

GLENBARD WASTEWATER AUTHORITY

Executive Oversight Committee

Agenda

August 22, 2017

8:00 a.m.

Meeting will be held at the Glenbard Wastewater Plant

*NEW MAILING ADDRESS

945 Bemis Rd, Glen Ellyn, IL

1. Call to Order
2. Roll Call
3. Pledge of Allegiance
4. Public Comment
5. Consent Agenda – The following items are considered to be routine by the Executive Oversight Committee and will be approved with a single vote in the form listed below:

Motion the EOC to approve the following items including Payroll and Vouchers for the Month of July 2017 totaling \$2,249,970.48 (Trustee Enright).

- 5.1 Executive Oversight Committee Meeting Minutes:
July 13, 2017 EOC Meeting
- 5.2 Vouchers Previously Reviewed by:
July 2017 – Trustee Enright
- 5.3 HSW/FOG Receiving Station Improvements

The CHP engines have been running nonstop most of the week of July 31st, but with that, the grease loadings have also upset the digesters. We are working toward a pumping solution to be able to feed the digesters on a 24-hour basis instead of the 11 hours we are currently having to do now.

The solution that we have come up with is utilizing an existing pump we have onsite, using an existing VFD to control the pump speed. The cost we will need to incur is labor to modify the pipework and install valves which will need to be completed by a mechanical contractor. The quote we have received from the CHP project Mechanical Contractor, Dahme Mechanical Industries Inc. is for a ***Not to Exceed Price*** of \$19,000. Dahme is still responsible for the warranty of the work that they have completed at the HSW/FOG station. Confirmation has been provided that if we hire another contractor to complete the work within the confines of the warranted work the 5-year warranty will be voided. We are going to try to implement this change as expeditiously as possible to help avoid

upsetting the digesters any more than we already have. This issue is a result of exponential growth in the receipt of HSW/FOG. The benefits of this is we will not need to turn away as many FOG deliveries, it will improve the overall Return on Investment (ROI), it will continue to produce additional biogas, and it will protect the investment that has already been made.

The Authority has \$100,000 budgeted for additional work to improve the CHP/HSW facilities. Since this system has been over worked causing operational issues with the digester, we would like to request the following:

- * Approval to waive the Village of Glen Ellyn Purchasing Policy Section “B” Authority to Purchase, Subsection “5” Rule of Three due to voiding of the warranty associated with modifying the HSW/FOG.
- * Approval to award Dahme Mechanical Industries Inc. the work associated with modifying the pipe work and valve additions on the HSW Receiving Station for the *NOT to EXCEED* amount of \$19,000.

5.4 Utility Vehicles Budgeted Purchase Request

The Authority has budgeted \$46,000 for the replacement of the two (2) utility vehicles, Unit 634 (9 Years Old) and 640 (8 Years Old). Attached to this memo are the NJPA Quotes for the purchase of two (2) Polaris Gem electric utility vehicles. The Authority Staff requests the EOC to approve waiving competitive bidding per the Village of Glen Ellyn purchasing policy *Section C. COMPETITIVE SEALED BIDDING subsection 1d. “Cooperative Purchases” defined as more than one unit of government purchasing goods and services together by competitive bid.*

National Joint Powers Alliance (NJPA) is cooperative contract purchasing leveraging the national purchasing power of more than 50,000-member agencies while also streamlining the required purchasing process. As a municipal national contracting agency, NJPA establishes and provides nationally leveraged and competitively solicited purchasing contracts under the guidance of the Uniform Municipal Contracting Law. Joint Powers laws enable members to legally purchase through awarded contracts. Polaris Sales, Inc. is providing utility vehicles directly through NJPA contract # 090512-PSI. Randall Industries is the local representing dealership for Polaris.

Authority staff tested and inspected all aspects of the GEM utility vehicle and found it to be satisfactory with the needs of everyday tasks. The GEM provides emission free operation with a sealed maintenance free battery. The overall cost of this unit is less expensive than comparable gasoline or diesel units.

The Authority staff is requesting your authorization to purchase two (2) specified Polaris GEM utility vehicles through NJPA for a total price of \$29,363.

The Authority Staff would also like to request approval for utility vehicles #634 & 640 be approved for future sale by means of public auction as directed by the Village of Glen Ellyn in accordance with their respective equipment purchase and disposal policy.

6. Bid Award for House Demolition at 21W 518 Bemis Rd.
Presented by – Matt Streicher, Engineer/Assistant Director

In 2016 the Authority purchased the house/property across the street from the main treatment plant at 21W518 Bemis Road. The property was acquired to provide for any future needs, but at this time mainly is providing a buffer zone between the treatment plant and neighboring residents. The existing house on the site is vacant, and now can be viewed as a liability to the Authority. Therefore, in preparation for future use, and to lower any liability to the Authority, a bid invitation was advertised to have the house demolished.

The Authority received 4 bids for Demolition Services, the results are as follows:

Name of Firm	Bid Amount
Green Demolition*	\$25,800.00
KLF Enterprises	\$32,632.00
Alpine Demolition Services	\$60,000.00
American Demolition Corporation	\$68,200.00

*Non-Responsive Bid

After further evaluation of the low bidder, Green Demolition, it was discovered they failed to include the asbestos remediation as part of their bid, which determined their bid to be non-responsive based on correspondence with our legal representation. Therefore, references were checked on the second low bidder.

Based on qualifications, reference checks and price Authority staff recommend awarding the demolition project to KLF Enterprises. The budget for this project is \$20,000, however the presence of asbestos was not known at the time of budgeting. The Authority staff acknowledges that this is over budget and requests to proceed with the demolition as planned. There are miscellaneous projects within the CY2018 capital plan that will not be completed during this calendar year, which will allow us to complete the demolition without utilizing reserve funds. This plan was presented to and approved by the Technical Advisory Committee (TAC) at the July 27, 2017 meeting.

Motion the EOC to award the project to KLF Enterprises in the amount of \$32,632.00 to be invoiced to Capital Fund 40-580120.

7. Job Order Contracting (JOC) MAU Installation Request
Presented by Matt Streicher – Engineer/Assistant Director

As part of the CY-2017 budgeted Infrastructure Improvement Budget, the Electrical Group has purchased and plans to install a new roof-top mounted make-up air units

(MAU) at the Scum building, replacing the existing unit. The existing units have proven troublesome, maintenance intensive, and are in need of replacement. Additionally, the unit specified will more appropriately address the needs of this structure.

Subsequent to this discussion F. H. Paschen staff developed a detailed Scope of Work and price proposal utilizing the tasks, quantities, and pricing developed in the Naperville JOC. The first revision of the proposal that was received by the Authority came at a proposed cost of \$42,527.53. Including the equipment that has already been purchased (at a cost of \$7,965), the would have put the total project cost at \$50,492.53. The budgeted amount for this project was line item in the budget was \$35,000, which meant it would have been over budget by \$15,439.53

Therefore, the Authority negotiated with the JOC group through several iterations of the proposal, and ultimately in order to reduce project cost, it was decided that in addition to the natural gas and electrical work, the Authority would also be responsible for demolition of the existing HVAC and unit heaters. After further negotiation, the JOC group agreed to lower their proposal to \$30,000, which puts us over budget in the amount of \$2,965.

After further internal discussion, it is recommended that we move forward with this work at this time at the cost of **\$30,000**, as waiting an additional year would add costs due to increased labor costs in future years. The unit heater is already purchased and on-site, and ready for installation.

Motion the EOC to approve waiving competitive bidding per the Village of Glen Ellyn purchasing policy Section C. COMPETATIVE SEALED BIDDING subsection 1d. "Cooperative Purchases" defined as more than one unit of government purchasing goods and services together by competitive bid.

Motion the EOC to award installation of the previously purchased Brucker MAU to F.H. Pashen in the amount of \$30,000 to be invoiced to account # 40-580140.

8. Co-Gen Bus Duct Rehabilitation Project Award
Presented by – Rick Freeman, Electrical Superintendent

On May 24, 2017, at approximately 01:10 hours, we experienced a failure of the bus duct that connects the ComEd Utility to the Co-Gen Facility and the Co-Gen Emergency & CHP Generators to the plant loads. This fault occurred in the vertical outdoor section of the bus duct. The failed bus duct has been bypassed with temporary cabling from Patten Power via Homestead Electric at a cost of ~ \$740/wk. At this point in time, we have an outstanding invoice from Homestead for the installation of the temporary bypass cabling (\$3,787) & estimated cable rental fees (\$9,620 ~ 13 weeks).

Repair/Replacement Options

Due to the cost of repair and to abide by the purchasing policy set forth, proposals have been solicited from four firms. Homestead Electric, Meade Electric, Quad Plus, and Tri-R Electrical Contractors; Tri-R did not provide a proposal.

Repair/replacement options provided by each of the three contractors noted above can be summarized as follows:

Option 1: Replace outdoor bus duct in-kind from first interior junction splice to the exterior transformer junction box.

This option only provided by Homestead, not a viable option we would want to move forward with, but wanted to get an idea of what cost this option would be

Option Cost - \$70,180 (\$61,300 + ~\$8,800 cable rental fees (\$740/wk., 12 weeks) until special order bus duct arrives)

Pros: Lowest cost option

Cons: Bus duct longevity, susceptibility to repeat failure, availability of parts, top entry of outdoor transformer

Option 2: Replace bus duct from first interior junction splice to the exterior transformer junction box with conduit/wire in lieu of outdoor bus duct

Option Cost:

Homestead Electric **\$89,980** (\$81,300 + ~\$7,200 expedited tap box fee, + \$1,480 cable rental fee (\$740/wk., 2 weeks) until special order tap box arrives)

or

\$90,100 (\$81,300 + ~\$8,800 cable rental fees (\$740/wk., 12 weeks) until special order tap box arrives)

Quad Plus **\$103,539** (\$94,739 + ~\$8,800 cable rental fees)
*no lead time, expedited costs provided, assume 12 wk. lead time/cable rental fees

Meade Electric **Did not provide quote for this option**

Pros: Re-uses interior bus duct

Cons: Bus duct longevity, Susceptibility to failure, Availability of parts, Higher cost than Option 3 via Meade Electric

Option 3: Replace the bus duct in its entirety from the Co-Gen Switch gear cabinet to the exterior transformer junction box

Option Cost:

Meade Electric **\$85,585 (cable tray/wire)**

Homestead Electric **\$104,250 (conduit/wire)**

Quad Plus **\$114,925 (conduit/wire)**

Pros: Lowest cost best solution, Longevity, Short lead time, No future special-order parts

Cons: Higher Cost from Homestead & Quad Plus

Based on the proposals received, analysis of the various repair/replacement methods, Authority staff supported by the Technical Advisory Committee recommend to proceed with Option 3 by Meade Electric. Although Option 1 is approximately \$15k less expensive, it leaves us questioning bus duct longevity, susceptibility to repeat failure, availability of custom parts in the future should service be required, top entry of outdoor transformer junction box, etc.

This project was identified in the CY2017 budget as a \$20,000 improvement and as identified to the Technical Advisory Committee, Authority staff will upon approval reprioritize \$50,000 for purchase and installation of electrical meters, and the remaining \$12,000 of the Maintenance Shop Rehabilitation budget to afford this emergency repair. These projects are identified on page 93 of the CY2017 budget.

Motion the EOC to award the Bus Duct Rehabilitation Project to Meade Electric of McCook, IL in the amount of \$85,585 to be invoiced to Capital Account 40-580140.

9. Discussion
 - 9.1 Facilities Improvement Project – General and Earth Retention System Updates
 - 9.2 Biological Phosphorus Removal Project Danish Grant
Summary & Recommendation
 - 9.3 Natural Gas and Electricity Procurement Results

10. Other Business
 - 10.1 Technical Advisory Committee Updates
 - 10.2 Pending Agenda Items
 - 10.3 August Odor Complaints – Low Flows and Process Upsets
 - 10.4 Pretreatment Ordinance Update
 - 10.5 Stormwater Facility Billboard Update

11. ***Next EOC Meeting*** – The next regularly scheduled EOC Meeting is set for ***Thursday, September 14, 2017 at 8:00 a.m. at the Glenbard Facility.***

12. Executive Session – Materials to be Provided Under Separate Cover

Motion the EOC to adjourn to Executive Session for the purposes of discussing probable litigation without returning to open session thereafter.

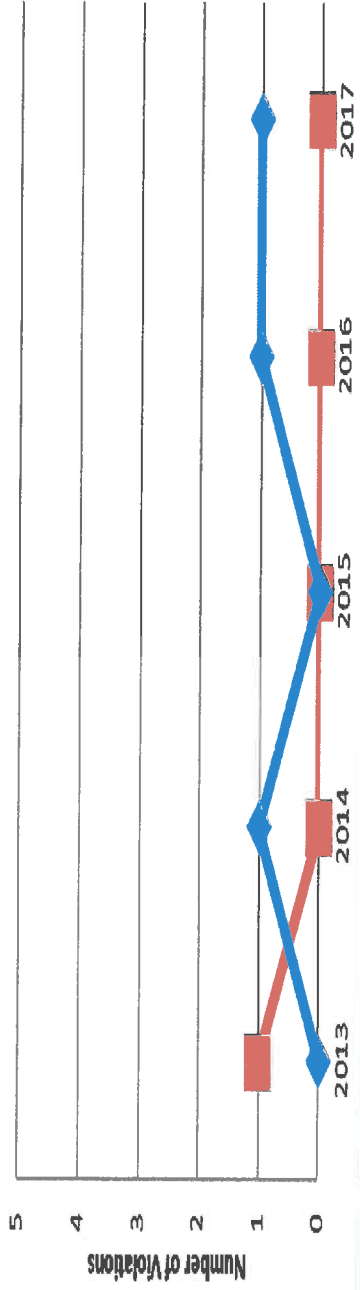


July 2017 Directors Report

Table of Contents

- Process Review
- Key Performance Indicators
- O&M Expense Reporting – Not available this month
- Capital Project Updates
- Environmental Resources Coordinator Report
- Annual Review of O&M Work Orders
- Combined Heat & Power Production & Return On Investment Report

NPDES Permit Violations



■ Glenbard
◆ Stormwater



Glenbard Plant: *Current Record

1639 Days February 4, 2013 through July 31, 2017
 Previous excursion free operating record:
 1058 Days September 8, 2007 – April 10, 2010

Stormwater Facility:

308 Days August 28, 2046 through July 31, 2017
 Current excursion free operating record:
 1140 Days July 11, 2009 through August 27, 2012

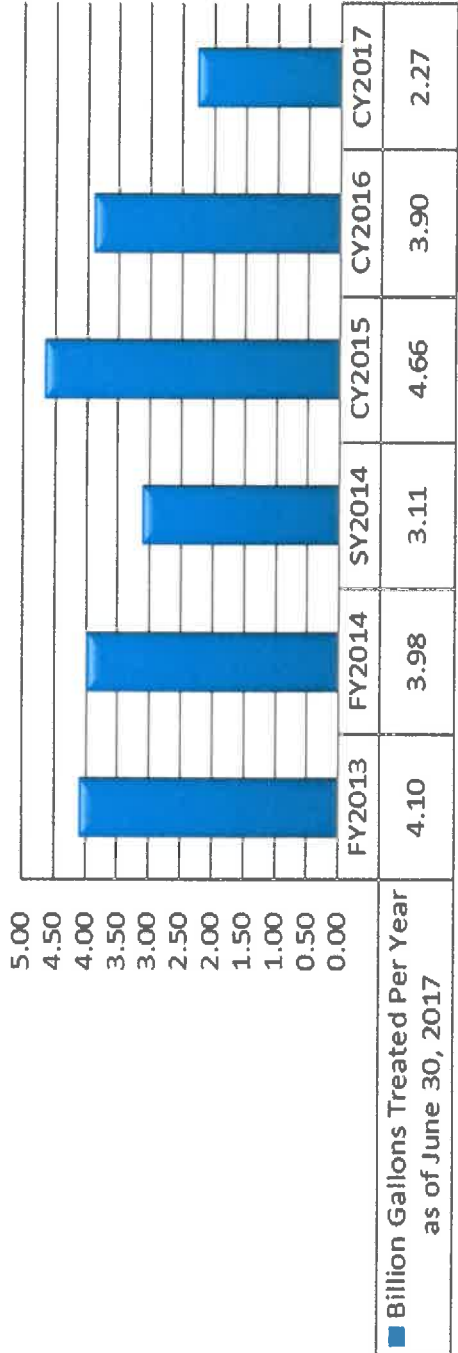
2016/2017 Flow Billing Comparison



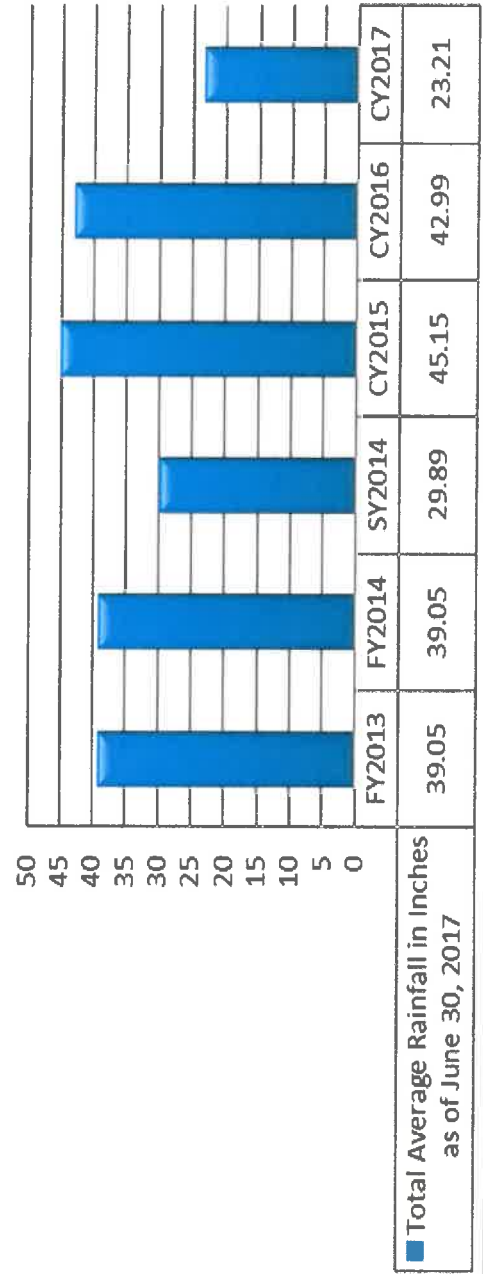
	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Glen Ellyn %	44.16	43.27	43.27	44.01	43.35	45.14	45.80	42.09	43.49	37.31	37.86	40.97	37.23
Lombard %	55.84	56.73	56.73	55.99	56.65	54.86	54.20	57.91	56.51	62.69	62.14	59.03	62.77
Rain Avg	2.69	7.18	5.62	2.22	4.10	2.29	0.96	2.93	1.24	4.31	4.91	5.21	4.61



