

EAST GOSHEN MUNICIPAL AUTHORITY

June 13, 2011

Monday, 7:00 PM

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

- a. Ask if anyone will be taping the meeting?

2. RIDLEY CREEK REPORTS

- a. Brickhouse Environmental Project Manager Report
b. Pennoni Engineers Report
c. Cost Summary Report
d. Change Orders – None

3. RIDLEY CREEK INVOICES

| | |
|--|---------------|
| a. Worth & Co. #25 | \$ 125,323.79 |
| b. Aqua Wastewater Management #123232 | \$ 6,169.22 |
| c. Clinger #M11050 (due to PECO problem) | \$ 16,059.00 |
| d. Gawthrop Greenwood, PC #88903 | \$ 105.00 |
| e. Glasgow, Inc. #249252 | \$ 3,628.97 |
| f. Hammond & McCloskey #5031 | \$ 3,450.59 |
| g. Hammond & McCloskey #5077 | \$ 1,004.67 |
| h. Pennoni #473337 | \$ 1,177.50 |

4. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS

5. APPROVAL OF MINUTES

- a. May 9, 2011

6. APPROVAL OF INVOICES

| | |
|--|-------------|
| a. Pennoni, #473327 | \$ 1,867.50 |
| b. Pennoni, #473328 | \$ 502.50 |
| c. Pennoni, #473329 | \$ 750.00 |
| d. Pennoni, #473330 | \$ 1,494.00 |
| e. Pennoni, #473331 | \$ 295.00 |
| f. Pennoni, #473332 | \$ 1,747.50 |
| g. Gawthrop Greenwood #88902 | \$ 589.00 |
| h. Maillie, Falconiero & Co. #1000005019 | \$ 7,500.00 |

7. LIAISON REPORTS

8. FINANCIAL REPORTS

- a. May Report

9. OLD BUSINESS

- a. Pennoni – Lochwood Chase Surveying

10. GOALS

- a. 2011 Goals

11. NEW BUSINESS

- a. Authorize Execution of Sewer Connection Agreement for 1404 Pine Rock Road

12. CAPACITY REQUESTS - None

13. SEWER REPORTS

- a. Director of Public Works Report – May 2011

- b. East Goshen Township Flows for May 2011
- c. Miller Environmental, Inc. Monthly Operations Report for May

14. ANY OTHER MATTER

15. CORRESPONDENCE AND REPORTS OF INTEREST

- a. Letter to Mr. Turner

16. PUBLIC COMMENT

17. ADJOURNMENT

18. EXECUTIVE SESSION - LEGAL

19. ADJOURNMENT

Reminder – NEWSLETTER ARTICLE SUBMISSION DUE DATES:

Article Due Date

Delivery date

August 10, 2011 – Jack
November 9, 2011- Dana

October 1, 2011
January 1, 2011



**Brickhouse
Environmental**
Consultants and Engineers

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

Invoice number 5983
Date 6/1/2011

Client ID: 548

Contract: 09.2532
E Goshen Twp-Ridley Creek Sewer
Scope of Work: Project No. 09-2532-0 E. Goshen/Ridley Creek Sewer Plant/WW Engineering

Attn: Mr. Rick Smith, Township Manager

SEE PROJECT ACCOMPLISHMENTS ATTACHED.

Professional Services Rendered Through the Month of May 2011.

Labor

| <u>Employee Type</u> | <u>Hours</u> | <u>Amount</u> |
|----------------------|--------------|------------------|
| Project Manager | 94.00 | 10,810.00 |
| Labor Total | <u>94.00</u> | <u>10,810.00</u> |

| | <u>Amount</u> |
|---------------|---------------|
| Reimbursable | 0.00 |
| Expense Total | <u>0.00</u> |

Invoice Total 10,810.00

OK
RS
6-9-11

515 South Franklin Street
West Chester, PA 19382

Payment Terms: Net Thirty (30) Days; Credit Cards Accepted

Phone 610.692.5770
Fax 610.692.8650



Brickhouse Environmental

East Goshen Township: Ridely Creek Sewer Plant Expansion Project Management Schedule Supplement

Brickhouse's contract for project management was originally anticipated to be completed week ending August 8, 2010 at 1,522 hours and \$175,030.

From April through October 2010, Brickhouse spent 100 hours on out of scope matters that were included in the total hours.

The duration was extended to week ending October 10, 2010 and attendance at the October 11, 2010 Authority meeting which then expended the original 1,522 hours.

The Board subsequently approved Brickhouse Environmental to continue to serve the Authority's needs as requested on a T&M basis.

Monthly Project Management Subtotals Beyond the Original Budget

| Month | Project Subtotals | | |
|----------------------------|-------------------|------------------|-----------------|
| | Pro. Mgt. Hours | Cumulative Hours | Cumulative Fees |
| October 2010 | 36.25 | 36.25 | \$4,168.75 |
| November 2010 | 86.50 | 122.75 | \$14,116.25 |
| December 2010 | 136.00 | 258.75 | \$29,756.25 |
| January - February 4, 2011 | 97.75 | 356.50 | \$40,997.50 |
| February - March 4, 2011 | 58.00 | 414.50 | \$47,667.50 |
| March - April 1, 2011 | 50.00 | 464.50 | \$53,417.50 |
| April 2 - April 30, 2011 | 40.75 | 505.25 | \$58,103.75 |
| May - June 3, 2011 | 94.00 | 599.25 | \$68,913.75 |

Project Cumulating Totals

| Project Management Hours | Fee |
|--------------------------|--------------|
| 2,121.25 | \$243,243.75 |



Brickhouse Environmental

PROJECT ACCOMPLISHMENTS EAST GOSHEN/RIDLEY CREEK SEWAGE TREATMENT PLAN UPGRADE/EXPANSION BE PROJECT NO. 09-2532-0 MAY 2011 SERVICES

- 2-May-11 Review project file and prepare response to email with regards to plant operations and issues presented in email to Rick Smith from the plant operator, Scott Stump (MEI).
- 3-May-11 Work on summarizing data for Wednesday meeting at the Township Building. Finalize letters to contractors for final close out.
- 4-May-11 Meeting with Rick and Mark prior to 9:00 AM RCSTP project closeout/status meeting. Attended Meeting attended by representatives from EGTMA, PAI, MEI, Worth & Co and Clinger. The meeting discussed the operational status of outstanding items required by both contractors to complete, a warranty/punch list items required by both contractors to complete, a Visited the treatment plant to view observation of the issues identified by the plant operator. Confirmed and tripped alarms to test the ACS panel and verify auto dialer call out. Confirmed issue and solution to SHT #1 telescopic valve, floc tank mixer icon for ACS panel and treatment room exhaust fan was found to be tripped. Disc filter number 2 is producing a high vacuum alarm. Compared both filters and # 2 was around 27 mmhg whereas #1 was around 17 mmhg. Follow up to Aqua Aerobic regarding the high vacuum and cleaning procedure for the cloth is required.
- 5-May-11 Prepared draft and final letters to Worth & Co and Clinger Corp with regards to project closeout and remaining punch list items. Letters will be included for Monday's Authority meeting. Prepared the centrifuge acceptance letter to Worth & Company. This letter is planned to be included for Monday's authority meeting. Prepared the April 2011 Project Manager Executive summary letter report. Compiled wastewater operations process control data compiled during the year. Data and scanned DO trends are being prepared for Paul Christiansen from Siemens in advance of his May10 visit.



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UPGRADE/EXPANSION
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- 6-May-11 Site visit to RCSTP as a follow up to Plant Operator report that blower vfd was functioning erratically.

Gathered additional process control data to be sent to Paul Christiansen in preparation for May 10th's site visit and training. Previously exchanged data and emails on 5/5/2011.

Incorporate EGTMA comments into centrifuge letter and distribute to Worth, EGTMA and Pennoni.
- 9-May-11 Prepare for and attend monthly Authority meeting and attend executive session to discuss pending legal matter.
- 10-May-11 On site from 8:15 AM through 4:15 PM to attend training and technical evaluation and assistance provide by Siemens Jet Tech representative Paul Christiansen.
Bob Dina from Clinger was on site to re-install loose conduit on SBR and investigate reported missing wires from the flocc tank mixer to the ACS panel. Wires were in place and terminated as Dave Loungo from ACS requested.
Call to Aqua Aerobics for disc filter media cleaning procedure.
Call to Siemens Sunlight UV system regarding UV low alarm.
- 11-May-11 On site from 8:00 AM through 4:00 PM to attend training and technical evaluation and assistance provide by Siemens Jet Tech representative Paul Christiansen. Perform testing for samples collected.
Follow up Aqua Aerobics for disc filter media cleaning procedure.
Follow up with Siemens Sunlight UV system regarding UV low alarm.



PROJECT ACCOMPLISHMENTS
EAST GOSHEN/RIDLEY CREEK SEWAGE TREATMENT PLAN
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- 12-May-11 On site from 9:00 AM through 6:30 PM. Participated in the on site technical training and support provided by Paul Christiansen from Siemens Jet Tech. Assisted in the collection and analysis of samples. Scott Stump and Jesse Goldberg from MEI were present. Tim Daily from PAI arrived on site at 2:12 and stayed through until approximately 4:30 PM.

Met with Rick Smith during the morning and Jack Yahraes periodically during the day.

Disc Filter No.2 was continuing to experience a high vacuum alarm during back wash and suggested to Scott Stump that the filter be removed from service to prevent any damage to the equipment and prevent any further alarms.
- 13-May-11 Carryover of 1.5 hours from being on site on May 12, 2011 for 9.5 hours.
Attend the site to confirm Dutchland's presence and progress towards repairing the corbels and patches in the walkways.
Follow up with MEI on progress of treatment system progress towards reestablishing nitrification. Distribute spreadsheet summarizing data collected during May 11th and 12th.
- 16-May-11 Emails to Jeff Bush regarding issues to correct at RCSTP.
Emails from Paul Christiansen regarding last week's visit which provided training, troubleshooting and technical support.
Conversation with plant operator concerning potential "electrical burn" odor emitting from the centrifuge local MCC. Bearing temperatures on the main and back drive bearings were reported slightly high and increased when additional grease was added.
- 17-May-11 On site from 1:30 PM to 4:00 PM. Review items to be corrected by Worth & Co. Follow up on Plant operators concern of the multiple alarms on the centrifuge control panel, review status of restoration of the nitrification process with MEI, exchange of emails and information with Paul Christiansen from Siemens Jet Tech. Gather information from O&M SBR O&M manuals to develop a PM schedule.



PROJECT ACCOMPLISHMENTS
EAST GOSHEN/RIDLEY CREEK SEWAGE TREATMENT PLAN
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- 18-May-11 Conversation with Jeff Bush regarding outstanding issues of the plant, leaking water through screen building seam, SHT #1 telescopic valve, and main treatment building exhaust fan

Work on SBR PM schedule.
- 19-May-11 Visit to RCSTP to check on floc tank mixer work required by ACS - no hours are recorded. Check status of influent sampler working on flow proportion to influent flow meter.
Prepared report summarizing Paul Christiansen's visit during May 10th through May 12th. Distributed draft for comment.
Fred P. on site at RCSTO to install the replacement leak detection sensor for the soda ash feed pump
- 20-May-11 Email correspondence regarding Siemens training visit, ACS visit and work.
- 23-May-11 Review comments received for draft summary report documenting Paul Christiansen's visit during the week of May 9th. Visit to RCSTP to retrieve comments from MEI (Scott Stump)
Exchanged information with Scott Stump regarding the SBR 2 and centrifuge alarms.
- 24-May-11 On site from 7:30 AM to 10:15 AM.
Sent email to coordinate SBR 2 inspection by Pennoni and Worth.
Incorporated comments, finalized and distributed summary report of Paul Christiansen's visit the week of May 10th.
- 25-May-11 On site at RCSTP with Matt Mullin and Mark Miller troubleshooting the centrifuge control panel to reset the alarms and return the unit to service. Fuses in the control panel were found "blown" and when replaced, immediately "expired." This information and the fuse identification were provided to ABB. Contacted Worth & Co and ABB to schedule a visit to repair the centrifuge/controls.



Brickhouse Environmental

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MAY 2011 SERVICES

- 26-May-11 Gather information for the O&M and process control manual

- 27-May-11 Initial assembly of information for the O&M and process control manual.

- 1-Jun-11 On site at RCSTP 8:30 AM to 11:30 AM.
Met with Mark Miller and Jeff Bush.
Aqua Wastewater management is cleaning SBR number 2.
Coordinated with Alfa Laval to schedule repair of centrifuge for Thursday, June 2nd. Contacted PAI to schedule SBR 2 tank inspection.

- 2-Jun-11 On site at RCSTP to coordinate the repair to the centrifuge by ABB.
Inspected SBR 2 interior and observed "bubbles" beneath CIM coating on floor and rear wall coating. Reviewed removal and cleaning of disc filter no. 2 with MEI. Microscopic exam of SBR 4 - dominate with free swimmers and crawling ciliates. No stalks or rotifers. Indicated young sludge which contributes to the poor settleability being experienced. Emails and telephone calls to Jeff Bush regarding outstanding issues. Dave Wolfinger, PADEP, on site.

- 3-Jun-11 On site at RCSTP for SBR 2 tank inspection.
Update file and time sheet for Brickhouse.
Gather information for O&M and process control manual.



MEMORANDUM

TO: East Goshen Municipal Authority Board
Rick Smith, Township Manager

FROM: Daniel Barbato, P.E.
Authority Engineer

DATE: June 8, 2011

SUBJECT: Engineer's Report

RCSTP Upgrade and Expansion

- Construction phase services continue with punchlist monitoring, review of operations and maintenance submittals and as-built plans, progress meetings, troubleshooting, and coordination with the Project Manager and the Township.
- A breakdown of effort expended over the past month by Pennoni is provided with the invoice detail under separate cover.
- Worth and Company and Clinger Corporation continue working on punchlist completion. A punchlist update for both contractors will be completed in the next week. Verification of completed items continues. Clarification was sent to the Project manager to Clinger regarding closeout requirements. Additional paper copies of the design drawings were sent to Clinger at their request for markup.
- Pennoni was asked provide an opinion on the benefit of a whole-plant blowdown to restart the plant. Pennoni's design engineer was present during the Siemens testing in May and we provided commentary and clarifications to the Project Manager's report on performance testing. We do not believe that draining the SBRs and reseeded is warranted. We have also been provided additional comments to the Township and PM regarding optimization of the plant operations, which are the result of several discussions with the Plant Operator and the Project Manager.
- Matt McAloon of Pennoni was be present on June 3 to assist with the inspection the interior and coating of SBR#2 after it is drained and cleaned.

I/I Metering Project

- The Township continues to meter flows at selected locations. A new program for monitoring meter data is starting up. Meters are in operation in at locations as recommended and two meters will be moved to new locations. Significant progress is being made to reduce infiltration and inflow.

Ridley Creek Consent Order

- The next report is due in September. No comments were received from DEP on the March report.

LCSTP Elimination, Hershey Mill PS Diversion, Reserve PS Elimination Planning

- Pennoni was asked at the last Authority meeting to clarify the two scope of work items listed as “survey allocations”. Site recon and preliminary survey to compare the plans to existing conditions were completed at the end of May. The plans are relatively close to existing conditions with some variances in horizontal and vertical accuracy. The plans provided were based on aerial survey. Based on the recon and preliminary survey, we do not anticipate that a full boundary, topographic, and property survey will be needed unless specifically required to meet DEP permitting requirements.
- A pre-application/closure requirements meeting was held with DEP on June 3 with Pennoni and the Township. DEP believes that sludge can be left in the ponds if properly handled and deemed non-hazardous. DEP will obtain confirmation from their Waste Management Division to confirm this determination. Pennoni will draft a closure plan for review and comment.
- DEP appears to be satisfied with our response to their comments for the Hersheys Mill/Reserve report. We anticipate approval of the reports in the next month.

Marydell PS Elimination Planning

- The draft report for the Act 537 Plan Revision was submitted to DEP in April. No comments have been received from DEP at the time of this report.

Applebrook Spray Irrigation NPDES Permit Renewal

- We are preparing the NPDES discharge permit and anticipate submittal to DEP in Mid-June.

East Goshen Township Municipal Authority

Ridley Creek Sewage Treatment Plant Upgrade and Expansion Project

Project Manager's May 2011 Report

Executive Summary

Efforts during the month of May were largely focused on resolving warranty related issues identified through operation of the facility, on-site technical training and troubleshooting by Siemens Personnel and working with both contractors to provide the necessary documentation required for project close out.

A meeting was held on May 4th to review the documentation required for project closeout. In attendance were representatives from the Municipal Authority, Pennoni Associates, Inc., Brickhouse Environmental, Inc. Worth & Company and Clinger Corporation. Letters summarizing the requirements as specified in the contract documents were provided to both contractors.

During the week of 9th through May 12th, Paul Christiansen from Siemens Jet Tech SBR was on site to provide the third week of technical training and assistance as specified within the contract documents. Process control data was compiled and provided to Mr. Christiansen in advance of his visit so he could familiarize himself with operation of the treatment system. The training was attended by staff from Miller Environmental, Municipal Authority, Pennoni Associates, Inc. and Brickhouse Environmental, Inc. A summary report was prepared and is attached to this report.

Representatives from Clinger Corporation and Worth & Company were on site to address outstanding punch list and warranty items. Clinger provided Staff during the week of May 9th to resolve punch list items. Recent additions to the Worth & Company warranty repair list included a reversing contactor for the incline conveyor for the centrifuge dewatering system. The item was replaced through Worth & Company and the system returned to service.

The wastewater treatment operation and maintenance service provider discontinued the addition of sodium hypochlorite to the SBRs. The treatment system experienced a loss of nitrification resulting in elevated ammonia as nitrogen concentrations in the final effluent. Measures to restore nitrification were implemented and nitrification was restored during the week of May 31st. Measures to improve the settleability of the SBR activated sludge have been implemented to reduce solids loss through the effluent.

SBR number 2 was removed from service, drained and cleaned. The Municipal Authority has contracted with a sludge hauling company to remove and dispose of the sludge and debris that accumulated within the basin. An inspection was performed on June 2, 2011 revealing several "bubbles" beneath the CIM liner. The bubbles were observed to be dry when opened, suggesting the presence of "outgassing" resultant from inadequate the initial surface preparation and/or application condition from the CIM material. A copy of the CIM coating procedure is attached for review.

East Goshen Township Municipal Authority

Ridley Creek Sewage Treatment Plant Upgrade and Expansion Project

The Pennsylvania Department of Environmental Protection Water Quality Specialist/Inspector continues to routinely visit the facility and maintain communication with wastewater treatment operation and maintenance service provider. It is anticipated implementation of the new wastewater treatment permit discharge limitations will be delayed until August 2011, provided the facility has demonstrated consistent compliance with the new discharge permit limits.

The project remains substantially complete with final closeout pending.

Siemens Jet Tech Site Visit for RCSTP

Overall status: 3rd visit for proving in site technical training, support and troubleshooting

Overview

Paul Christiansen, Field Service Engineer, from Siemens Water Technologies was on site May 10th through May 12th to provide on-site training, technical support and troubleshooting assistance for the RCSTP Siemens Jet Tech SBR wastewater treatment system.

Monday, May 9, 2011

Paul Christiansen visited RCSTP during the afternoon and met with representatives from Miller Environmental, Inc.

Tuesday, May 10, 2011

Paul Christensen worked with Scott Stump, plant operator, to perform a aeration diffuser "flush-out" for all four SBRs and cleaning and calibration of the stationary tank mounted Hach LDO dissolved oxygen probes. Paul reviewed the Dissolved oxygen trends, SBR operational set points and available process control and influent test data.

Observations:

SBR Number 2 Motive Pump

The jet mixer motive pump for SBR number 2 was observed to have a lower "pumping rate" as compared to the remaining SBRs. The actual pumping rate was not measured. All eight jet diffusers were observed to be adequately back flushed using the pump. Although the pumping rate was noticeably different from the remaining SBRs, the pump appeared to be providing adequate mixing within the tank. It is suspected that the pump may not be seated properly. It was recommended to leave the pump in service until the need to remove an SBR for the required cleaning and inspection. At this time the pump installation and can evaluated. As a point of reference, this condition was observed previously resulting in the motive pump removal, inspection and return to service by the Municipal Authority Staff. At that time the pump amperage was checked and reported to be slightly lowered than full load.

The motive pump was determined not to be providing adequate mixing within the SBR at the location of the stationary Hach LDO dissolved oxygen probe. The result produced a higher dissolved oxygen concentration remaining the blower to remain off for longer periods than desired. The dissolved oxygen trend did not exhibit the "DO spikes" and produced a trend similar in shape to a rounded right triangle. Operation of the blower without the DO enable command at 50 minutes of air on and 10 minutes of air off produced the desired dissolved oxygen trend exhibiting 2 to 3 "DO spikes." SBR number 2 dissolved oxygen control was set to operate during react phase with 50 minutes of air on and 110 minutes of air off. The dissolved oxygen enabled control will be enabled when sufficient mixing by the motive pump is re-established.

SBR Numbers 2 and 4 Dissolved Oxygen Meters

Calibration of the LDO dissolved oxygen probes revealed that SBRs Numbers 2 and 4 dissolved oxygen scale was set on the factory default of 0 to 20 mg/L. The Siemens SBR controls are based on a dissolved oxygen scale of 0 to 10 mg/L. As a result, the Siemens control panel displayed a dissolved oxygen concentration half of the actual concentration in the SBR. For example, if the Siemens control panel displayed a value of 2.4 mg/L, the actual concentration in the SBR was 4.8 mg/L. The net effect

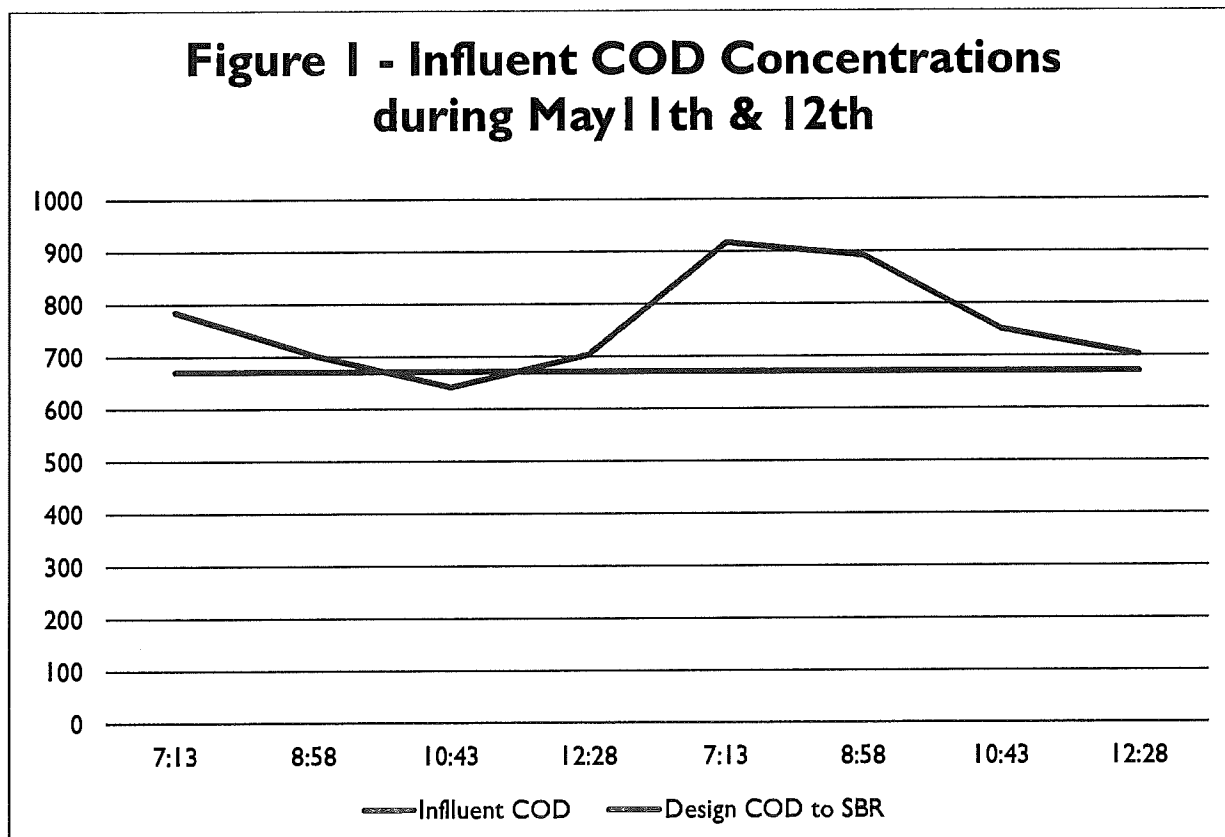
provided for more oxygen than required, impacting solids settleability and the atypical dissolved oxygen trends. The difference in the dissolved oxygen scaling resulted from not turning off the electrical power to the dissolved oxygen meters during replacement of the LDO probes. Paul Christiansen commented that Hach Company's Technical Support neglected to inform the plant operator to disconnect the electrical power during replacement of a LDO probe.

