64	5.0	mg/L		SBR Efflu
135	135	135	135	31	lbs/day	158	ent Discharge
1	1	1	0.83	1.0	mg/L	Phosphorus, Total	SBR Effluent Discharge to Disc Filters
			No test	1.0	mg/L	NH ₂ -N	
5	5	5	4.7	ND	mg/L	Nitrate/Nitrite	
3.80	3.80	3.80	3.80	ND	mg/L	TKN	
9	9	9	8.5	10	mg/L	Total Nitroger	

	Flow CBOD ₅	NPDES Permit Discharge importations MGD Average mg/L III	0.75	suos			Maximum 0.1880	Maximum 0.1880 0.2060	Maximum 0.1880 0.2060 0.1080	Maximum 0.1880 0.2060 0.1080 0.1490	Maximum 0.1880 0.2060 0.1080 0.1490 0.1628	Maximum 0.1880 0.2060 0.1080 0.1490 0.1628 0.1080
		lbs/month m	125				9					
Final Eff	TSS	mg/L lbs/month	21 131		42	12	8				01	
Final Effluent - Out Fall 001	N.	mg/L	7				0.200	0.200	0.200	0.200 0.195	0.200 0.195 0.198	0.200 0.195 0.198 0.198
	NH ₂ -N	lbs/month	44				0.2	0.2	0.2	0.2	0.2 0.3	0.2 0.3 0.3 0
	Phosphorus,Total, mg/L	mg/L	0.5				0.66	0.66	0.66	0.66 0.22	0.66 0.22	0.66 0.22 0
	Total, mg/L	lbs/month	3				0.2	0.2	0.2	0.2	0.2	0.3
	Recal Coliform	Geo Mean	200				1	11	1	1 1	4 4	44
	liform	Geo Mean	1,000				0.0	0.0	0.0	0.0	0.0	0.0

East Goshen Township Flows March 2012

Avg.	Total	 3	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	1	10	9	00	7	တ	Ċ1	4	ω	2	<u></u>	Date	
5.089	157.75	4.671	4.572	4.552	4.764	5.055	4.978	5.053	4.852	4.596	4.995	4.892	4.894	5.090	5.347	4.814	4.732	4.707	5.232	5.426	4.866	5.306	4.962	5.127	5.212	5.024	5.703	5.474	5.547	5.880	5.069	6.353	mgd mgd	West Goshen
1.586	49.18	1.483	1,473	1.484	1.465	1.517	1.459	1.588	1.524	1.356	1.582	1.535	1.531	1.555	1.609	1.534	1.322	1.576	1.580	1.590	1.561	1.646	1.569	2.092	1.621	1.602	1.556	1.660	1.763	1.791	1.711	1.840	mgd mgd	West. Way
0.223	6.90	0.207	0.206	0.179	0.184	0.201	0.196	0.201	0.202	0.201	0.194	0.202	0.199	0.209	0.195	0.196	0.195	0.254	0.213	0.228	0.213	0.236	0.237	0.236	0.243	0.234	0.231	0.226	0.302	0.303	0.302	0.274	mgd mgd	Ellis Lane
0.060	1.86	0.051	0.050	0.055	0.060	0.057	0.070	0.068	0.068	0.068	0.067	0.069	0.064	0.071	0.061	0.062	0.061	0.063	0.065	0.065	0.045	0.063	0.064	0.063	0.027	0.057	0.058	0.061	0.058	0.059	0.058	0.055	mgd mgd	Paoli Pike
0.064	2.00	0.050	0.049	0.061	0.060	0.064	0.064	0.051	0.052	0.051	0.080	0.079	0.077	0.088	0.062	0.062	0.062	0.081	0.086	0.085	0,075	0.049	0.050	0.049	0.069	0.066	0.068	0.065	0.057	0.057	0.057	0.069	mgd	Wilson Drive
1.131	35.05	1.084	1.083	1.042	1.032	1.128	1.090	1.089	1.090	1.089	1.091	1.134	1.114	1.156	1.098	1,099	1.098	1.106	1.132	1.176	1.116	1.183	1.184	1.183	1.092	1.162	1.116	1.095	1.275	1.275	1.275	1.162	mgd Ivietei Fit	West. Way
0.784	24.29	0.776	0.778	0.747	0.728	0.806	0.760	0.769	0.768	0.769	0.750	0.784	0.774	0.788	0.780	0.779	0.780	0.708	0.768	0.798	0.783	0.835	0.833	0.835	0.753	0.805	0.759	0.743	0.858	0.856	0.858	0.764	mgd	Total East