Billion Gallons Treated Per Year as of June 30, 2017



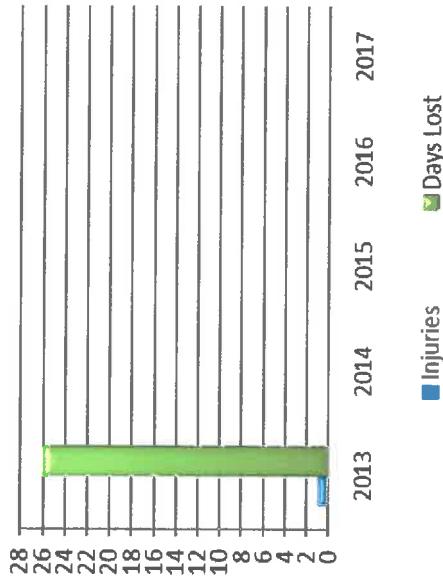
Total Average Rainfall in Inches as of June 30, 2017



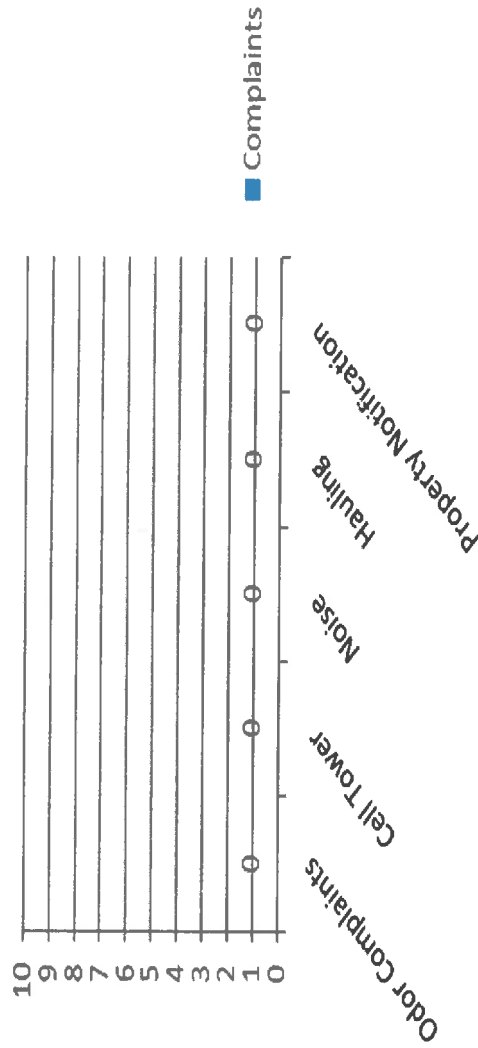


The Authority Key Performance Indicators Regarding Safety and Neighborhood Impacts

Injuries + Lost Time

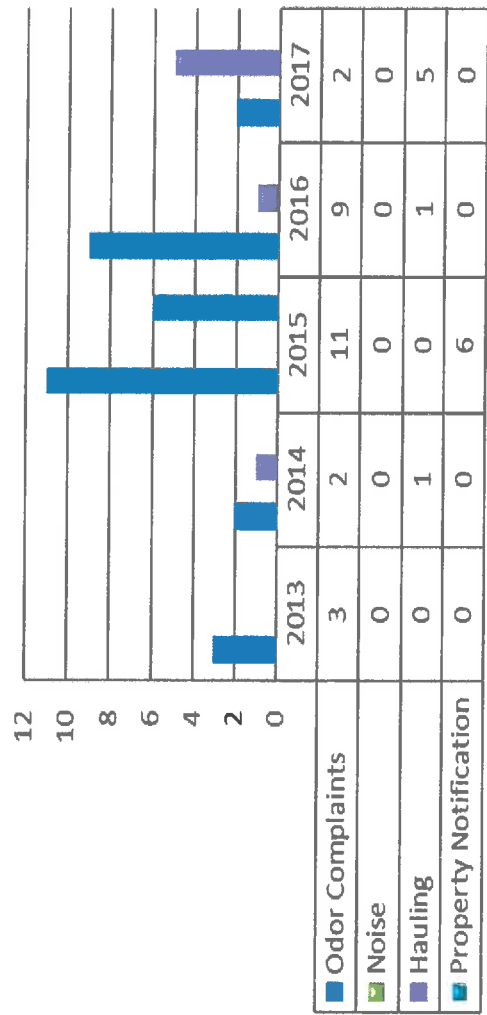


July 2017 Complaints

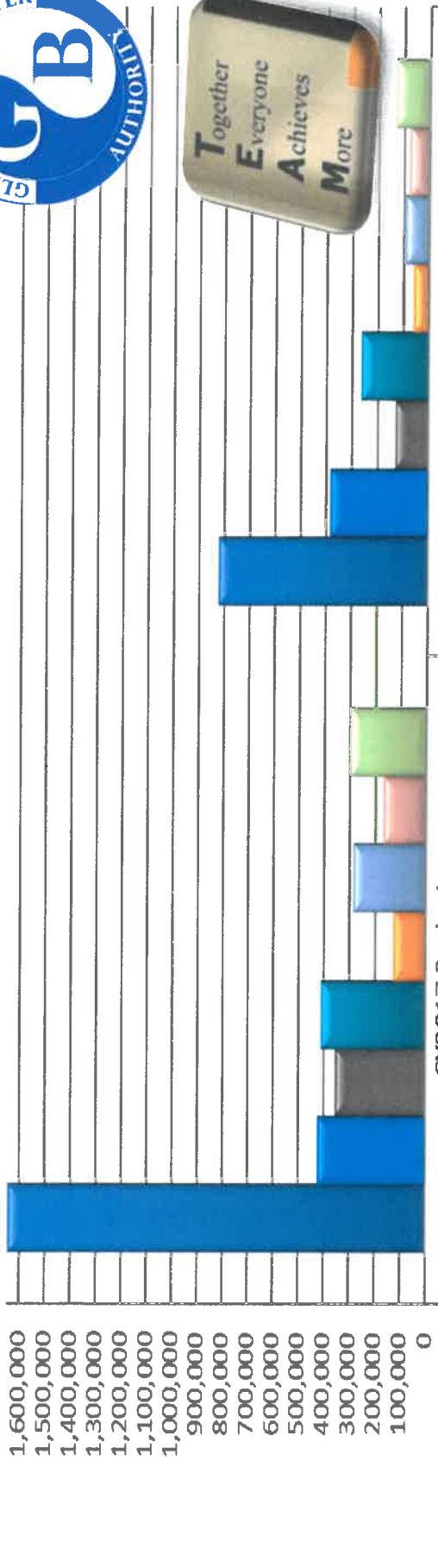


Years	2013	2014	2015	2016	2017
Injuries	1	0	0	0	0
Days Lost	26	0	0	0	0

Annual Complaint Comparison



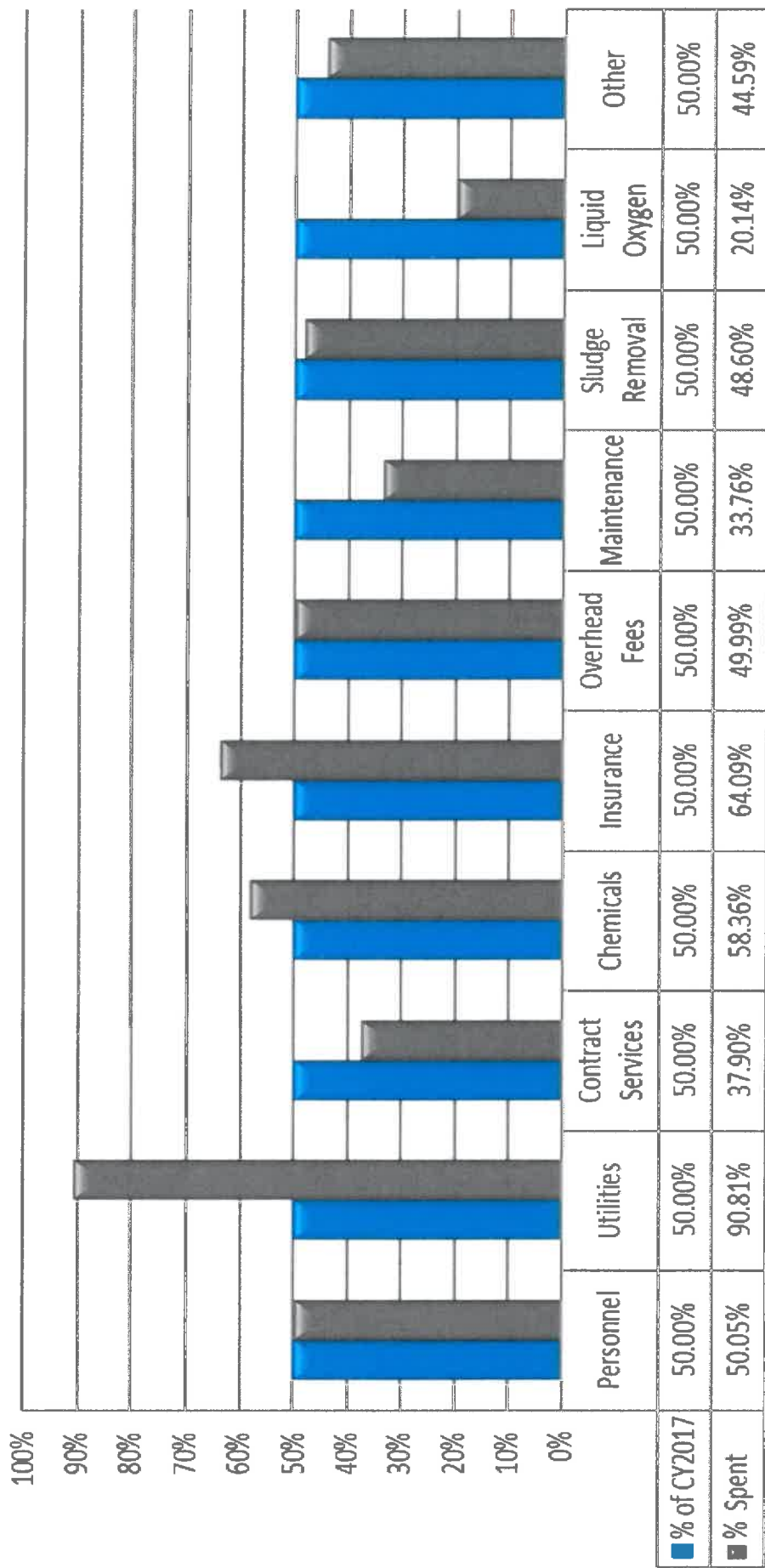
June O&M Expense \$ Reporting



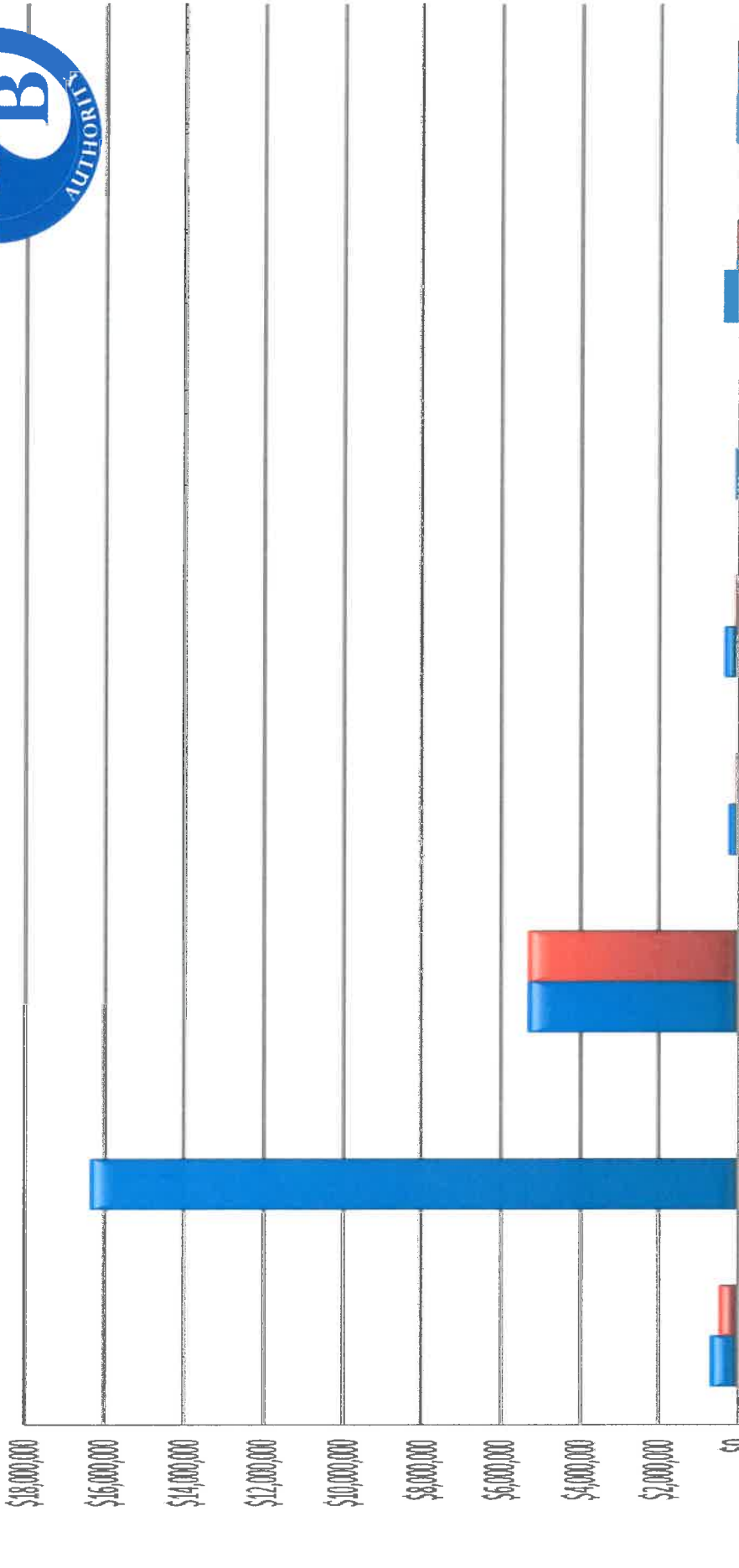
	Personnel	Utilities	Contract Services	Chemicals	Insurance	Overhead Fees	Maintenance	Sludge Removal	Liquid Oxygen	Other
CY2017 Budget	\$1,647,000	\$422,100	\$358,400	\$90,000	\$411,000	\$128,400	\$284,550	\$170,000	\$375,000	\$298,100
Spent Year to Date	\$824,361	\$383,291	\$135,823	\$52,522	\$263,414	\$64,186	\$96,052	\$82,621	\$75,510	\$132,933
% of CY2017	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
% Spent	50.05%	90.81%	37.90%	58.36%	64.09%	49.99%	33.76%	48.60%	20.14%	44.59%