Wednesday May 11th and Thursday May 12th , 2011

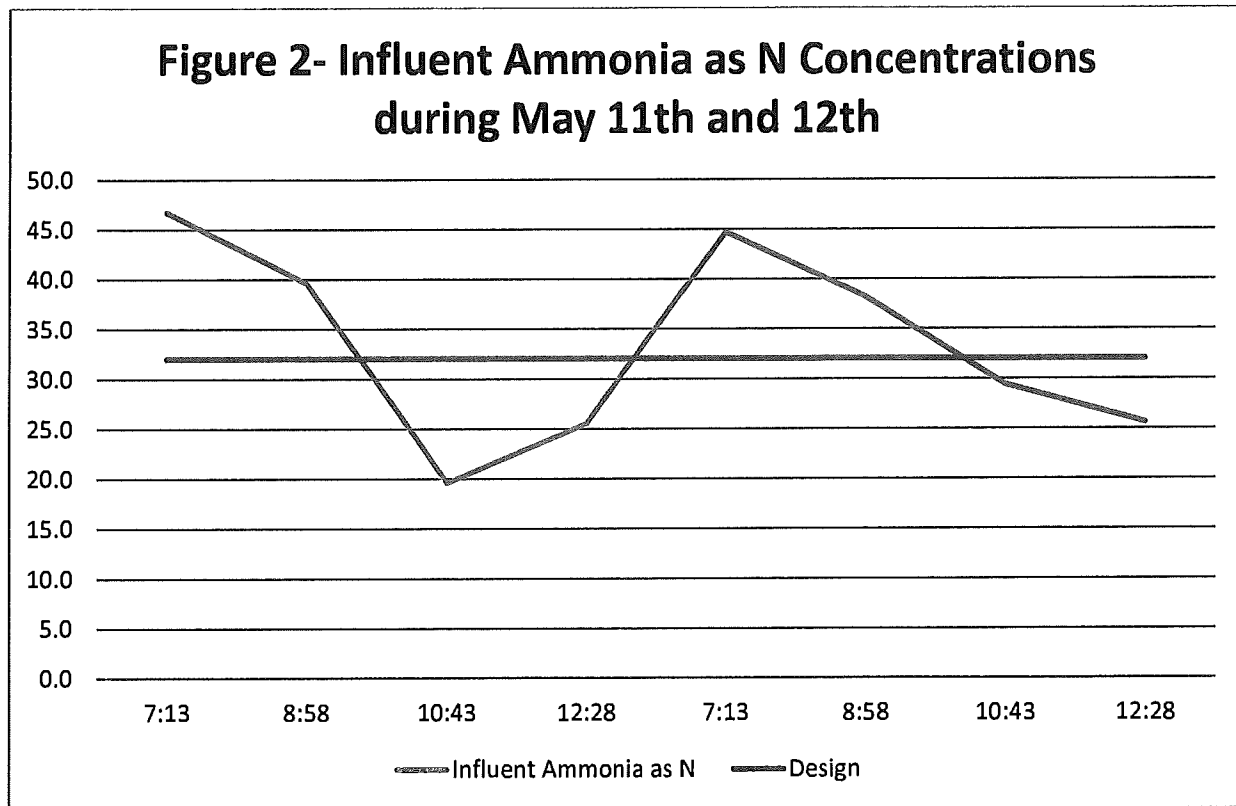
Influent Loadings

Beginning at 7:13 AM, flow proportion influent wastewater samples were collected based on a level change of 0.4 feet within the SBR. The influent wastewater samples were collected during the entire fill cycle for all four SBRs. The influent samples were analyzed on site using Hach Company test tube test reagents for COD and ammonia as nitrogen. It is also noted that the centrifuge was in service operating at a feed rate of 50.4 gpm from approximately 7:50 AM through 3:00 PM (including start up and shut down). In addition, the MLSS was measured for each SBR and ammonia as Nitrogen, nitrate and reactive phosphorus was measured for the effluent decant from each SBR. The data was provided in a spreadsheet and distributed for review and use.

In summary, the morning influent diurnal hydraulic loadings are accompanied by diurnal organic loadings. COD values for the influent were slightly above the COD design concentrations.



In addition, ammonia as nitrogen concentrations was elevated during the early morning and higher than the design concentrations. Figures 1 and 2 illustrate the sample data collected. Hydraulic loading to the treatment plant is approximately 30 to 40%.



SBR Training

The bottom and top water levels are based on a plant design of 520 gpm with a cycle time of 6 hours. Adjusting the settle time, influent fill time, bottom and top water levels will affect the cycle time. Presently, the SBRs are operating at approximately 7 hour cycle times which results in an increased loading to the SBRs. As a result, the plant design flow rate of 520 gpm should be adjusted to coincide with the design conditions. This flow rate set point should be reduced to lower the loadings to the SBRs so they function at or near the design conditions.

Six (6) hour SBR cycles will allow for predictability of what phase each SBR will be in on any given day.

Implement the flow proportional mode for the SBRs. This feature will assist to reduce the condition of over aerating the SBRs during low flow and organic loading periods.

When reviewing the DO trend chart, 2 or 3 Dissolved oxygen "peaks" should indicate adequate dissolved oxygen to meet the demand.

The sums of time for safety settle and settle prep is the estimated time for the SBR to reach maximum high water level.

Settle prep is recommended to be 5 minutes. This time is included as part of the total settle time.

The maximum decant was recommended to be increased to 90 minutes.

The filled decant is not included as part of the SBR influent fill time. For example, if the SBR is in the fill phase and enters into a filled decant, the time during the filled decant is added to the total influent fill time. For example, if the influent fill time is set as 90 minutes and the SBR experiences a 10 minute filled decant, the total influent fill time will be 100 minutes.

The minimum react set point is designed for high flow events to provide treatment.

When the treatment system performance is restored, Paul suggested that a minimum of three (3) SBRs remain in service. His preference is to see all four (4) SBRs in service operating at high and low water elevations that would represent the capacity of 3 SBRs. This would allow for increased safety and handling of high flow events, therefore eliminating (greatly reducing) the occurrence of a filled decant. This process would include lowering the bottom water level to 15 feet (decanter site on the support bracket at 12 feet), lower the top water level to 18.6 feet (batch size is 3.6 feet) and leaving the wall height at 24.00 feet. Another benefit includes alarm response for a SBR failure. In the event that a SBR experiences a critical failure alarm, such as influent valve failure, effluent valve failure or blower failure, the alarm condition must be removed within 5 minutes. If 5 minutes elapse, the control system automatically removes the SBR from service.

After settleability has been restored, open the effluent knife valves 100%. This provides for a scouring effect to dislodge debris from the decanter nozzles.

After nitrification is re-established, the minimum air set point is suggested to be lowered to 120 minutes.

Ammonia reductions measured for three (3) SBR batches are listed below.

| Ammonia Reduction | | | |
|-------------------|-----------------------|-----------------------------|-----------------|
| | SBR Influent NH3-N | SBR Effluent NH3-N, mg/L | Percent Removal |
| SBR 4 | 46.7 | 17.7 | 62.1% |
| SBR 3 | 39.6 | 12.6 | 68.3% |
| SBR 2 | 19.6 | 21.0 | 0.0% |
| SBR 1 | 25.5 | ND | ND |

During inspection of the ½ inch aeration piping saddle bolts, the torque is 30 lbs not 40lbs.

The SBR blowers were designed with suction and discharge gauges. Daily inspection of these gauges was suggested to determine when air filters require replacement.

| MLSS and F:M | | | | | |
|--------------|-------|-------|----------------------------|-----------------------|-------------------------------|
| | MLSS | MLVSS | Percent Volatile Solids | F:M Ratio COD:MLSS | Plant Design, gCOD/gMLSS/d |
| SBR 4 | 1,925 | ND | ND | 0.062 | 0.24 |
| SBR 3 | 2,075 | 1,890 | 91% | 0.050 | 0.24 |
| SBR 2 | 2,940 | 2,500 | 85% | 0.024 | 0.24 |
| SBR 1 | 1,910 | 1,750 | 92% | 0.040 | 0.24 |

Although the organic loadings suggest that a diurnal loading may exceed the design loading for individual batches, the food to mass ratio (F:M) measured for the SBRs on May 11th indicate that the F:M ration is lower than the design. This condition supports the growth of one of the identified filamentous bacterium, *Microthrix parvicella*, which was previously independently identified and ranked in abundance of 3 on a scale of 6. These filaments are common in cold weather, low dissolved oxygen and long sludge retention times (SRTs). The additional dissolved oxygen supplied to the SBRs is anticipated to create an

environment unsuitable for this filamentous bacterium therefore minimizing their adverse impact towards settleability.

April 10th Event

On Monday, April 10, 2011, representatives from Miller Environmental, Inc. observed that the maximum rpm settings for SBR blower number 3 were inconsistent with the remaining blowers. This was later confirmed by Clinger Corporation. The maximum blower run rpms were set at 1340 rpm, whereas the correct set point was 1752 rpm. As a result, the blower would ramp up and down and fail with an over current condition. It should be noted that for two weeks prior to this date, the final effluent was observed to have experienced solids carryover. It is unlikely that a toxic event resulted in the deterioration of the effluent quality, but is more likely the result of the cumulative effects of several variables, including wet weather flow, filamentous control measures and plant operations.

Recommendations

1. Verify the influent organic loadings as indicated by data collected on May 11th and 12th.
2. Collect a flow proportioned influent sample at the influent wet well. This location represents the actual loading to the SBRs and includes any internal recycle flows.
3. Replace the battery in the Siemens SBR plc and ICI's "black box" after one year. Coordinate with ICI to obtain the correct battery information. Batteries can be purchased locally. Batteries should be replaced.
4. Coordinate with Paul for the set points to operate all four SBRs at the capacity of three SBRs.
5. Develop and implement a regime of process control testing and monitoring.
6. Develop and implement a daily equipment inspection checklist
7. Develop and implement a formal preventative maintenance program.
8. Adjust plant operations through sludge wasting and tanks levels to bring the food to mass (F:M) ratio in closer alignment to the design value.
9. Adjust the SBR fill influent fill times to split the "higher" diurnal organic loadings among two SBRs.

Moving Forward

1. Restore nitrification and achieve compliance with effluent discharge limitations
2. Restore settleability to reduce solids carryover in the effluent and achieve a compact sludge blanket.
3. Verify the effluent is in compliance with the NPDES permit.
4. Restore the SBRs to a 6 hour cycle time.
5. Remove SBR number 2 from service. Tighten bolts to specified torque, Inspect motive pump and installation. In addition to Pauls' suggestions and in agreement with the "Dutchland warranty," Inspection of the CIMS 1000 coating, flexural cracks and installation of additional support brackets for the motive pump guiderails should be completed.
6. Drain, clean and inspect all SBRs. It is estimated that removal, cleaning and inspection of an SBR will require approximately one week.
7. Place all four SBRs in service with adjusted water levels and complete the Siemens SBR performance test.
8. Prepare for UV lamp replacements. UV lamps will have been in service for one as of May 4th.
9. Arrange for flow meter calibration. Flow meters have been in service for one year as of May 4th.
10. Prepare for UV lamp replacements. UV lamps will have been in service for one as of May 4th.
11. Arrange for flow meter calibration. Flow meters have been in service for one year as of May 4th.

Summary of Recommendations and Proposed Timelines

| Recommended Task | Proposed Frequency | Proposed Task Owner | Proposed Schedule |
|--|---|------------------------------|--|
| Verify the influent organic loadings | Collect 3 to 5 influent profile samples once a quarter during one year of operation | ETGMA to coordinate with MEI | Begin week of June 6 th for 2 nd Quarter of 2011 |
| Collect Flow proportioned influent samples from influent wet well | Once per Week | MEI | Week of June 1st |
| Replace Batteries in Siemens PLC and ICI's "black box" | Annual | EGTMA | Week of June 1st |
| Coordinate with Paul for the set points to operate all four SBRs at the capacity of three SBRs | As required | MEI | Upon compliance with discharge permit for ammonia as N |
| Develop and implement a regime of process control testing and monitoring | Initial program set up. Annual review and update by EGTMA. | EGTMA with input from MEI | In progress. Draft due for distribution for June 10 th . |
| Develop and implement a daily equipment inspection checklist | Initial program set up. Annual review and update by EGTMA. | EGTMA with input from MEI | In progress. Draft due for distribution for June 10 th . |
| Develop and implement a formal preventative maintenance program | Initial program set up. Annual review and update by EGTMA. | EGTMA with input from MEI | In progress. Draft due for distribution for June 10 th . |
| Adjust plant operations through sludge wasting and tanks levels to bring the food to mass (F:M) ratio in closer alignment to the design value. | As required | MEI | Upon compliance with discharge permit for ammonia as N |
| Adjust the SBR fill influent fill times to split the "higher" diurnal organic loadings among two SBRs. | As required | MEI | Upon compliance with discharge permit for ammonia as N |



Dutchland

INCORPORATED

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Fax 717.442.9330

www.dutchlandinc.com

Specializing
In
Designing
Manufacturing
And
Constructing

June 6, 2011

Worth & Company, Inc.
6263 Kellers Church Road
Pipersville, PA 18947

ATTN: Jeff Bush

Waste
Water
Treatment
Plants

RE: 06176 Ridley Creek WWTP Upgrade – Site visit during emptying of SBR #2

Dear Jeff,

Water
Storage
Tanks

During our site visit on June 3, 2011, we observed that the walls appear to be in excellent shape with no indication of any cracks. However, approximately 15 bubbles were detected in the base to wall sealant on the flange side of the wall in SBR #2. The bubbles ranged in size between a silver dollar and 4" x 6". Several of the bubbles were popped and it was determined that they had been filled with air as there was no moisture or evidence of prior moisture.

Pumping
Stations

Multiple small bubbles were also observed on the end wall on the Northeast corner of SBR #2, most of them the size of a marble or smaller. These did have water inside them and the Southwest wall had a few as well.

Bridge
Culverts

Although our warranty only covers sealants in the case of leaks, Dutchland proposes to address these bubbles as a precautionary measure though they all appear to be air or watertight. The repair would consist of cutting and removing the bubbles and coating the area with Sikagard 62, an epoxy coating that will act as a moisture barrier, prior to recoating the affected areas with CIM.

Custom
Precast
Concrete
Structures

We also want to take the opportunity, while the tanks are empty, to address the issue of the spalling on the tops of some of the corbels. We propose cutting a ¼" x 2 - ½" deep notch in the grout between the corbel and the walkway. We would then fill the notch with Sikaflex 1A. This should resolve the issue of corbel spalling. We will also repair any patches in the walkways as needed.

Should you have any questions about our observations or our planned repairs, please let me know.

Sincerely,

Mark Falcone
Project Manager



23 Elm St., Peterborough, NH 03458
Tel: (800) 543-3458 (603) 924-9481
Fax: (603) 924-9482
Web site: www.cimindustries.com

CIM IG-2
07/10

Instruction Guide APPLICATION OF CIM TO CONCRETE

1.0 DESCRIPTION

This guide covers the installation of a CIM coatings and linings (CIM) over a structurally sound concrete base such as a deck, roof or tank. The CIM shall consist of a minimum of 55 dry mils (see CIM Technical Data Sheet and appropriate coverage chart) applied by spray, squeegee, roller, or trowel. Actual coverage rates may differ from theoretical rates depending on surface profile and application method.

2.0 MATERIALS

2.1 CIM Premix & Activator

2.2 Optional Materials

2.2a. CIM 61BG Epoxy Primer

2.2b. CIM Bonding Agent

2.2c. CIM Scrim

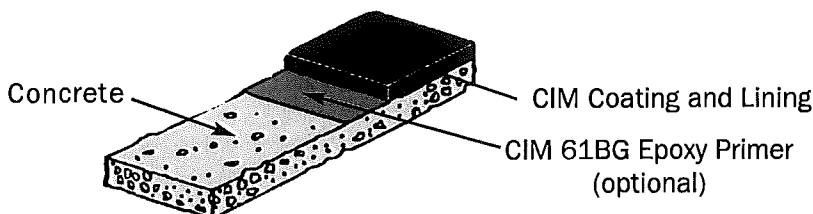
2.2d. CIM 1000 Trowel Grade Premix & Activator

3.0 SAFE PRACTICES

Use equipment and procedures designed to minimize danger to personnel and materials. Special attention should be made to provide adequate ventilation and respirators for personnel applying CIM in confined spaces or operating spray equipment. See C.I.M. Industries' Instruction Guides, "Applying CIM Within Confined Spaces" (IG-9) and "Spray Application of CIM" (IG-12) for more detailed information.

4.0 SURFACE PREPARATION

All areas adjacent to those being coated with CIM which are not intended to be coated should be protected with suitable temporary splash covers such as polyethylene, carpenters paper, or masking tape. CIM shall be applied to clean, dry, structurally sound concrete.¹ Concrete shall only be coated while the concrete is in a temperature declining mode (usually late afternoon). CIM 61BG Epoxy Primer may be used to minimize outgassing.²



Notes:

¹If surfaces are not completely clean, CIM will achieve poor adhesion to the concrete and may experience blistering and possible failure.

²CIM 61BG Epoxy Primer shall be applied at a minimum rate of 5 wet mils. Additional applications of CIM 61BG Epoxy Primer may be required to achieve a pinhole free primer coat. The maximum recoat window for CIM 61BG Epoxy Primer is 48 hours. Please see CIM 61BG Epoxy Primer Technical Data Sheet for additional information.

NOTES:

CONCRETE SHOULD NOT BE COATED WHILE IN DIRECT SUNLIGHT!

Concrete should be coated only while in a temperature declining mode. CIM, because it is black, is a solar absorber and can increase the surface temperature of the concrete by as much as 90°F. This, in turn, heats up the air trapped within the concrete's pores. The air expands and tries to push its way out of the concrete, creating hundreds of bubbles, otherwise known as outgassing. Therefore, if concrete is coated in direct sunlight (e.g. a temperature rising mode), outgassing will generally occur.

4.1 New Concrete

New concrete must have a minimum compressive strength of 3,000 psi, be dry, and be free of release agents or curing compounds prior to the application of CIM. CIM may be applied directly to concrete laitance but good adhesion is unlikely. Due to the poor tensile properties of concrete laitance, it is recommended to remove the concrete laitance and expose the tops of the underlying aggregate. This condition is typically represented by an ICRI Concrete Surface Profile of 4 to 6 to expose aggregate. In order to properly prepare the concrete, and remove any release agents or curing compounds, any one of the following can be performed:

1. Abrasive blasting (ASTM D 4259-88)
2. Water blasting (ASTM D 4259-88) (generally at 5,000 psi minimum), allow concrete to dry
3. Shot blast (ASTM D 4259-88), horizontal surfaces

4.2 Old Concrete

Old concrete must be clean and dry, and free of oil, grease and loose powder or debris. It is highly recommended to remove the existing concrete laitance on the surface and expose the tops of the underlying aggregate. This condition is typically represented by an ICRI Concrete Surface Profile of 4 to 6. In order to properly prepare the concrete, and remove contaminants, any one of the following can be performed:

1. Abrasive blasting (ASTM D 4259-88)
2. Water blasting (ASTM D 4259-88) (generally at 5,000 psi minimum), allow concrete to dry
3. Shot blast (ASTM D 4259-88), horizontal surfaces

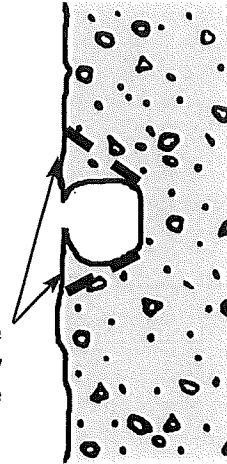
NOTES:

4.3 Bugholes

Bugholes appear as small holes in concrete. These holes often lead to larger holes under the surface of the concrete (see Figure 2). It is important to blast all concrete surfaces where bugholes are present to expose the full view of the hole (no "blind" side surfaces). Bugholes should be filled with appropriate repair materials and may require an abrasive blast to remove any loose powder or debris.

Figure 2

Expose bughole to full view by removing blind side surfaces.



4.4 Testing for Moisture

Although concrete may appear to be dry on the surface, there is often an abundance of moisture below the surface. An abundance of moisture in the concrete during application will result in poor adhesion and eventually blisters in the coating. Consistent with industry standards, C.I.M. Industries recommends performing two or more of the following tests to confirm appropriate moisture levels for properly prepared substrates:

- | | |
|---|--------------------------------|
| 1. Plastic Sheet method (ASTM D4263) | Pass/Fail |
| 2. Relative Humidity test (ASTM F2170-09) | <85% |
| 3. Calcium Chloride test | <5 lb/1,000 sq ft per 24 hr |
| 4. Radio Frequency test | < 5 % moisture |

(as outlined in "Drying Concrete" by Lew Harriman in the March 1995 issue of *The Construction Specifier Magazine*)

5.0 APPLICATION

5.1 Cracks in Concrete (all applications)

Cracks less than $\frac{1}{16}$ " wide typically do not require special treatment. All cracks $\frac{1}{16}$ " to $\frac{1}{8}$ " wide shall be stripe coated and filled with CIM prior to the application of the CIM. Vertical and sloped walls require the use

NOTES:

of CIM 1000 Trowel Grade to fill cracks. If cracks are more than $\frac{1}{8}$ " wide or experience movement, refer to manufacturer for patch/fill details. Proper joint design shall be used. CIM Scrim may be used to reinforce cracks and joints. See section 5.4 for further details.

5.2 Penetrations

Penetrations must be coated with CIM 1000 Trowel Grade at all horizontal to vertical transitions. CIM 1000 Trowel Grade should be applied at least 60 wet mils thick, 2" onto and 2" beyond the penetration. Please see section 5.8 for application procedures for multiple coats. If work stoppage is unavoidable see sections 5.9 and 5.10.

CIM will adhere to most clean construction materials. When coating substrates other than concrete, please see the C.I.M. Industries' specific substrate Instruction Guide for detailed information of application procedures.

5.3 Sharp Edges

CIM 1000 Trowel Grade may be used on sharp edges to prevent thin spots from occurring. The entire area should be coated with the specified thickness of CIM coating within 4 hours after troweling sharp edges. Do not allow CIM 1000 Trowel Grade to cure more than four (4) hours at 70°F before coating with additional applications of CIM. If work stoppage is unavoidable see sections 5.9 and 5.10.

5.4 Using CIM Scrim

CIM Scrim may also be used on sharp edges to prevent thin spots from occurring. After the substrate is properly prepared apply a thin tack coat, 10–20 mils, of CIM. Push scrim evenly into tack coat and allow to cure for 1–4 hours. Apply 60 wet mils of CIM directly over scrim. CIM Scrim acts as a coverage gauge to insure thickness.

5.5 Cant Strips

Cant strips should be made with CIM 1000 Trowel Grade Cartridges wherever horizontal surfaces meet vertical surfaces. This is crucial in applications such as tanks which experience wall movement when filled, and where concrete shifts due to expansion and contraction. Cant strips are generally $\frac{1}{2}$ " or more wide by $\frac{1}{2}$ " or more tall. Allow the cant to cure for a minimum of 12 hours at 70°F. Contact C.I.M. Industries for specific design details.

NOTES:

5.6 Horizontal Surfaces

CIM should be applied to concrete at a film thickness of 60 wet mils, depending on application type. This can be achieved in a single coat on horizontal surfaces.

5.7 Vertical and Sloped Surfaces

CIM can be applied to a vertical or sloped surface with a roller, brush or spray equipment. Small walls are often coated with rollers or brushes. Large walls should be sprayed using an air assisted airless spray system or plural component spray system. See C.I.M. Industries' Instruction Guide, "Spray Application of CIM" (IG-12) or contact C.I.M. Industries for suggested equipment configuration. When working with CIM, vertical or sloped surfaces require a minimum of two (2) applications of approximately 30 mils each to obtain the required thickness. If a coating thickness of more than approximately 60 wet mils is specified on a vertical or sloped surface, additional coats will be required to achieve desired thickness.

5.8 Multiple Coats

Second/multiple coats can be applied as soon as the previous coat can be touched lightly without coming off on your finger. For CIM at 70°F, the tack free time is typically one (1) hour but no longer than four (4) hours after the previous coat has been applied. Higher temperatures speed up the curing time, and tack free time, therefore significantly shortening the 1-4 hour recoat window. Colder temperatures have the opposite effect. As soon as the coating becomes tack free, the second coat should be applied. For immersion or traffic service, apply all coats within the recoat window, except at joint lines

If it is necessary to walk on the first coat of CIM in order to apply multiple coats, such as when coating a parking or pedestrian deck, polyethylene boots may be worn to prevent sticking to the coating.

5.9 Recoating After the Recoat Window

If second/multiple coats cannot be applied within the recoat window (1-4 hours under standard conditions), the previous coat must be abraded. Abrading shall be performed by surface grinder or other mechanical means. The CIM must be solvent wiped (MEK or xylene) to clean up any loose debris. After the solvent flashes off, a light mist of CIM Bonding Agent must be applied. Allow the Bonding Agent to flash off and recoat within one (1) hour. See CIM Bonding Agent Technical Data

NOTES:

Sheet for additional guidelines. For immersion or traffic service, minimize areas to be recoated outside the recoat window, severely abrade the areas to be recoated and test recoated areas for acceptable adhesion. Acceptable adhesion may only be achieved through aggressive abrading.

5.10 Overlap at Joints

Should rain or other conditions require work stoppage, prepare for joint lines. Joint lines shall be clean and straight. The overlap shall be a minimum of 6" to insure an impervious joint. All areas to be coated where more than a four (4) hour cure has taken place shall be treated per section 5.9, "Recoating After the Recoat Window."

6.0 TOPPINGS

The CIM may include toppings of aggregate, decorative coatings, protective coatings, or combinations of the above. See C.I.M. Industries' Instruction Guide, "Topcoats" (IG-7) for more detailed information.

7.0 GENERAL LIMITATIONS

Applying CIM under any of the following conditions is likely to result in poor or unsatisfactory performance:

- Use of improper mixing equipment. See C.I.M. Industries' Instruction Guide "Mixing CIM Premix and Activator" (IG-8).
- Material temperature at the time of application is below 60°F.
- Use of standard application procedures when substrate temperature is below 50°F. See C.I.M. Industries' Instruction Guide "Applying CIM Coatings in Cold Weather" (IG-11).
- Substrate moisture is present or rain is imminent.
- Substrate temperature is less than 5°F above the dew point.
- Substrate is in a temperature-rising mode or exposed to direct sunlight.
- Other conditions which are obviously unsuitable.