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-				17											186,208	T	171 640 1					-			222,540	203,633	T			1/0/501	T	170.080	170,020		T	180 717			1/8/100	T	T			192,768			-	100,000	Т			196,060	Т	GFO.	
NO	YEV.	NO	МО													21,000,000	17 195 000						-	4	12,151,617	12,147,089				12,128,246	6,166,140	12 122 140	12,116,302	12,110,692	2,10,1011	12 104 517			12,087,394	12,000,230	מבר בפח כיו		12.074.119	12,068,446				12,000,239	מבר חבר השם	12,044,830	12,039,512	12,034,687		THE POINT	THE PARTY OF
NORMAL YEAR TO DATE	YEAR TO DATE	NORMAL MONTH TO DATE	MONTH TO DATE					1						00,000	53,353	07,100	E7 4E9			1					45,180	62,843				61,060	00,000	58 380	56,100	61,750	01,011	57 077			41,550	40,000	45 000		56.730	45.518				54,090	200,100	53,180	48,250	49,180		OF D	2
TODATE		H TO DATE	m													10,700,101	מו זמר נו								13,704,681	13,698,335				13,682,949	13,011,431	13 677 /31	13,671,843	13,665,349	10,000,100	12 000 100			13,644,951	13,039,196	1000000	14/440/000	13 626 958	13 600 078				13,602,544	10,000,000	13.596.853	13,590,251	13,583,574		KEADING	
											1			01,010	57 578	41,461	-							1	63.460	51,287				55,180	088,00	5000	64,940	71,810	700,00	1			57,550	61,190		00,000	2000	225 77				56,910	05,020	00,110	66 770	47,590		GPD	,
1	8.70		3.01		E.GOSHEN	COCHEN	COCUEN									20,400	20,100	20 400	20,400	20,400	20 400	20,400	20,400	20,100	20 400	20,400	20,400	20,100	20.400	20,400	20,400	200	20.400	20,400	20,400	20,400	20 400	20,400	20,400	20,400	20,400	20,400	20,400	30,400	20,400	20,400	20,400	20,400	20,400	20,400	20 400	20,400	20,400	GPD	2
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ASHBRIDGE HICKS ME READING GPD READING 1,399,826 63,940 4,824,776 1,401,004 58,900 4,910,838 1,401,004 58,900 4,910,838 1,404,183 63,580 5,033,933 1,404,183 63,580 5,033,933 1,405,425 62,100 5,091,157 5,120,632 5,255,766 5,284,830 1,409,738 61,614 5,284,830	ASHERIDGE HICKS METER GOSHEI ASHERIDGE HICKS METER GPD READING GPD READING GPD 4.824,716 273,407 1,399,826 63,940 4.824,973 296,540 1,401,004 58,900 4,910,838 279,150 1,404,183 63,580 5,033,933 322,200 1,405,425 62,100 5,031,713 227,188 1,405,425 62,100 5,120,632 294,750 1,405,425 62,100 5,120,632 294,750 1,405,425 62,100 5,255,768 291,450 1,206,738 61,514 5,284,830 299,840 1,409,738 61,514 5,284,830 299,840	2 APRIL 2ND QUARTER- METERS FROM WEST GOSHEN - CC COLLE ASHBRIDGE HICKS METER RESERVE ADDING GPD READING GPD READING (A924.716 273.407 4.824.716 273.407 4.824.716 273.407 4.824.710 296,540 4.882,923 285,530 4.910,838 279,150 5.001,713 227,188 5.001,713 227,188 5.033,933 322,200 5.120,632 294,750 5.120,632 294,750 5.120,632 294,750 5.226,582 305,150 5.255,766 291,840	2ND QUARTER- METERS FROM WEST GOSHEN - CC COLLECTION RIDGE HICKS METER RESERVOIR GPD READING GPD READING GPD 4.824.716 273,407 6.63,940 4.854,370 296,540 4.882,923 285,530 4.58,900 4.910,838 279,150 5.001,713 227,188 5.001,713 227,188 63,580 5.033,933 322,200 5.120,632 294,750 5.120,632 294,750 5.196,067 251,450 5.284,830 290,640 8.61,614 5.284,830 290,640 9.51,514,517 284,170
HICKS ME READING 4.824.716 4.824.716 4.824.370 4.832.923 4.910.838 5.001,713 5.001,713 5.003,933 5.033,933 5.120,632 5.126,582 5.255,766 5.256,766 5.256,766	HICKS METER READING GPD 4.824,716 273,407 4.854,370 296,540 4.910,838 279,150 4.910,838 279,150 5,001,713 227,188 5,001,713 227,188 5,003,933 322,200 5,120,632 294,750 5,120,632 294,750 5,120,632 294,750 5,120,632 291,450 5,284,830 290,840 5,284,830 290,840 5,284,830 290,840	METERS FROM WEST GOSHEN - CC COLLE HICKS METER RESERVE READING GPD READING 4,824,716 273,407 4,854,370 296,540 4,882,923 285,530 4,910,838 279,150 5,001,713 227,188 5,003,933 322,200 5,033,933 322,200 5,120,632 294,750 5,196,067 251,450 5,126,582 305,150 5,255,766 291,840	
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