June O&M Expense % Reporting



July 2017 Project Updates



Category	Project Budget Amount	Spent to Date
FIP Construction Engineering	\$706,000	\$482,389
FIP Construction	\$16,333,300	\$0
Combined Heat & Power (CHP)	\$5,289,239	\$5,289,239
Plant Equipment Rehabilitation	\$250,000	\$45,601
Infrastructure	\$355,000	\$85,706
Rolling Stock	\$104,000	\$0
CHP Biogas Storage	\$350,000	\$9,800
Bio P Engineering	\$95,000	\$73,705

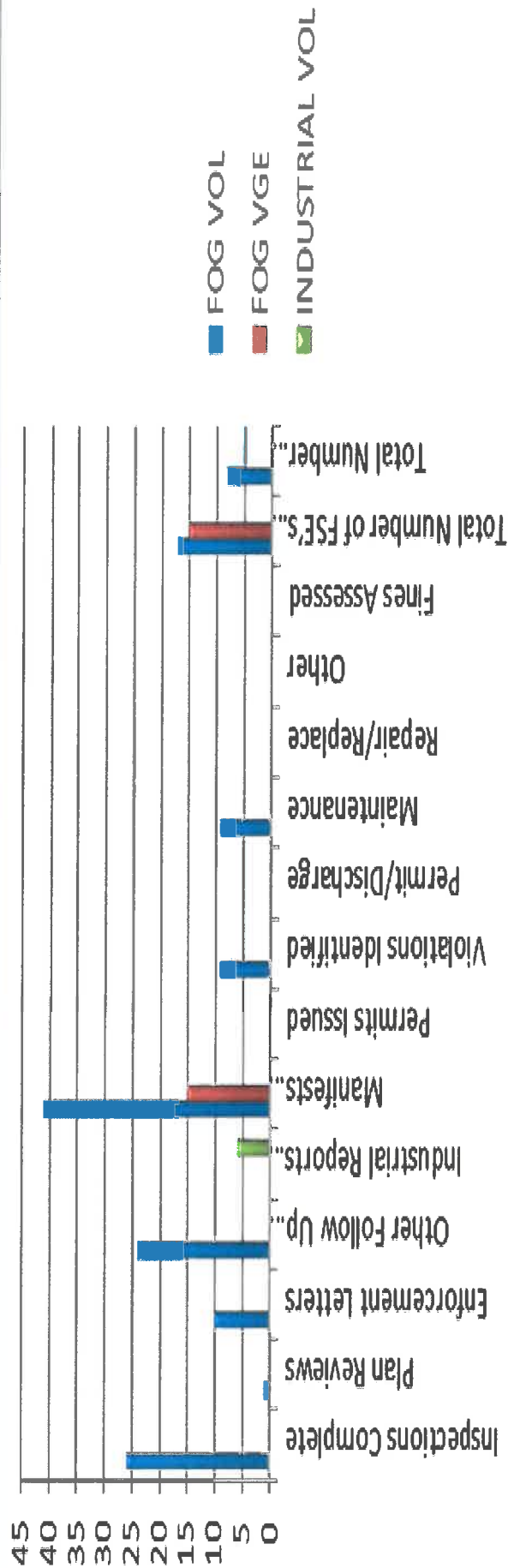
Description	Project Budget Amount	Spent to Date	July Updates
FIP Construction Engineering	\$706,000	\$482,389	See Updated FIP Project Report in the EOC Packet
FIP Construction	\$16,333,300	\$0	See Updated FIP Project Report in the EOC Packet
Combined Heat & Power (CHP)	\$5,289,239		Completed
Plant Equipment Rehabilitation	\$250,000	\$45,601	No Update for July, delivery on the new instrument aircompressor is pending.
Infrastructure	\$355,000	\$85,706	Air Make Up Unit Purchased for Scum Building
Rolling Stock	\$104,000	\$0	No billings for July
CHP Biogas Storage	\$350,000	\$9,800	Biogas Study Completed - Waiting Final Report
Bio P Engineering	\$95,000	\$73,705	Continuous sampling and reporting are being done in order for B&W to continue evaluating Phase II of the WP1.

ENVIRONMENTAL RESOURCE COORDINATOR ACTIONS

Jul-17



	FOG		INDUSTRIAL	
	VOL	VGE	VOL	VOL
Inspections Complete	26	-	-	-
Plan Reviews	1	-	-	-
Enforcement Letters	10	-	-	-
Other Follow Up Actions	24	-	-	-
Industrial Reports Reviewed	-	-	6	-
Manifests Reviewed/Logged	41	15	-	-
Permits Issued	-	-	-	-
Violations Identified	9	-	-	-
Permit/Discharge	-	-	-	-
Maintenance	9	-	-	-
Repair/Replace	-	-	-	-
Other	-	-	-	-
Fines Assessed	\$0	\$0	\$0	\$0
Total Number of FSE's in Major Non-Compliance (Repair/Replace/Install)	17	15	-	-
Total Number Replaced/Repaired	8	-	-	-





Environmental Resources Coordinator Monthly Comments

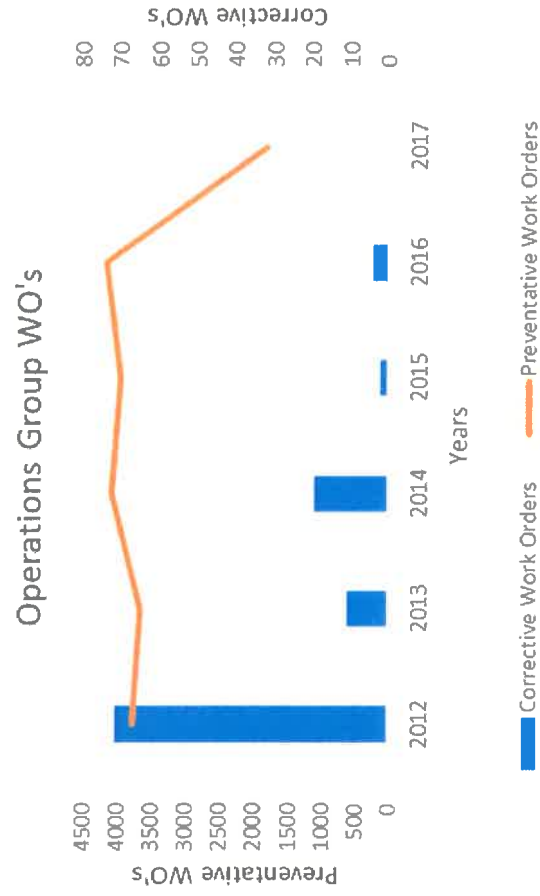
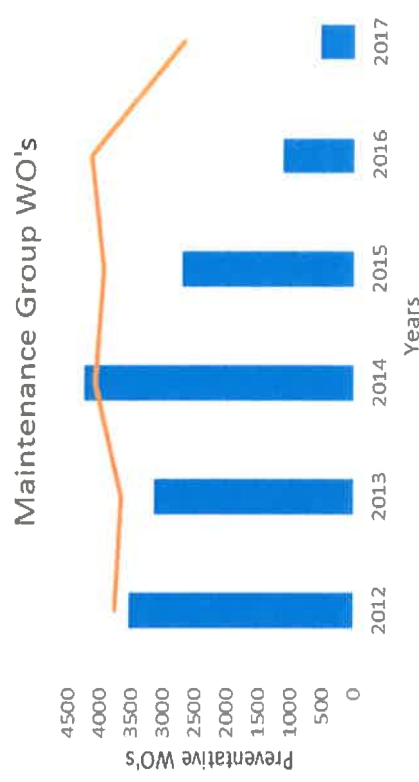
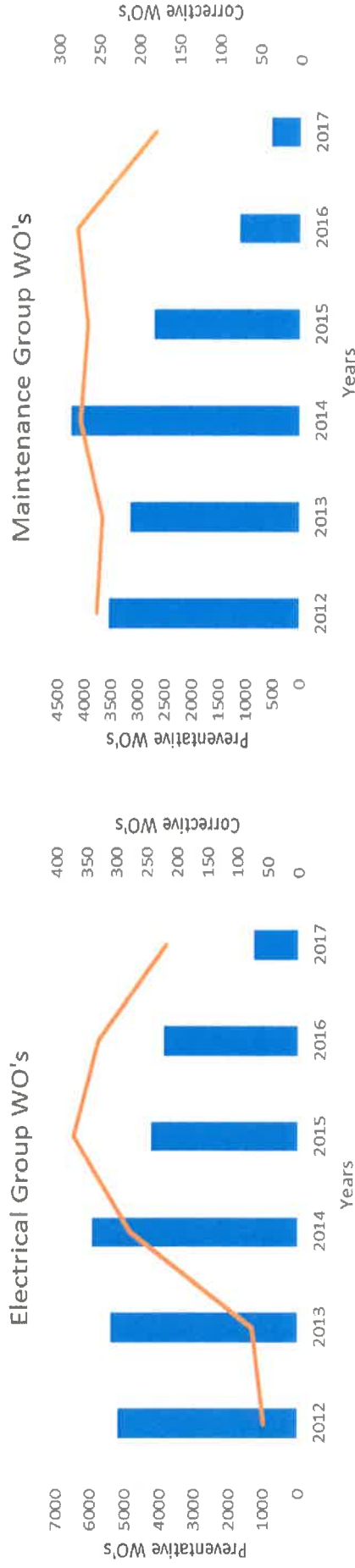
Comments:

- Reviewed all permit applications and certificate of occupancy applications in VOL and all of the business registration applications for VGE to keep data base up to date and for possible future inspections and/or inclusion in the pretreatment program.
- HWS gallons received increased slightly over last month's previous high.
- 144 loads logged and invoiced to 9 separate generators.
- Worked with several new HSW haulers due to Downers Grove being closed for loads.

Sent final letter to Jewel corporate prior to going to code enforcement. Was contacted by area maintenance superintendent. He is gathering bids to replace 4 of 6 broken units at the store on Main St., Lombard. He was puzzled that Jewel received a permit from the Village for other remodel work with no mention of the non-compliance. Contacted VOL BO to discuss how this could be prevented in the future.



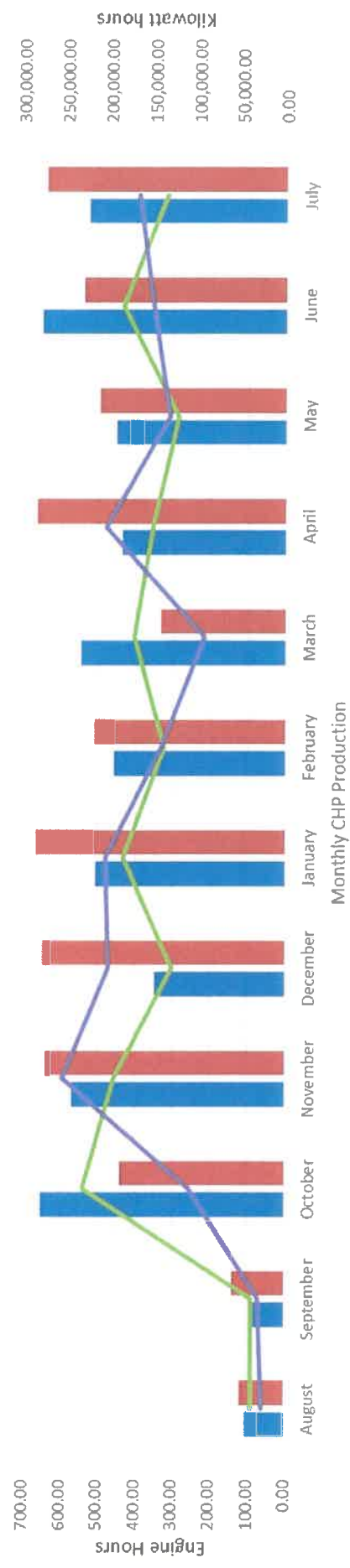
Operations, Maintenance & Electrical Work Order Reporting Over Time





Combined Heat & Power Production Report

Road to Net Zero



Monthly CHP Production 2016/2017 = \$0.09/kWh

	Engine #1 Hrs	Engine #2 Hrs	Engine #1 Avail Hrs	Engine #2 Avail Hrs	Engine #1 kWh	Engine #1 Avail kWh	Engine #2 kWh	Engine #2 Avail kWh	\$ Saved
August	104.10	119.60	192	192	38,227.00	72,000	25,694.00	72,000	\$5,752.89
September	90.48	138.30	720	720	38,460.00	270,000	29,768.00	270,000	\$6,140.52
October	653.00	440.30	744	744	230,634.00	279,000	108,990.00	279,000	\$30,566.16
November	569.80	640.30	720	720	195,917.00	270,000	254,658.00	270,000	\$40,551.75
December	348.60	646.90	744	744	129,018.00	279,000	202,420.00	279,000	\$29,829.42
January	506.40	665.20	744	744	185,340.00	279,000	204,904.00	279,000	\$35,171.96
February	458.50	509.10	672	672	138,399.00	252,000	141,451.00	252,000	\$25,186.50
March	546.50	332.40	744	744	172,800.00	279,000	92,193.00	279,000	\$23,000.37
April	437.50	665.00	720	720	151,942.00	270,000	205,733.00	270,000	\$32,190.75
May	451.20	495.20	744	744	122,860.00	279,000	132,678.00	279,000	\$22,998.42
June	651.50	541.30	720	720	186,945.00	270,000	152,203.00	270,000	\$30,523.32
July	528.50	642.70	744	744	135,797.00	279,000	168,747.00	279,000	\$27,406.26

Return on Investment Monetary Breakdown 2017



Calendar Year 2017	Grant Funding		HSW/FOG		Elec Energy		Additional NG Costs;		Maintenance		Target to	
	DCEO/CECF	Gallons Received	HSW Tipping Fees	Produced @ \$0.09/kWh	Comp Previous Years Month	Costs	Total + or -	meet 8.8 Year	Repayment Schedule	Hit + or Miss -		
January		270,253	\$13,512.65	\$35,121.96	(\$7,458.26)	(\$1,283.15)	\$39,893.20	\$37,283.63	\$37,283.63	2,609.57		
February		319,906	\$15,995.30	\$25,186.50	(\$875.65)	(\$16,353.56)	\$23,952.59	\$37,283.63	\$37,283.63	(13,331.04)		
March		306,330	\$15,316.50	\$23,849.37	(\$2,433.50)	(\$7,015.48)	\$29,716.89	\$37,283.63	\$37,283.63	(7,566.74)		
April		353,953	\$17,697.65	\$32,190.75	(\$3,031.14)	(\$995.00)	\$45,862.26	\$37,283.63	\$37,283.63	8,578.63		
May		471,371	\$23,568.55	\$22,998.42	\$3,542.00	(\$710.44)	\$49,398.53	\$37,283.63	\$37,283.63	12,114.90		
June	\$129,348.00	572,038	\$28,601.90	\$30,523.32	\$0.00	(\$1,444.40)	\$57,680.82	\$37,283.63	\$37,283.63	20,397.19		
July	\$388,042.50	589,748	\$29,487.40	\$27,406.26	\$0.00	(\$19,703.00)	\$37,190.66	\$37,283.63	\$37,283.63	(92.97)		
August				\$0.00			\$0.00	\$37,283.63	\$37,283.63			
September				\$0.00			\$0.00	\$37,283.63	\$37,283.63			
October				\$0.00			\$0.00	\$37,283.63	\$37,283.63			
November				\$0.00			\$0.00	\$37,283.63	\$37,283.63			
December				\$0.00			\$0.00	\$37,283.63	\$37,283.63			
Annual Totals	\$517,390.50	2,883,599	\$144,179.95	\$197,276.58	(\$10,256.55)	(\$47,505.03)	\$283,694.95	\$283,694.95	\$283,694.95			
Repayment Balance												
Annual Payback on Investment	\$3,937,151.18											
Current Return on Investment in Years	\$486,334.20											
	8.1											

Average
\$40,426.42

Average of Jan., Feb., Mar., April, May, June, July

used to calculate future years.