Application and Certificate For Payment

| | | |
|---|--|--|
| To Owner: East Goshen Municipal Authority 1580 Paoli Pike West Chester, PA 19380 | Project: Ridley Creek WWTP 1751 Towne Road Fred Papiermik 267-278-6108 West Chester, PA 19380 | Application No: 25 Date: 05/20/2011 Period To: 05/20/11 Architect's Project No: Contract Date: 10/22/08 |
| From (Contractor): Worth and Company, Inc. 6263 Kellers Church Road Pipersville, PA 18947 | Contractor Job Number: P28001 Via (Architect): Contract For: | |
| Phone: 267 362-1100 | | |

Contractor's Application For Payment

| Change Order Summary | Additions | Deductions |
|--|------------------|------------|
| Change orders approved in previous months by owner | 72,938.16 | -42,648.25 |
| Change orders approved this month | | |
| Totals | 30,289.91 | |

| | |
|--|--------------|
| Original contract sum | 7,865,400.00 |
| Net change by change orders | 30,289.91 |
| Contract sum to date | 7,895,689.91 |
| Total completed and stored to date | 7,895,689.91 |
| Retainage | 0.00 |
| 0.0% of completed work | 0.00 |
| 0.0% of stored material | 0.00 |
| Total retainage | 7,895,689.91 |
| Total earned less retainage | 7,770,366.12 |
| Less previous certificates of payment | 125,323.79 |
| Current payment due | 0.00 |
| Balance to finish, including retainage | 0.00 |

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information, and belief the work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

Contractor: Linda D. Nelson Date: 5/19/11

State of: PA County of: Bucks
 Subscribed and sworn to before me this 19th day of May 2011 (year).
 Notary Public: Linda D. Nelson
 My commission expires: _____

COMMONWEALTH OF PENNSYLVANIA
 Notarial Seal
 Linda D. Nelson, Notary Public
 Plumstead Twp., Bucks County
 My Commission Expires Sept. 19, 2014
 Member, Pennsylvania Association of Notaries

Architect's Certificate for Payment

In accordance with the Contract Documents, based on on-site observations and the data comprising the above application the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the Amount Certified.

Architect: _____
 By: _____ Date: _____

This Certification is not negotiable. The Amount Certified is payable only to the Contractor named herein. Issuance, payment, and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

Amount Certified: \$ _____

Application and Certificate For Payment -- page 2

To Owner: East Goshen Municipal Authority
 From (Contractor): Worth and Company, Inc.
 Project: Ridley Creek WWTP

Application No: 25
 Contractor's Job Number: P28001
 Architect's Project No:

Date: 05/20/11
 Period To: 05/20/11

| Item Number | Description | Scheduled Value | Work Completed | | Materials Presently Stored | Completed and Stored to Date | % | Balance to Finish | Retention | Memo |
|-----------------|------------------------------------|------------------|----------------------|------------------|----------------------------|------------------------------|---------------|-------------------|-------------|------|
| | | | Previous Application | This Period | | | | | | |
| CO-001 | Blower Repairs | 3,209.70 | 3,209.70 | 0.00 | 0.00 | 3,209.70 | 100.00 | 0.00 | 0.00 | |
| CO-001A | Anit Flotation Collar | 2,703.00 | 2,703.00 | 0.00 | 0.00 | 2,703.00 | 100.00 | 0.00 | 0.00 | |
| CO-001B | Blower 2 repairs | 5,542.80 | 5,542.80 | 0.00 | 0.00 | 5,542.80 | 100.00 | 0.00 | 0.00 | |
| CO-001C | Top Entry Mixer change | 6,784.65 | 6,784.65 | 0.00 | 0.00 | 6,784.65 | 100.00 | 0.00 | 0.00 | |
| CO-001D | SBR Handrail | 4,494.52 | 4,494.52 | 0.00 | 0.00 | 4,494.52 | 100.00 | 0.00 | 0.00 | |
| CO-001E | Blower 3 Repairs | 4,617.08 | 4,617.08 | 0.00 | 0.00 | 4,617.08 | 100.00 | 0.00 | 0.00 | |
| CO-001F | Paving Credit | -50,000.00 | -50,000.00 | 0.00 | 0.00 | -50,000.00 | 100.00 | 0.00 | 0.00 | |
| CO-001G | SBR Wall Credit | -20,000.00 | -20,000.00 | 0.00 | 0.00 | -20,000.00 | 100.00 | 0.00 | 0.00 | |
| CO-002 | PVC Credit Lieu of Cast Iron | -6,250.00 | -6,250.00 | 0.00 | 0.00 | -6,250.00 | 100.00 | 0.00 | 0.00 | |
| CO-002A | Concrete Wall @ UV Channel | 11,357.25 | 11,357.25 | 0.00 | 0.00 | 11,357.25 | 100.00 | 0.00 | 0.00 | |
| CO-002B | Blower 4 Repairs | 6,126.78 | 6,126.78 | 0.00 | 0.00 | 6,126.78 | 100.00 | 0.00 | 0.00 | |
| CO-003 | (24) Air Drops | 27,702.20 | 27,702.20 | 0.00 | 0.00 | 27,702.20 | 100.00 | 0.00 | 0.00 | |
| CO-003A | New Doors | 3,516.77 | 3,516.77 | 0.00 | 0.00 | 3,516.77 | 100.00 | 0.00 | 0.00 | |
| CO-003B | Paint Digester Walkway | 18,094.59 | 18,094.59 | 0.00 | 0.00 | 18,094.59 | 100.00 | 0.00 | 0.00 | |
| CO-003C | Digester Concrete Credit | -13,875.00 | -13,875.00 | 0.00 | 0.00 | -13,875.00 | 100.00 | 0.00 | 0.00 | |
| CO-004 | Centrifuge Platform | 6,671.26 | 0.00 | 6,671.26 | 0.00 | 6,671.26 | 100.00 | 0.00 | 0.00 | |
| CO-004A | Additional Block for Roof | 5,932.27 | 0.00 | 5,932.27 | 0.00 | 5,932.27 | 100.00 | 0.00 | 0.00 | |
| CO-004B | Additional Fence | 3,050.21 | 0.00 | 3,050.21 | 0.00 | 3,050.21 | 100.00 | 0.00 | 0.00 | |
| CO-005 | Transfer Treatment Bldg beam | 4,703.27 | 0.00 | 4,703.27 | 0.00 | 4,703.27 | 100.00 | 0.00 | 0.00 | |
| CO-005A | Screen Bldg Steel Modification | 4,499.12 | 0.00 | 4,499.12 | 0.00 | 4,499.12 | 100.00 | 0.00 | 0.00 | |
| CO-005B | Perimeter Fence Gate | 1,409.44 | 0.00 | 1,409.44 | 0.00 | 1,409.44 | 100.00 | 0.00 | 0.00 | |
| Subtotal | | 30,289.91 | 4,024.34 | 26,265.57 | 0.00 | 30,289.91 | 100.00 | 0.00 | 0.00 | |
| G1-000 | Site Work & Yard Piping | | | | | | | | | |
| G1-001 | Bonds | 160,000.00 | 160,000.00 | 0.00 | 0.00 | 160,000.00 | 100.00 | 0.00 | 0.00 | |
| G1-002 | Insurance | 50,000.00 | 50,000.00 | 0.00 | 0.00 | 50,000.00 | 100.00 | 0.00 | 0.00 | |
| G1-003 | Mobilization | 100,000.00 | 100,000.00 | 0.00 | 0.00 | 100,000.00 | 100.00 | 0.00 | 0.00 | |

Application and Certificate For Payment -- page 3

To Owner: East Goshen Municipal Authority
 From (Contractor): Worth and Company, Inc.
 Project: Ridley Creek WWTP

Application No: 25
 Contractor's Job Number: P28001
 Architect's Project No:

Date: 05/20/11
 Period To: 05/20/11

| Item Number | Description | Scheduled Value | Work Completed | | | Materials Presently Stored | Completed and Stored to Date | % | Balance to Finish | Retention | Memo |
|-------------|------------------------------|-----------------|----------------------|-------------|------|----------------------------|------------------------------|------|-------------------|-----------|------|
| | | | Previous Application | This Period | | | | | | | |
| G1-004 | Pre-Planning/Schedule | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-005 | Submittals - Dutchland | 15,000.00 | 15,000.00 | 0.00 | 0.00 | 15,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-006 | Submittals - Jet Tech | 15,000.00 | 15,000.00 | 0.00 | 0.00 | 15,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-007 | E & S Controls | 25,000.00 | 25,000.00 | 0.00 | 0.00 | 25,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-008 | Strip Topsoil | 50,000.00 | 50,000.00 | 0.00 | 0.00 | 50,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-009 | Temporary Seed | 5,000.00 | 5,000.00 | 0.00 | 0.00 | 5,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-010 | Bioretention Basin 1 | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-011 | Bioretention Basin 2 | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-012 | Temporary Fence | 9,000.00 | 9,000.00 | 0.00 | 0.00 | 9,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-013 | Influent Force Main | 85,000.00 | 85,000.00 | 0.00 | 0.00 | 85,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-014 | Filter Feed Force Main | 85,000.00 | 85,000.00 | 0.00 | 0.00 | 85,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-015 | Filter Effluent | 55,000.00 | 55,000.00 | 0.00 | 0.00 | 55,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-016 | System Effluent | 55,000.00 | 55,000.00 | 0.00 | 0.00 | 55,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-017 | Filter Feed Pump Suction | 25,000.00 | 25,000.00 | 0.00 | 0.00 | 25,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-018 | Filter Feed Pump Discharge | 25,000.00 | 25,000.00 | 0.00 | 0.00 | 25,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-019 | Flocculation Tank to Filters | 50,000.00 | 50,000.00 | 0.00 | 0.00 | 50,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-020 | 4" WAS | 45,000.00 | 45,000.00 | 0.00 | 0.00 | 45,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-021 | Yard Drain | 70,000.00 | 70,000.00 | 0.00 | 0.00 | 70,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-022 | Sludge Pump Suction | 25,000.00 | 25,000.00 | 0.00 | 0.00 | 25,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-023 | Relocate Air Lines | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-024 | Influent | 45,000.00 | 45,000.00 | 0.00 | 0.00 | 45,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-025 | Utility Water | 75,000.00 | 75,000.00 | 0.00 | 0.00 | 75,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-026 | Apple Brook Discharge | 15,000.00 | 15,000.00 | 0.00 | 0.00 | 15,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-027 | PVC Chemical Carrier Pipe | 25,000.00 | 25,000.00 | 0.00 | 0.00 | 25,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-028 | Potable Water | 45,000.00 | 45,000.00 | 0.00 | 0.00 | 45,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |
| G1-029 | 8" Underdrain | 40,000.00 | 40,000.00 | 0.00 | 0.00 | 40,000.00 | 100.00 | 0.00 | 0.00 | 0.00 | |

Application and Certificate For Payment -- page 4

To Owner: East Goshen Municipal Authority
 From (Contractor): Worth and Company, Inc.
 Project: Ridley Creek WWTP

Application No: 25
 Contractor's Job Number: P28001
 Architect's Project No:

Period To: 05/20/11

| Item Number | Description | Scheduled Value | Work Completed | | Materials Presently Stored | Completed and Stored to Date | % | Balance to Finish | Retention | Memo |
|-----------------|---------------------------------------|---------------------|----------------------|-------------|----------------------------|------------------------------|---------------|-------------------|-------------|------|
| | | | Previous Application | This Period | | | | | | |
| G1-030 | 1" Compressed Air | 15,000.00 | 15,000.00 | 0.00 | 0.00 | 15,000.00 | 100.00 | 0.00 | 0.00 | |
| G1-031 | Sidewalks | 15,000.00 | 15,000.00 | 0.00 | 0.00 | 15,000.00 | 100.00 | 0.00 | 0.00 | |
| G1-032 | VOID | | | | | | | | | |
| G1-033 | VOID | | | | | | | | | |
| G1-034 | Block | 1,000.00 | 1,000.00 | 0.00 | 0.00 | 1,000.00 | 100.00 | 0.00 | 0.00 | |
| G1-035 | Chain Link Fence | 30,000.00 | 30,000.00 | 0.00 | 0.00 | 30,000.00 | 100.00 | 0.00 | 0.00 | |
| G1-036 | Demo Existing Fence | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00 | 0.00 | 0.00 | |
| Subtotal | | 1,345,000.00 | 1,345,000.00 | 0.00 | 0.00 | 1,345,000.00 | 100.00 | 0.00 | 0.00 | |
| G2-000 | Pump Station & Valve Vault | | | | | | | | | |
| G2-001 | Excavate Pump Station | 52,000.00 | 52,000.00 | 0.00 | 0.00 | 52,000.00 | 100.00 | 0.00 | 0.00 | |
| G2-002 | Install Precast Pump Station | 68,000.00 | 68,000.00 | 0.00 | 0.00 | 68,000.00 | 100.00 | 0.00 | 0.00 | |
| G2-003 | Install Anti-Flotation Collar | 3,500.00 | 3,500.00 | 0.00 | 0.00 | 3,500.00 | 100.00 | 0.00 | 0.00 | |
| G2-004 | Backfill Pump Station | 12,000.00 | 12,000.00 | 0.00 | 0.00 | 12,000.00 | 100.00 | 0.00 | 0.00 | |
| G2-005 | Excavate Valve Vault | 15,000.00 | 15,000.00 | 0.00 | 0.00 | 15,000.00 | 100.00 | 0.00 | 0.00 | |
| G2-006 | Install Valve Vault | 28,000.00 | 28,000.00 | 0.00 | 0.00 | 28,000.00 | 100.00 | 0.00 | 0.00 | |
| G2-007 | Backfill Valve Vault | 7,500.00 | 7,500.00 | 0.00 | 0.00 | 7,500.00 | 100.00 | 0.00 | 0.00 | |
| G2-008 | Painting | 9,000.00 | 9,000.00 | 0.00 | 0.00 | 9,000.00 | 100.00 | 0.00 | 0.00 | |
| G2-009 | Pipe/Valves/Fittings | 15,000.00 | 15,000.00 | 0.00 | 0.00 | 15,000.00 | 100.00 | 0.00 | 0.00 | |
| G2-010 | Influent Pumps | 65,000.00 | 65,000.00 | 0.00 | 0.00 | 65,000.00 | 100.00 | 0.00 | 0.00 | |
| Subtotal | | 275,000.00 | 275,000.00 | 0.00 | 0.00 | 275,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-000 | Screen Building | | | | | | | | | |
| G3-001 | Excavate Screen Bldg; Elev 13' | 38,000.00 | 38,000.00 | 0.00 | 0.00 | 38,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-002 | Stone Underslab | 5,000.00 | 5,000.00 | 0.00 | 0.00 | 5,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-003 | Form/Pour 18" Thick Slab | 39,000.00 | 39,000.00 | 0.00 | 0.00 | 39,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-004 | Form/Pour Exterior Walls | 65,000.00 | 65,000.00 | 0.00 | 0.00 | 65,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-005 | Backfill | 12,000.00 | 12,000.00 | 0.00 | 0.00 | 12,000.00 | 100.00 | 0.00 | 0.00 | |

Application and Certificate For Payment -- page 5

To Owner: East Goshen Municipal Authority
 From (Contractor): Worth and Company, Inc.
 Project: Ridley Creek WWTP

Application No: 25
 Contractor's Job Number: P28001
 Architect's Project No:

Date: 05/20/11
 Period To: 05/20/11

| Item Number | Description | Scheduled Value | Work Completed | | Materials Presently Stored | Completed and Stored to Date | % | Balance to Finish | Retention | Memo |
|-------------|---|-----------------|----------------------|-------------|----------------------------|------------------------------|--------|-------------------|-----------|------|
| | | | Previous Application | This Period | | | | | | |
| G3-006 | Excavate Footers; Elev 2'8" | 7,000.00 | 7,000.00 | 0.00 | 0.00 | 7,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-007 | Form/Pour Footers | 12,000.00 | 12,000.00 | 0.00 | 0.00 | 12,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-008 | Install Masonry Frost Wall | 9,000.00 | 9,000.00 | 0.00 | 0.00 | 9,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-009 | Pour Slab | 8,000.00 | 8,000.00 | 0.00 | 0.00 | 8,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-010 | Form/Pour Channel Walls | 50,000.00 | 50,000.00 | 0.00 | 0.00 | 50,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-011 | Install Exterior Masonry Walls | 30,000.00 | 30,000.00 | 0.00 | 0.00 | 30,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-012 | Structural Steel | 3,000.00 | 3,000.00 | 0.00 | 0.00 | 3,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-013 | Misc Metals | 8,000.00 | 8,000.00 | 0.00 | 0.00 | 8,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-014 | Rough Carpentry | 24,000.00 | 24,000.00 | 0.00 | 0.00 | 24,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-015 | Drywit | 18,000.00 | 18,000.00 | 0.00 | 0.00 | 18,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-016 | FRP Grating | 4,000.00 | 4,000.00 | 0.00 | 0.00 | 4,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-017 | Hollow Metal & FRP Doors | 1,500.00 | 1,500.00 | 0.00 | 0.00 | 1,500.00 | 100.00 | 0.00 | 0.00 | |
| G3-018 | Overhead Doors | 17,500.00 | 17,500.00 | 0.00 | 0.00 | 17,500.00 | 100.00 | 0.00 | 0.00 | |
| G3-019 | Trolley & Hoist | 2,000.00 | 2,000.00 | 0.00 | 0.00 | 2,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-020 | Plumbing | 5,000.00 | 5,000.00 | 0.00 | 0.00 | 5,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-021 | HVAC | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00 | 0.00 | 0.00 | |
| G3-022 | Painting | 12,000.00 | 12,000.00 | 0.00 | 0.00 | 12,000.00 | 100.00 | 0.00 | 0.00 | |
| | Subtotal | 380,000.00 | 380,000.00 | 0.00 | 0.00 | 380,000.00 | 100.00 | 0.00 | 0.00 | |
| G4-000 | Grinder w/RotatingScreen&Auger | | | | | | | | | |
| G4-001 | Screen | 180,000.00 | 180,000.00 | 0.00 | 0.00 | 180,000.00 | 100.00 | 0.00 | 0.00 | |
| | Subtotal | 180,000.00 | 180,000.00 | 0.00 | 0.00 | 180,000.00 | 100.00 | 0.00 | 0.00 | |
| G5-000 | PrecastPost TensionedSBR Tanks | | | | | | | | | |
| G5-001 | Bulk Excavate SBR Structure | 100,000.00 | 100,000.00 | 0.00 | 0.00 | 100,000.00 | 100.00 | 0.00 | 0.00 | |
| G5-002 | Stone Underslab-SBR Structure | 30,000.00 | 30,000.00 | 0.00 | 0.00 | 30,000.00 | 100.00 | 0.00 | 0.00 | |
| G5-003 | Concrete Base Slab for SBR | 690,000.00 | 690,000.00 | 0.00 | 0.00 | 690,000.00 | 100.00 | 0.00 | 0.00 | |
| G5-004 | Backfill Tank | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00 | 0.00 | 0.00 | |

Application and Certificate For Payment -- page 6

To Owner: East Goshen Municipal Authority
 From (Contractor): Worth and Company, Inc.
 Project: Ridley Creek WWTP

Application No: 25
 Contractor's Job Number: P28001
 Architect's Project No:

Period To: 05/20/11

Work Completed

| Item Number | Description | Scheduled Value | Previous Application | This Period | Materials Presently Stored | Completed and Stored to Date | % | Balance to Finish | Retention | Memo |
|---------------|-------------------------------|---------------------|----------------------|-------------|----------------------------|------------------------------|---------------|-------------------|-------------|------|
| G5-005 | Walls & Walkways | 750,000.00 | 750,000.00 | 0.00 | 0.00 | 750,000.00 | 100.00 | 0.00 | 0.00 | |
| G5-006 | Misc Metals | 60,000.00 | 60,000.00 | 0.00 | 0.00 | 60,000.00 | 100.00 | 0.00 | 0.00 | |
| | Subtotal | 1,650,000.00 | 1,650,000.00 | 0.00 | 0.00 | 1,650,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-000 | Treatment Building | | | | | | | | | |
| G6-001 | Excavate Footers | 40,000.00 | 40,000.00 | 0.00 | 0.00 | 40,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-002 | Pour Footers | 15,000.00 | 15,000.00 | 0.00 | 0.00 | 15,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-003 | Pour Pier Footers | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-004 | Pour Piers | 8,000.00 | 8,000.00 | 0.00 | 0.00 | 8,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-005 | Masonry Frost Walls | 15,000.00 | 15,000.00 | 0.00 | 0.00 | 15,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-006 | Backfill | 8,000.00 | 8,000.00 | 0.00 | 0.00 | 8,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-007 | Stone Under Slab | 6,000.00 | 6,000.00 | 0.00 | 0.00 | 6,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-008 | Plumbing Under Slab | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-009 | Concrete Slab | 18,000.00 | 18,000.00 | 0.00 | 0.00 | 18,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-010 | Precast Flocculation Tank | 35,000.00 | 35,000.00 | 0.00 | 0.00 | 35,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-011 | Precast Effluent Storage Tank | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-012 | Poured In Place UV Channel | 25,000.00 | 25,000.00 | 0.00 | 0.00 | 25,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-013 | Masonry | 72,000.00 | 72,000.00 | 0.00 | 0.00 | 72,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-014 | Structural Steel & Deck | 28,000.00 | 28,000.00 | 0.00 | 0.00 | 28,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-015 | Misc Metals | 25,000.00 | 25,000.00 | 0.00 | 0.00 | 25,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-016 | FRP Grating | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-017 | Dryvit | 35,000.00 | 35,000.00 | 0.00 | 0.00 | 35,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-018 | EPDM Roofing | 40,000.00 | 40,000.00 | 0.00 | 0.00 | 40,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-019 | Caulking | 5,000.00 | 5,000.00 | 0.00 | 0.00 | 5,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-020 | Hollow Metal & FRP Doors | 2,500.00 | 2,500.00 | 0.00 | 0.00 | 2,500.00 | 100.00 | 0.00 | 0.00 | |
| G6-021 | Overhead Doors | 19,500.00 | 19,500.00 | 0.00 | 0.00 | 19,500.00 | 100.00 | 0.00 | 0.00 | |
| G6-022 | Painting | 35,000.00 | 35,000.00 | 0.00 | 0.00 | 35,000.00 | 100.00 | 0.00 | 0.00 | |

Application and Certificate For Payment --- page 7

To Owner: East Goshen Municipal Authority
 From (Contractor): Worth and Company, Inc.
 Project: Ridley Creek WWTP

Application No: 25
 Contractor's Job Number: P28001
 Architect's Project No:

Date: 05/20/11
 Period To: 05/20/11

| Item Number | Description | Scheduled Value | Work Completed | | Materials Presently Stored | Completed and Stored to Date | % | Balance to Finish | Retention | Memo |
|--|--------------------------------|---------------------|----------------------|-------------|----------------------------|------------------------------|---------------|-------------------|-------------|------|
| | | | Previous Application | This Period | | | | | | |
| G6-023 | Top Entry Mixer | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-024 | Plumbing | 23,000.00 | 23,000.00 | 0.00 | 0.00 | 23,000.00 | 100.00 | 0.00 | 0.00 | |
| G6-025 | HVAC | 50,000.00 | 50,000.00 | 0.00 | 0.00 | 50,000.00 | 100.00 | 0.00 | 0.00 | |
| Subtotal | | 575,000.00 | 575,000.00 | 0.00 | 0.00 | 575,000.00 | 100.00 | 0.00 | 0.00 | |
| SBR/Chem Feed & Process Piping | | | | | | | | | | |
| G7-001 | SBR Equipment | 790,000.00 | 790,000.00 | 0.00 | 0.00 | 790,000.00 | 100.00 | 0.00 | 0.00 | |
| G7-002 | Polymer Feed System | 18,000.00 | 18,000.00 | 0.00 | 0.00 | 18,000.00 | 100.00 | 0.00 | 0.00 | |
| G7-003 | Chem Feed Pumps & Piping | 18,000.00 | 18,000.00 | 0.00 | 0.00 | 18,000.00 | 100.00 | 0.00 | 0.00 | |
| G7-004 | Inline Static Mixers | 25,500.00 | 25,500.00 | 0.00 | 0.00 | 25,500.00 | 100.00 | 0.00 | 0.00 | |
| G7-005 | Inline Grinder | 8,500.00 | 8,500.00 | 0.00 | 0.00 | 8,500.00 | 100.00 | 0.00 | 0.00 | |
| G7-006 | Utility Water Pumps & Controls | 80,000.00 | 80,000.00 | 0.00 | 0.00 | 80,000.00 | 100.00 | 0.00 | 0.00 | |
| G7-007 | Instrumentation & Controls | 127,000.00 | 127,000.00 | 0.00 | 0.00 | 127,000.00 | 100.00 | 0.00 | 0.00 | |
| G7-008 | FRP Chemical Tank | 25,000.00 | 25,000.00 | 0.00 | 0.00 | 25,000.00 | 100.00 | 0.00 | 0.00 | |
| G7-009 | Process Piping | 245,000.00 | 245,000.00 | 0.00 | 0.00 | 245,000.00 | 100.00 | 0.00 | 0.00 | |
| G7-010 | Relocated Apple Brook Pump | 8,000.00 | 8,000.00 | 0.00 | 0.00 | 8,000.00 | 100.00 | 0.00 | 0.00 | |
| Subtotal | | 1,345,000.00 | 1,345,000.00 | 0.00 | 0.00 | 1,345,000.00 | 100.00 | 0.00 | 0.00 | |
| Filtration & UV System | | | | | | | | | | |
| G8-001 | Disk Filters | 470,000.00 | 470,000.00 | 0.00 | 0.00 | 470,000.00 | 100.00 | 0.00 | 0.00 | |
| G8-002 | Filter Feed Pumps | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00 | 0.00 | 0.00 | |
| G8-003 | UV System | 180,000.00 | 180,000.00 | 0.00 | 0.00 | 180,000.00 | 100.00 | 0.00 | 0.00 | |
| Subtotal | | 660,000.00 | 660,000.00 | 0.00 | 0.00 | 660,000.00 | 100.00 | 0.00 | 0.00 | |
| Sludge Digestion & Post EQ Tank | | | | | | | | | | |
| G9-001 | Demo Interior | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00 | 0.00 | 0.00 | |
| G9-002 | Sandblasting & Painting | 160,000.00 | 160,000.00 | 0.00 | 0.00 | 160,000.00 | 100.00 | 0.00 | 0.00 | |
| G9-003 | Course Bubble Diffuser | 30,000.00 | 30,000.00 | 0.00 | 0.00 | 30,000.00 | 100.00 | 0.00 | 0.00 | |
| G9-004 | Centrifugal Blower Recondition | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00 | 0.00 | 0.00 | |