* No Natural Gas Used at CHP Facility During the Month of May, June, July



Return on Investment Monetary Breakdown 2016

	Grant Funding DCEO/ICECF	HSW Tipping Fees	Elec Energy Produced @ \$0.09/kWh	Additional NG Costs; Comp Previous Years	Maintenance Costs	Total + or -	Target to	
							meet 8.8 Year Repayment Schedule	Hit + or Miss
Project Cost including HSW Receiving Station	\$5,278,824.00							
Project Cost including HSW Receiving Station \ with Grant Funding Applied	\$4,838,824.00							
Calendar Year 2015	\$57,000.00							
Calendar Year 2016								
April					(\$2,371.50)	(\$2,371.50)		
May					(\$3,810.73)	(\$3,810.73)		
June					(\$328.46)	(\$328.46)		
July					\$0.00	\$0.00		
August	\$383,000.00	\$0.00	\$5,752.89	(\$2,321.42)	\$0.00	\$3,431.47		
September		0	\$6,140.52	(\$130.78)	(\$3,995.33)	\$2,014.41		
October		\$11,245.00	\$30,566.16	(\$8,440.81)	(\$56.60)	\$33,313.75	\$45,822.20	(\$12,508.45)
November		\$15,528.00	\$40,551.75	(\$7,699.62)	(\$5,624.94)	\$42,755.19	\$45,822.20	(\$3,067.01)
December		\$9,044.70	\$29,829.42	(\$6,415.80)	(\$6,875.08)	\$25,583.24	\$45,822.20	(\$20,238.96)
Annual Totals	\$440,000.00	\$35,817.70	\$112,840.74	(\$25,008.43)	(\$23,062.64)	\$100,587.37		
Repayment Balance	\$4,738,236.63							
Annual Payback on Investment	\$406,608.72							
Current Return on Investment in Years	12							

Average \$33,884

Average of Oct., Nov., Dec. used to calculate future years



Glenbard Wastewater Authority

COMBINED HEAT AND POWER (CHP) IMPROVEMENTS PROJECT – PRELIMINARY OPINION OF PROBABLE COST SUMMARY

(Revised May 7, 2015)

MIDDLE CASE B SCENARIO

SCENARIO EVALUATION

The middle case scenario B represents the most likely case approach where revenue, cost savings and cost avoidance estimations are more realistic than the worst case but less optimistic than the best case. This scenario considers the following:

- Equipment cost conservatively based on less costly manufacturers' (different than Middle Case A),
- Cost avoidance estimations including electrical cost (savings) are conservative,
- The amount of FOG amount and resultant tipping revenues are based on a moderate growth plan,
- Assumes Authority does not receive grants and utilizes capital reserves in lieu.

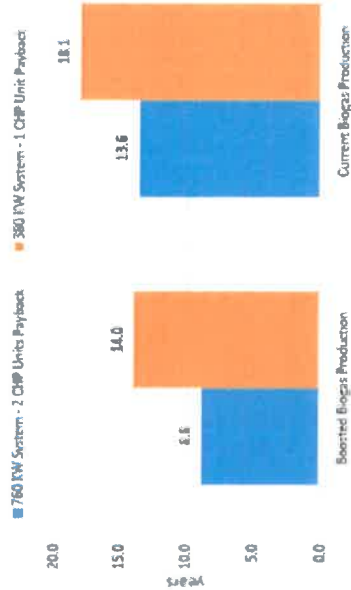
The underlying parameters used for this scenario are presented in Table 1. The case analysis and payback is described in Table 2.

ANALYSIS BACKGROUND

The following information was used to develop the cost analysis for all scenarios:

- Two installation alternatives were studied:
 - Alternative A – 760 KW System (2 CHP Units)
 - Alternative B – 380 KW System (1 CHP Unit)
- Two biogas production scenarios were analyzed:
 - Current Biogas Production (Authority does not accept FOG)
 - Boosted¹ Biogas Production (Authority receives FOG)

**760 KW vs. 380 KW SYSTEMS PAYBACK
At Boosted and Current Biogas production**



**TABLE 1
Parameters Used – Middle Case**

Parameters Used – Middle Case	CURRENT BIOGAS PRODUCTION	BOOSTED BIOGAS PRODUCTION
FOG RECEIVED? Supplemental energy provided by FOG	NO	YES, 50% additional
FOG tipping fee (\$/gallon)	N/A	\$0.05 ³
FOG tipping fee annual inflation	N/A	2%
Sludge Hauling cost (\$/CY)	N/A	\$20.00
ENERGY GRANTS FUNDS OR RESERVE FUNDS?	Reserve Funds	Reserve Funds
ANNUAL ELECTRICAL COST INFLATION	5%	5%
O&M COST ANNUAL INFLATION	4%	4%
COST AVOIDANCE ANNUAL INFLATION	4%	4%
BASE ELECTRICITY RATE (\$/kwh)	\$0.07	\$0.07
BASE NATURAL GAS RATE ⁴ (\$/therm)	\$0.51	\$0.51

**TABLE 2
Cost Analysis – Middle Case A**

	ALTERNATIVE A – 760 KW SYSTEM		ALTERNATIVE B – 380 KW SYSTEM	
	CURRENT BIOGAS PRODUCTION	BOOSTED BIOGAS PRODUCTION	CURRENT BIOGAS PRODUCTION	BOOSTED BIOGAS PRODUCTION
Sub-total Capital Cost ¹	\$3,309,000		\$4,355,000	
Grants/Reserve Funds	\$952,641		\$603,321	
Total Capital Cost	\$4,156,359		\$3,753,679	
Total Annual O&M Costs ⁶	\$293,696	\$292,930	\$158,665	\$163,615
Total Annual Cost Avoidance ³	\$500,497	\$500,497	\$283,755	\$283,755
Revenues of FOG ³	\$0	\$195,262	\$0	\$84,165
Annual Net Savings	\$206,801	\$402,829	\$125,090	\$204,305
Simple Payback ⁸	13.8	8.8	18.1	14.0
Net Savings (Deficit) at year 20	\$3,405,081	\$7,376,259	\$472,918	\$2,570,505

¹ Nissen and Unison is the most cost competitive equipment selection, since the Nissen engine cost is lower than rest of the alternatives. Nissen engines are widely installed in Europe, but have no presence in the US market yet.
² The Authority plans to incorporate FOG to their process. FOG refers to Fat, Oil and Grease. This waste, produced at commercial cooking operations (e.g. restaurants) boosts the biogas production when added to the digesters.
³ The average FOG tipping fee for the Chicagoland area is \$0.05 per gallon.
⁴ In the Middle Case Scenario (A and B), the payback is not sensitive to changes in the natural gas base rate. The payback is sensitive to changes in the electricity cost (a 10% drop in the electricity cost would increase the payback by 2 years).
⁵ Including Construction, Equipment, Instrumentation, Engineering, Electric Fees and Contingency. Construction of FOG receiving facilities are also included.
⁶ Parasitic Electrical Power, Supplemental Natural Gas, Gas Treatment System and CHP system maintenance (15 years maintenance normalized to annual cost) included.
⁷ Includes savings on Natural Gas Usage (Biogas will be more utilized), on Electricity Consumption (CHP will generate electricity) and on Boiler Repairs (the maintenance frequency of the boiler gets reduced if operated thru the CHP).
⁸ The life expectancy of the equipment is 15-20 years.



SECTION 5.0

CONSENT AGENDA

SECTION 5.1

**MINUTES FROM THE
JULY 13, 2017
MEETING**

GLENBARD WASTEWATER AUTHORITY
Executive Oversight Committee
Minutes
July 13, 2017
Meeting held at the Glenbard Wastewater Plant
21 W 551 Bemis Rd, Glen Ellyn, IL

Members Present:

Diane McGinley	President, Village of Glen Ellyn
Keith Giagnorio	President, Village of Lombard
Bill Enright	Trustee, Village of Glen Ellyn
Mike Fugiel	Trustee, Village of Lombard
Mark Franz	Village Manager, Village of Glen Ellyn
Scott Niehaus	Village Manager, Village of Lombard
Julius Hansen	Public Works Director, Village of Glen Ellyn
Carl Goldsmith	Public Works Director, Village of Lombard

Others Present:

Erik Lanphier	Executive Director, GWA
Matthew Streicher	Engineer/Assistant Director, GWA
Rick Freeman	Electrical Superintendent, GWA
David Goodalis	Operations Superintendent, GWA
Jon Braga	Interim Maintenance Superintendent, GWA
Laurie Frieders	Environmental Resources Coordinator, GWA
Christina Coyle	Finance Director, Village of Glen Ellyn
Gayle Lendabarker	Administrative Secretary, GWA

1. Call to Order at 8:00 a.m.
2. Roll Call: President McGinley, President Giagnorio, Trustee Enright, Trustee Fugiel, Mr. Franz, Mr. Niehaus, Mr. Hansen and Mr. Goldsmith answered "Present".
3. Pledge of Allegiance
4. Public Comment
5. Consent Agenda - The following items are considered to be routine by the Executive Oversight Committee and will be approved with a single vote in the form listed below:

Motion the EOC to approve the following items including Payroll and Vouchers for the months of June 2017 totaling \$502,989.78. (Trustee Enright)

Mr. Enright motioned and Mr. Niehaus seconded the *MOTION that the following items on the Consent Agenda be approved with the amendment to item 5.3 Electricity and Natural Gas Procurement as indicated. President McGinley, President Giagnorio, Mr. Enright, Mr. Fugiel, Mr. Franz, Mr. Niehaus, Mr. Goldsmith, and Mr. Hansen responded “Aye” during a roll vote. The motion carried.*

- 5.1 Executive Oversight Committee Meeting Minutes:
 - o June 8, 2017 EOC Meeting
- 5.2 Vouchers previously reviewed by Trustee Enright
 - o June 2017
- 5.3 Electricity and Natural Gas Procurement

Following the success of the EOC approved Natural Gas and Electricity procurement practice utilized in October/November 2014 I am requesting that the Executive Director be provided the ability to secure prices when they appear to be at their lowest point. The selection process as requested is outlined below:

1. Receive quotes from all qualified Electric Energy and Natural Gas suppliers.
2. Identify and confirm the lowest three-year contract prices.
3. Have legal do a review of the contract.
4. The Executive Director will sign the contract documents.
5. Contract Documents and Information about the Electric Energy and Natural Gas supplier presented to the EOC in the consent agenda at the next scheduled EOC meeting.

This process seems to provide the Authority with the best means to acquire the lowest pricing in the most efficient manner.

Mr. Niehaus amended to authorize the Executive Director to enter into agreements at or below \$.035/Kwh for electrical and \$3.25/MBtu for Natural Gas.

- 5.4 Renewable Energy Credits

The Authority is requesting the EOC to retain the services of Blue Delta to evaluate the Authority’s eligibility as a renewable resource within the Applicable Program and evaluate any other GWA assets for Environmental Attribute creation, as well as to perform the necessary services to create, manage and market any environmental attributes generated by the Authority. This opportunity is brought to your attention by virtue of having the Combined Heat and Power facility which utilizes biogas produced from an organic method of wastewater treatment called anaerobic digestion.

Applicable Program means an existing or future domestic or foreign renewable energy standard, program, scheme or organization, adopted or approved by a Governmental Authority, or other similar program with respect to which exists a market, registry, or reporting for Environmental Attributes. An Applicable Program may include, but is not limited to, any state's renewable energy portfolio standard, and National Standard.

Environmental Attributes means any aspects, claims, or avoided emission characteristics associated with the generation of energy from the Authority and any other operations, including but not limited to, Renewable Energy Credits, Greenhouse Gas Reductions, allowances, offsets and benefits associated with the Authority's generation of energy, including any avoided emissions of carbon dioxide, methane, and any other greenhouse gases.

REC or Renewable Energy Credit means any renewable energy certificate, tradable renewable certificate or green tag, howsoever entitled or named, resulting from, attributable to, or associated with the generation of energy by the Authority pursuant to any international, federal, state or local legislation or regulation that is required for such renewable energy credit to be certified under the Applicable Program, associated with one (1) megawatt hour of energy generation from the Authority's Combined Heat and Power facility.

As Blue Delta's sole compensation for performing the Services, the Authority shall pay to Blue Delta a fee equal to twelve percent (12%) of the proceeds actually received from the sale of the Environmental Attributes to a third-party buyer ("Services Fee") net of Transaction Costs. Blue Delta shall collect the gross proceeds actually received from each sale, deduct any Transaction Costs, and retain Blue Delta's Services Fee. Blue Delta will remit the remainder of the proceeds to the Authority within ten (10) business days of receipt of the gross proceeds. The Authority acknowledges that Blue Delta is not required to distribute any amounts not actually collected from any sale of the Environmental Attributes.

Blue Delta is currently providing services to the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) and Rock River Water Reclamation District (Rockford, IL).

The Authority staff requests your approval to proceed with Blue Delta's service as described above and in more detail within the agreement. The agreement has been reviewed by the Authority's attorney Gregory Dose. All comments that were made by Mr. Dose have been included in the agreement for signature.

5.5 Bid Award for Landscape Contract Services for CY2018-2020

The CY2018-CY2020 Landscape Maintenance Services Contract is a Lump-Sum contract billed on a monthly basis during the eight (8) month contract season each year. Below is the bid tabulation sheet for the June 27, 2017 Landscape Maintenance Services bid opening. Nine (9) agencies were sent the RFP. Of these, five (5) responded with proposals ranging from a high of \$145,845 to a low of \$84,095 for annual services. Our previous Landscape Maintenance Service provider chose not to submit a bid.

Company	Bid Amount - Total 3 Year
<i>Twin Oaks Landscaping</i>	<i>\$84,095.00</i>
Complete Landscaping	\$84,600.00
Earth Care	\$103,500.00
Langton Group*	\$143,043.19
HL Landscape	\$145,845.00

*Addendum No. 1 Not Included

Having reviewed the submissions, Authority staff would like to make the following request to the Executive Oversight Committee:

- 1) Award a Three-Year (3) contract to Twin Oaks Landscaping in the total amount of \$84,095 to supply Landscape Maintenance Services as proposed for the Glenbard Plant, Stormwater Plant, and the acquired parcel across from the Glenbard Plant (21W518 Bemis) during this three-year contract term.
- 2) Each year shall equate to a Lump-Sum contract valued at \$27,880 with payments of \$3,485 billed on a monthly basis during the eight (8) month contract season each year.
- 3) Upon approval of the CY2018 Budget, issue Purchase Requisition for the first year of the Glenbard Facility contract period with \$21,200 allocated to O&M Account 270-520971 and \$6,680 allocated to O&M Account 270-1-520970.

References were corresponded with in regards to the low bidder, Twin Oaks Landscaping, all which came back very positive.

Mr. Niehaus noted that GWA does make every effort to maximize economies on services where possible by bidding projects just as landscaping services with both Villages, however in the past, this has proven more expensive for GWA than when they conduct their own bidding process.

6. Siloxane Removal Media Replacement
Presented by – Operations Superintendent, David Goodalis

The Operations Department is requesting approval for an open purchase order for 12,760 pounds of UNI-CL2V Media for use in our four Unison Solutions siloxane removal tanks. The original plan was to run CHP #1 engine on biogas and CHP #2 engine on natural gas for the first year of operation. The reason for the needed media replacement is that the gas conditioning skid gas samples and the engine oil samples are starting to see breakthrough of the corrosive siloxane component. The (Total Base Number) TBN of the oil has decreased and the main justification is the siloxanes exponentially decrease the base life of the oil. This causes us to reduce runtime hours between oil changes to protect the engine from failure as the oil breaks down more quickly. As we continue to utilize biogas as the main fuel source for the CHP engines there is likely to be another media change prior to the end of CY2017. The initial purchase of 6380 pounds of media is required, the secondary purchase will only be utilized out of necessity. This expenditure will be accounted for in the CHP Return on Investment (ROI) located in the Directors Report at the front of the EOC packet.

This is not a budgeted replacement item as the Authority was not anticipating this kind of progress in such a short amount of time. I would like to add that based off our HSW/FOG receipts to date we are anticipating to exceed the budget projection by \$129,000. However, as an offset to the unbudgeted media replacement request the painting of the North and South Clarifier Bridges, budgeted at \$60,000 (Page 94 of the CY2017 budget), will be deferred until CY2018.

Motion the EOC to waive competitive bidding under Section C.1.f of the Village of Glen Ellyn's Purchasing Policy, which states; "Standardization Purchases, as defined as technical in nature of certain items or services may result in the standardization of a particular supplier's specifications being necessary or desirable to Village operations. Competitive bidding may be waived if the Village requires compatibility with existing software, machinery or other existing equipment."

Motion the EOC to Approve a purchase order for the replacement media from Unison Solutions for a not to exceed amount of \$45,000 to be invoiced to Capital Account Fund 40-580150

Mr. Goldsmith asked If Mr. Lanphier knew what the future costs on the siloxane media will be. Mr. Lanphier advised that the information is currently not available, as GWA staff is trying to locate a direct supplier instead of having to purchase the product through Unison.

Mr. Goldsmith inquired about to when the clarifier painting that is being delayed to cover the costs will be planned. Mr. Lanphier advised that as the Bio-Phosphorus

project there is work to be done on the clarifiers; therefore, staff does not feel expending capital funds for painting at this time is wise.

Mr. Goldsmith asked if there was a budget number in place for future siloxane purchases. Mr. Lanphier advised that in the future purchases will be from the operations and maintenance fund.

Mr. Goldsmith motioned and Mr. Franz seconded the MOTION to waive competitive bidding under Section C.1.f of the Village of Glen Ellyn's Purchasing Policy, which states; "Standardization Purchases, as defined as technical in nature of certain items or services may result in the standardization of a particular supplier's specifications being necessary or desirable to Village operations. Competitive bidding may be waived if the Village requires compatibility with existing software, machinery or other existing equipment."

Motion the EOC to Approve a purchase order for the replacement media from Unison Solutions for a not to exceed amount of \$45,000 to be invoiced to Capital Account Fund 40-580150. President McGinley, President Giagnorio, Mr. Enright, Mr. Fugiel, Mr. Franz, Mr. Niehaus, Mr. Goldsmith, and Mr. Hansen responded "Aye" during a roll vote. The motion carried.

7. Facility Improvements Project (FIP) Request for Change Order No. 2
Presented by – Assistant Executive Director/Civil Engineer, Matt Streicher

The Technical Advisory Committee (TAC) reviewed the documents at a meeting held June 30, 2017 and recommends approval of the proposed Facility Improvements Project Change Order No. 002 as a credit in the amount of \$182,726.34 being presented to the EOC. This change order is a request in which the majority of the equipment substantially affects the critical path of the project as identified in comments below.

The FIP project change order request is addressing a multitude of issues relative to different aspects of the project. The following is the list of items being addressed within this change order.

* Filter Building Louver Credit -	\$ 1,568.00
* Reclaimed Water System Credit -	\$193,030.20
* Electrical Feed Sump Pump -	\$ 0.00
* 42" Pipe Saddle Support -	\$ 3,671.45
* Inf. Channel Blind Flanges Credit-	\$ 9,517.00
* Transformer Primary Fused -	\$ 22,574.34
* MCC-L Sequencing -	\$ 7,427.22
* Painting Credit -	\$ 12,283.95
Total (CREDIT)-	\$182,726.34

Descriptions of the requested changes can be found in the supporting memo. Additional information pertaining to changes to the contract that would have added cost have also been described. It is the staff's intention to keep the changes minimized to incorporate only critically important changes. Changes that may demonstrate long term O&M benefits with larger up-front cost have been waived due to the criticality of the pending Earth Retention System change.

Motion the EOC to Approve Change Order No. 002 to the Facility Improvements Project contract as a credit in the amount of \$182,726.34

Mr. Niehaus motioned and Mr. Giagnorio seconded the MOTION to approve Change Order No. 002 to the Facility Improvements Project contract as a credit in the amount of \$182,726.34. President McGinley, President Giagnorio, Mr. Enright, Mr. Fugiel, Mr. Franz, Mr. Niehaus, Mr. Hansen and Mr. Goldsmith responded "Aye" during a roll vote. The motion carried.

Mr. Streicher highlighted the changes and provided some background on what some of the credits were for; additionally, he advised that they will be more changes that are currently being finalized for EOC Committee approval and presented at future meetings.

8. Discussion

8.1 Facilities Improvement Project – General and Earth Retention System Updates

Mr. Streicher provided an update of the progress of the FIP project with a large part of the work being done in the sand filter building with demo and preparation of the existing wells for the new equipment; additionally, the launder covers were added to the clarifiers which will help prevent the growth of algae which can damage the new disc filters.

Mr. Franz asked when the new filters will go online and the other side of the building can be demolished and prepared for the new equipment. Mr. Streicher indicated that this tentatively scheduled for September.

Mr. Franz asked what happens with the sand filter process since the capacity is reduced and there is a high rain event. Mr. Lanphier advised that bypass pumping has employed for some time, which is why the filters are being upgraded; therefore, bypass pumping is happening more frequently.

Mr. Lanphier advised that a consultant has been contracted with to provided additional expertise for the earth retention system and insure that GWA is securing the best possible system to move the project on. Mr. Niehaus recommended reaching an agreement much like union negotiations when it comes to negotiate with Boller on revising the contract amount for the project.

9. Other Business

9.1 Technical Advisory Committee Updates

Mr. Niehaus asked for a status on the demolition of the Hinds property. Mr. Lanphier advised that due to an error by the apparently lowest bidder who did not include the additional costs associated with the asbestos removal. Mr. Lanphier advised that the goal is to have something on the next agenda for approval.

Mr. Goldsmith asked if the intent was to award the contract and then also approve a change order. Mr. Lanphier indicated that there is evaluation of the situation by Legal counsel.

9.2 Pending Agenda Items

Mr. Franz asked Mr. Goldsmith to provide a status on the land swap between the Villages and the Forest Preserve. However, the Forest Preserve is no longer interested in pursuing a land swap and is looking for an outright sale of the lagoon property at fair market value or approximately \$32,000 per acre if the property is clean, which the lagoon property is not and therefore, feels that the overall purchase price could be in the vicinity of \$100,000. Mr. Goldsmith indicated he will keep the EOC Committee advised as information is forthcoming from the Forest Preserve.

Mr. Franz inquired about the status of the Village of Lombard review of FOG ordinance. Mr. Goldsmith advised that he felt it could be to Village of Glen Ellyn staff within the next thirty days or so.

10. ***Next EOC Meeting*** – The next regularly scheduled EOC Meeting is set for ***Thursday, August 10, 2017 at 8:00 a.m. at the Glenbard Facility.***

Mr. Franz moved to adjourn the July 13, 2017 EOC Meeting and Mr. Fugiel seconded the MOTION. The members responded unanimously to a verbal call of “Aye”. The motion carried. The meeting adjourned at 8:45 a.m.

Submitted by:

Gayle A. Lendabarker
GWA Administrative Secretary

SECTION 5.2

VOUCHERS

JULY 2017

WARRANT: 0717-1

TO FISCAL 2017/07 01/01/2017 TO 12/31/2017

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	YTD PAID	YTD PAID

VENDOR TOTALS			1,050.46						1,050.46	210.10
74 DRBISILKER ELECTRIC MOTORS INC										
17450	07/11/17			956632	P	07/20/17	270	MAINTENANCE-ELECTRONICS	520980	71.68
INVOICE: I054446										
17451	07/11/17			956632	P	07/20/17	270	MAINTENANCE-ELECTRONICS	520980	71.68
INVOICE: I054411										
VENDOR TOTALS			1,017.62						1,017.62	143.36
1137 DYNEGY ENERGY SERVICES, LLC										
17452	07/11/17			956633	P	07/20/17	270	ELECTRIC POWER	521201	26,449.00
INVOICE: I38583017071										
17453	07/12/17			956633	P	07/20/17	270-3	ELECTRIC POWER	521201	1,562.85
INVOICE: I38582717071										
17454	06/30/17			956633	P	07/20/17	270-2	ELECTRIC POWER	521201	22.98
INVOICE: I38583117071										
17455	07/10/17			956633	P	07/20/17	270-1	ELECTRIC POWER	521201	33.05
INVOICE: I38583317071										
VENDOR TOTALS			300,797.83						300,797.83	28,067.88
1193 EVERGREEN LAWN CARE, INC.										
17456	06/30/17			956634	P	07/20/17	270	BUILDING & GROUNDS CONTRA	520971	240.00
INVOICE: I3741										
VENDOR TOTALS			660.00						660.00	240.00
293 VILLAGE OF GLEN ELLYN										
17502	07/01/17			956635	P	07/20/17	270	WATER	521203	7.39
INVOICE: I7502										
17503	07/01/17			956635	P	07/20/17	270	WATER	521203	8,021.84
INVOICE: I7503										
VENDOR TOTALS			137,921.02						137,921.02	8,029.23
1072 GOLDSTINE, SKRODZKI, RUSSIAN, NEMEC AND HOFF LTD.										
17457	07/07/17			956636	P	07/20/17	270	LEGAL-GENERAL COUNSEL	520700	700.00
INVOICE: I36418										
17458	07/07/17			956636	P	07/20/17	40	FACILITY IMPROVEMENT PLAN	580180	469.20
INVOICE: I36417										
VENDOR TOTALS			27,149.05						27,149.05	1,169.20
297 W.W. GRAINGER, INC.										
17459	07/07/17			956637	P	07/20/17	270	MAINTENANCE-ELECTRONICS	520980	135.36
INVOICE: I9493512223										
17460	07/05/17			956637	P	07/20/17	270	MAINTENANCE-ELECTRONICS	520980	353.81
INVOICE: I9490735041										
17461	07/12/17			956637	P	07/20/17	270	MAINTENANCE-ELECTRONICS	520980	139.96

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PAID WARRANT REPORT

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WARRANT: 0717-1

TO FISCAL 2017/07 01/01/2017 TO 12/31/2017

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	YTD PAID	YTD INVOICED
VENDOR TOTALS			560.00						560.00	560.00
1226 RC CLEANING COMPANY 17484 INVOICE: 17484	07/07/17			956651	P	07/20/17	270	BUILDING & GROUNDS CONTRA	520971	1,020.00
VENDOR TOTALS			4,080.00						4,080.00	1,020.00
412 NESTLE WATERS NORTH AMERICA 17482 INVOICE: 17G8100616302	07/04/17			956652	P	07/20/17	270	OFFICE EXPENSES	530100	111.83
VENDOR TOTALS			761.09						761.09	111.83
1050 REPUBLIC SERVICES, INC 17485 INVOICE: 551-013585602	06/30/17			956653	P	07/20/17	270	OPERATIONS - CONTRACTUAL	520991	393.80
VENDOR TOTALS			4,067.66						4,067.66	393.80
1212 RJN GROUP, INC 17483 INVOICE: 305006	07/06/17		20170002	956654	P	07/20/17	270	ELECTRONICS CONTRACTUAL	520981	9,649.00
VENDOR TOTALS			57,894.00						57,894.00	9,649.00
1055 SMG SECURITY SYSTEMS, INC. 17489 INVOICE: 317255	06/29/17			956655	P	07/20/17	270	TELECOMMUNICATIONS	521195	200.85
VENDOR TOTALS			602.55						602.55	200.85
939 STAPLES CONTRACT & COMMERCIAL INC. 17490 INVOICE: 3345126030	06/28/17			956656	P	07/20/17	270	OFFICE EXPENSES	530100	68.07
VENDOR TOTALS			2,100.91						2,100.91	68.07
757 STEWART SPREADING, INC. 17491 INVOICE: 11722	07/10/17			956657	P	07/20/17	270	SLUDGE DISPOSAL - LAND	521150	18,623.22
VENDOR TOTALS			101,243.90						101,243.90	18,623.22
738 SUBURBAN LABORATORIES, INC. 17493 INVOICE: 146052	06/30/17			956658	P	07/20/17	270	PROFESSIONAL SERVICES-LAB	520806	2,210.84
VENDOR TOTALS			17,332.68						17,332.68	2,210.84

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WARRANT: 0717-1

TO FISCAL 2017/07 01/01/2017 TO 12/31/2017

VENDOR NAME DOCUMENT	INV DATE VOUCHER PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
271 TERRACE SUPPLY COMPANY 17495 06/30/17 INVOICE: 977704	790.25 YTD INVOICED	956659	P	07/20/17	270 520976	MAINTENANCE-CONTRACTUAL	47.40
VENDOR TOTALS	790.25 YTD PAID						47.40
1238 LONG ISLAND PRODUCTIONS INC. 17496 07/11/17 INVOICE: IN-13748	1,595.00 YTD INVOICED	956660	P	07/20/17	270 530225	SAFETY RELATED EQUIPMNT/S	1,595.00
VENDOR TOTALS	1,595.00 YTD PAID						1,595.00
1232 TRENCH PLATE RENTAL CO. 17497 06/30/17 INVOICE: 32-01689-17	1,020.00 YTD INVOICED	956661	P	07/20/17	270 520971	BUILDING & GROUNDS CONTRA	610.00
VENDOR TOTALS	1,020.00 YTD PAID						610.00
940 KEYSTONE MANAGEMENT, INC 17494 07/08/17 INVOICE: 28910438	338.64 YTD INVOICED	956662	P	07/20/17	270 521195	TELECOMMUNICATIONS	112.88
VENDOR TOTALS	338.64 YTD PAID						112.88
477 UNITED PARCEL SERVICE, INC 17501 07/01/17 INVOICE: 9YF103267-1	94.15 YTD INVOICED	956663	P	07/20/17	270 520975	MAINTENANCE-EQUIPMENT	15.15
VENDOR TOTALS	94.15 YTD PAID						15.15
988 VERIZON WIRELESS SERVICES LLC 17498 07/01/17 INVOICE: 9788487650	4,944.00 YTD INVOICED	956664	P	07/20/17	270 521195	TELECOMMUNICATIONS	224.69
VENDOR TOTALS	4,944.00 YTD PAID						224.69
630 WATER PRODUCTS OF AURORA 17507 07/05/17 INVOICE: 274205	72.00 YTD INVOICED	956665	P	07/20/17	270 520975	MAINTENANCE-EQUIPMENT	72.00
VENDOR TOTALS	72.00 YTD PAID						72.00
865 WESTERN DUPAGE SERVICES, INC 17504 07/01/17 INVOICE: 717056 17506 07/01/17 INVOICE: 717073	9,960.00 YTD INVOICED	956666	P	07/20/17	270 520971	BUILDING & GROUNDS CONTRA	1,675.00
VENDOR TOTALS	9,960.00 YTD PAID						815.00
							2,490.00
							417,361.11

REPORT TOTALS

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PAID WARRANT REPORT

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WARRANT: 0717-2

TO FISCAL 2017/07 01/01/2017 TO 12/31/2017

VENDOR NAME DOCUMENT INV DATE VOUCHER PO CHECK NO T CHK DATE GL ACCOUNT GL ACCOUNT DESCRIPTION

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	42	98,860.47
TOTAL WIRE TRANSFERS	1	318,500.64

WARRANT: 0717-2

TO FISCAL 2017/07 01/01/2017 TO 12/31/2017

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	YTD PAID	YTD INVOICED	YTD PAID	YTD INVOICED
293 VILLAGE OF GLEN ELLYN 1013145 INVOICE: IFT-153 1013145 INVOICE: IFT-153	07/21/17			2205	W	07/28/17	270	OVERHEAD FEES	521130	521130	10,697.67	
VENDOR TOTALS									137,921.02	137,921.02	13,856.00	
297 W.W. GRAINGER, INC. 17541 INVOICE: 9505772690	07/20/17			956675	P	07/28/17	270	MAINTENANCE-ELECTRONICS	520980	520980	8.96	
VENDOR TOTALS									7,870.02	7,870.02	8.96	
126 ILLINOIS ASSN. OF WASTEWATER AGENCIES 17542 INVOICE: 4099	07/20/17			956676	P	07/28/17	270	EMPLOYEE EDUCATION	520620	520620	50.00	
VENDOR TOTALS									404.00	404.00	50.00	
1189 LEAHY-WOLF COMPANY 17543 INVOICE: 362169	07/18/17			956677	P	07/28/17	270	MAINTENANCE-EQUIPMENT	520975	520975	995.00	
VENDOR TOTALS									4,975.00	4,975.00	995.00	
171 MCMMASTER-CARR SUPPLY CO. 17544 INVOICE: 38997072 17545 INVOICE: 38847923 17546 INVOICE: 32709259 17547 INVOICE: 32570163 17548 INVOICE: 39296160	07/12/17			956678	P	07/28/17	270	MAINTENANCE-EQUIPMENT	520975	520975	66.52	
VENDOR TOTALS									8,810.81	8,810.81	607.41	
194 NAPCO STEEL, INC. 17549 INVOICE: 408897	07/19/17			956679	P	07/28/17	270	MAINTENANCE-EQUIPMENT	520975	520975	1,520.00	
VENDOR TOTALS									1,778.00	1,778.00	1,520.00	
224 POLYDYNE INC 17551 INVOICE: 1154993	07/13/17			956680	P	07/28/17	270	CHEMICALS	530440	530440	6,872.40	

08/03/2017 10:50
maryr

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PAID WARRANT REPORT

P 12
appdwarr

WARRANT: 0717-2

TO FISCAL 2017/07 01/01/2017 TO 12/31/2017

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION
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VENDOR TOTALS			4,944.00	YTD INVOICED			4,944.00	YTD PAID	711.26
300 WATER ENVIRONMENT FEDERATION									
17564	07/24/17			956687	P	07/28/17	270	520600	DUES-SUBSCRIPTIONS-REG FE
INVOICE: 17564									130.00
17565	07/24/17			956687	P	07/28/17	270	520600	DUES-SUBSCRIPTIONS-REG FE
INVOICE: 17565									165.00
17566	07/24/17			956687	P	07/28/17	270	520600	DUES-SUBSCRIPTIONS-REG FE
INVOICE: 17566									100.00

VENDOR TOTALS			1,340.00	YTD INVOICED			1,340.00	YTD PAID	395.00
REPORT TOTALS									1,710,180.75

COUNT	AMOUNT
21	39,666.76
9	1,670,513.99

** END OF REPORT - Generated by Mary Romanelli **

SECTION 5.3

HSW/FOG RECEIVING STATION IMPROVEMENTS

MEMORANDUM

TO: Executive Oversight Committee

FROM: Matt Streicher P.E., Engineer/Assistant Director
Through – Erik Lanphier, Executive Director

DATE: August 10, 2017

RE: Request for Authorization
Proposal for High Strength Waste Receiving Station Modifications



The Authority recently installed a new CHP facility at the WWTP that utilizes digester gas to produce electrical energy and heat for plant operations. Along with the CHP facility, a High Strength Waste (HSW = FOG) receiving station was installed in order to co-digest those wastes in our digesters, which in turn boosts biogas production that fuels the CHP's. Since putting the HSW station online, our Environmental Services Coordinator has been working hard to bring high strength waste haulers to us in order to provide the best fuel stocks for co-digestion. The volume of high strength wastes we receive has grown significantly, which has enabled us to run both CHP's at full speed almost constantly, and has helped significantly reduce the return on investment on the CHP and HSW receiving facilities. However, we did not anticipate receiving such volumes of HSW this early on, and therefore we are restricted in our operation due to current pumping schemes. Currently we do not have the ability to transfer between the receiving tank and the holding tank and transfer between the holding tank and the digesters simultaneously. Therefore, our storage tank is filling too quickly, and it has limited our operation. Also, we have only been able to feed the digester over night when we're not receiving HSW loads, which is not suitable for the digester and has caused it to become upset. It is not recommended to load the digesters with HSW all at once, the best practice is to feed HSW in small batches over a 24-hour period. This minimizes disruption of the digestion process and evens out gas production. With the existing piping/pumping scheme, we are being forced to only load the digester over a 12-hour period at night.