Application and Certificate For Payment -- page 8

To Owner: East Goshen Municipal Authority
 From (Contractor): Worth and Company, Inc.
 Project: Ridley Creek WWTP

Application No: 25
 Contractor's Job Number: P28001
 Architect's Project No:

Date: 05/20/11

Period To: 05/20/11

| Item Number | Description | Scheduled Value | Work Completed | | Materials Presently Stored | Completed and Stored to Date | % | Balance to Finish | Retention | Memo |
|-----------------|--|-------------------|----------------------|-------------|----------------------------|------------------------------|---------------|-------------------|-------------|------|
| | | | Previous Application | This Period | | | | | | |
| G9-005 | Aeration Tank Rehabilitation | 45,000.00 | 45,000.00 | 0.00 | 0.00 | 45,000.00 | 100.00 | 0.00 | 0.00 | |
| Subtotal | | 275,000.00 | 275,000.00 | 0.00 | 0.00 | 275,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-000 | Sludge Dewatering Bldg Addition | | | | | | | | | |
| GG10-001 | Demo Centrifuge | 8,000.00 | 8,000.00 | 0.00 | 0.00 | 8,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-002 | Demo Building | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-003 | Sawcut Floor | 8,000.00 | 8,000.00 | 0.00 | 0.00 | 8,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-004 | Excavate Footers | 12,000.00 | 12,000.00 | 0.00 | 0.00 | 12,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-005 | Form & Pour Footers | 8,000.00 | 8,000.00 | 0.00 | 0.00 | 8,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-006 | Masonry Frost Walls | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-007 | Backfill | 6,000.00 | 6,000.00 | 0.00 | 0.00 | 6,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-008 | Underslab Plumbing | 5,000.00 | 5,000.00 | 0.00 | 0.00 | 5,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-009 | Misc Metals | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-010 | Pour Concrete Slab | 10,000.00 | 10,000.00 | 0.00 | 0.00 | 10,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-011 | Masonry Walls | 35,000.00 | 35,000.00 | 0.00 | 0.00 | 35,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-012 | Drywit | 25,000.00 | 25,000.00 | 0.00 | 0.00 | 25,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-013 | Frames & Doors | 1,500.00 | 1,500.00 | 0.00 | 0.00 | 1,500.00 | 100.00 | 0.00 | 0.00 | |
| GG10-014 | Overhead Doors | 6,000.00 | 6,000.00 | 0.00 | 0.00 | 6,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-015 | Trolley & Hoist | 4,000.00 | 4,000.00 | 0.00 | 0.00 | 4,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-016 | Carpentry | 39,000.00 | 39,000.00 | 0.00 | 0.00 | 39,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-017 | Painting | 20,000.00 | 20,000.00 | 0.00 | 0.00 | 20,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-018 | Plumbing | 5,000.00 | 5,000.00 | 0.00 | 0.00 | 5,000.00 | 100.00 | 0.00 | 0.00 | |
| GG10-019 | HVAC | 7,500.00 | 7,500.00 | 0.00 | 0.00 | 7,500.00 | 100.00 | 0.00 | 0.00 | |
| GG11-000 | Sludge Dewatering System & Pipe | | | | | | | | | |
| GG11-001 | Centrifuge | 525,000.00 | 525,000.00 | 0.00 | 0.00 | 525,000.00 | 100.00 | 0.00 | 0.00 | |
| GG11-002 | Progressive Conveying System | 7,000.00 | 7,000.00 | 0.00 | 0.00 | 7,000.00 | 100.00 | 0.00 | 0.00 | |
| GG11-003 | Sludge Conveying System | 18,000.00 | 18,000.00 | 0.00 | 0.00 | 18,000.00 | 100.00 | 0.00 | 0.00 | |

Applicat and Certificate For Payment -- page 9

To Owner: East Goshen Municipal Authorit
 From (Contractor): Worth and Company, Inc.
 Project: Ridley Creek WWTP

Application No: 25 Date: 05/20/11 Period To: 05/20/11
 Contractor's Job Number: P28001
 Architect's Project No:

| Item Number | Description | Scheduled Value | Work Completed | | Materials Presently Stored | Completed and Stored to Date | % | Balance to Finish | Retention | Memo |
|-----------------|-----------------|---------------------|----------------------|-------------|----------------------------|------------------------------|---------------|-------------------|-------------|------|
| | | | Previous Application | This Period | | | | | | |
| GG11-004 | Process Pipe | 200,000.00 | 200,000.00 | 0.00 | 0.00 | 200,000.00 | 100.00 | 0.00 | 0.00 | |
| GG12-000 | Site Paving | | | | | | | | | |
| GG12-001 | Lump Sum | 50,000.00 | 50,000.00 | 0.00 | 0.00 | 50,000.00 | 100.00 | 0.00 | 0.00 | |
| GG13-000 | Engineered Fill | | | | | | | | | |
| GG13-001 | Lump Sum | 4,400.00 | 4,400.00 | 0.00 | 0.00 | 4,400.00 | 100.00 | 0.00 | 0.00 | |
| GG14-000 | Flowable Fill | | | | | | | | | |
| GG14-001 | Lump Sum | 11,000.00 | 11,000.00 | 0.00 | 0.00 | 11,000.00 | 100.00 | 0.00 | 0.00 | |
| GG18-000 | Alternate G-18 | | | | | | | | | |
| GG18-001 | Lump Sum | 125,000.00 | 125,000.00 | 0.00 | 0.00 | 125,000.00 | 100.00 | 0.00 | 0.00 | |
| Subtotal | | 1,180,400.00 | 1,180,400.00 | 0.00 | 0.00 | 1,180,400.00 | 100.00 | 0.00 | 0.00 | |

| | | | | | | | | | | |
|--------------------------|--------------|--------------|-----------|------|--------------|--------|------|------|------|--|
| Application Total | 7,895,689.91 | 7,869,424.34 | 26,265.57 | 0.00 | 7,895,689.91 | 100.00 | 0.00 | 0.00 | 0.00 | |
|--------------------------|--------------|--------------|-----------|------|--------------|--------|------|------|------|--|

Aqua Wastewater Management, Inc.

PO Box 822552
 Philadelphia, PA 19182-2552
 Home Service (215) 799-2200
 Toll-Free (800) 338-9271
 Fax (215) 799-2205

Invoice

Number: 123232 Order Num 171304
 Date: 20-May-2011 Serviced 05-May-2011
 P.O. Number:
 Job Description: tank skimmings

BILL TO: 69434

East Goshen Township
 1580 Paoli Pike
 West Chester, PA 19380

JOB SITE

Ridley Creek Treatment Plant
 1751 Towne Drive
 West Chester, PA 19380

| Quantity | ServiceType | Amount | Tax | Warranty & Expiration | Extension |
|----------|---|----------|-----|-----------------------|-----------|
| 7700 | Disposal Charges 7700 GALLONS @ .0586 5/5/11 | \$0.06 | No | 0 Days | \$451.22 |
| 1.5 | Pump Truck 125/HR ON SITE-5/5/11 | \$125.00 | No | 0 Days | \$187.50 |
| 1 | Fuel Surcharge | \$15.00 | No | 0 Days | \$15.00 |
| 7420 | Disposal Charges 7420 GALLONS @ 0586 5/5/11 | \$0.06 | No | 0 Days | \$434.81 |

| | | | | | | |
|---------------|----------------|------------|-------------|---------------|--------------------|-------------------|
| | Taxable Amount | Tax Rate | Tax | Description | Subtotal NonTaxed: | \$6,169.22 |
| | \$0.00 | 0 | \$0.00 | PA Tax Exempt | Subtotal Taxable: | \$0.00 |
| | | | | | Subtotal Tax: | \$0.00 |
| Payment Terms | Payment | Adjustment | Late Charge | | Please Pay: | \$6,169.22 |
| Net 30 | \$0.00 | \$0.00 | \$0.00 | | | |

PA State Homeowner Protection Act, Registration #PA022859

A LATE CHARGE FEE OF 1.5% PER MONTH WILL BE APPLIED TO OVERDUE ACCOUNTS.


From: Please detach here and return the bottom portion with your payment.

East Goshen Township
 1580 Paoli Pike
 West Chester, PA 19380

| | | | |
|----------------------|-------------|-------------|-------------------|
| Order No. | Invoice No. | Date | Amount Due |
| 171304 | 123232 | 20-May-2011 | \$6,169.22 |
| Serviced 05-May-2011 | | | |

To:

AS - Aqua Wastewater Management, Inc.
 PO Box 822552
 Philadelphia, PA 19182-2552


APPROVED BY: _____
DATE PAID: _____
CHECK #: _____
CHARGED TO: _____

Aqua Wastewater Management, Inc.

PO Box 822552
 Philadelphia, PA 19182-2552
 Home Service (215) 799-2200
 Toll-Free (800) 338-9271
 Fax (215) 799-2205

Invoice

Number: 123232 Order Num: 171304
 Date: 20-May-2011 Serviced: 05-May-2011
 P.O. Number:
 Job Description: tank skimmings

BILL TO: 69434

East Goshen Township
 1580 Paoli Pike
 West Chester, PA 19380

JOB SITE

Ridley Creek Treatment Plant
 1751 Towne Drive
 West Chester, PA 19380

| Quantity | ServiceType | Amount | Tax | Warranty & Expiration | Extension |
|----------|---|----------|-----|-----------------------|------------|
| 7 | FSN- Guzzler 250/HR ON SITE-PUMP FOAM OFF 4 TANKS-5/5/11 | \$250.00 | No | 0 Days | \$1,750.00 |
| 1 | Fuel Surcharge | \$15.00 | No | 0 Days | \$15.00 |
| 2400 | Disposal Charges 2400 GALLON @ .0586 5/5/11 | \$0.06 | No | 0 Days | \$140.64 |
| 3.75 | Bulk Liquid Waste Hauling 125/HR ON SITE-5/5/11 | \$125.00 | No | 0 Days | \$468.75 |
| 1 | Fuel Surcharge | \$20.00 | No | 0 Days | \$20.00 |

| | | | | |
|----------------|----------|--------|---------------|--------------------|
| Taxable Amount | Tax Rate | Tax | Description | Subtotal NonTaxed: |
| | 0 | \$0.00 | PA Tax Exempt | Subtotal Taxable: |
| | | | | Subtotal Tax: |

| | | | | |
|---------------|---------|------------|-------------|------------------------------|
| Payment Terms | Payment | Adjustment | Late Charge | Please Pay: Continued |
| Net 30 | \$0.00 | \$0.00 | \$0.00 | |

PA State Homeowner Protection Act, Registration #PA022859

A LATE CHARGE FEE OF 1.5% PER MONTH WILL BE APPLIED TO OVERDUE ACCOUNTS.

From: Please detach here and return the bottom portion with your payment.

East Goshen Township
 1580 Paoli Pike
 West Chester, PA 19380

| | | | |
|----------------------|-------------|-------------|------------------|
| Order No. | Invoice No. | Date | Amount Due |
| 171304 | 123232 | 20-May-2011 | Continued |
| Serviced 05-May-2011 | | | |

To:

AS - Aqua Wastewater Management, Inc.
 PO Box 822552
 Philadelphia, PA 19182-2552

Aqua Wastewater Management, Inc.

PO Box 822552

Philadelphia, PA 19182-2552

Customer Service (215) 799-2200

Toll-Free (800) 338-9271

Fax (215) 799-2205

Invoice

Number: 123232

Date: 20-May-2011

P.O. Number:

Job Description: tank skimmings

Order Num 171304

Serviced 05-May-2011

BILL TO: 69434

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

JOB SITE

Ridley Creek Treatment Plant
1751 Towne Drive
West Chester, PA 19380

| Quantity | ServiceType | Amount | Tax | Warranty & Expiration | Extension |
|----------|--|----------|-----|-----------------------|------------|
| 7 | FSN- Guzzler \$250 pr hr on site-PUMP FOAM OFF 4 TANKS-5/2/11 | \$250.00 | No | 0 Days | \$1,750.00 |
| 1 | Fuel Surcharge | \$15.00 | No | 0 Days | \$15.00 |
| 3.5 | Pump Truck 125/HOUR-ON-SITE-5/2/11 | \$125.00 | No | 0 Days | \$437.50 |
| 1 | Fuel Surcharge | \$15.00 | No | 0 Days | \$15.00 |
| 8000 | Disposal Charges 8000 GALONS @ .0586 5/2/11 | \$0.06 | No | 0 Days | \$468.80 |

| | | | |
|----------------|----------|--------|---------------|
| Taxable Amount | Tax Rate | Tax | Description |
| | 0 | \$0.00 | PA Tax Exempt |

Subtotal NonTaxed:

Subtotal Taxable:

Subtotal Tax:

| | | | |
|---------------|---------|------------|-------------|
| Payment Terms | Payment | Adjustment | Late Charge |
| Net 30 | \$0.00 | \$0.00 | \$0.00 |

Please Pay: Continued

PA State Homeowner Protection Act, Registration #PA022859

A LATE CHARGE FEE OF 1.5% PER MONTH WILL BE APPLIED TO OVERDUE ACCOUNTS.

From: Please detach here and return the bottom portion with your payment.

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

| | | | |
|-----------|-------------|-------------|----------------------|
| Order No. | Invoice No. | Date | Amount Due |
| 171304 | 123232 | 20-May-2011 | Continued |
| | | | Serviced 05-May-2011 |

To:

AS - Aqua Wastewater Management, Inc.
PO Box 822552
Philadelphia, PA 19182-2552



Aqua Wastewater Management, Inc.
60 Schoolhouse Road
Souderton, PA 18964

800.338.9271
T: 215.799.2200
F: 215.799.2205

PA State Homeowner Protection Act Registration # PA022859

| CUSTOMER INFORMATION | | | | | |
|----------------------|--------------|----------------------|----|--------------------|-----------------------------|
| Customer Name | | EAST GOSHEN TOWNSHIP | | Date Contacted | 4/28/11 |
| Street | | RIDLEY CREEK WWTP | | Work Order # | 171304 |
| | | 1580 PAOLI PK. | | Technician Name | TRIP B, BRIAN F |
| City | WEST CHESTER | State | PA | Zip | |
| Telephone | | | | Date & Time Arrive | 5/2/5/5 @ 8:00 AM @ 2:20 PM |
| | | | | Date & Time Depart | 5/2 5/5 - 3:30 PM - 2:20 PM |

| JOB DETAILS | | | |
|--|--------------------------|----------------------------------|--------------------------|
| Contracted Price OR | \$ | Time For Each Service Performed: | Total Cost Each Service: |
| Time For Each Service Performed: | Total Cost Each Service: | Jetting | \$ |
| Guzzler | 14 HRS | Gallons | 25,700 |
| CSE | | Laborer (# of techs) | 3 |
| Pumper Truck | RECURRING | Materials | \$ |
| Description/ Materials | | | |
| PUMPED AND PULLED FOAM FROM 4 TANKS. NOT SURE HOW TO CHARGE FOR PUMP TRUCK | | | |
| 25,700 GALLONS PUMPED - BILL EVANS 8000 | | | |
| BRIAN MCCLAIN 8000 | | | |
| PHIL HEISLEY 6700 | | | |
| TRIP BAIRD - 2400 | | | |

| RECOMMENDATIONS |
|-----------------|
| |
| |

| WORK COMPLETED & SATISFACTORY | | |
|---|---|----|
| By signing below, customer confirms job satisfaction. | | |
| Customer Signature | Sub Total (from above) | \$ |
| Print Name | Additional Fees (tax, fuel surcharge, etc.) | \$ |
| Date | Total Completed Job Price | \$ |

| PAYMENT TERMS |
|--|
| <input type="checkbox"/> This is an Invoice. Payment required within ___ days of invoice date. |
| <input type="checkbox"/> Payment required upon job completion. This is your receipt. |
| <input type="checkbox"/> This is a Quote/ Proposal (valid for ___ days). |

| PAYMENT DETAILS | | | |
|------------------|------------|------------------------|--------------------------|
| Check # & Amount | Cash | Money Order # & Amount | |
| Credit Card | MC or Visa | #s | Expiration Security Code |



Delaware County Regional Water
Quality Control Authority
PO Box 999
Chester, Pennsylvania 19016-0999
(610)876-5523
Hauled Waste Manifest

No. 128966

Waste Generator

| Generator #1: | Waste Characterization | | |
|----------------------------------|--|--|-----------|
| | Type | Source | Volume |
| Print _____ | 1. Domestic Holding Tank | Residential <input type="checkbox"/> | _____ gal |
| City, State _____ Zip Code _____ | | Non-Residential <input type="checkbox"/> | _____ gal |
| Generator #2: | 2. Domestic Septic Tank/ Cesspool | Residential <input type="checkbox"/> | _____ gal |
| Print _____ | | Non-Residential <input type="checkbox"/> | _____ gal |
| City, State _____ Zip Code _____ | 3. Package Plant | | _____ gal |
| Generator #3: | 4. Domestic Wastewater* Treatment Plant Sludge (Form 43) | | 4000 gal |
| Print _____ | 5. Industrial Treatment* Sludge (Form U) | | _____ gal |
| City, State _____ Zip Code _____ | 6. Commercial/Industrial* Wastewater | | _____ gal |
| Generator #3: | 7. Grease (Food /Restaurant) | | _____ gal |
| Print _____ | 8. Miscellaneous* Portable Toilets <input type="checkbox"/> | | _____ gal |
| City, State _____ Zip Code _____ | | Other <input type="checkbox"/> | _____ gal |

***NOTE: Wastewater treatment sludges, industrial wastewater, grease and other non-residential source wastes require prior approval for disposal. Non-domestic wastes will not be accepted if mixed with domestic wastes in the same load. Certification (Optional for residential sources only)**

I hereby certify that the foregoing information is true and complete to the best of my knowledge and that no wastes other than those expressly indicated are included in this waste and that the above waste does not contain any RCRA hazardous wastes as defined in 40 CFR 261. I understand that failure to comply with conditions of any applicable industrial discharge permit or other legal requirements may result in immediate suspension of the permit, and/or penalties as stipulated in the permit and/or allowed by law.

Authorized Agent: _____ Date: _____

Transporter

Transporter Name: _____ Print _____ Truck/Hauler #: _____

I hereby certify that the foregoing information is true and complete to the best of my knowledge and that no other wastes not expressly indicated on this manifest were included or mixed with this load, including any RCRA hazardous wastes as defined in 40 CFR 261. I am aware of the conditions and requirements of the waste hauler permit, and understand that failure to comply with the permit may result in immediate suspension of the permit and/or possible penalties as stipulated in the permit and/or allowed by law. I certify that the vehicle transporting aforementioned waste is in compliance with Pennsylvania's Department of Environmental Protection's Act 90 Rules and Regulations.

Driver Name: 1/1 Signature: _____ Date: _____

Date: 5/2/11 Time: 1210 Truck Capacity: _____ gal

Volume Received: 4000 gal

Sample ID #: ARPP050711 Radiation: Pass / Fail

DELCORA

pH: 6.34 Form U: _____
 TS %: _____ Volatility: Pass / Fail
 VS %: _____ Sulfide: Pass / Fail
 Color: _____ Cyanide: Pass / Fail
 Odor: _____
 COD: _____ mg/L
 TSS: _____ mg/L
 OUR: + / -
 Metals: _____
 Special: _____

Name: _____
 Signature: _____ Print _____



Delaware County Regional Water
Quality Control Authority
PO Box 999
Chester, Pennsylvania 19016-0999
(610)876-5523
Hauled Waste Manifest

No. 128967

| Waste Generator | Generator #1: | Waste Characterization | | |
|-----------------|--|--|---|---|
| | Print | Type | Source | Volume |
| | Ridley Creek Township of PA West Chester, PA 19380 | 1. Domestic Holding Tank 2. Domestic Septic Tank/ Cesspool 3. Package Plant 4. Domestic Wastewater* Treatment Plant Sludge (Form 43) 5. Industrial Treatment* Sludge (Form U) 6. Commercial/Industrial* Wastewater 7. Grease (Food /Restaurant) 8. Miscellaneous* | Residential <input type="checkbox"/> Non-Residential <input type="checkbox"/> Residential <input type="checkbox"/> Non-Residential <input type="checkbox"/> Residential <input type="checkbox"/> Non-Residential <input type="checkbox"/> Portable Toilets <input type="checkbox"/> Other <input type="checkbox"/> | _____ gal _____ gal _____ gal 4000 gal _____ gal _____ gal _____ gal _____ gal |
| | Generator #2: _____ Print _____ City, State Zip Code | | | |
| | Generator #3: _____ Print _____ City, State Zip Code | | | |
| | <p>*NOTE: Wastewater treatment sludges, industrial wastewater, grease and other non-residential source wastes require prior approval for disposal. Non-domestic wastes will not be accepted if mixed with domestic wastes in the same load. Certification (Optional for residential sources only)</p> <p>I hereby certify that the foregoing information is true and complete to the best of my knowledge and that no wastes other than those expressly indicated are included in this waste and that the above waste does not contain any RCRA hazardous wastes as defined in 40 CFR 261. I understand that failure to comply with conditions of any applicable industrial discharge permit or other legal requirements may result in immediate suspension of the permit, and/or penalties as stipulated in the permit and/or allowed by law.</p> | | | |
| | Authorized Agent: _____ _____ Print | Date: _____ | | |
| Transporter | Transporter Name: _____ _____ Print | | Truck/Hauler #: _____ | |
| | <p>I hereby certify that the foregoing information is true and complete to the best of my knowledge and that no other wastes not expressly indicated on this manifest were included or mixed with this load, including any RCRA hazardous wastes as defined in 40 CFR 261. I am aware of the conditions and requirements of the waste hauler permit, and understand that failure to comply with the permit may result in immediate suspension of the permit and/or possible penalties as stipulated in the permit and/or allowed by law. I certify that the vehicle transporting aforementioned waste is in compliance with Pennsylvania's Department of Environmental Protection's Act 90 Rules and Regulations.</p> | | | |
| | Driver Name: _____ _____ Print | Signature: _____ _____ | Date: 5/2/11 | |
| DELCORA | Date: _____ Time: _____ | Truck Capacity: _____ gal Volume Received: _____ gal | | |
| | Sample ID #: _____ | Radiation: <u>Pass / Fail</u> | | |
| | pH: _____ Form U: TS %: _____ Volatility: <u>Pass / Fail</u> VS %: _____ Sulfide: <u>Pass / Fail</u> Color: _____ Cyanide: <u>Pass / Fail</u> Odor: _____ | DELCORA Central Laboratory Other Characteristics: _____ COD: _____ mg/L TSS: _____ mg/L OUR: + / - Metals: _____ Special: _____ | | |
| | Name: _____ _____ Print | Signature: _____ | | |



Delaware County Regional Water
Quality Control Authority
PO Box 999
Chester, Pennsylvania 19016-0999
(610)876-5523
Hauled Waste Manifest

No. 125390

Waste Generator

| Generator #1: | Type | Source | Volume |
|--|--|---|------------------------|
| East Chester Ridley Creek Print West Chester PA City, State Zip Code | 1. Domestic Holding Tank | Residential <input type="checkbox"/> Non-Residential <input checked="" type="checkbox"/> | _____ gal 6700 gal |
| Generator #2: | 2. Domestic Septic Tank/ Cesspool | Residential <input type="checkbox"/> Non-Residential <input type="checkbox"/> | _____ gal _____ gal |
| Generator #3: | 3. Package Plant | | _____ gal |
| | 4. Domestic Wastewater* Treatment Plant Sludge (Form 43) | | _____ gal |
| | 5. Industrial Treatment* Sludge (Form U) | | _____ gal |
| | 6. Commercial/Industrial* Wastewater | | _____ gal |
| | 7. Grease (Food /Restaurant) | | _____ gal |
| | 8. Miscellaneous* Portable Toilets <input type="checkbox"/> Other <input type="checkbox"/> | | _____ gal |

***NOTE: Wastewater treatment sludges, industrial wastewater, grease and other non-residential source wastes require prior approval for disposal. Non-domestic wastes will not be accepted if mixed with domestic wastes in the same load. Certification (Optional for residential sources only)**

I hereby certify that the foregoing information is true and complete to the best of my knowledge and that no wastes other than those expressly indicated are included in this waste and that the above waste does not contain any RCRA hazardous wastes as defined in 40 CFR 261. I understand that failure to comply with conditions of any applicable industrial discharge permit or other legal requirements may result in immediate suspension of the permit, and/or penalties as stipulated in the permit and/or allowed by law.

Authorized Agent: _____ Date: 5/5/11

Transporter

Transporter Name: TRU-A Print Truck/Hauler #: 640505
TR 141/518

I hereby certify that the foregoing information is true and complete to the best of my knowledge and that no other wastes not expressly indicated on this manifest were included or mixed with this load, including any RCRA hazardous wastes as defined in 40 CFR 261. I am aware of the conditions and requirements of the waste hauler permit, and understand that failure to comply with the permit may result in immediate suspension of the permit and/or possible penalties as stipulated in the permit and/or allowed by law. I certify that the vehicle transporting aforementioned waste is in compliance with Pennsylvania's Department of Environmental Protection's Act 90 Rules and Regulations.