In order to resolve this issue at a minimal cost, the Authority devised simple piping modifications, and proposes to re-use an existing pump in storage. The existing pump was previously used to pump primary sludge, however it was replaced prior to the end of its useful life, and is therefore a viable option. Authority staff contacted the pump manufacturer to ensure the pump is still useful, and is appropriate for this application. After initial research proved it to be a viable plan, we requested quotes from two different mechanical contractors to complete the work; Dahme Mechanical Industries (DMI - contractor who built original receiving station) and Independent Mechanical Industries (IMI - mechanical contractor for FIP project).

The work will consist of the contractor furnishing and installing new CPVC pipe and fittings, reducers and associated parts to connect to our existing pump, a sampling port for in house staff to obtain samples from, and all stainless fasteners and hardware. The Authority is providing the pipe supports, the pump, associated valves, and all electrical work.

It is recommended that DMI be utilized for this project in order to avoid voiding the current warranty. DMI performed the installation on the original HSW receiving station, which is still under warranty as part of the 5-year overall warranty on the CHP project. We request that the requirement of obtaining 3 quotes be waived, as we feel that the voiding of a 5-year warranty is proper justification. The price obtained from IMI is being used to provide a reference to ensure we are within an appropriate cost range for the work to be completed.

It recommended that this project, if approved, be invoiced to Small Capital Fund 40 (40-580180 14007). This project was not budgeted in the Small Capital Fund, but due to its importance in completing sooner than later, it will replace other projects we are no longer completing this budget cycle.

Based on qualifications and price, I recommend authorizing **Dahme Mechanical Industries** to proceed with the High Strength Waste Receiving Station Modifications in the amount not to exceed **\$19,000.00**.

Please advise and thank you.

SECTION 5.4

UTILITY VEHICLES BUDGETED PURCHASE REQUEST

MEMORANDUM

TO: Executive Oversight Committee

FROM: Jon Braga, Maintenance Superintendent
Through – Erik Lanphier, Executive Director

DATE: August 9, 2017

RE: Utility Vehicles Purchase Request Per the CY2017 Budgeted
Vehicle Replacement Schedule



The Authority has budgeted \$46,000 for the replacement of the two (2) utility vehicles, Unit 634 and 640. Attached to this memo are the NJPA Quotes for the purchase of two (2) Polaris Gem electric utility vehicles. The Authority Staff requests the EOC to approve waiving competitive bidding per the Village of Glen Ellyn purchasing policy *Section C. COMPETATIVE SEALED BIDDING subsection 1d. "Cooperative Purchases" defined as more than one unit of government purchasing goods and services together by competitive bid.*

National Joint Powers Alliance (NJPA) is cooperative contract purchasing leveraging the national purchasing power of more than 50,000-member agencies while also streamlining the required purchasing process. As a municipal national contracting agency, NJPA establishes and provides nationally leveraged and competitively solicited purchasing contracts under the guidance of the Uniform Municipal Contracting Law. Joint Powers laws enable members to legally purchase through awarded contracts.

Polaris Sales, Inc. is providing utility vehicles directly through NJPA contract # 090512-PSI. Randall Industries is the local representing dealership for Polaris.

GWA team members tested and inspected all aspects of the GEM utility vehicle and found it to be satisfactory with the needs of everyday tasks. The GEM provides emission free operation with a sealed maintenance free battery.

The Authority staff is requesting your authorization to provide Randall Industries with a notice to proceed in the amount of **\$29,363.00** billed to **40-570155 Vehicles and Equipment Replacement**.

The Authority Staff would also like to request for vehicles #634 & 640 be approved for future sale by means of public auction as directed by the Village of Glen Ellyn.



NJPA GEM Vehicle Quote Form



GENERAL INFORMATION

Customer Name Glenbard Wastewater Authority	Date 8/10/17
Customer Contact John Braga	
Customer Phone # 630-918-4416	Polaris Rep Mark Danley
Address 21W551 Bemis Rd	Phone 952-388-3536
City Glen Ellyn	Email mark.danley@polaris.com
State IL	
Zip 60137	Instructions
NJPA Member ID# 41636	
Dealer Name Randall Industries	
Dealer Number 2168900	
Dealer Contact Ed Forsythe	
Dealer Phone Number (630) 835-8617	

VEHICLE CONFIGURATION

	Model Name	S Number Input		
	2018 GEM eM1400	1232111111111111		
	Category	Factory Option	MSRP Pricing	NJPA Pricing
	Model Number	L17U2NAEFA	\$ 9,999	\$ 9,762
	Compliance	eM1400 Standard Destinations	\$ -	\$ -
	Bed Accessory	eM Flat Bed w/Side Panels	\$ 410	\$ 372
	Bed Lift	eM Electric Box Lift Option (not for use with MaxBox)	\$ 450	\$ 408
	Batteries	eM Sealed Battery Pack	\$ 745	\$ 675
	Accessories*		\$ -	\$ -
	2880203	GEM Cab Frame / Seatbelt Kit (required for GEM eM 1400)	\$ 500	\$ 428
	2879109	GEM Poly Roof	\$ 300	\$ 257
	2879108	GEM Hard Coat Poly Windshield	\$ 400	\$ 343
	2879950	GEM Poly Rear Panel	\$ 500	\$ 428
	2879111	GEM Poly Doors	\$ 1,300	\$ 1,113
	2880880	GEM Electric Heater Kit	\$ 1,000	\$ 856
	2881001	Side Mirror - Driver	\$ 80	\$ 69
	2881002	Side Mirror - Passenger	\$ 60	\$ 51
	2881012	Mirror Mounting Kit for Poly Doors	\$ 80	\$ 69
	Accessory Install Fee*	[n/a]	\$ -	\$ -
	Customization*	[n/a]	\$ -	\$ -
		Factory Options/Accessories/Customization Subtotal	\$ 5,825	\$ 5,069

APPROX. LEASING RATES

VEHICLE PRICING

		MSRP		NJPA
*Aftermarket (i.e. non-Polaris) items may not be included on any purchase orders referencing the NJPA Contract; note that installation of aftermarket items may void part, or all, of the original factory warranty. Please see Owner's Manual for details.	Vehicle	\$ 15,824	\$	14,831
	Freight	\$ 945		Included
	Tax	\$ -	\$	-
	Sub Total	\$ 16,769	\$	14,831
	Quoted Price per Vehicle	\$ 16,769	\$	14,831
	Quantity	\$ 1	\$	1
	Total Quoted Price*	\$ 16,769	\$	14,831

STANDARD VEHICLE SPECS

Motor	7 HP
Top Speed	19 mph
Gross Weight	2,950 lbs.
Payload Capacity	1,400 lbs.
Length	115 in.
Width	57 in.
Height	52 in.
Wheelbase	79 in.
Turning Radius	167 in.
Wheels	12 in.
Tires	23 x 8.5-12 Duro



(vehicle pictured with options included on quote)

Standard Features: Street legal, 3 pt. safety belts, bucket seats, 43 in. legroom, mirrors, automotive glass, windshield wiper
 Bucket seats, adjustable driver seat, H/L headlights, LED brake lights and self-cancelling turn signals
 Automotive style suspension - Front: MacPherson Strut, Rear: independent dual a-arm
 1 kW onboard charger with cord that plugs into any 110 V outlet

Approved By _____

Approved Date _____



NJPA GEM Vehicle Quote Form



GENERAL INFORMATION

Customer Name	Glenbard Wastewater Authority	Date	8/10/17
Customer Contact	John Braga	Polaris Rep	Mark Danley
Customer Phone #	630-918-4416	Phone	952-388-3536
Address	21W551 Bemis Rd	Email	mark.danley@polaris.com
City	Glen Ellyn	Instructions	
State	IL		
Zip	60137		
NJPA Member ID#	41636		
Dealer Name	Randall Industries		
Dealer Number	2168900		
Dealer Contact	Ed Forsythe		
Dealer Phone Number	(630) 835-8617		

VEHICLE CONFIGURATION

Model Name	S Number Input	MSRP Pricing		NJPA Pricing
2018 GEM eM1400	1222111111111111	\$ 9,999	\$	9,762
Category	Factory Option			
Model Number	L17U2NAEFA	\$	\$	
Compliance	eM1400 Standard Destinations	\$ -	\$ -	-
Bed Accessory	eM Flat Bed w/Side Panels	\$ 410	\$	372
Bed Lift	eM Manual Box Lift Option (not for use with MaxBox)	\$ 120	\$	109
Batteries	eM Sealed Battery Pack	\$ 745	\$	675
		\$ -	\$ -	-
Accessories*		\$ -	\$ -	-
2880203	GEM Cab Frame / Seatbelt Kit (required for GEM eM 1400)	\$ 500	\$	428
2879109	GEM Poly Roof	\$ 300	\$	257
2879108	GEM Hard Coat Poly Windshield	\$ 400	\$	343
2879950	GEM Poly Rear Panel	\$ 500	\$	428
2879111	GEM Poly Doors	\$ 1,300	\$	1,113
2880880	GEM Electric Heater Kit	\$ 1,000	\$	856
2881001	Side Mirror - Driver	\$ 80	\$	69
2881002	Side Mirror - Passenger	\$ 60	\$	51
2881012	Mirror Mounting Kit for Poly Doors	\$ 80	\$	69
		\$ -	\$ -	-
Accessory Install Fee*	[n/a]	\$ -	\$ -	-
Customization*	[n/a]	\$ -	\$ -	-
	Factory Options/Accessories/Customization Subtotal	\$ 5,495	\$	4,770

APPROX. LEASING RATES

VEHICLE PRICING

	MSRP	NJPA
*Aftermarket (i.e. non-Polaris) items may not be included on any purchase orders referencing the NJPA Contract; note that installation of aftermarket items may void part, or all, of the original factory warranty. Please see Owner's Manual for details.		
Vehicle	\$ 15,494	\$ 14,532
Freight	\$ 945	included
Tax	\$ -	\$ -
Sub Total	\$ 16,439	\$ 14,532
Quoted Price per Vehicle	\$ 16,439	\$ 14,532
Quantity	\$ 1	\$ 1
Total Quoted Price*	\$ 16,439	\$ 14,532

STANDARD VEHICLE SPECS

Motor	7 HP
Top Speed	19 mph
Gross Weight	2,950 lbs.
Payload Capacity	1,400 lbs.
Length	115 in.
Width	57 in.
Height	52 in.
Wheelbase	79 in.
Turning Radius	167 in.
Wheels	12 in.
Tires	23 x 8.5 -12 Duro



(vehicle pictured with options included on quote)

Standard Features: Street legal, 3 pt. safety belts, bucket seats, 43 in. legroom, mirrors, automotive glass, windshield wiper
 Bucket seats, adjustable driver seat, H/L headlights, LED brake lights and self-cancelling turn signals
 Automotive style suspension - Front: MacPherson Strut, Rear: Independent dual a-arm
 1 kW onboard charger with cord that plugs into any 110 V outlet

Approved By

Approved Date

SECTION 6.0

BID AWARD HOUSE DEMOLITION OF 21W518 BEMIS ROAD

MEMORANDUM

TO: Executive Oversight Committee

FROM: Matt Streicher P.E., Engineer/Assistant Director
Through Erik Lanphier, Executive Director

DATE: August 8, 2017

RE: Request for Approval
House Demolition Services



In 2016 the Authority purchased the house/property across the street from the main treatment plant at 21W518 Bemis Road. The property was acquired to provide for any future needs, but at this time mainly is providing a buffer zone between the treatment plant and neighboring residents. The existing house on the site is vacant, and now can be viewed as a liability to the Authority. Therefore, in preparation for future use, and to lower any liability to the Authority, a bid invitation was advertised to have the house demolished.

A formal bid package was developed based off previous demolition bid packages put together by the Villages of Lombard and Glen Ellyn, and was advertised with a bid opening of June 21, 2017. Prior to the bid opening an Environmental Inspection on the house was completed as well, which revealed many rooms in the home contain asbestos. The scope of the project consists of disconnecting all utilities, abandoning/sealing the existing well, removing the existing septic tank/field, asbestos abatement, and demolition of the house/foundation/basement and all other existing structures. All trees/vegetation that are able to be left in place will remain, and land the house sits on will be brought to grade and seeded.

The Authority received 4 bids for Demolition Services, the results are as follows:

Name of Firm	Bid Amount
Green Demolition*	\$25,800.00*
KLF Enterprises	\$32,632.00
Alpine Demolition Services	\$60,000.00
American Demolition Corporation	\$68,200.00

* - Non-Responsive Bid

After further evaluation of the low bidder, Green Demolition, it was discovered they failed to include the asbestos remediation as part of their bid, which determined their bid to be non-responsive based on correspondence with our legal representation. Therefore, references were checked on the second low bidder.

Based on qualifications, reference checks, and price, I recommend awarding the project to **KLF Enterprises** in the amount of **\$32,632.00**. This is higher than the budgeted amount of \$20,000, however the presence of asbestos was not known at the time of budgeting. If approved, the House Demolition Services shall be invoiced to Fund 40-580120.

2017 Bemis House Demo Bid Tab

Bid Opening: June 21, 2017 @9:30am

Glenbard Wastewater Authority, 21W551 Bemis Road, Glen Ellyn, IL 60137

Name of Firm	Bid Amount
<i>Green Demolition</i>	<i>\$25,800.00</i>
KLF Enterprises	\$32,632.00
Alpine Demolition Services	\$60,000.00
American Demolition Corporation	\$68,200.00

GLENBARD WASTEWATER AUTHORITY

DEMOLITION OF AUTHORITY OWNED HOUSE AT 21W518 BEMIS ROAD

AGREEMENT

This agreement is made this 10th day of August, 2017 between and shall be binding upon the Glenbard Wastewater Authority hereinafter referred to as (the "Authority") and (KLF Enterprises) hereinafter to as (the "Contractor") and its successors.

Witnessed, that in consideration of the mutual promises of the parties delineated in the contract documents the Contractor agrees to perform the services and the Authority agrees to pay for the services as set forth in the contract documents.

1. This Contract shall embrace and include all of the applicable contract documents listed below as if attached hereto or repeated herein:
 - a. Submission Information
 - b. General Terms and Conditions
 - c. Supplementary Terms and Conditions
 - d. Specifications
 - e. Detail Specifications
 - f. Required Performance and Payment Bonds and Certification of Insurance
2. The Authority agrees to pay, and the Contractor agrees to accept as full payment for the items, and installation of the same, which are the subject matter of this contract the total sum of \$ paid in accordance with the provisions of the Local Government Prompt Payment Act.
3. The Contractor represents and warrants that it will comply with all applicable Federal, State, and Local Laws concerning prevailing wage rates and all Federal, State, and Local Laws concerning equal employment opportunities.
4. The Contractor shall commence work under this Contract upon written Notice to Proceed from the Authority and shall complete work on this project within 30 calendar days from the date of the Notice to Proceed. Time is of the essence of this Contract and Contractor agrees to achieve completion within the contract time by all proper and appropriate means including working overtime without additional compensation.
5. Bond required to guarantee performance and payment for labor and material for this work shall be in a form acceptable to the Authority and shall provide that they shall not terminate on completion of the work, but shall be reduced to ten percent (10%) of the contract sum upon the date of final payment by the Authority for a period of one (1) year to cover a warranty and maintenance period which Contractor agrees shall apply to all material and workmanship for one (1) year from the date of issuance of the final payment by the Authority.
6. Pursuant to the provisions of Section 5 of the Mechanics' Lien Act of Illinois, prior to making any payment on this contract the Authority demands that the Contractor furnish a written statement of the names of all parties furnishing labor and/or materials under this Contract and the amounts due or to become due on each. This statement must be made under oath or be verified by affidavit. Final payment shall not be issued by the Authority no shall any retained percentage become due until releases of waivers of lien have been supplied as the Authority designates.
7. In executing this Contract, Contractor agrees that it has examined the site of the work and the conditions existing therein, has examined the Contract Documents and taken and compared field measurements and conditions with those Documents.
8. This Contract represents the entire Agreement between the parties and may not be modified without the written approval of both parties.