Driver Name: Ph. Hesse Signature: [Signature] Date: 5/5/11

Date: 5/5/11 Time: 100 Truck Capacity: 6700 gal
 Volume Received: 6700 gal

Sample ID #: ADHT050711 Radiation: Pass / Fail

DELCORA

| | | |
|----------------|--------------------------------|------------------------------|
| pH: <u>6.8</u> | Form U: | DELCORA Central Laboratory |
| TS %: _____ | Volatility: <u>Pass / Fail</u> | Other Characteristics: _____ |
| VS %: _____ | Sulfide: <u>Pass / Fail</u> | COD: _____ mg/L |
| Color: _____ | Cyanide: <u>Pass / Fail</u> | TSS: _____ mg/L |
| Odor: _____ | | OUR: <u>+ / -</u> |
| | | Metals: _____ |
| | | Special: _____ |

Name: _____
 Signature: [Signature] Print

DELCORA TRANSPORTER



Delaware County Regional Water
Quality Control Authority
PO Box 999
Chester, Pennsylvania 19016-0999
(610)876-5523

No. 129385

Hauled Waste Manifest

Waste Generator

| Generator #1: | Print | City, State | Zip Code | Type | Source | Volume |
|---------------|---|------------------------|--------------|---|--|------------------------|
| Generator #1: | <u>EAST Chester-Ridley Court Treatment Plant</u> | <u>West Chester PA</u> | <u>24200</u> | <u>EQ TANK</u> | 1. Domestic Holding Tank Residential <input type="checkbox"/> Non-Residential <input checked="" type="checkbox"/> | <u>4000</u> gal |
| Generator #2: | <u>West Whiteland Twp - dam Hill pump station</u> | <u>Exton PA</u> | <u>580</u> | 2. Domestic Septic Tank/Cesspool 3. Package Plant 4. Domestic Wastewater* Treatment Plant Sludge (Form 43) | Residential <input type="checkbox"/> Non-Residential <input type="checkbox"/> | _____ gal |
| Generator #3: | _____ | _____ | _____ | 5. Industrial Treatment* Sludge (Form U) 6. Commercial/Industrial* Wastewater 7. Grease (Food /Restaurant) 8. Miscellaneous* | Portable Toilets <input type="checkbox"/> Other <input type="checkbox"/> | _____ gal _____ gal |

***NOTE: Wastewater treatment sludges, industrial wastewater, grease and other non-residential source wastes require prior approval for disposal. Non-domestic wastes will not be accepted if mixed with domestic wastes in the same load.**
Certification (Optional for residential sources only)

I hereby certify that the foregoing information is true and complete to the best of my knowledge and that no wastes other than those expressly indicated are included in this waste and that the above waste does not contain any RCRA hazardous wastes as defined in 40 CFR 261. I understand that failure to comply with conditions of any applicable industrial discharge permit or other legal requirements may result in immediate suspension of the permit, and/or penalties as stipulated in the permit and/or allowed by law.

Authorized Agent: _____ Date: 5-5-11

Transporter

Transporter Name: Agua Print Truck/Hauler #: 139

I hereby certify that the foregoing information is true and complete to the best of my knowledge and that no other wastes not expressly indicated on this manifest were included or mixed with this load, including any RCRA hazardous wastes as defined in 40 CFR 261. I am aware of the conditions and requirements of the waste hauler permit, and understand that failure to comply with the permit may result in immediate suspension of the permit and/or possible penalties as stipulated in the permit and/or allowed by law. I certify that the vehicle transporting aforementioned waste is in compliance with Pennsylvania's Department of Environmental Protection's Act 90 Rules and Regulations.

Driver Name: Bill Evans Signature: _____ Date: 5-5-11

Date: 5-5-11 Time: 1070 Truck Capacity: 4000 gal

Volume Received: 4000 gal

Sample ID #: 1111111111 Radiation: Pass / Fail

DELCORA

pH: 6.67 Form U: _____
 TS %: _____ Volatility: Pass / Fail
 VS %: _____ Sulfide: Pass / Fail
 Color: _____ Cyanide: Pass / Fail
 Odor: _____
 COD: _____ mg/L
 TSS: _____ mg/L
 OUR: + / -
 Metals: _____
 Special: _____

Name: _____

Signature: _____ Print

**NEW CASTLE COUNTY DEPARTMENT OF SPECIAL SERVICES
87 READS WAY, NEW CASTLE, DELAWARE 19720**

**AQUA WASTEWATER MANAGEMENT, INC.
HAULED WASTEWATER MANIFEST**

(COMPLETE THIS FORM FOR LOADS DISCHARGED TO THE AIRPORT ROAD PUMP STATION)

1. Generator of Waste

Driver Name: _____

Truck #: _____

Customer: _____

Pick Up Date: _____

Address: _____

Customer Signature: _____

Print Customer Name: _____

2. Type of Waste

| Source | ✓ | Volume |
|-------------------------------------|---|--------|
| Residential- septic or holding tank | ✓ | 2000 |
| Commerical- septic or holding tank | | |
| Grease Trap | | |
| Pump Station | | |
| Industrial | | |
| OTHER (specify) | | |

3. Disposer of Waste (to be filled out at dump site.)

The above described wastewater was picked up and hauled by the above named company to the Airport Road Pump Station and was discharged on the date shown below. I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and prosecution for knowing violations.

Driver Signature: _____

Truck #: _____

Print Driver Name: _____

NCC Permit #: _____

Date Discharged: _____

Time Discharged: _____



Over a half-century of excellence

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

Phone: (610) 459-1234
Fax: (610) 459-8823
Website: clingerelectric.com

Invoice

| | |
|--|--|
| EAST GOSHEN MUNICIPAL AUTHORITY ATTN: ACCTS. PAYABLE 1580 PAOLI PIKE WEST CHESTER, PA 19380-6199 | Invoice #: M11050 Invoice Date: 05/12/11 Due Date: 06/11/11 PO #: 17965 Customer ID: 204 Contact: MARK MILLER Phone #: |
| Job: Electrical-Integral TVSS Job: CEG800 | |

| Description | Price | Total |
|------------------------------|--------------------|--------------------|
| ORIGINAL CONTRACT AMOUNT | \$16,059.00 | |
| TOTAL CONTRACT AMOUNT | \$16,059.00 | |
| AMOUNT COMPLETED TO DATE | 100% | \$16,059.00 |
| LESS PREVIOUS INVOICED | \$ | - |
| SUBTOTAL | \$ | 16,059.00 |
| TOTAL DUE | | \$16,059.00 |

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

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE 1 OF 2

PAGES

TO OWNER: East Goshen
1580 Paoli Pike
West Chester, PA 19380-6199

FROM CONTRACTOR:
Wm. H. Clinger Corp.
736 Baltimore Pike, P.O. Box 158
Concordville, PA 19331

CONTRACT FOR: Electrical Contractor

PROJECT: Ridley Creek Waste
Water Treatment
Damages to TVSS Units

APPLICATION NO: 1
PERIOD TO: 2/28/2011

Purchase Order # 17965

VIA OWNER:

CONTRACT DATE: Our Job# CEG800

Distribution to:

OWNER

ARCHITECT

CONSTRUCTION MANAGER

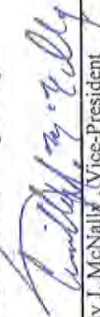

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM \$ 16,059.00
2. Net change by Change Orders \$ 0.00
3. CONTRACT SUM TO DATE (Line 1 + 2) \$ 16,059.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703) \$ 16,059.00
5. RETAINAGE:
 - a. 0 % of Completed Work \$
 - b. % of Stored Material (Column F on G703) \$
 Total Retainage (Lines 5a + 5b of Total in Column I of G703) \$ 0.00
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total) \$ 16,059.00
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) \$ 0.00
8. CURRENT PAYMENT DUE \$ 16,059.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6) \$ 0.00

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Wm. H. Clinger Corp.

By:  Timothy J. McNally, Vice-President
State of: Pennsylvania
County of: Delaware
Subscribed and sworn to before me this 11th day of May, 2011
Notary Public:  Amy E. Bell
My Commission expires: 7/23/2012

Date: 5/11/2011

NOTARIAL SEAL
AMY E BELL
Notary Public
CONCORD TWP, DELAWARE COUNTY
My Commission Expires Jul 23, 2012

CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Construction Manager and Architect certify to the Owner that to the best of their knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that changed to conform to the amount certified.)
CONSTRUCTION MANAGER:

By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

| CHANGE ORDER SUMMARY | ADDITIONS | DEDUCTIONS |
|--|-----------|------------|
| Total changes approved in previous months by Owner | | |
| Total approved this Month | | |
| TOTALS | | |
| NET CHANGES by Change Order | | \$0.00 |

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

Wm. H. Clinger Corp.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 1

APPLICATION DATE: 4/11/2011

PERIOD TO: 2/28/2011

OWNER'S PURCHASE ORDER NO: 17965

| A ITEM NO. | B DESCRIPTION OF WORK | C SCHEDULED VALUE | D WORK COMPLETED | | E THIS PERIOD | F MATERIALS PRESENTLY STORED (NOT IN D OR E) | G TOTAL COMPLETED AND STORED TO DATE (D+E+F) | H BALANCE TO FINISH (C - G) | I RETAINAGE |
|------------------|--|-------------------------|---|--------|------------------|---|---|--------------------------------------|----------------|
| | | | FROM PREVIOUS APPLICATION (D + E) | | | | | | |
| *** | SEE ATTACHED DESCRIPTION OF SCOPE (COMPLETED 100%) | | | | | | | | 0 |
| | GRAND TOTALS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| | Total: | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |



CLINGER

Nearly a half-century of excellence

FAX QUOTE

December 20, 2010

Name : Mr. Mark Miller
 Company : East Goshen Township Authority
 Fax # :
 Reference : Change Order Request CEG800-008 EGWWTP

We are pleased to submit our lump sum price in the amount of *Sixteen Thousand Fifty Nine Dollars (\$16,059.00)* to furnish and install one (1) Integral TVSS for the MDP Panel and one (1) Integral TVSS for the Panel CBH. These are exact replacements for each of these pieces of equipment as originally supplied by the factory in order to maintain all warranties and rating.

Scope of Work Adder:

1. De-energize plant power and remove existing damaged TVSS unit from the MDP Panel.
2. Furnish and install replacement TVSS unit in MDP Panel and re-energize power.
3. Shutdown breaker that feeds Panel CBH in MDP Panel and remove damaged TVSS unit from Panel CBH.
4. Furnish and install replacement TVSS unit is Panel CBH and re-energize power.

| | |
|-----------------------|--------------------|
| Assessment of Damages | \$1,260.00 |
| Labor | \$3,960.00 |
| Testing | \$1,200.00 |
| Materials | \$9,639.00 |
| Total | \$16,059.00 |

Clarifications:

- Generator will be required to run for a minimum of eight (8) hours on at least two (2) separate occasions at owner's expense during our installations.
- All work has been priced to occur during normal straight time work hours.
- All reporting shall consist of the electrical contractor's verification report that both units installed are working as designed and shall be covered under warranty.
- Our price has been based on the scope of work as identified above and shall only be valid until December 31, 2010.
- Delivery of the TVSS units will be 2-4 weeks from the release.

Thank you for your time and consideration.

Sincerely,

Robert F. Dina, Sr.



Gawthrop Greenwood, PC
Attorneys at Law

17 East Gay Street, Suite 100 (p) 610-696-8225
West Chester, PA 19381-0562 (f) 610-344-0922
gglaw@gawthrop.com www.gawthrop.com

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
04/30/2011
Client No: 6604-08M
Invoice No. 88903

Ridley Creek Treatment Plant - Arbitrations

Fees

| | | Hours | |
|------------|---|-------------|--------------|
| 04/11/2011 | SRM Review correspondence from client regarding status; correspondence to client. | 0.20 | 35.00 |
| 04/12/2011 | SRM Telephone conference with J McCurdy. | 0.20 | 35.00 |
| 04/29/2011 | SRM Voice mail to counsel for Clinger. | <u>0.20</u> | <u>35.00</u> |
| | For Current Services Rendered | 0.60 | 105.00 |

Recapitulation

| <u>Timekeeper</u> | <u>Hours</u> | <u>Hourly Rate</u> | <u>Total</u> |
|----------------------|--------------|--------------------|--------------|
| Stephen R. McDonnell | 0.60 | \$175.00 | \$105.00 |

Previous Balance

PAID 5/9/11

\$442.07

Total Current Charges

105.00

Balance Due

\$547.07

ok RS 5-12-11

To ensure proper credit, please write client number on your check when returning payment. Thank You.
A finance charge of 1.25% per month (15% annually) may be charged on balances not paid 60 days after the invoice date.

R.C.

Remit To:

Glasgow, Inc
P O Box 1089
Glenside, PA 19038-1089
215-884-8800

| | |
|---|---------------------|
| Bill To: 00601 EAST GOSHEN TOWNSHIP 1580 PAOLI PIKE WEST CHESTER, PA 19380 | Job: SEWER PLANT |
|---|---------------------|


| | | |
|-----------------|-------------------------|-------------|
| Invoice: 249252 | Plant: Catanach Asphalt | Page 1 of 1 |
|-----------------|-------------------------|-------------|

| | | | |
|------------------------|--------------------------|----------------|-----------------------------------|
| Project No SEWERPLA | Invoice Date 04/30/11 | Purchase Order | Payment Terms Due Upon Receipt |
|------------------------|--------------------------|----------------|-----------------------------------|

| Date | Ticket | Product | Quantity | U/M | Unit Price | Tax | Total |
|-------|----------|--------------|----------|------|------------|------|--------|
| 04/27 | 00687761 | ID-2WRG, H10 | 8.0900 | TONS | 55.0000 | 0.00 | 444.95 |
| 04/27 | 00687762 | ID-3W, HA9 | 9.9700 | TONS | 42.0000 | 0.00 | 418.74 |
| 04/27 | 00687763 | ID-3W, HA9 | 10.0200 | TONS | 42.0000 | 0.00 | 420.84 |
| 04/27 | 00687776 | ID-3W, HA9 | 9.9700 | TONS | 42.0000 | 0.00 | 418.74 |
| 04/27 | 00687778 | ID-3W, HA9 | 9.9600 | TONS | 42.0000 | 0.00 | 418.32 |
| 04/27 | 00687779 | ID-3W, HA9 | 9.9500 | TONS | 42.0000 | 0.00 | 417.90 |
| 04/27 | 00687781 | ID-3W, HA9 | 9.9600 | TONS | 42.0000 | 0.00 | 418.32 |
| 04/27 | 00687783 | ID-3W, HA9 | 9.9800 | TONS | 42.0000 | 0.00 | 419.16 |
| 04/27 | 00687787 | ID-3W, HA9 | 6.0000 | TONS | 42.0000 | 0.00 | 252.00 |

Product Summary

| Product | Description | Quantity | UOM |
|---------|--------------|----------|------|
| GC1509 | ID-2WRG, H10 | 8.0900 | TONS |
| GC2109 | ID-3W, HA9 | 75.8100 | TONS |

APPROVED BY: 
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07424.7440

| | | | | | | |
|------------|---------|--------|--------|-------------|-------------|-------------|
| Material | Transp. | Misc. | Tax | Invoice Amt | Receipt Amt | Balance Due |
| \$3,628.97 | \$0.00 | \$0.00 | \$0.00 | \$3,628.97 | \$0.00 | \$3,628.97 |

HAMMOND & MC CLOSKEY, INC.
PLUMBING & HEATING
CANNON HILL DRIVE
WEST CHESTER, PA 19382

Invoice

| |
|--------------|
| Phone # |
| 610-793-0411 |

| | |
|-----------|-----------|
| Date | Invoice # |
| 4/21/2011 | 5031 |

| |
|---|
| Billing Address: |
| East Goshen Township 1580 Paoli Pike West Chester, PA 19380 |

| |
|--|
| Job Address: |
| Ridley Creek Treatment Plant West Chester, PA 19380 |

| | | |
|--------------|----------|----------------|
| Telephone #: | P.O. No. | Terms: |
| 610-692-7171 | | Due on receipt |

| Description | Amount |
|--|--------------|
| 3/15/11 & 3/18/11 - Furnished and installed well pump, pressure tank, and all piping and controls and piped to utility water line. | |
| 30' - 1" PVC S/40 pipe | 82.96 |
| 1 - WM-12 WellMate pressure tank | 572.90 |
| 1 - 30-50 pressure switch | 29.19 |
| 1 - 1" brass control check valve | 51.15 |
| 1 - 100 lb pressure gauge | 12.70 |
| 1 - 1" PVC S/40 ball valve | 14.29 |
| 3 - 1" x 3/4" brass reducing couplings | 22.56 |
| 20 - 1" galvanized split ring hangers | 220.60 |
| 1 roll - 12-2 pump wire | 268.63 |
| 6 - S/S gear clamps | 14.70 |
| 1 - 1" PVC IxM adapter | 3.49 |
| 1 - 1" PVC S/40 FIP ell | 1.48 |
| 13 - 1" PVC S/40 90 degree ells | 15.99 |
| 1 roll - 1" PE well pipe 160 lb. | 82.93 |
| 2 - 1" PVC S/40 tees | 5.70 |
| 10 - 1" PVC S/40 45 degree ells | 24.60 |
| 6 - 1" PVC S/40 "M" adapters | 6.60 |
| 2 - 3/4" hose bibbs | 29.94 |
| 1 - 1" PVC S/40 "F" adapter | 2.13 |
| 1 - 1/2" HP F&W 7 GPM 230 V submersible well pump | 768.05 |
| Thank you! We appreciate the opportunity to serve you and the confidence you have placed in us. | Total |

APPROVED BY: _____
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07424-7440

TERMS: NET DUE UPON RECEIPT; \$25 charge for checks returned NSF;
\$20 charge to transfer accounts to Transworld Systems for collection.

HAMMOND & MC CLOSKEY, INC.
 PLUMBING & HEATING
 1 CANNON HILL DRIVE
 WEST CHESTER, PA 19382

Invoice

| |
|--------------|
| Phone # |
| 610-793-0411 |

| | |
|-----------|-----------|
| Date | Invoice # |
| 4/21/2011 | 5031 |

| |
|---|
| Billing Address: |
| East Goshen Township 1580 Paoli Pike West Chester, PA 19380 |

| |
|--|
| Job Address: |
| Ridley Creek Treatment Plant West Chester, PA 19380 |

| | | |
|--------------|----------|----------------|
| Telephone #: | P.O. No. | Terms: |
| 610-692-7171 | | Due on receipt |

| Description | Amount |
|--|--------|
| misc. shop supplies (solvent, cement, anchors, etc.) | 20.00 |
| 6 HRS. @ \$100 HR. (3/15/11) | 600.00 |
| 6 HRS. @ \$100 HR. (3/18/11) | 600.00 |

Notice to MA
 Re: June Meeting
 The attached has
 been paid
 Barbara
 Phillips

| | | |
|---|--------------|------------|
| Thank you! We appreciate the opportunity to serve you and the confidence you have placed in us. | Total | \$3,450.59 |
|---|--------------|------------|

TERMS: NET DUE UPON RECEIPT; \$25 charge for checks returned NSF;
 \$20 charge to transfer accounts to Transworld Systems for collection.

HAMMOND & MC CLOSKEY, INC.
PLUMBING & HEATING
1 CANNON HILL DRIVE
WEST CHESTER, PA 19382

Invoice

| |
|--------------|
| Phone # |
| 610-793-0411 |

| | |
|-----------|-----------|
| Date | Invoice # |
| 5/17/2011 | 5077 |

Billing Address:
 East Goshen Township
 1580 Paoli Pike
 West Chester, PA 19380

APPROVED BY: _____
 DATE PAID: _____

Job Address:
 Ridley Creek Treatment Plant
 West Chester, PA 19380

CHECK #: _____
 CHARGED TO: 054

07424-7440

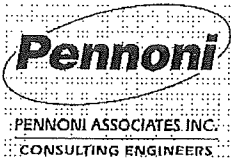
Activate old well

| | | |
|--------------|----------|----------------|
| Telephone #: | P.O. No. | Terms: |
| 610-692-7171 | | Due on receipt |

| Description | Amount |
|---|--------|
| 5/13/11 - Repaired leaking polymer line in press room. Furnished and installed pressure reducing valve on water line in press room. Furnished and installed backflow preventer on hose faucet in press room. | |
| 1 - 3/4" Conbraco D.C. backflow preventer #40-100 | 274.52 |
| 1 - 3/4" hose faucet | 14.90 |
| 3 - 3/4" CxC ells 90 degrees | 16.98 |
| 1 - 3/4" CPVC ell 90 degrees | 1.20 |
| 3' - 3/4" type "L" copper tubing | 19.68 |
| 2 - 3/4" C x M adapters | 19.74 |
| 10' - 1" PVC S/80 pipe | 19.60 |
| 2 - 3/4" split ring hangers | 20.00 |
| 3 - 1" PVC S/80 tees | 16.24 |
| 3 - 1" PVC S/80 ball valves | 31.20 |
| 1 - 1" PVC S/80 union | 11.70 |
| 2 - 1" PVC S/80 MIP adapters | 21.32 |
| 2 - 1" PVC S/80 ells 90 degrees | 11.30 |
| 3 - 1" PVC S/80 couplings | 20.79 |
| 1 - 25AUBLP Watts pressure reducing valve | 195.50 |
| misc. shop supplies (solvent, solder, glue, etc.) | 10.00 |
| 3 HRS. @ \$100 HR. | 300.00 |

| | | |
|---|--------------|------------|
| Thank you! We appreciate the opportunity to serve you and the confidence you have placed in us. | Total | \$1,004.67 |
|---|--------------|------------|

TERMS: NET DUE UPON RECEIPT; \$25 charge for checks returned NSF;
 \$20 charge to transfer accounts to Transworld Systems for collection.



INVOICE
Philadelphia, PA
215-222-3000 Fax: 215-222-3588

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 # : 473337
Invoice Date : 05/31/2011
Project : EGMA0707
Project Name : RCSTP Expansion

For Services Rendered through: 05/15/2011

Coordination with contractors and Township; O&M submittal review; punchlist progress review; site observation and consultation with Township regarding same. Troubleshooting and operations review, and project closeout activities. Investigation, documentation, meetings and support related to Electrical Contractor claims. On site time by Design Engineer during performance testing.

| Phase Code / Name | | Contract Amount | Previously Billed | % Complete | Complete To Date | Amount This Invoice |
|---------------------------------------|------|---------------------|---------------------|------------|---------------------|---------------------|
| 01 -- Permit Design | est. | \$111,400.00 | \$111,385.00 | | \$111,385.00 | \$0.00 |
| 02 -- Permitting | est. | \$14,200.00 | \$14,184.00 | | \$14,184.00 | \$0.00 |
| 03 -- Final Design | est. | \$226,700.00 | \$226,655.50 | | \$226,655.50 | \$0.00 |
| 04 -- Bidding | est. | \$14,500.00 | \$14,446.50 | | \$14,446.50 | \$0.00 |
| 05 -- Construction | est. | \$136,200.00 | \$136,197.62 | | \$136,197.62 | \$0.00 |
| 06 -- Additional Submittals | est. | \$20,000.00 | \$19,997.18 | | \$19,997.18 | \$0.00 |
| 10 -- Continued Construction Services | est. | \$208,795.00 | \$207,301.47 | | \$208,478.97 | \$1,177.50 |
| Total : | | \$731,795.00 | \$730,167.27 | | \$731,344.77 | \$1,177.50 |

Amount Due This Invoice

\$1,177.50

East Goshen Municipal Authority
EGMA0707 Invoice Summary.xls 04.xls
Invoice Date 05-31-2011

Project: RCSTP Expansion and Upgrade
 Pennoni Job No.: EGMA0707
 Invoice No: 473337
 Invoice Period: 4/18/2011 to 5/15/2011

| | | | |
|------------------------|---------------|-------|------------|
| Initial Authorization: | \$ 465,000.00 | Date: | 8/14/2007 |
| Changes: | \$ - | Date: | 2/5/2009 |
| Changes: | \$ 58,000.00 | Date: | 5/11/2009 |
| Changes: | \$ 99,700.00 | Date: | 1/11/2010 |
| Changes: | \$ 22,000.00 | Date: | 5/10/2010 |
| Changes: | \$ 11,500.00 | Date: | 6/14/2010 |
| Changes: | \$ 40,400.00 | Date: | 8/5/2010 |
| Changes: | \$ 18,720.00 | Date: | 10/11/2010 |
| Changes: | \$ 14,000.00 | Date: | 1/10/2011 |
| Contract Amount: | \$ 729,320.00 | | |
| Previously Invoiced: | \$ 725,978.97 | | |
| Current Invoice: | \$ 5,560.80 | | |
| Invoiced to Date (\$): | \$ 731,539.77 | | |
| Invoiced to Date (%): | 100% | | |
| Remaining Budget (\$): | \$ (2,219.77) | | |
| Remaining Budget (%): | -0.30% | | |

* Note: Calculations do not include Phase 50, which is billed on a time and material basis.

Budget by Phase:

| | |
|------------------------|--------------------|
| Phase No. | 10 |
| Phase Name: | Continued Eng Svcs |
| Phase Budget: | \$ 99,700.00 |
| Changes: | \$ 33,500.00 |
| Changes: | \$ 40,400.00 |
| Changes: | \$ 18,720.00 |
| Changes: | \$ 14,000.00 |
| Changes: | \$ 2,475.00 |
| Contract Amount: | \$ 208,795.00 |
| Previously Invoiced: | \$ 207,301.47 |
| Current Invoice: | \$ 1,177.50 |
| Invoiced to Date (\$): | \$ 208,478.97 |
| Invoiced to Date (%): | 100% |
| Remaining Budget (\$): | \$ 316.03 |
| Remaining Budget (%): | 0% |

Comments: Coordination with contractors and Township;
 O&M submittal review; punchlist progress review; site observation and consultation with Township regarding same. Troubleshooting and operations review, and project closeout activities. Investigation, documentation, meetings and support related to Electrical Contractor claims. On site time by Design Engineer during performance testing.