AGREEMENT (CONTINUED)

IN WITNESS WHEREOF, the Glenbard Wastewater Authority, Illinois by _____
Executive Oversight Committee President, and the Contracto have hereunto set their hands this ___ day of
,20__.

James Brisch

By _____

PRESIDENT
Position/Title

By _____

Position/Title

KLF ENTERPRISES

Print Company Name

THE GLENBARD WASTEWATER AUTHORITY

Accepted this ___ day of _____, 20__.

Executive Oversight Committee President

Attest:



SUBMISSION INFORMATION

Glenbard Wastewater Authority
21W551 Bemis Road
Glen Ellyn, IL 60137

CONTRACTOR INFORMATION

Company Name: KLF ENTERPRISES
Address: 2044 W. 1103rd St. Suite 2
City, State, Zip Code: Markham, IL 60428

DEMOLITION OF A AUTHORITY-OWNED RESIDENTIAL DWELLING
per the specifications identified herein

I. BASE BID ITEMS

Item		Cost (\$)
Labor, Equipment, & Materials to Demolish: 21W518 Bemis Rd.	DEMOLITION LUMP SUM	\$32,632.00
Credit for salvaged assets	CREDIT AMOUNT	Ø
	NET TOTAL LUMP SUM:	\$32,632.00

THE SECTION BELOW MUST BE COMPLETED IN FULL AND SIGNED

The undersigned hereby certifies that they have read and understand the contents of this solicitation and agree to furnish at the prices shown any or all of the items above, subject to all instructions, conditions, specifications and attachments hereto. Failure to have read all the provisions of this solicitation shall not be cause to alter any resulting contract or to accept any request for additional compensation. By signing this bid document, the bidder hereby certifies that they are not barred from bidding on this contract as a result of a violation of either Section 33E-3 or 33E-4 of the Illinois Criminal Code of 1961, as amended.

Authorized Signature: [Signature] Company Name: KLF ENTERPRISES
Typed/Printed Name: JAMES BRACKEN Date: 6-20-17
Title: PRESIDENT Telephone Number: 708-331-4200
E-mail: BRACKEN708@GMAIL.COM Website: N/A



Re: Glenbard Wastewater Authority – House Demolition Services

Mr. Matt Streicher,

KLF Enterprises will hold the price of the bid in the amount of \$32,632.00. This bid price will be held til Tuesday September 19, 2017 per instruction. KLF included the removal of the Asbestos Containing Material per specs. Please contact us with any other questions.

Thank you in advance,

A handwritten signature in black ink, appearing to read 'James Bracken', with a long, sweeping horizontal line extending to the right.

James Bracken

President

SECTION 7.0

JOB ORDER CONTRACTING (JOC) MAU INSTALLATION REQUEST.

MEMORANDUM

TO: Executive Oversight Committee

FROM: Matt Streicher, Engineer/Assistant Director
Through – Erik Lanphier, Executive Director

DATE: August 14, 2017

RE: Request for Authorization
JOB ORDER CONTRACTING
MAKE-UP AIR WORK IN SCUM BUILDING (E)



As part of the CY-2017 Infrastructure Improvement Project budget, the Electrical Group has purchased and will be installing a new roof-top mounted make-up air unit (MAU) at the Scum building, replacing the existing unit. The existing units have proven troublesome, maintenance intensive, and are in need of replacement. Additionally, the unit specified will more appropriately address the needs of this structure.

Given the operational and safety liabilities associated with this task, the Authority investigated Cooperative Job Order Contract utilization through the ezIQC procurement service managed by The Gordian Group, Inc. This service provides Public Owners with Cooperative Job Order Contract usage for managing small to medium cost construction projects through the implementation of “on-call” contracted services with experienced contractors.

The City of Naperville had developed specifications for a wide variety of possible Job Order Contract (JOC) services, set them out for public bid, and awarded this JOC to F. H. Paschen Construction, Chicago, IL. In compliance with 30 ILCS 525 procurement procedures that alleviate the necessity for public bidding of services currently under competitive contracts such as mechanical pipe demo and installation, electrical construction, road rehabilitation or reconstruction, concrete sidewalk replacement, fence repairs, etc., the Authority is able to utilize the City of Naperville JOC with its many benefits:

- **JOC saves time:** Having the competitive bidding process completed up front, allows the Authority to shift focus to complete projects more effectively vs. repeating the bidding process over and over for each individual project. Put differently; projects can get started in a matter of weeks instead of a matter of months.
- **JOC saves money:** JOC can show savings in actual cost. JOC reduces the need for extensive engineering design in certain cases through the use of Owner specific technical specifications. Procurement costs decrease because the specification process was done once, up front, during the bidding process. Change orders are all but eliminated because changes in scope of work are discussed prior to award, and added to the overall scope directly from the final bid price book. Finally, direct construction costs decrease overall

because of volume discounts and reduced overhead on each individual project as the General Contractor spreads costs over the entire course of the JOC award period.

- **JOC improves quality:** The Authority receives a fully customized solution that allows us to specify, down to the line item, the products utilized and the level of quality we require. These line items have localized costs associated with them, so the price for any given task is fixed along with the expectations of what is to be done. No project is closed out through the EZIQC program until the Owner is satisfied.

After initiating the JOC project request, we met with the JOC group to discuss the Scope of Work with the JOC General Contractor F. H. Paschen. At this meeting all parties discussed the details of the project, looked at the specific work site, and asked questions to clarify understanding. The Authority initially agreed to provide electrical and natural gas disconnection prior to Contractor demolition. The Authority will also agree to perform the work to reconnect electrical and natural gas services to the newly installed units.

Subsequent to this discussion F. H. Paschen staff developed a detailed Scope of Work and price proposal utilizing the tasks, quantities, and pricing developed in the Naperville JOC. The first revision of the proposal that was received by the Authority came at a proposed cost of \$42,527.53. Including the equipment that has already been purchased (at a cost of \$7,965), the would have put the total project cost at \$50,492.53. The budgeted amount for this project was line item in the budget was \$35,000, which meant it would have been over budget by \$15,439.53.

Therefore, the Authority negotiated with the JOC group through several iterations of the proposal, and ultimately in order to reduce project cost, it was decided that in addition to the natural gas and electrical work, the Authority would also be responsible for demolition of the existing HVAC and unit heaters. After further negotiation, the JOC group agreed to lower their proposal to \$29,972.19, which puts us over budget in the amount of \$2,965.

After further internal discussion, it is recommended that we move forward with this work at this time at the cost of **\$29,972.19**, as waiting an additional year would add costs due to increased labor costs in future years. The make-up air unit is already purchased and on-site, and ready for installation.

I have confirmed with Rick Freeman, Electrical Superintendent, that funds were specifically budgeted in CY-2017 for replacement of the make-up air unit as part of the Electrical Group MAU replacement request in Capital Improvement Division 40, Infrastructure Improvement Account 580140 (**Primary Scum Building MAU Replacement & Ductwork Reconfiguration \$35,000**).



Job Order Contract
Detailed Scope of Work

Job Order Number: 050496.00
Job Order Name: Glenbard Wastewater Authority - Primary Scum Building MAU
Contractor Name: F. H. Paschen, S. N. Nielsen & Associates LLC
Location: 470 - 21W 551 Bemis Rd.
21W 551 Bemis Rd.
Glen Ellyn, IL 60137

Date: August 15, 2017

Detailed Scope of Work

Preliminary

Final

The following items detail the scope of work as discussed at the site. All requirements necessary to accomplish the items set forth below shall be considered part of this Detailed Scope of Work:

Brief Scope of Work:

installation of the replacement new Primary Scum Building MAU, as well as the duct work modification, roof coring/patching, and natural gas connections. The Authority has purchased the replacement MAU already.

Detailed Scope of Work:

- Owner to demo existing HVAC units, existing duct, existing gas piping, existing hangers, and all other applicable items.
- Core hole in roof and cut new CMU wall opening.
- Remove roofing and install owner supplied roof curb.
- Install insulation, blocking, and patch roofing at new curb and removed flue piping.
- Supply crane and install owner supplied heating only air handler.
- Modify and reinstall salvaged duct as possible.
- Supply and install new duct.
- Owner to install all new gas piping and valves as required.
- Supply and install sheet metal caps, trim, grilles, and diffusers.
- Owner responsible for painting of all gas lines.
- Owner to start up and balance new unit and diffusers.

Clarifications

- All electric and controls work is by owner
- Unit start up is by owner
- Owner to supply roof curb and new HVAC unit.
- Removed HVAC equipment and duct to be disposed of in owner scrap dumpster.

Detailed Scope of Work - 050496.00

Job Order Contract

Proposal Review Summary - Category

Date: August 15, 2017
Work Order #: 050496.00
Title: Glenbard Wastewater Authority - Primary Scum Building MAU
Contractor: 11-082 - F. H. Paschen, S. N. Nielsen & Associates LLC
Proposal Value: \$29,972.19
Proposal Name: Glenbard Wastewater Authority - Primary Scum Building MAU
Proposal Submitted: 08/14/2017

Core Drill/Saw Cut:	\$2,333.16
HVAC:	\$25,075.75
Roofing:	\$2,563.28
Proposal Total	\$29,972.19

This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals

The Percent of NPP on this Proposal: 0.00%

Job Order Contract
Proposal Review Detail - Category

Date: August 15, 2017
Work Order #: 050496.00
Title: Glenbard Wastewater Authority - Primary Scum Building MAU
Contractor: 11-082 - F. H. Paschen, S. N. Nielsen & Associates LLC
Proposal Value: \$29,972.19
Proposal Name: Glenbard Wastewater Authority - Primary Scum Building MAU
Proposal Submitted: 08/14/2017

Rec#	CSI Number	Mod.	UOM	Description	Line Total
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Core Drill/Saw Cut

1	01 22 20 00-0015		HR	Laborer Note: Tasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$613.55
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Quantity	Unit Price	Factor	Total
Installation 8.00 x	66.58 x	1.1519 =	\$613.55

Contractors Note: Laborer on site with core drilling crew to spot and catch cores on interior of building. Clean up after core drilling.

2	01 71 13 00-0002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.	\$231.90
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Quantity	Unit Price	Factor	Total
Installation 1.00 x	201.32 x	1.1519 =	\$231.90

Contractors Note: Mobilize equipment for core drilling and saw cutting.

3	02 41 19 13-0034		CF	Brick, Block or Composite Removal	\$314.47
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Quantity	Unit Price	Factor	Total
Installation 25.00 x	10.92 x	1.1519 =	\$314.47

Contractors Note: Remove and dispose of CMU after saw cutting.

4	02 41 19 13-0089		EA	Saw Cut Minimum Charge Note: For projects where the total saw cutting charge is less than the minimum charge. Use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	\$586.62
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Quantity	Unit Price	Factor	Total
Installation 1.00 x	509.26 x	1.1519 =	\$586.62

Contractors Note: Saw cut block wall for new exhaust duct.

5	02 41 19 13-0255		EA	Core Drill Minimum Charge Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".	\$586.62
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Quantity	Unit Price	Factor	Total
Installation 1.00 x	509.26 x	1.1519 =	\$586.62

Contractors Note: Core through roof for new pipe portal.

Subtotal for Core Drill/Saw Cut: **\$2,333.16**

HVAC

Proposal Review Detail - Category Continued..

Date: August 15, 2017
 Work Order #: 050496.00
 Title: Glenbard Wastewater Authority - Primary Scum Building MAU

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
HVAC							
6	01 22 20 00-0029		HR	Sheet Metal Worker Note: Tasks in the CTC include appropriate costs to cover labor. These tasks will be requested specifically by the owner for miscellaneous work not covered in the CTC.	\$2,748.71		
				Quantity	Unit Price	Factor	Total
			Installation	32.00	74.57	1.1519	\$2,748.71
				x	x	=	
Contractors Note: Sheet metal labor to modify existing duct as needed after removed and lowered to the ground by owner.							
7	01 22 20 00-0029	0004	HR	For Foreman, Add	\$34.37		
				Quantity	Unit Price	Factor	Total
			Installation	8.00	3.73	1.1519	\$34.37
				x	x	=	
Contractors Note:							
8	01 22 23 00-0472		DAY	40 To 45 Ton Lift Hydraulic Crane With Full-Time Operator	\$1,969.24		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	1,709.56	1.1519	\$1,969.24
				x	x	=	
Contractors Note: Supply crane to lift unit to roof.							
9	01 71 13 00-0002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.	\$231.90		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	201.32	1.1519	\$231.90
				x	x	=	
Contractors Note: Mobilize hoist/ material lifting equipment.							
10	01 71 13 00-0007		EA	40 To 50 Ton Lift Move On/Off Cost, Truck Mounted Crane	\$588.18		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	510.62	1.1519	\$588.18
				x	x	=	
Contractors Note: Mobilize crane to and from jobsite.							
11	05 05 23 00-0266		EA	3/8" Diameter Threaded Stud Powder Actuated Anchor	\$427.68		
				Quantity	Unit Price	Factor	Total
			Installation	26.00	14.28	1.1519	\$427.68
				x	x	=	
Contractors Note: Threaded rod anchors for new supports.							
12	06 16 33 00-0005		SF	5/8" (16mm) Thick CDX Plywood Roof Decking Note: Applied To Wood Rafters	\$61.19		
				Quantity	Unit Price	Factor	Total
			Installation	32.00	1.66	1.1519	\$61.19
				x	x	=	
Contractors Note: Cap roof curb with plywood after installation.							
13	06 16 33 00-0005	0006	SF	For Application To Metal Studs, Joists, Or Rafters, Add	\$8.11		
				Quantity	Unit Price	Factor	Total
			Installation	32.00	0.22	1.1519	\$8.11
				x	x	=	
Contractors Note:							
14	07 54 19 00-0018		EA	6" Diameter, Prefabricated PVC Penetration Pocket Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.	\$89.61		
				Quantity	Unit Price	Factor	Total
			Installation	1.00	77.79	1.1519	\$89.61
				x	x	=	
Contractors Note: Pipe penetration portal at new unit.							

Proposal Review Detail - Category Continued..

Date: August 15, 2017
 Work Order #: 050496.00
 Title: Glenbard Wastewater Authority - Primary Scum Building MAU

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
HVAC							
15	07 72 13 00-0014		LF	> 58" Long, 12" High Adjustable Galvanized Steel Roof Curb	\$317.98		
				Quantity	Unit Price	Factor	Total
				17.00	14.53	x	\$284.53
				4.00	7.26	x	\$33.45
				Contractors Note: Install owner supplied roof curb. Line item is labor only.			
16	08 36 13 00-0162		EA	Manual Chain Hoist	\$439.30		
				Quantity	Unit Price	Factor	Total
				1.00	381.37	x	\$439.30
				Contractors Note: Hoist for lowering existing units and duct, and to lift new duct.			
17	11 24 26 00-0003		EA	Mechanically Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor) Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.	\$427.68		
				Quantity	Unit Price	Factor	Total
				1.00	371.28	x	\$427.68
				Contractors Note: OSHA compliant fall protection utilized while working on roof.			
18	23 09 23 00-0626		EA	24"x24" Low Leakage Volume Control Damper (Johnson Controls VOPSN-024X024)	\$281.43		
				Quantity	Unit Price	Factor	Total
				1.00	244.32	x	\$281.43
				Contractors Note: Install damper a old exhaust wall opening.			
19	23 31 13 13-0003		LB	Sheet Metal Ductwork, Low Pressure, Field Fabricated, Galvanized, Field Assemble And Install	\$5,661.82		
				Quantity	Unit Price	Factor	Total
				640.00	7.68	x	\$5,661.82
				Contractors Note: Demo existing duct per scope and replace with new duct.			
20	23 31 13 13-0003	0399	LB	For Quantities > 500 Lb. To 1000 Lb. (> 227 kg to 454 kg), Add	\$840.43		
				Quantity	Unit Price	Factor	Total
				640.00	1.14	x	\$840.43
				Contractors Note:			
21	23 31 13 13-0003	0410	LB	For Work In Restricted Working Space, Add	\$1,496.55		
				Quantity	Unit Price	Factor	Total
				640.00	2.03	x	\$1,496.55
				Contractors Note:			
22	23 31 13 13-0003		LB	Sheet Metal Ductwork, Low Pressure, Field Fabricated, Galvanized, Field Assemble And Install	\$3,275.31		
				Quantity	Unit Price	Factor	Total
				420.00	6.77	x	\$3,275.31
				Contractors Note: Demo existing duct, modify, and reinstall for new setup per owner scope. Line item is labor only.			
23	23 31 13 13-0003	0398	LB	For Quantities > 200 Lb. To 500 Lb. (> 91 kg to 227 kg), Add	\$778.91		
				Quantity	Unit Price	Factor	Total
				420.00	1.61	x	\$778.91
				Contractors Note:			

Proposal Review Detail - Category Continued..