Effort by Labor Category under Phase 10:

| Category | Previous Hrs. | Current | Total Hrs. |
|----------------------------------|----------------|--------------|----------------|
| Authority Engineer | 237.25 | 3.75 | 241.00 |
| Senior Engineer | 440.50 | 5.50 | 446.00 |
| Senior Designer | 222.00 | 0.00 | 222.00 |
| Project Engineer | 183.50 | 0.00 | 183.50 |
| Staff Engineer | 13.50 | 0.00 | 13.50 |
| Associate Engineer | 85.50 | 0.00 | 85.50 |
| Graduate Engineer | 43.75 | 0.00 | 43.75 |
| Project Representative/Inspector | 2.50 | 0.00 | 2.50 |
| Technical Specialist (McAloon) | 1151.75 | 2.50 | 1154.25 |
| Engineering Technician I | 57.25 | 0.00 | 57.25 |
| Administrative Assistant I | 3.50 | 0.00 | 3.50 |
| Totals | 2441.00 | 11.75 | 2452.75 |

draft
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
May 9, 2011

The East Goshen Township Municipal Authority held their regularly scheduled meeting on Monday May 9, 2011 at 7:00 p.m. at the East Goshen Township building. Members in attendance were: Chairman Joseph McCawley, Jack Yahraes, Fran Beck, Dana Pizarro, and Kevin Cummings. Also in attendance were: Rick Smith, Township Manager; Mark Miller, Director of Public Works; Dan Barbato from Pennoni; Bob Adams, Authority Solicitor; Scott Towler from Brickhouse Environmental; William Ronyack & Jesse Goldberg (Miller Environmental); Carmen Battavio, Township Supervisor; and Ellen Carmody (Historical Commission).

COMMON ACRONYMS:

| | |
|---------------------------------------|--|
| <i>MA</i> – Municipal Authority | <i>I&I</i> – Inflow & Infiltration |
| <i>HC</i> – Historical Commission | <i>RCSTP</i> – Ridley Creek Sewer Treatment Plant |
| <i>PC</i> – Planning Commission | <i>LCSTP</i> – Lochwood Chase Sewer Treatment Plant |
| <i>CB</i> – Conservancy Board | <i>DEP</i> – Department of Environmental Protection |
| <i>PR</i> – Park & Recreation Board | <i>EPA</i> – Environmental protection Agency |
| <i>BOS</i> – Board of Supervisors | <i>NPDES</i> – National Pollutant Discharge Elimination System |
| <i>SSO</i> – Sanitary System Overflow | <i>WAS</i> – Waste Activated Sludge |

1. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

Chairman Joe McCawley called the meeting to order at 7:00 p.m. and led those present in the Pledge of Allegiance. There was a moment of silence to remember our Armed Forces. Joe asked if anyone would be taping the meeting. There was no response.

2. RIDLEY CREEK REPORTS

A. Brickhouse Report

During the month of April, progress towards fulfilling the requirements for final close out of the RCSTP upgrade and expansion project was completed. A meeting was conducted on April 6, 2011 that included the contractors, engineer and representatives from the Authority to review progress and identify outstanding issues.

Several issues identified, including closeout and unscheduled warranty items, were resolved. A follow up meeting was conducted on May 4, 2011 to review progress towards project closeout and address operational issues with the treatment process. Representatives from Pennoni Associates, Inc., Miller Environmental Inc., Worth & Company, Inc., Wm. H. Clinger Corporation, and the Municipal Authority were in attendance. An onsite review was conducted after the meeting. Letters detailing the remaining items required as specified in the contract documents for final closeout and warranty/punch list items were presented to each contractor.

The wastewater treatment operation and maintenance service provider continues to implement corrective measures to reduce the filamentous bacterium within the SBRs. The Aluminum sulfate chemical feed system pumps and controls are in service to provide liquid sodium hypochlorite solution. In addition, the Municipal Authority has contracted with a sludge hauling company to remove and dispose of foam that has accumulated on the surface of the SBRs.

1 Paul Christiansen from Siemens has been confirmed to arrive at the treatment plant on
2 Tuesday May 10th. He will be on site from May 10th through May 12th to provide training
and technical support to the wastewater treatment plant operator and staff as per contract.

4
5 The Pennsylvania Dept. of Environmental Protection Water Quality Specialist/Inspector
6 routinely visits the facility and maintains communication with wastewater treatment
7 operation and maintenance service provider. It is anticipated implementation of the new
8 wastewater treatment permit discharge limitations will be delayed until August 2011.

9
10 The project remains substantially complete with final closeout pending.

11
12 **B. Pennoni** – Dan Barbato, reported the following:

13 **RCSTP Upgrade and Expansion**

- 14 • Construction phase services continue with punch list monitoring, review of
15 operations and maintenance submittals and as-built plans, progress meetings,
16 troubleshooting, and coordination with the Project Manager and the Township.
- 17
- 18 • A breakdown of effort expended over the past month by Pennoni is provided with
19 the invoice detail under separate cover.
- 20
- 21 • Worth and Company and Clinger Corporation continue working on punch list
22 completion. A punch list update for both contractors has been updated several times
23 in the past month. Verification of completed items continues. Clarification was sent
24 to the Project Manager to Clinger regarding closeout requirements.
- 25
- 26 • A coordination meeting was held on Wednesday May 4 in the Township office. The
27 meeting consisted of Pennoni, the Township, Clinger, Worth, ACS, and the Plant
28 Operator. The purpose of the meeting was to review and discuss several operational
29 issues that started in mid-April, and to determine resolutions to problems with pump
30 control, odors, dissolved oxygen control and chemical feed systems. Pennoni will
31 provide an opinion on the benefit of a whole-plant blowdown to restart the plant.
- 32

33 **I / I Metering Project**

- 34 • The Township continues to meter flows at selected locations. Meters are in
35 operation at locations as recommended. March meter data was reviewed and we
36 provided comments to Mark Miller.
- 37

38 **Ridley Creek Consent Order**

- 39 • The report for March was submitted to DEP in advance of the deadline. We have not
40 received comments from DEP at the time of this report.
- 41

42 **LCSTP Elimination, Hershey Mill PS Diversion, Reserve PS Elimination Planning**

- 43 • The Lockwood Chase report was approved by DEP on March 29.
- 44 • DEP is reviewing our response to their comments for the Hersheys Mill/Reserve
45 report. We have not received additional formal comments from DEP.
- 46 • A proposal for design of the Lockwood Chase elimination project is submitted under
47 separate cover.
- 48
- 49

1 Marydell PS Elimination Planning

- 2 ● The draft report for the Act 537 Plan Revision was submitted to the DEP in April.
3 No comments have been received from DEP at the time of this report.

4
5 Applebrook Spray Irrigation NPDES Permit Renewal

- 6 ● We are preparing the NPDES discharge permit and anticipate submittal to DEP in
7 Mid-June.

8
9 Reservoir Road Pump Station

- 10 ● Pennoni prepared a revised project cost estimate. The estimate is submitted under
11 separate cover.

12
13
14 C. Cost Summary Report

15 Rick pointed out that the last page shows projected final costs with funds left of
16 \$227,279.12. Mark mentioned getting a soda ash system when all is done and if there are
17 funds remaining.

18
19 D. Change Orders

20 Worth & Co. change order #5 resolves everything with Worth. Jack moved to
21 approve the Worth & Co. change order #5 for \$10,611.83. Fran seconded the motion.
22 Carmen asked about Item #PCO-14, \$1,409.44 for a gate. Mark explained that this was
23 requested after the design was done. Also, they needed to use a certified welder for this
24 project. There was no further discussion. The motion passed unanimously.

25
26 **3. RCSTP INVOICES**

- 27 A. Brickhouse Environmental #5928, \$4,686.25. Kevin moved to approve payment. Dana
28 seconded the motion. There was no further discussion. The motion passed unanimously.
29 B. Pennoni, #470592, \$5,560.80. Frank moved to approve payment. Jack seconded the
30 motion. There was no further discussion. The motion passed unanimously.
31 C. Gawthrop Greenwood, PC #88002, \$442.07. Dana moved to approve payment. Fran
32 seconded the motion. There was no further discussion. The motion passed unanimously.
33 D. Ransome Rental Co. #K0404301, \$423.00. Jack moved to approve payment. Fran
34 seconded the motion. There was no further discussion. The motion passed unanimously.
35 E. Ransome Rental Co. #K0403101, \$708.00. Jack moved to approve payment. Fran
36 seconded the motion. There was no further discussion. The motion passed unanimously.
37 F. Fisher & Son #0000087217-IN, \$370.00. Kevin moved to approve payment. Jack
38 seconded the motion. There was no further discussion. The motion passed unanimously.
39 G. Lenni Electric Co. #110445, \$1,184.69. Dana moved to approve payment. Fran
40 seconded the motion. There was no further discussion. The motion passed unanimously.

41
42 **4. CHAIRMAN'S REPORT**

- 43 A. None

44
45 **5. APPROVAL OF MINUTES**

- 46 A. Jack moved to approve the minutes of the April 11, 2011 meeting as corrected. Fran
47 seconded the motion. The motion passed unanimously.

1 **6. APPROVAL OF INVOICES**

2 A. Pennoni, #470606, \$1,784.25. Kevin moved to approve payment. Fran seconded the motion. There was no further discussion. The motion passed unanimously.

4 B. Pennoni, #470595, \$3,305.00. Dana moved to approve payment. Kevin seconded the motion. There was no further discussion. The motion passed unanimously.

6 C. Pennoni, #470596, \$7,902.50. Dana moved to approve payment. Jack seconded the motion. There was no further discussion. The motion passed unanimously.

8 D. Pennoni, #470597, \$3,725.00. Dana moved to approve payment. Fran seconded the motion. There was no further discussion. The motion passed unanimously.

10 E. Gawthrop Greenwood, #88001, \$513.00. Dana moved to approve payment. Jack seconded the motion. There was no further discussion. The motion passed unanimously.

13 **7. LIAISON REPORTS**

14 A. Historical Commission – Ellen reminded everyone that June 4th is Living History Day.

16 **8. FINANCIAL REPORTS**

17 Financial reports were reviewed.

19 **9. OLD BUSINESS**

20 A. None

22 **10. GOALS**

23 Fran will go to the West Goshen meeting in June.

24 Fran reported that Tia Piccolo, who does the Newsletter, sent an email with instructions to use a certain font and only one page for Newsletter articles.

27 **11. NEW BUSINESS**

28 A. Resolution #30 – In summary this states the intent of the Municipal Authority to reimburse expenditures for certain capital projects from the proceeds of a guaranteed note. Bob saw a few items that need correction:

31 * Spelling of Lockwood

32 * Roman Numerals need to be corrected

33 * Should be “Citizens of East Goshen” not the citizens of the Municipal Authority

34 * Delete the “p” after ii

35 Jack made a motion to adopt Resolution #30 as amended with Bob’s corrections. Fran seconded the motion. There was no further discussion. The motion passed unanimously. Rick will redraft it. Kevin mentioned that in the future, new municipal bonds may lose their tax exemption.

39 B. Pennoni – Proposal for Professional Services for Lockwood Chase STP. Dan explained what is included in the \$77,800 cost. Carmen didn’t know how to tell if it is a good bid or not. There have been estimates before and overages. Should there be a comparable bid. Joe would also like to see all costs in advance. Bob pointed out that most of the overages were not Pennoni’s fault. Kevin mentioned that it is \$5,000 to get an RFP written. Dan feels that, since he has been here, Pennoni has not been over budget and some items weren’t charged by Pennoni. Pennoni’s costs are less than 15% of the total project. The only thing Dana questions is surveying and sewer stake out on easements. Carmen stated that there is agreement to shut down Lockwood. He just needs to know the prices are as good as can be. Bob feels there are members of the Authority who can justify Pennoni’s proposal – don’t go out for a bid. Dana would like to see some clarification of the survey components. Kevin

1 made a motion to approve the Lockwood Chase Sewage Treatment Plant Elimination
2 Design & Permitting proposal from Pennoni not to exceed \$77,800 without the Municipal
3 Authority's approval, and subject to engineers' re-clarification of the survey components 3A
4 and 3B. Jack seconded the motion. There was no further discussion. The motion passed
5 unanimously.

6 C. Pennoni – Sewage Facilities Planning Update Revision (Act 537) for the Marydell Pump
7 Station Elimination and Diversion. Dana moved to authorize Joe McCawley, Chairman, to
8 sign the required Section K of the Planning Module. Jack seconded the motion. There was
9 no further discussion. The motion passed unanimously.
10
11

12. CAPACITY REQUESTS

13 None
14

13. SEWER REPORTS

15 A. Mark Miller reported the following:

16 22,000 feet of pipe were cleaned. Hershey's Mill will be next.

17 Township Inspectors found a residence in Marydell that had a sump pump running
18 24/7 and was not installed properly.

19 Mark described other infiltrations.
20
21

22 B. Miller Environmental reported:

23 General:

- 24 ● Aqua continues to work on Norcardia removal.
- 25 ● MEI & Pennoni are scheduled to meet and recommend a plan for
26 dealing with old sludge.
- 27 ● Scott T is working on filter feed #2 alarm.
- 28 ● 2 UV Low/Low alarms on 5/5; SBR #4 turbs
- 29 ● Plant is recovering from early April solids loss. Exact cause
30 undetermined
- 31 ● Owner/Operators/Engineers/Contractors met to discuss ongoing
32 issues
- 33 ● No new issues at Lockwood.

34 Jesse mentioned there are no solids in the effluent. Cloudiness is caused by chlorine
35 addition. He wants to meet with Pennoni to see what needs to be done. Jesse feels they
36 need to get away from using chlorine as soon as possible. Bill commented that Norcardia is
37 caused by grease. He will give Jack a copy of a FOG letter that gives instructions on how
38 to get rid of household grease properly. Jack will use this for the Township Newsletter.
39

40 14. ANY OTHER MATTER

41 None
42

43 15. CORRESPONDENCE

44 A. Joe acknowledged a letter from Rita Hartleroad, who thanked Thomas Clapper, and
45 Mark Miller and his crew for their assistance when they had a sewer problem in their home.

46 B. Joe acknowledged a letter from Dan Truitt, State Representative, thanking the Authority
47 for their input about legislation.
48
49

1 **16. PUBLIC COMMENT**

2 None

3

4 **17. ADJOURNMENT**

5 There being no further business, Fran moved to adjourn the meeting. Dana seconded the
6 motion. The meeting was adjourned at 8:30 p.m. The Authority went into Executive
7 Session until 8:35 pm

8

9 Respectfully submitted,

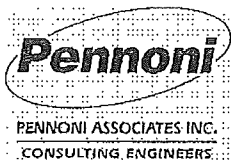
10

11

12 Ruth Kiefer, Recording Secretary

13

14 C:\Documents and Settings\Owner\My Documents\My Word\Municipal Authority\MA 2011\MA 05-09-11 draft.doc



INVOICE
 Philadelphia, PA
 215-222-3000 Fax: 215-222-3588

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 # : 473327
Invoice Date : 05/31/2011
Project : EGMA1100
Project Name : 2011 Annual Services

For Services Rendered through: 05/15/2011

Applebrook force main and flow analysis. LCSTP plan review and permit determination. April authority meeting, monthly engineer's report.

Phase : ** -- Professional Services**

Total Phase : ** -- Professional Services**

Labor : 1,867.50
Expense : 0.00
Phase Total : 1,867.50

Amount Due This Invoice

\$1,867.50

Fee : 10,000.00
Prior Billings : 6,062.50
Current Billings : 1,867.50
Total Billings : 7,930.00

Phase : ** -- Professional Services**

| Labor Class | Hours/Units | Rate | Amount |
|---------------------|--------------------|-------------|-----------------|
| Authority Engineer | 6.75 | 110.00 | 742.50 |
| Project Engineer | 10.50 | 90.00 | 945.00 |
| Associate Engineer | 2.25 | 80.00 | 180.00 |
| Labor Total: | 19.50 | | 1,867.50 |

Total Phase : ** -- Professional Services**

Labor : \$1,867.50
Expense : \$0.00

Total Project : EGMA1100 -- 2011 Annual Services

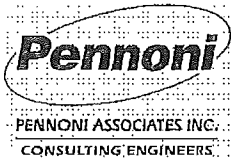
Labor : \$1,867.50
Expense : \$0.00

East Goshen Municipal Authority
EGMA1100 Invoice Summary.xlsx
Invoice Date 05-31-2011

Project: 2011 Annual Services
Pennoni Job No.: EGMA 1100
Invoice No: 473327
Invoice Period: 4/18/2011 to 5/15/2011
Initial Authorization: \$ 10,000.00 **Date:** 12/13/2010
Contract Amount: \$ 10,000.00
Previously Invoiced: \$ 2,757.50
Current Invoice: \$ 3,305.00
Invoiced to Date (\$): \$ 6,062.50
Invoiced to Date (%): 61%
Remaining Budget (\$): \$ 3,937.50
Remaining Budget (%): 39%

Budget by Phase:
Phase No. *****
Phase Name: 2011 Annual Services
Phase Budget: \$ 10,000.00
Previously Invoiced: \$ 6,062.50
Current Invoice: \$ 1,867.50
Invoiced to Date (\$): \$ 7,930.00
Invoiced to Date (%): 79%
Remaining Budget (\$): \$ 2,070.00
Remaining Budget (%): 21%

Comments: Applebrook force main and flow analysis. LCSTP plan review and permit determination.
April authority meeting, monthly engineer's report.



INVOICE

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

Invoice # : 473328
Invoice Date : 05/31/2011
Project : EGMA1102
Project Name : 2011 COA Reports

For Services Rendered through: 05/15/2011

Review March and April sewer meter data, provide comments, generate charts.

Phase : ** -- Professional Services**

Total Phase : ** -- Professional Services**

| | |
|----------------------|---------------|
| Labor : | 502.50 |
| Expense : | 0.00 |
| Phase Total : | 502.50 |

Amount Due This Invoice

\$502.50

| | |
|---------------------------|-----------|
| Fee : | 11,000.00 |
| Prior Billings : | 4,260.00 |
| Current Billings : | 502.50 |
| Total Billings : | 4,762.50 |

Phase : ** -- Professional Services**

| Labor Class | Hours/Units | Rate | Amount |
|---------------------|--------------------|-------------|---------------|
| Authority Engineer | 1.00 | 110.00 | 110.00 |
| Project Engineer | 1.25 | 90.00 | 112.50 |
| Associate Engineer | 3.50 | 80.00 | 280.00 |
| Labor Total: | 5.75 | | 502.50 |

Total Phase : ** -- Professional Services**

| | |
|------------------|-----------------|
| Labor : | \$502.50 |
| Expense : | \$0.00 |

Total Project : EGMA1102 -- 2011 COA Reports

| | |
|------------------|-----------------|
| Labor : | \$502.50 |
| Expense : | \$0.00 |

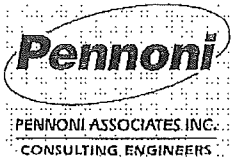
East Goshen Municipal Authority
EGMA1102 Invoice Summary.xlsx
Invoice Date 5-31-2011

Project: 2011 COA Reports
Pennoni Job No.: EGMA 1102
Invoice No: 473328
Invoice Period: 4/18/2011 to 5/15/2011
Initial Authorization: \$ 11,000.00 **Date:** 12/13/2010
Contract Amount: \$ 11,000.00
Previously Invoiced: \$ 530.00
Current Invoice: \$ 3,725.00
Invoiced to Date (\$): \$ 4,255.00
Invoiced to Date (%): 39%
Remaining Budget (\$): \$ 6,745.00
Remaining Budget (%): 61%

Budget by Phase:

Phase No. *****
2011 COA
Phase Name: Reports
Phase Budget: \$ 11,000.00
Previously Invoiced: \$ 4,260.00
Current Invoice: \$ 502.50
Invoiced to Date (\$): \$ 4,762.50
Invoiced to Date (%): 43%
Remaining Budget (\$): \$ 6,237.50
Remaining Budget (%): 57%

Comments: Review March and April sewer meter data, provide comments, generate charts.



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Philadelphia, PA 19182-7328

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

Invoice # : 473329
Invoice Date : 05/31/2011
Project : EGMA1103
Project Name : Applebrook NPDES Permit
Renewal

For Services Rendered through: 05/15/2011

Research and data gathering in support of the permit paperwork.

Phase : ** -- Professional Services**

Total Phase : ** -- Professional Services**

Labor : 750.00
Expense : 0.00
Phase Total : 750.00

Amount Due This Invoice

\$750.00

Fee : 3,750.00
Prior Billings : 0.00
Current Billings : 750.00
Total Billings : 750.00

Phase : ** -- Professional Services**

| Labor Class | Hours/Units | Rate | Amount |
|---------------------|--------------------|-------------|---------------|
| Project Engineer | 1.00 | 90.00 | 90.00 |
| Associate Engineer | 8.25 | 80.00 | 660.00 |
| Labor Total: | 9.25 | | 750.00 |

Total Phase : ** -- Professional Services**

Labor : \$750.00
Expense : \$0.00

Total Project : EGMA1103 -- Applebrook NPDES Permit Renewal

Labor : \$750.00
Expense : \$0.00

East Goshen Municipal Authority
EGMA1103 Invoice Summary.xlsx
Invoice Date 5-31-2011

Project:

Pennoni Job No.: Applebrook NPDES Permit Renewal

Invoice No: 473329

Invoice Period: 4/18/2011 to 5/15/2011

Initial Authorization: \$ 3,750.00 **Date:** 3/28/2011

Contract Amount: \$ 3,750.00

Previously Invoiced: \$ -

Current Invoice: \$ 750.00

Invoiced to Date (\$): \$ 750.00

Invoiced to Date (%): 20%

Remaining Budget (\$): \$ 3,000.00

Remaining Budget (%): 80%

Budget by Phase:

Phase No.

Applebrook

Phase Name: NPDES Permit

Phase Budget: \$ 3,750.00

Previously Invoiced: \$ -

Current Invoice: \$ 750.00

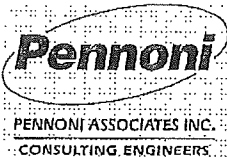
Invoiced to Date (\$): \$ 750.00

Invoiced to Date (%): 20%

Remaining Budget (\$): \$ 3,000.00

Remaining Budget (%): 80%

Comments: Research and data gathering in support of the permit paperwork.



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Philadelphia, PA 19182-7328

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

Invoice # : 473330
Invoice Date : 05/31/2011
Project : EGMA1104
Project Name : Reservoir Road PS Cost Estimate

For Services Rendered through: 05/15/2011

Research unit costs for construction, revise pump station calculations, and revise project cost estimate.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 1,494.00
Expense : 0.00
Phase Total : 1,494.00

Amount Due This Invoice

\$1,494.00

Fee : 1,500.00
Prior Billings : 0.00
Current Billings : 1,494.00
Total Billings : 1,494.00

Phase : **** -- Professional Services

| Labor Class | Hours/Units | Rate | Amount |
|---------------------------|--------------|-------|-----------------|
| Project Engineer | 7.00 | 90.00 | 630.00 |
| Engineering Technician II | 12.00 | 72.00 | 864.00 |
| Labor Total: | 19.00 | | 1,494.00 |

Total Phase : **** -- Professional Services

Labor : \$1,494.00
Expense : \$0.00

Total Project : EGMA1104 -- Reservoir Road PS Cost Estimate

Labor : \$1,494.00
Expense : \$0.00

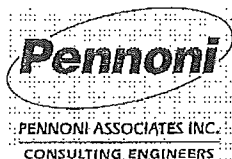
East Goshen Municipal Authority
EGMA1104 Invoice Summary.xlsx
Invoice Date 5-31-2011

Project: EGMA1104
Pennoni Job No.: Reservoir Road PS Cost Estimate
Invoice No: 473330
Invoice Period: 4/18/2011 to 5/15/2011
Initial Authorization: \$ 1,500.00 **Date:** 4/21/2011
Contract Amount: \$ 1,500.00
Previously Invoiced: \$ -
Current Invoice: \$ 1,494.00
Invoiced to Date (\$): \$ 1,494.00
Invoiced to Date (%): 100%
Remaining Budget (\$): \$ 6.00
Remaining Budget (%): 0%

Budget by Phase:

| Phase No. | **** |
|-------------------------------|----------------------|
| | Reservoir Rd PS |
| Phase Name: | Cost Estimate |
| Phase Budget: | \$ 1,500.00 |
| Previously Invoiced: | \$ - |
| Current Invoice: | \$ 1,494.00 |
| Invoiced to Date (\$): | \$ 1,494.00 |
| Invoiced to Date (%): | 100% |
| Remaining Budget (\$): | \$ 6.00 |
| Remaining Budget (%): | 0% |

Comments: Research unit costs for construction, revise pump station calculations, and revise project cost estimate.



INVOICE
 Philadelphia, PA
 215-222-3000 Fax: 215-222-3588

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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 # : 473331
Invoice Date : 05/31/2011
Project : EGMA1105
Project Name : LCSTP Final Design & Permitting

For Services Rendered through: 05/15/2011

Import aerial photography for comparison to existing plans.

Phase : 1 -- Design

Total Phase : 1 -- Design

Labor : 295.00
Expense : 0.00
Phase Total : 295.00

Amount Due This Invoice

\$295.00

Fee : 77,800.00
Prior Billings : 0.00
Current Billings : 295.00
Total Billings : 295.00

Phase : 1 -- Design

| Labor Class | Hours/Units | Rate | Amount |
|---------------------|--------------------|-------------|---------------|
| Authority Engineer | 1.50 | 110.00 | 165.00 |
| Project Engineer | 1.00 | 90.00 | 90.00 |
| Associate Engineer | 0.50 | 80.00 | 40.00 |
| Labor Total: | 3.00 | | 295.00 |

Total Phase : 1 -- Design

Labor : \$295.00
Expense : \$0.00

Total Project : EGMA1105 -- LCSTP Final Design & Permitting

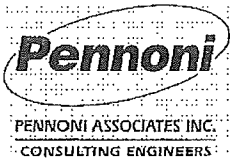
Labor : \$295.00
Expense : \$0.00

East Goshen Municipal Authority
 EGMA1105 Invoice Summary.xlsx
 Invoice Date 5-31-2011

Project: EGMA1105
Pennoni Job No.: LCSTP Final Design & Permitting
Invoice No: 473331
Invoice Period: 4/18/2011 to 5/15/2011
Initial Authorization: \$ 77,800.00 **Date:** 5/5/2011
Contract Amount: \$ 77,800.00
Previously Invoiced: \$ -
Current Invoice: \$ 295.00
Invoiced to Date (\$): \$ 295.00
Invoiced to Date (%): 0%
Remaining Budget (\$): \$ 77,505.00
Remaining Budget (%): 100%

Budget by Phase:
Phase No. ****
Phase Name: Reservoir Rd PS
Cost Estimate
Phase Budget: \$ 77,800.00
Previously Invoiced: \$ -
Current Invoice: \$ 295.00
Invoiced to Date (\$): \$ 295.00
Invoiced to Date (%): 0%
Remaining Budget (\$): \$ 77,505.00
Remaining Budget (%): 100%

Comments: Import aerial photography for comparison to existing plans.



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 Philadelphia, PA 19182-7328

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

Invoice # : 473332
 Invoice Date : 05/31/2011
 Project : EGMA1106
 Project Name : Coordination Meetings

For Services Rendered through: 05/15/2011

Project coordination meeting with the Authority attended by Barbato, Daily, Seacrist, and McAloon.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 1,747.50
 Expense : 0.00
 Phase Total : 1,747.50

Amount Due This Invoice

\$1,747.50

Fee : 2,000.00
 Prior Billings : 0.00
 Current Billings : 1,747.50
 Total Billings : 1,747.50

Phase : **** -- Professional Services

| Labor Class | Hours/ Units | Rate | Amount |
|----------------------|-----------------|--------|-----------------|
| Authority Engineer | 4.50 | 110.00 | 495.00 |
| Senior Engineer | 5.50 | 105.00 | 577.50 |
| Technical Specialist | 9.00 | 75.00 | 675.00 |
| Labor Total: | 19.00 | | 1,747.50 |

Total Phase : **** -- Professional Services

Labor : \$1,747.50
 Expense : \$0.00

Total Project : EGMA1106 -- Coordination Meetings

Labor : \$1,747.50
 Expense : \$0.00

East Goshen Municipal Authority
EGMA1106 Invoice Summary.xlsx
Invoice Date 5-31-2011

Project: EGMA1106
Pennoni Job No.: Coordination Meetings
Invoice No: 473332
Invoice Period: 4/18/2011 to 5/15/2011
Initial Authorization: \$ 2,000.00 **Date:** 5/23/2011
Contract Amount: \$ 2,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 1,747.50
Invoiced to Date (\$): \$ 1,747.50
Invoiced to Date (%): 87%
Remaining Budget (\$): \$ 252.50
Remaining Budget (%): 13%

Budget by Phase:

| Phase No. | **** |
|-------------------------------|------------------------|
| | Reservoir Rd PS |
| Phase Name: | Cost Estimate |
| Phase Budget: | \$ 2,000.00 |
| Previously Invoiced: | \$ - |
| Current Invoice: | \$ 1,747.50 |
| Invoiced to Date (\$): | \$ 1,747.50 |
| Invoiced to Date (%): | 87% |
| Remaining Budget (\$): | \$ 252.50 |
| Remaining Budget (%): | 13% |

Comments: Project coordination meeting with the Authority attended by Barbato, Daily, Seacrist, and McAloon.



Gawthrop Greenwood, PC
Attorneys at Law

17 East Gay Street, Suite 100 | (p) 610-696-8225
West Chester, PA 19381-0562 | (f) 610-344-0922
gglaw@gawthrop.com | www.gawthrop.com

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
04/30/2011
Client No: 6604-01M
Invoice No. 88902

General Authority Services

Fees

| | | Hours | |
|------------|---|-------------|---------------|
| 04/11/2011 | RFA | | |
| | Review packet for 4/11 meeting of Authority; attend regular meeting of Municipal Authority. | 2.50 | |
| 04/25/2011 | RFA | | |
| | Review material regarding Goose Creek TMDLS. | <u>0.60</u> | |
| | For Current Services Rendered | 3.10 | <u>589.00</u> |

Recapitulation

| <u>Timekeeper</u> | <u>Hours</u> | <u>Hourly Rate</u> | <u>Total</u> |
|-------------------|--------------|--------------------|--------------|
| Robert F. Adams | 3.10 | \$190.00 | \$589.00 |

Previous Balance

PAID 5/9/11

\$513.00

Total Current Charges

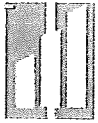
589.00

Balance Due

\$1,102.00

OK RS 5/12/11

To ensure proper credit, please write client number on your check when returning payment. Thank You.
A finance charge of 1.25% per month (15% annually) may be charged on balances not paid 60 days after the invoice date.



MAILLIE, FALCONIERO & COMPANY, LLP

Certified Public Accountants and Business Counselors

■ P.O. Box 680

■ Oaks, PA 19456-0680

Phone: (610) 935-1420

E-mail: firm@maillie.com

Web: www.maillie.com

Client Number: 2500
East Goshen Municipal Authority
Attn: Mr. Rick Smith
1580 Paoli Pike
West Chester, PA 19380-6107

Invoice: 1000005019
Date: 04/27/2011
Due Date: 05/27/2011

For examination of the financial statements of the Authority for the year ended December 31, 2010 and assistance with preparation of Management Discussion and Analysis report

Actual time and charges incurred \$7,900.00

Courtesy to reduce total to engagement letter estimate (\$400.00)

Billed Time & Expenses \$7,500.00

Invoice Total \$7,500.00

APPROVED BY: RS
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07

| <u>04/27/2011</u> | <u>03/31/2011</u> | <u>02/28/2011</u> | <u>01/31/2011</u> | <u>12/31/2010+</u> | <u>Total</u> |
|-------------------|-------------------|-------------------|-------------------|--------------------|--------------|
| 7,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | \$7,500.00 |

Please return this portion with payment.

ID: 2500
East Goshen Municipal Authority
(610)692-7171

Invoice: 1000005019

Date: 04/27/2011

Due Date: 05/27/2011

Amount Due: \$7,500.00

Amount Enclosed: \$ _____

Finance charges of 1 1/2% per month will be added to the unpaid balance of accounts over 30 days from invoice date. Annual percentage rate of 18%.

Prepared by/Return to:

Robert F. Adams, Esquire
POB 562
West Chester, PA 19381-0562

UPI #

COPY

PLEASE REVIEW
AUTHORIZE CHAIRMAN
TO EXHIBIT AGREEMENT.
CONNECTION REMOVED FOR JULY '11

SEWER CONNECTION AGREEMENT

THIS AGREEMENT, made the _____ day of _____, 2011, by and between EAST GOSHEN MUNICIPAL AUTHORITY (hereinafter "Authority") and George & Beverly [Name] (hereinafter "Owner"),

WITNESSETH:

WHEREAS, Owner is the record owner of real property located in East Goshen Township, Chester County, Pennsylvania, located at 1406 Pine Rock Road, being the above-identified tax parcel, having been acquired by deed recorded in the office of the Recorder of Deeds in and for Chester County, Pennsylvania, in Book _____, page _____ (hereinafter called "Property"); and

WHEREAS, Authority has installed in the neighborhood in which the Property is a part a sewage collection system referred to as the Pine Rock Sewer Project (hereinafter "Project"), which Project has been made part of the East Goshen Township sewer system which is owned by Authority and leased to East Goshen Township (hereinafter "Township"); and

WHEREAS, the estimated cost to each of the homes required to be connected to the Project is Four Thousand Eight Hundred Eighty-Five Dollars (\$4,885) for the connection cost, plus a tapping fee of Two Thousand Dollars (\$2,000), both of which amounts are due and payable to the Authority; and

WHEREAS, Authority has made available to Owner the option of paying for the connection cost of Four Thousand Four Hundred Eighty-Five Dollars (\$4,885) in quarterly installments over a period of twenty (20) years upon the terms and conditions set forth in the Installment Note attached hereto and made a part hereof; and

WHEREAS, Owner is entering into this Agreement to indicate Owner's legal obligation to make connection of the Property to the sewer system when directed to do so by the Authority and to pay the required connection fee, tapping fee and inspection fee for the Property upon the terms and conditions which follow.

NOW, THEREFORE, in consideration of the premises and the undertakings and promises hereinafter set forth, Owner agrees and declares that the Property shall be held, transferred, leased, sold, conveyed and occupied subject to the covenants, conditions, restrictions, charges and liens hereinafter set forth.

1. **Property Subject to Agreement.** The Property that is subject to the provisions of this Agreement and which, therefore, may be held, transferred, sold, conveyed and occupied subject to the obligations, covenants and restrictions hereinafter set forth, consists of the Property identified above.
2. **Number of Sewer Connections.** For all purposes under this Agreement, the term "sewer connection" shall be meant and intended to refer to the connection of the existing home on the Property which Owner agrees to connect to the sewer system when directed to do so by the Authority. Owner further agrees to pay all fees associated with the connection of the Property to the sewer system.
3. **Required Payments.** Owner agrees to pay to the Authority the connection fee of Four Thousand Four Hundred Eighty-Five Dollars (\$4,885) and the tapping fee of Two Thousand Dollars (\$2,000). In addition, the Owner agrees to pay East Goshen Township an inspection fee in the amount of Sixty Dollars (\$60). Owner has elected to sign the Installment Note attached hereto and marked Exhibit "A" in lieu of full payment of the connection fee. Owner agrees to sign the Note and return the checks in the respective amounts of Two Thousand Dollars (\$2,000) to the Authority and Sixty Dollars (\$60) to the Township prior to the connection to the sewer system.
4. **Future Connections by Owner.** It is agreed and understood by the Owner that the cost per connection payable hereunder is offered only for a single sewer connection for the Property. If the Owner requires a future sewer connection for which payment has not been made as provided for herein, a sewer connection fee, as calculated at that time, shall be payable.
5. **Remedies of Authority and Township.** Owner agrees and acknowledges that in the event Owner has not paid to the Authority the required sewer connection fee within sixty (60) days of notification, in accordance with terms of this Agreement, or defaults in the payment of any installment payable or balance due in accordance with the terms of this Agreement and the Installment Note attached hereto, the Authority and/or the Township shall have all rights under the Municipal Claim and Tax Lien Law, the Second Class Township Code and the Municipality Authorities Act to file and recover a municipal claim against the Property for each sewer connection fee or remainder thereof agreed to be paid by the Owner, together with allowed interest, penalties and costs upon the unpaid connection fee due, irrespective of the distance of the Property from the sewer system. The Owner hereby waives all applicable statutory time limits for the filing of municipal claims upon the Property.
6. **Recording.** The parties agree that this Agreement shall be recorded in the office of the Recorder of Deeds of Chester County, Pennsylvania.

7. **Binding Effect.** This Agreement shall bind and inure to the benefit of the parties hereto, their heirs, executors, successors and assigns.

IN WITNESS WHEREOF, the parties have executed this Sewer Connection Agreement the day and year first above written.

ATTEST:

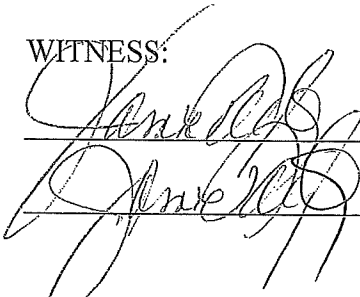
EAST GOSHEN MUNICIPAL
AUTHORITY

Secretary


By:

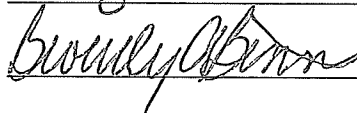
Chairman

WITNESS:



OWNER:





COMMONWEALTH OF PENNSYLVANIA
COUNTY OF CHESTER

ON THIS, the 6 day of June, 2011, before me, a notary public in and for said County and Commonwealth, personally appeared _____, who acknowledged himself/herself to be the Chairman of **EAST GOSHEN MUNICIPAL AUTHORITY**, and that he, as such, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

WITNESS my hand and notarial seal.

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF CHESTER

ON THIS, the 9th day of May, 2011, before me, a notary public in and for said County and Commonwealth, personally appeared George P + Beverly A. Binns, known to me (or satisfactorily proven) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged that he/she/they executed the same for the purposes therein contained.

WITNESS my hand and notarial seal.

COMMONWEALTH OF PENNSYLVANIA
JAMIE TAYLOR, NOTARY PUBLIC
EAST GOSHEN TWP, CHESTER COUNTY
MY COMMISSION EXPIRES MARCH 17, 2014

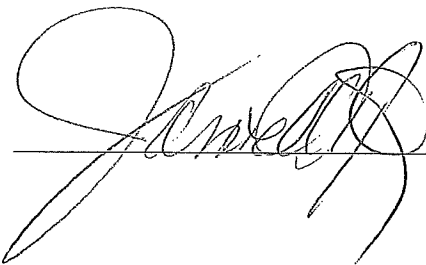


EXHIBIT "A"


INSTALLMENT NOTE

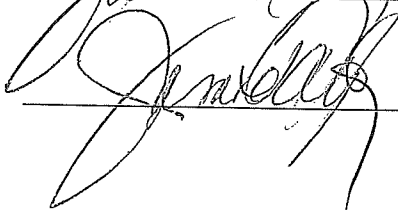
FOR VALUE RECEIVED, Owner, jointly and severally, promises to pay to the order of **EAST GOSHEN MUNICIPAL AUTHORITY**, the sum of Four Thousand Eight Hundred Eighty-Five Dollars (\$4,885), together with interest at the annual rate of six percent (6%), as payment of the balance of the connection fee for the real property located in East Goshen Township at _____ (hereinafter "Property").

The principal and interest shall each be payable together in eighty (80) equal successive quarterly installments of combined principal and interest in the aggregate amount of One Hundred Five Dollars (\$105) each, plus an administrative fee of Three Dollars (\$3.00) each quarter. The first installment shall be paid on _____, and subsequent installments shall be paid on the same day of each succeeding calendar quarter until all payments have been made. Each payment shall be credited first to the interest then due. The remainder of each payment shall then be credited to the outstanding principal and interest. A late payment fee of Twenty-Five Dollars (\$25) shall be imposed for each quarterly payment not paid when due. Owner shall have the right to pay the entire balance due at any time without penalty. The entire principal balance and accrued interest shall be payable in full upon any transfer of title of the Property by sale, gift, devise, mortgage, foreclosure, judicial sale or transfer by operation of law, to East Goshen Municipal Authority.


WITNESS my/our hand(s) this 9th day of May, 2011.

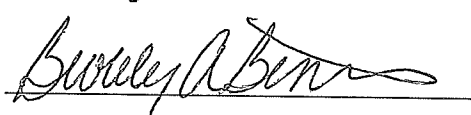
WITNESS:





OWNER:





EAST GOSHEN MUNICIPAL AUTHORITY
EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

June 1, 2011

To: Municipal Authority
From: Mark Miller
Re: May Monthly Report

Meters: The Chester Creek meters were read on a daily basis. The temporary meters that we have been reading as part of the consent order, were pulled and placed in new locations.

C.C. Collection: The Public Works Department made several lateral repairs this month repairing an estimated 50 to 75,000 gallons of infiltration. Pipe Data View made five point repairs on the Chester Creek collection system, these repairs were done in high traffic areas. We found 1500 feet of sewer line that will need to be lined in Mary Dell Farm.

We found a manhole on Clover Lane that was lined seven years ago starting to come apart . I contacted Terre Hill Concrete who came out and replaced the linear at no cost to the Authority. We will be replacing manhole covers this year on the streets that will be repaved. We also will be raising the manhole castings with brick and mortar rather than metal paving risers as done in the past. We have found that risers don't hold up.

Lochwood Plant: The fence around the ponds required some repairs, we also had to replace the gate. The floating aerators were pulled and routine maintenance was done in house.

Ridley Creek: After the meeting with the contractors as well as the operators we seem to be getting the plant back to where it should be. Do to high ammonia levels the plant operators stopped treating the nocardia, once the levels drop they will begin adding chlorine once again. Number two SBR was drained, cleaned and inspected by all involved. I will have a verbal report on the findings.

The Siemens Engineer was out in may to go over the SBR operations , Scott Towler will report on the engineers finding. We had some problems with Centerfuge. Worth was notified and came out to make the repairs.

The Public Works Department restored the Turner property last week we also did some cleanup of basi8n number two and installed jute matting.

Alarms: We responded to 20 alarms during the month of May.

PA One Calls: The Public Works Dept. responded to 65 PA One Calls.

2011 FLOWMETERS

2011 MAY 2ND QUARTER METERS FROM WEST GOSHEN - CC COLLECTION

| Precip Inches | DATE | WESTTOWN WAY 1000 | | ELLIS LANE 10 | | PAOLI PIKE 10 | | WILSON DRIVE 10 | | SUMMIT | | NET FLOWS 0 |
|------------------|----------|----------------------|-----------|------------------|---------|------------------|--------|--------------------|--------|---------|--------|-------------------|
| | | READING | GPD | READING | GPD | READING | GPD | READING | GPD | READING | GPD | |
| 0 | 05/01/11 | | | | | | | | | | | |
| 0 | 05/02/11 | 2,075,710 | 1,306,333 | 18,607,014 | 146,973 | 9,815,146 | 75,660 | 11,454,047 | 46,863 | 20,400 | 20,400 | 1,036,817 |
| 0.3 | 05/03/11 | 2,077,030 | 1,320,000 | 18,621,877 | 148,630 | 9,822,371 | 74,250 | 11,460,831 | 67,840 | 20,400 | 20,400 | 1,029,280 |
| 0.45 | 05/04/11 | 2,078,634 | 1,604,000 | 18,636,879 | 150,020 | 9,830,393 | 78,220 | 11,468,246 | 74,150 | 20,400 | 20,400 | 1,301,610 |
| 0 | 05/05/11 | 2,079,741 | 1,107,000 | 18,653,823 | 167,440 | 9,838,327 | 79,340 | 11,475,748 | 75,020 | 20,400 | 20,400 | 785,200 |
| 0 | 05/06/11 | 2,081,116 | 1,375,000 | 18,669,260 | 156,370 | 9,845,888 | 75,610 | 11,482,288 | 65,400 | 20,400 | 20,400 | 1,077,620 |
| 0 | 05/07/11 | | | | | | | | | 20,400 | 20,400 | 0 |
| 0 | 05/08/11 | | | | | | | | | 20,400 | 20,400 | 0 |
| 0 | 05/09/11 | 2,084,897 | 1,260,333 | 18,712,939 | 145,597 | 9,867,737 | 72,830 | 11,494,399 | 40,370 | 20,400 | 20,400 | 1,001,537 |
| 0 | 05/10/11 | 2,086,172 | 1,275,000 | 18,726,521 | 135,820 | 9,875,161 | 74,240 | 11,500,864 | 64,650 | 20,400 | 20,400 | 1,000,290 |
| 0 | 05/11/11 | 2,087,483 | 1,311,000 | 18,740,747 | 142,260 | 9,882,478 | 73,170 | 11,506,922 | 60,580 | 20,400 | 20,400 | 1,034,980 |
| 0 | 05/12/11 | 2,088,747 | 1,264,000 | 18,754,842 | 138,950 | 9,889,572 | 70,940 | 11,513,177 | 62,550 | 20,400 | 20,400 | 981,560 |
| 0 | 05/13/11 | 2,089,989 | 1,252,000 | 18,768,201 | 135,590 | 9,896,739 | 71,670 | 11,519,379 | 62,020 | 20,400 | 20,400 | 982,720 |
| 0.45 | 05/14/11 | | | | | | | | | 20,400 | 20,400 | 0 |
| 0.92 | 05/15/11 | | | | | | | | | 20,400 | 20,400 | 0 |
| 0.26 | 05/16/11 | 2,093,850 | 1,283,667 | 18,814,118 | 153,057 | 9,918,966 | 74,090 | 11,532,772 | 44,643 | 20,400 | 20,400 | 1,011,877 |
| 0.46 | 05/17/11 | 2,095,206 | 1,356,000 | 18,829,711 | 155,930 | 9,926,202 | 72,360 | 11,540,363 | 75,910 | 20,400 | 20,400 | 1,051,800 |
| 0.2 | 05/18/11 | 2,096,609 | 1,603,000 | 18,846,969 | 192,760 | 9,934,381 | 81,790 | 11,548,180 | 78,170 | 20,400 | 20,400 | 1,250,260 |
| 0.3 | 05/19/11 | 2,098,195 | 1,386,000 | 18,865,165 | 161,760 | 9,942,133 | 77,520 | 11,555,554 | 73,740 | 20,400 | 20,400 | 1,072,980 |
| 0.5 | 05/20/11 | 2,099,637 | 1,442,000 | 18,882,788 | 176,230 | 9,949,953 | 78,200 | 11,562,490 | 69,360 | 20,400 | 20,400 | 1,118,210 |
| 0 | 05/21/11 | | | | | | | | | 20,400 | 20,400 | 0 |
| 0.05 | 05/22/11 | | | | | | | | | 20,400 | 20,400 | 0 |
| 0 | 05/23/11 | | | | | | | | | 20,400 | 20,400 | 0 |
| 0 | 05/24/11 | 2,105,125 | 1,372,000 | 18,949,601 | 167,033 | 9,981,206 | 78,133 | 11,583,227 | 51,843 | 20,400 | 20,400 | 1,074,983 |
| 0 | 05/25/11 | 2,106,462 | 1,337,000 | 18,964,603 | 150,020 | 9,986,648 | 54,420 | 11,590,524 | 72,970 | 20,400 | 20,400 | 1,059,590 |
| 0 | 05/26/11 | | | | | | | | | 20,400 | 20,400 | 0 |
| 0 | 05/27/11 | 2,109,056 | 1,297,000 | 18,996,213 | 158,050 | 10,003,598 | 84,750 | 11,602,799 | 61,375 | 20,400 | 20,400 | 982,825 |
| 0 | 05/28/11 | | | | | | | | | 20,400 | 20,400 | 0 |
| 0 | 05/29/11 | | | | | | | | | 20,400 | 20,400 | 0 |
| 0 | 05/30/11 | | | | | | | | | 20,400 | 20,400 | 0 |
| 0.00 | 05/31/10 | 2,113,782 | 1,184,000 | 19,051,645 | 138,580 | 10,032,195 | 71,493 | 11,617,476 | 36,693 | 20,400 | 20,400 | 937,235 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 3.89 | | | 1,333,439 | | 153,742 | | 74,669 | | 62,324 | 20,400 | 20,400 | 1,042,705 |

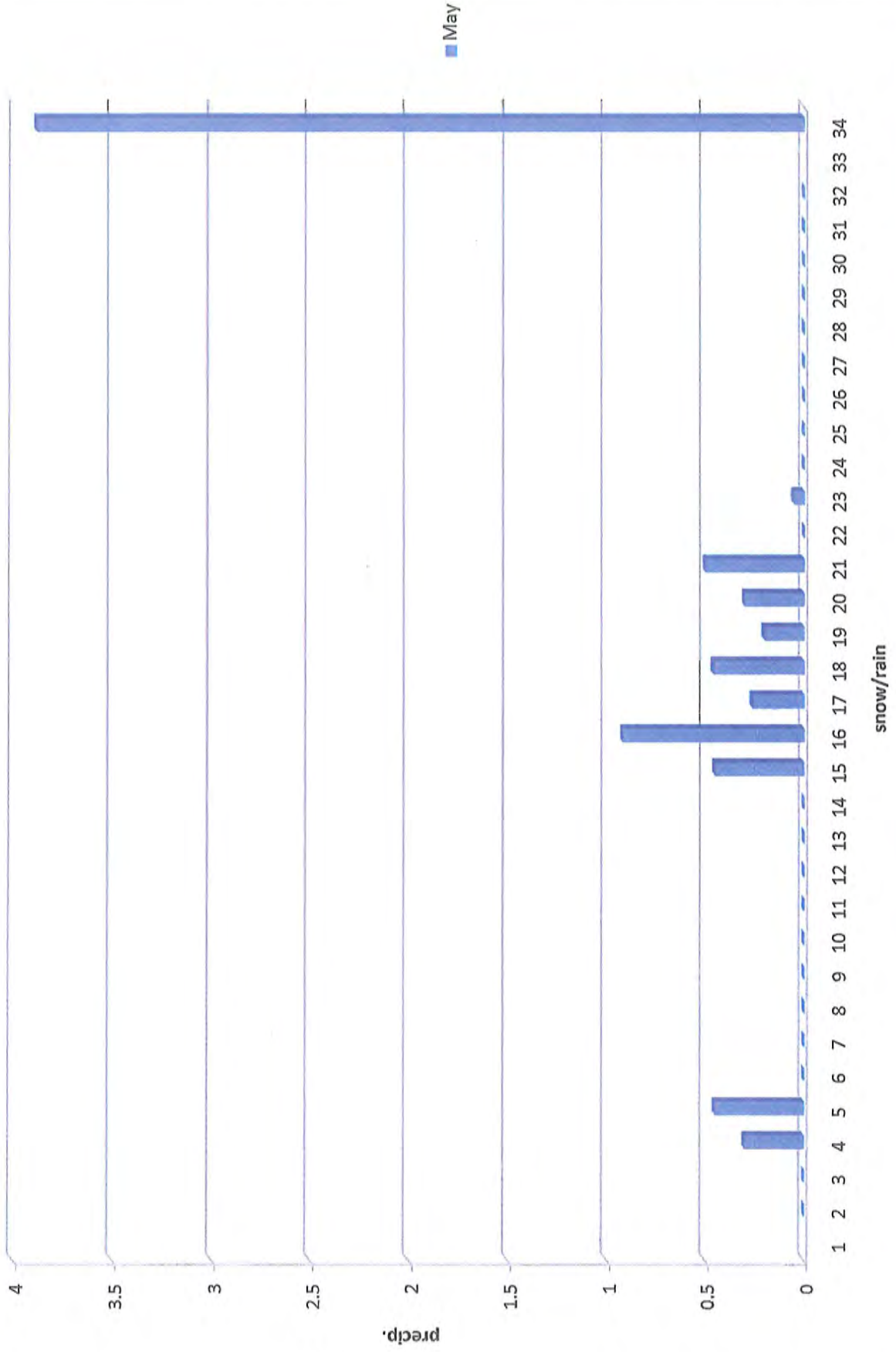
DAILY LOC INQUIRER EG TWP

3.89

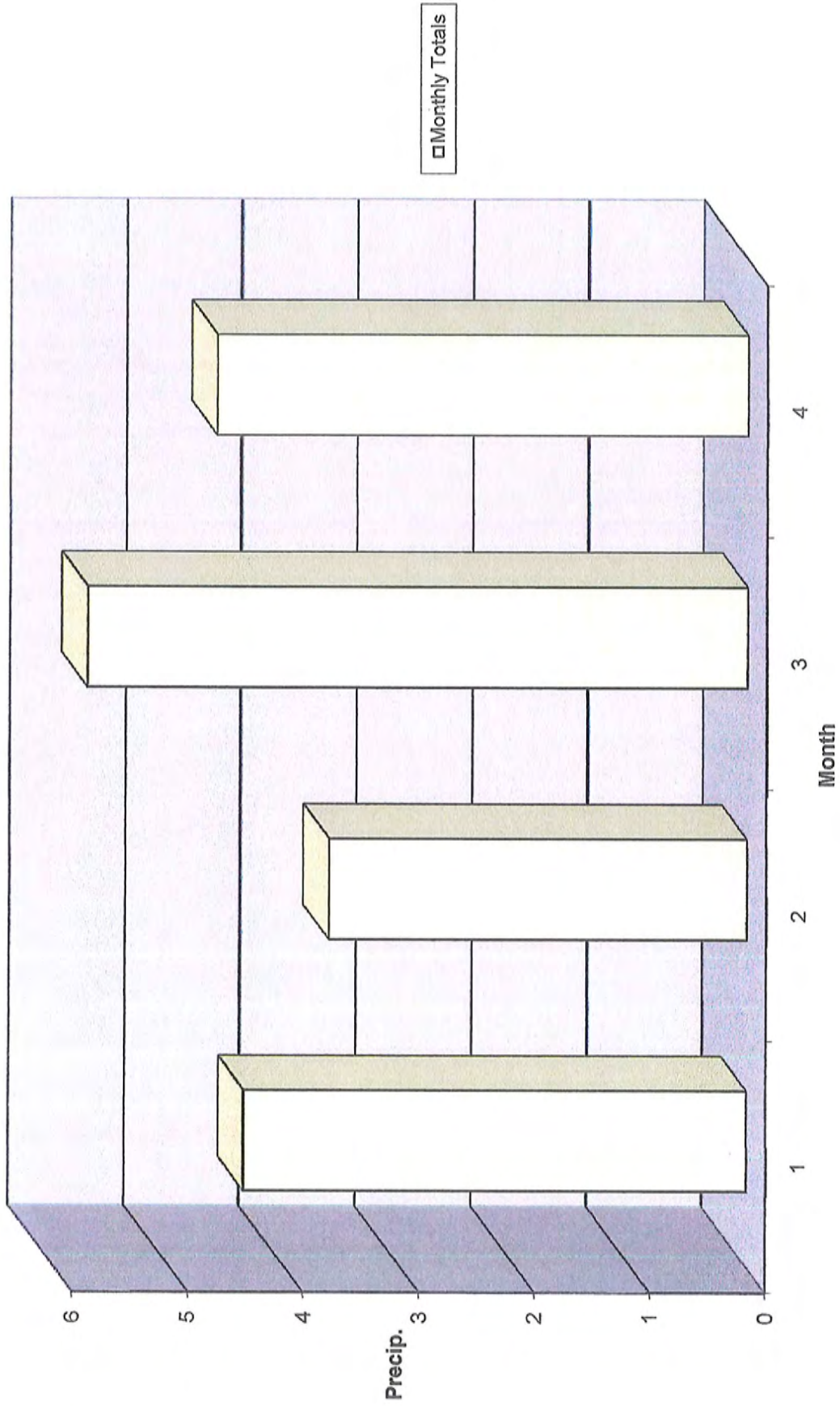
22.21

MONTH TO DATE
 NORMAL MONTH TO DATE
 YEAR TO DATE
 NORMAL YEAR TO DATE (DL)

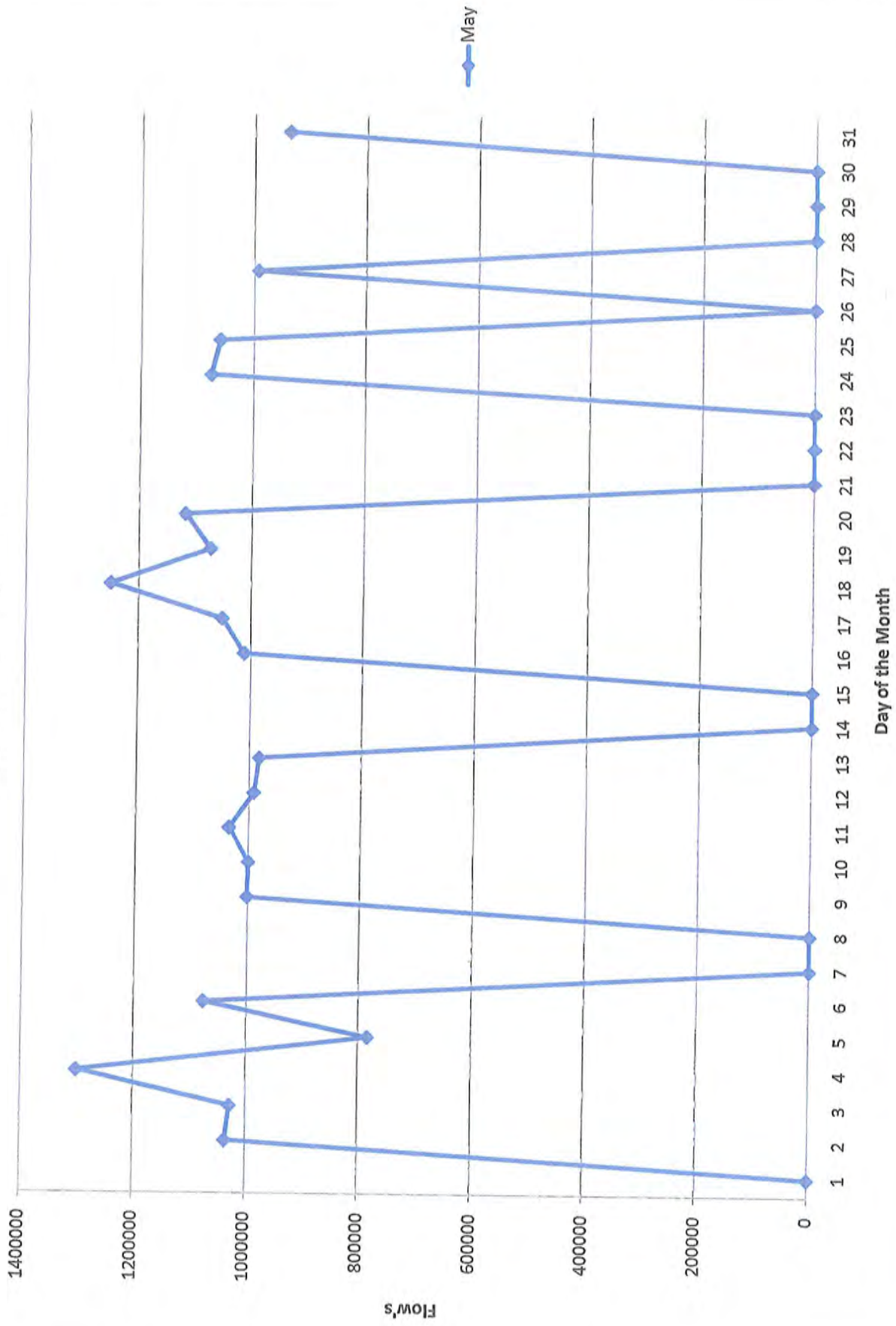
May precip. 3.89 - 2011



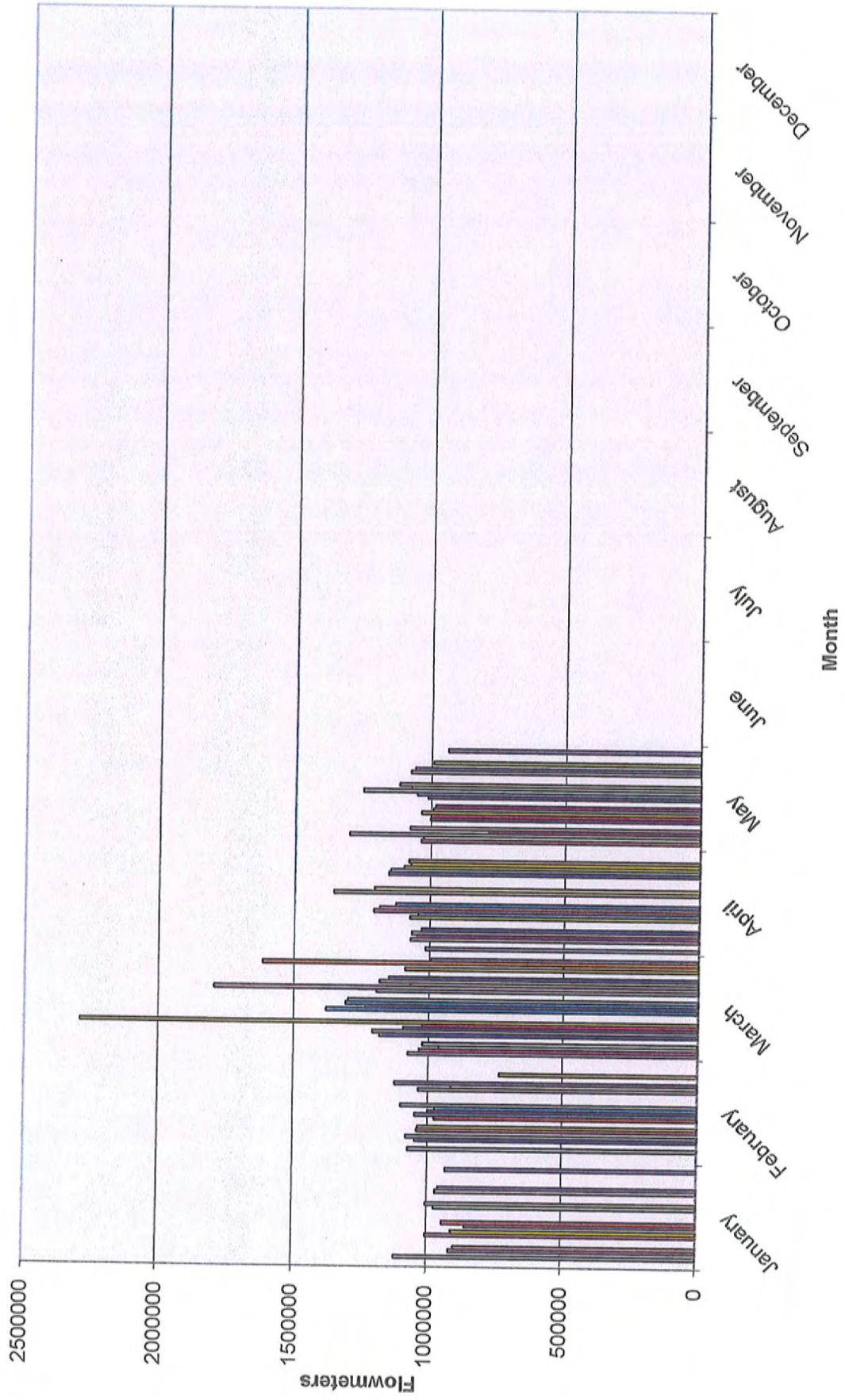
Monthly Totals 2011 (Jan-Dec)



Flowmeters May 2011



Monthly Totals 2010 Jan-Dec



MILLER ENVIRONMENTAL, INC.

The Water and Wastewater Authority®

RECEIVED
BY: _____

MAY 05 2011

5 May 2011

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

Attn: Rick Smith, Township Manager

Re: Monthly Operations Report- May 2011

Dear Mr. Smith:

For the month of April, we have the following operations activity to report:

General.

- Aqua continues to work on Norcardia removal
- MEI & Pennoni are schedule to meet and recommend a plan for dealing with old sludge
- Scott T. is working on filter feed #2 alarm
- 2 UV Low/Low alarms on 5/5; SBR #4 turbs.
- Plant is recovering from early April solids loss. Exact cause undetermined
- Owners/Operators/Engineers/Contractors met to discuss ongoing issues
- No new issues at Lochwood

Attachments.

- March eDMRs (2)

Thank you,
MILLER ENVIRONMENTAL INC.

William Ronyack
Operations Manager

(SENT VIA EMAIL)

CC: Mark Miller, Director of Public Works
Scott Stump, MEI

Pennsylvania Department of Environment Protection Discharge Monitoring Report (DMR)

FACILITY: RIDLEY CREEK STP **PERMIT NUMBER:** PA0050504 **REGION:** EP SE Rgn Off
PERMITTEE: EAST GOSHEN TWP **OUTFALL:** **COUNTY:** Chester
MUNI AUTH CHESTER CNTY 001 **CITY:** WEST CHESTER
1751 TOWNE DR **MONITORING PERIOD:** From: 2011-03-01 NO DISCHARGE
WEST CHESTER, PA To: 2011-03-31 **FROM SITE:** ()
ADDRESS: 18360

| Parameter | Sample Measurement | Quantity or Loading | | Units | Quality or Concentration | | | Units | No. Ex. | Frequency of Analysis | Sample Type |
|---|--------------------|------------------------|----------------------|---------|--------------------------|------------------------|----------------------------|------------|---------|-----------------------|-----------------|
| | | Value | Value | | Value | Value | Value | | | | |
| Dissolved Oxygen | Sample Measurement | 6.35 | 8.74 | | 5.0 | Report Average Monthly | | mg/L | 0 | 1/day | Grab |
| Parameter Code: 00300 Sludge Code: 1 | Permit Requirement | | | | Instantaneous Minimum | | | | | 1/day | Grab |
| pH | Sample Measurement | 6.7 | 12.4 | | 6.0 | Instantaneous Minimum | 9.0 | S.U. | 1 | 1/day | Grab |
| Parameter Code: 00400 Sludge Code: 1 | Permit Requirement | | | | Instantaneous Minimum | | Instantaneous Maximum | | | 1/day | Grab |
| Total Suspended Solids | Sample Measurement | 13.344 | 13.344 | | | 4 | 4 | mg/L | 0 | 1/week | 24-Hr Composite |
| Parameter Code: 00530 Sludge Code: 1 | Permit Requirement | 100 Average Monthly | 150 Weekly Average | lbs/day | | 30 Average Monthly | 45 Weekly Average | | | 1/week | 24-Hr Composite |
| Ammonia-Nitrogen | Sample Measurement | 2.04 | | | | 0.612 | | mg/L | 0 | 1/week | 24-Hr Composite |
| Parameter Code: 00610 Sludge Code: 1 | Permit Requirement | 40 Average Monthly | | lbs/day | | 12 Average Monthly | | | | 1/week | 24-Hr Composite |
| Flow (mgd) | Sample Measurement | 4 | 1.0 | | | | | | 0 | Continuous | Metered |
| Parameter Code: 80050 Sludge Code: 1 | Permit Requirement | Report Average Monthly | Report Daily Maximum | MGD | | | | | | Continuous | Metered |
| Focal Coliform | Sample Measurement | | | | | 11.49 | 20 | CFU/100 ml | 0 | 1/week | Grab |
| Parameter Code: 74005 Sludge Code: 1 | Permit Requirement | | | | | Geometric Mean | 1000 Instantaneous Maximum | | | 1/week | Grab |
| CBOD5 | Sample Measurement | 10.008 | 10.008 | | | 3 | 3 | mg/L | 0 | 1/week | 24-Hr Composite |
| Parameter Code: 00051 Sludge Code: 1 | Permit Requirement | 07 Average Monthly | 100 Weekly Average | lbs/day | | 20 Average Monthly | 30 Weekly Average | | | 1/week | 24-Hr Composite |

| | | | | |
|--|--|---|---------------------|-------------|
| Name/Title of Principal Executive Officer Or Authorized Agent | I certify under penalty of law that this document was prepared under my direction or supervision by a person or persons who manage the system or those persons directly responsible for gathering the information. The information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). | Signature of Principal Executive Officer Or Authorized Agent | Telephone No | Date |
| | | | | 2011-04-27 |

Report all violations during the reporting period on a Non-Compliance Reporting Form, as an attachment to your eDMR Page 1 submission.

Pennsylvania Department of Environment Protection Discharge Monitoring Report (DMR)

FACILITY: RIDLEY CREEK STP **PERMIT NUMBER:** PA0050504 **REGION:** EP SE Rgn Off

PERMITTEE: EAST GOSHEN TWP
MUNI AUTH CHESTER
CNTY
1751 TOWNE DR
WEST CHESTER, PA
19380

OUTFALL:

002

COUNTY:
CITY:
From: 2011-03-01 NO DISCHARGE
To: 2011-03-31 FROM SITE:

Chester
WEST CHESTER

| Parameter | Sample Measurement | Quantity or Loading | | Units | Quality or Concentration | | | Units | No. of Analyses | Frequency | Sample Type |
|--|--|---------------------|-------|-------|--------------------------|-----------------|-----------------------|--|-----------------|---------------|-----------------|
| | | Value | Value | | Value | Value | Value | | | | |
| Parameter Code: 00300 Stage Code: 1 | Sample Measurement | | | | 5.0 | Report | | mg/L | | 1/day | Grab |
| | Permit Requirement | | | | Instantaneous Minimum | Average Monthly | | | | | |
| Parameter Code: 00400 Stage Code: 1 | Sample Measurement | | | | 5.0 | Report | 9.0 | S.U. | | 1/day | Grab |
| | Permit Requirement | | | | Instantaneous Minimum | Average Monthly | Instantaneous Maximum | | | | |
| Parameter Code: 00530 Stage Code: 1 | Sample Measurement | | | | | 30 | 45 | mg/L | | 1/week | Composite |
| | Permit Requirement | | | | | Average Monthly | Weekly Average | | | | |
| Parameter Code: 00610 Stage Code: 1 | Sample Measurement | | | | | 120 | | mg/L | | 1/week | 24-hr Composite |
| | Permit Requirement | | | | | Average Monthly | | | | | |
| Parameter Code: 50000 Stage Code: 1 | Sample Measurement | | | MGD | | | | | | Continuous | Measured |
| | Permit Requirement | | | | | | | | | | |
| Parameter Code: 74004 Stage Code: 1 | Sample Measurement | | | | | 300 | | CFU/100 ml | | 1/week | Grab |
| | Permit Requirement | | | | | Geometric Mean | | | | | |
| Parameter Code: 80002 Stage Code: 1 | Sample Measurement | | | | | 20 | 30 | mg/L | | 1/week | 24-hr Composite |
| | Permit Requirement | | | | | Average Monthly | Weekly Average | | | | |
| Memoranda of Principal Executive Officer or Authorized Agent | I certify under penalty of law that this document was prepared under my knowledge of contents and is consistent with a system designed to ensure that qualified personnel gather and maintain the information submitted. I warrant on my behalf of the person or persons who manage the system that the information is true, accurate, complete and correct. The information submitted is, to the best of my knowledge and belief, true and correct. I am aware that statements signed by me or authorized agent constitute information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to document falsification). | | | | | | | Signature of Principal Executive Officer or Authorized Agent | | Telephone No. | Date |

Report all violations during the reporting period on a Non-Compliance Reporting Form, as an attachment to your permit report submission.

Pennsylvania Department of Environment Protection Discharge Monitoring Report (DMR)

FACILITY: LOCHWOOD CHASE STP & SPRAY SYS **PERMIT NUMBER:** 1500430 **REGION:** EP SE Rpt Of
PERMITTEE: EAST GOSHEN TWP HUNTAUTH CHESTER CNTY **OUTFALL:** 001 **COUNTY:** Chester
ADDRESS: 1680 PAOLI PIKE WEST CHESTER, PA 19380-8407 **MONITORING PERIOD:** From: 2011-03-01 To: 2011-03-31 **NO DISCHARGE FROM SITE:** ()
CITY: WEST CHESTER

| Parameter | Sample Measurement | Quantity or Location | | Quality or Concentration | | | Units | No. of Analytes | Frequency | Sample Type |
|---|--|----------------------|--------|--------------------------|-----------------------|----------------|--|-----------------|------------|-------------|
| | | Value | Value | Value | Value | Value | | | | |
| pH | Sample Measurement | 7.0 | 7.0 | 6.5 | 7.5 | 8.0 | 0.1 | 1 | Monthly | Grab |
| Parameter Code: 00000 | Partial Requirement | 6.5 | 7.5 | 6.0 | 8.0 | Maximum | | | | Grab |
| Stage Code: 1 | Sample Measurement | 15.1 | 15.2 | 15.0 | 15.2 | | mg/L | 1 | Monthly | Grab |
| Total Suspended Solids | Sample Measurement | 30 | 35 | 30 | 35 | Weekly Average | | | | Grab |
| Parameter Code: 00000 | Partial Requirement | 30 | 35 | Average Monthly | Weekly Average | | | | | Grab |
| Stage Code: 1 | Sample Measurement | 10.7 | 10.7 | 10.7 | 10.7 | | mg/L | 1 | Monthly | Grab |
| Total Nitrogen | Sample Measurement | 0.0280 | 0.0282 | 0.0280 | 0.0282 | | mg/L | 1 | Continuous | Recorded |
| Parameter Code: 00000 | Partial Requirement | 0.0280 | 0.0282 | Average Monthly | Instantaneous Maximum | | | | | Grab |
| Stage Code: 1 | Sample Measurement | 0.0280 | 0.0282 | 0.0280 | 0.0282 | | mg/L | 1 | Continuous | Recorded |
| Flow (mgd) | Sample Measurement | 0.0280 | 0.0282 | 0.0280 | 0.0282 | | mg/L | 1 | Continuous | Recorded |
| Parameter Code: 00000 | Partial Requirement | 0.0280 | 0.0282 | Average Monthly | Instantaneous Maximum | | | | | Grab |
| Stage Code: 0 | Sample Measurement | 0.0280 | 0.0282 | 0.0280 | 0.0282 | | mg/L | 1 | Continuous | Recorded |
| Fecal Coliform | Sample Measurement | 200 | 200 | 200 | 200 | | CFU/100 mL | 1 | Monthly | Grab |
| Parameter Code: 74000 | Partial Requirement | 200 | 200 | Geometric Mean | | | | | | Grab |
| Stage Code: 1 | Sample Measurement | 200 | 200 | 200 | 200 | | CFU/100 mL | 1 | Monthly | Grab |
| 060005 | Sample Measurement | 200 | 200 | 200 | 200 | | CFU/100 mL | 1 | Monthly | Grab |
| Parameter Code: 00000 | Partial Requirement | 200 | 200 | 200 | 200 | | | | | Grab |
| Stage Code: 1 | Sample Measurement | 200 | 200 | 200 | 200 | | CFU/100 mL | 1 | Monthly | Grab |
| Principal Discharge Officer or Authorized Agent | I certify under penalty of law that this discharge monitoring report and any data or information reported herein were prepared in accordance with the monitoring system and methods that have been approved by the Department of Environmental Protection, and that the information reported herein is true and correct to the best of my knowledge and belief. I am aware and understand that anyone who furnishes false or misleading information on this report or who omits material or information requested on the report may be subject to criminal sanctions (including fines and imprisonment) and/or civil sanctions (35 Pa. C.S. § 1804 relating to falsified information). | | | | | | Signature of Principal Discharge Officer or Authorized Agent | | Date | |
| | | | | | | | | | | 2011-04-28 |

Report all violations during this reporting period on a Non-Compliance Reporting form, as set forth on page 2000R. Page 1

GENERAL REPORT COMMENT:

The non-compliance issues are due to disinfection or lack of and also operator error due to what a weak weak spot considered by the operator in spraying to the spray nozzle.

PARAMETER SPECIFIC COMMENTS:

| | | | |
|--------|----------------|--------------------|--------------------------------|
| 270173 | Fecal Coliform | Concentration Avg: | disinfection is being modified |
| | | Concentration Avg: | disinfection is being modified |
| 270173 | OBODS | Concentration Max: | disinfection is being modified |
| 270173 | Flow (mgd) | Loading Avg: | operator error |

EAST GOSHEN MUNICIPAL AUTHORITY
EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

May 31, 2011

Mr. Mark Turner:
1054 S Leopard Road
Berwyn PA 19312

Dear Mr. Turner:

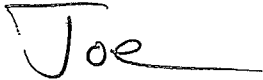
The East Goshen Municipal Authority has completed the project to upgrade the Ridley Creek Sewer Plant. On behalf of the Municipal Authority and the residents I would like to thank you for allowing us to utilize a portion of your property at 1755 Towne Drive as a parking area. The final restoration of your property has been completed and we reseeded the disturbed areas with a wildflower mix as you requested.

The utilization of your property definitely made the construction process easier. It eliminated the need for the contractors to park on the street which would have adversely impacted the residents who live adjacent to sewer plant.

In recognition of your generosity in allowing us to use your property the Municipal Authority has agreed to waive the sewer tapping fee in the event you or your successor and assigns decide to build a house on your property and want to connect it to the public sewer system.

Thanks again.

Sincerely,

A handwritten signature in black ink that reads "Joe". The signature is written in a cursive style with a long horizontal line extending to the right.

Joseph McCawley
Chairman