Date: August 15, 2017
 Work Order #: 050496.00
 Title: Glenbard Wastewater Authority - Primary Scum Building MAU

Rec#	CSI Number	Mod.	UOM	Description	Line Total
HVAC					
24	23 31 13 13-0003	0410	LB	For Work In Restricted Working Space, Add	\$982.11
			Installation	Quantity 420.00 x Unit Price 2.03 x Factor 1.1519 = Total \$982.11	
Contractors Note:					
25	23 37 13 00-0097		EA	12" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	\$105.10
			Installation	Quantity 1.00 x Unit Price 91.24 x Factor 1.1519 = Total \$105.10	
Contractors Note: Install new grille/diffuser					
26	23 37 13 00-0098		EA	16" x 16" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	\$326.29
			Installation	Quantity 2.00 x Unit Price 141.63 x Factor 1.1519 = Total \$326.29	
Contractors Note: Install new grille/diffuser					
27	23 37 13 00-0101		EA	24" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	\$188.15
			Installation	Quantity 1.00 x Unit Price 163.34 x Factor 1.1519 = Total \$188.15	
Contractors Note: Install new grille/diffuser					
28	23 73 13 00-0015		EA	3500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	\$1,983.16
			Installation	Quantity 1.00 x Unit Price 1,721.64 x Factor 1.1519 = Total \$1,983.16	
		Excludes Material			
Contractors Note: Install owner supplied heating only AHU.					
29	26 05 29 00-0007		LF	1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	\$635.39
			Installation	Quantity 40.00 x Unit Price 13.79 x Factor 1.1519 = Total \$635.39	
Contractors Note: Demo existing unistrut supports. Install new supports with new duct.					
30	26 05 29 00-0255		LF	3/8" Diameter, Carbon Steel Threaded Rod	\$120.40
			Installation	Quantity 52.00 x Unit Price 2.01 x Factor 1.1519 = Total \$120.40	
Contractors Note: Demo existing threaded rod supports and install new supports.					
31	26 05 29 00-0263		EA	3/8" Diameter, Threaded Rod Coupling Nut	\$359.99
			Installation	Quantity 52.00 x Unit Price 6.01 x Factor 1.1519 = Total \$359.99	
Contractors Note: Threaded rod nuts.					
32	41 01 20 00-0003		HR	Hoist Or Crane Servicing, Labor Only	\$696.76
			Installation	Quantity 8.00 x Unit Price 75.61 x Factor 1.1519 = Total \$696.76	
Contractors Note: Certified signaler and rigging of new unit for crane lift.					

Subtotal for HVAC: \$25,075.75

Proposal Review Detail - Category Continued..

Date: August 15, 2017
 Work Order #: 050496.00
 Title: Glenbard Wastewater Authority - Primary Scum Building MAU

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
Roofing						
33	01 71 13 00-0002	EA		Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Note: For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.	\$231.90	
			Quantity	Unit Price	Factor	Total
		Installation	1.00 x	201.32 x	1.1519 =	\$231.90
Contractors Note: Mobilize equipment for roofing demo and repair work.						
34	06 11 16 00-0123	LF		2"x4" (5cm x 10cm) Pressure Treated Blocking To Steel	\$129.24	
			Quantity	Unit Price	Factor	Total
		Installation	34.00 x	3.30 x	1.1519 =	\$129.24
Contractors Note: Blocking for new roofing/roof curb.						
35	07 05 13 00-0002	EA		Labor Crew Up-Charge For 1 SQ Or Less, Add To Line Item	\$1,025.99	
			Quantity	Unit Price	Factor	Total
		Installation	1.00 x	890.69 x	1.1519 =	\$1,025.99
Contractors Note: Small roof repair up charge.						
36	07 05 13 00-0009	SF		Roof Repair, Built-Up Roofing, 25 To 50 SF	\$638.61	
			Quantity	Unit Price	Factor	Total
		Installation	48.00 x	11.55 x	1.1519 =	\$638.61
Contractors Note: Patch roofing around new curb and removed flue piping.						
37	07 51 13 00-0026	SF		Up To 250 SF Polyester Felt Bituminous Roofing Assembly Note: Including base sheet, 2 ply of polyester felt, drip edge, gravel stop, cant strip, flashing and ballast	\$109.86	
			Quantity	Unit Price	Factor	Total
		Installation	0.00 x	8.10 x	1.1519 =	\$0.00
		Demolition	33.00 x	2.89 x	1.1519 =	\$109.86
Contractors Note: Demo existing roof assembly at new curb location.						
38	11 24 26 00-0003	EA		Mechanically Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor) Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.	\$427.68	
			Quantity	Unit Price	Factor	Total
		Installation	1.00 x	371.28 x	1.1519 =	\$427.68
Contractors Note: OSHA compliant fall protection in place during work on roof.						

Subtotal for Roofing: **\$2,563.28**

Proposal Total **\$29,972.19**

This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals

The Percent of NPP on this Proposal: **0.00%**

SECTION 8.0

CO-GEN BUS DUCT REHABILITATION PROJECT AWARD

MEMORANDUM

TO: Executive Oversight Committee

FROM: Rick Freeman – Electrical Superintendent
Through - Erik Lanphier, Executive Director

DATE: July 25, 2017

RE: Co-Gen Bus Duct **Repair**



On May 24, 2017, at approximately 01:10 hours, we experienced a failure of the bus duct that connects the ComEd Utility to the Co-Gen Facility and the Co-Gen Emergency & CHP Generators to the plant loads. This fault occurred in the vertical outdoor section of the bus duct. A detailed memorandum of the event is attached.

As noted in the attached memorandum, the failed bus duct has been bypassed with temporary cabling from Patten Power via Homestead Electric at a cost of ~ \$740/wk. At this point in time, we have an outstanding invoice from Homestead for the installation of the temporary bypass cabling (\$3,787) & estimated cable rental fees (\$9,620 ~ 13 weeks).

Repair/Replacement Options

Due to the cost of repair and to abide by the purchasing policy set forth, proposals have been solicited from four firms... Homestead Electric, Meade Electric, Quad Plus, and Tri-R Electrical Contractors; Tri-R did not provide a proposal.

Repair/replacement options provided by each of the three contractors noted above can basically be summarized as follows:

Option 1: Replace outdoor bus duct in-kind from first interior junction splice to the exterior transformer junction box. This option only provided by Homestead, not a viable option we would want to move forward with, but wanted to get an idea of what cost this option would be

Option Cost - \$70,180 (\$61,300 + ~\$8,800 cable rental fees (\$740/wk., 12 weeks) until special order bus duct arrives)

Pros: Lowest cost option

Cons: Bus duct longevity, susceptibility to repeat failure, availability of parts, top entry of outdoor transformer

Option 2: Replace bus duct from first interior junction splice to the exterior transformer junction box with conduit/wire in lieu of outdoor bus duct

Option Cost:

Homestead Electric **\$89,980** (\$81,300 + ~\$7,200 expedited tap box fee, + \$1,480 cable rental fee (\$740/wk., 2 weeks) until special order tap box arrives)

or

\$90,100 (\$81,300 + ~\$8,800 cable rental fees (\$740/wk., 12 weeks) until special order tap box arrives)

Quad Plus **\$103,539** (\$94,739 + ~\$8,800 cable rental fees)
*no lead time, expedited costs provided, assume 12 wk. lead time/cable rental fees

Meade Electric **Did not provide quote for this option**

Pros: Re-uses interior bus duct

Cons: Bus duct longevity, Susceptibility to failure, Availability of parts, Higher cost than Option 3 via Meade Electric

Option 3: Replace the bus duct in its entirety from the Co-Gen Switch gear cabinet to the exterior transformer junction box

Option Cost:

Meade Electric **\$85,585 (cable tray/wire)**

Homestead Electric **\$104,250 (conduit/wire)**

Quad Plus **\$114,925 (conduit/wire)**

Pros: Lowest cost best solution, Longevity, Short lead time, No future special-order parts

Cons: Higher Cost from Homestead & Quad Plus

Conclusion/Recommendation

Based on the proposals received, analysis of the various repair/replacement methods, staff feels the best long term option is to proceed with Option 3 by Meade Electric. Although Option 1 is approximately \$15k less expensive, it leaves us questioning bus duct longevity, susceptibility to repeat failure, availability of custom parts in the future should service be required, top entry of outdoor transformer junction box, etc.

MEMORANDUM

TO: Executive Oversight Committee

FROM: Rick Freeman – Electrical Superintendent
Through – Erik Lanphier, Executive Director

DATE: May 25, 2017

RE: Co-Gen Bus Duct **Failure**



On May 24, 2017, at approximately 01:10 hours, Operations Superintendent David Goodalis, upon returning from the CSO Facility (high flow event), observed a total power loss to the Bemis Road Facility.

The electrical staff were contacted and requested to respond to the situation. When we arrived, the plant was in a blackout condition with the utility available and Co-Gen engines running but unable to power the facility due to the Co-Gen generator bus “Tie-Breaker” and “Utility-Breaker” being tripped and in the locked-out state. We first isolated all plant loads and then proceeded in a logical progression to identify the fault that was keeping the tie-breaker and utility breaker from re-closing. The fault was identified as a failed bus-duct (see Fig. 1), which was isolated at ~ 04:00 hours, allowing the utility to power the facility.



Fig. 1

Although the facility was once again up and running on power from the utility, the failed bus-duct eliminated the Co-Gen System from powering the facility in the event of a utility outage and the Co-Gen Building being powered via the utility; we needed to determine a short-term work-around to bypass the failed bus-duct and restore redundant backup power to the facility and utility power to the Co-Gen Building.

We contacted Homestead Electric, which arrived onsite at ~10:15 AM and brainstormed various ideas to bypass the failed bus-duct. The most feasible and timely solution was to install external bypass cabling in place of the failed bus-duct. Homestead rented the temporary bypass cabling from Patten Power and obtained lugs to terminate the cables at the indoor switchgear and outdoor transformer.

Efforts continued throughout the day to install the temporary bypass cabling and was completed shortly after 17:00 hours. Proper phase rotation was then verified, and a full backup power test performed utilizing the Co-Generation System to completely power the facility; the testing was successful, full backup power was restored.

The failed bus-duct was identified for replacement in our CY-17 Budget, but unfortunately failed before it could be addressed due to the wet spring we have been experiencing. In our staff's opinion, bus-duct should have never been installed outdoors let alone allowed to penetrate an outdoor step-up transformer from the top...it's not a best practice installation and is just asking for trouble. This electrical gear was installed under a Design-Build approach in 1993.

Costs for the temporary bypass cabling efforts will be forthcoming with a separate breakout indicating the weekly cable rental fees. We'll be working with Homestead Electric to develop a permanent replacement solution that will be a best practice installation. The current bus-duct installation is included below (see Fig. 2, 3)



Fig. 2



Fig. 3



9550 w. 55th Street · Suite A · McCook, IL 60525 (708) 588-2500

June 28, 2017

Rick Freeman
Glennbard Waste Water
Rfreeman@gbww.org

RE: 21 W.551 Beemis Rd. Glen Ellen 60137

Dear **Rick**
Remove all bus duct from Switchgear to Transformer
Install new Cable tray and all new cable

Scope of Work Included in Proposal

Demo all existing bus duct

Install all new cable tray and install supports

Install all new Junction boxes and supports

Pull new cable and install new terms

Meade to supply all parts and labor to complete job

Meade to schedule outage to make connections with Glenbard

Lump Sum Price of \$ 85,585.00

All work to be done during the day 7 ton 330



Jim Bertucci

Meade General Forman
9550 W. 55th Street
McCook Il. 60525 (708-642-0389)
Cell: 708-642-0389



9550 w. 55th Street · Suite A · McCook, IL 60525 (708) 588-2500

June 28, 2017

Rick Freeman
Glenbard Waste Water
Rfreeman@gbww.org

RE: 21 W.551 Beemis Rd. Glen Ellen 60137

Dear Rick
Remove all bus duct from Switchgear to Transformer
Install new Cable tray and all new cable

Scope of Work Included in Proposal

Demo all existing bus duct

Install all new cable tray and install supports

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Pull new cable and install new terms

Meade to supply all parts and labor to complete job

Meade to schedule outage to make connections with Glenbard

Lump Sum Price of \$ 85,585.00

All work to be done during the day 7 ton 330



Jim Bertucci

Meade General Forman
9550 W. 55th Street
McCook Il. 60525 (708-642-0389)
Cell: 708-642-0389



HOMESTEAD

Electrical Contracting, LLC

June 28, 2017

TO: Glenbard Waste Water Authority

RE: Buss Duct Repair OPTION #1: Replace exterior section of buss duct in kind to what is currently in use. Splice in at closest available spot on the interior buss duct

ATTN: Rick Freeman

Dear Mr. Freeman,

We are pleased to provide you with our proposal for the above referenced project, in accordance with the scope detailed below.

SCOPE

INCLUSIONS:

- Furnish and install (14') of new exterior buss duct
- Furnish and install (1) new cable end tap box
- Furnish and install (1) new exterior elbow
- Furnish and install (1) new wall flange
- Furnish and install temporary generator & fuel (to power the MCC in the electrical room when the work is being done in the exterior transformer).

EXCLUSIONS:

- Sales tax, permit fees, performance & payment bonds ,Utility costs and fees
- Dumpsters & disposal of demolished equipment
- Asphalt and concrete cutting, patching & replacement
- Equipment pads, Painting, landscape restoration
- Premium time
- Liquidated damages

TOTAL: \$61,300.00

This proposal is valid for 30 days and based upon a scope review, along with both party's mutually agreeing to the contact terms

NOTE: The buss quoted in this proposal is the same GE style as what is currently in use.

NOTE: Standard lead time for the GE components is 10-12 weeks, if a 2 week expedited lead time is required (starting after 7/9) please add \$48,200.00 to the above cost

Thank you,

Ben Dolan
HEC LLC



27839 West Concrete Drive, Suite A, Ingleside, Illinois 60041

Phone: 815-363-1222 Fax: 815-363-1226

www.homesteadelectric.com





June 28, 2017

TO: Glenbard Waste Water Authority

RE: Buss Duct Repair OPTION #2: New cable end tap box, and interior trough with bottom entry into the exterior transformer via conduit

ATTN: Rick Freeman

Dear Mr. Freeman,

We are pleased to provide you with our proposal for the above referenced project, in accordance with the scope detailed below. Please see the included sketch of the installation

SCOPE

INCLUSIONS:

- Furnish and install (1) new cable end tap box (tied into the existing buss duct at the splice closest to the gear)
- Furnish and install (1) new interior trough (from the cable end tap box to the interior wall, then down the wall to facilitate new exterior conduits)
- Furnish and install (10) new exterior rigid aluminum conduits (penetrating the bottom side of the existing transformer)
- Furnish and install (1) new transformer cover (to replace the existing top cover where the existing buss duct enters)
- Furnish and install (10) sets of 4 #600 XHHW & 1 # 500 ground cables & all terminations
- Furnish and install temporary generator & fuel (to power the MCC in the electrical room when the work is being done in the exterior transformer).

EXCLUSIONS:

- Sales tax, permit fees, performance & payment bonds ,Utility costs and fees
- Dumpsters & disposal of demolished equipment
- Asphalt and concrete cutting, patching & replacement
- Equipment pads, Painting, landscape restoration
- Premium time
- Liquidated damages

TOTAL: \$81,300.00

This proposal is valid for 30 days and based upon a scope review, along with both party's mutually agreeing to the contact terms

NOTE: If a 2 week expedited lead time is required (starting after 7/9) please add \$7,200.00 to the above cost

Thank you,

A handwritten signature in black ink, appearing to read 'Ben Dolan', is written over a horizontal line.

Ben Dolan
HEC LLC



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Phone: 815-363-1222 Fax: 815-363-1226

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June 28, 2017

TO: Glenbard Waste Water Authority

RE: Buss Duct Repair OPTION #3: Remove all of the existing buss duct (interior and exterior) and replace with conduit and cable from the gear to the transformer

ATTN: Rick Freeman

Dear Mr. Freeman,

We are pleased to provide you with our proposal for the above referenced project, in accordance with the scope detailed below. Please see the included sketch of the installation

SCOPE

INCLUSIONS:

- Remove all of the existing GE buss, and remove from site
- Furnish and install new buss detail within the main switchgear to allow for cable terminations in place of the existing buss duct terminations
- Furnish and install (10) new interior rigid aluminum conduits Furnish and install (10) new exterior rigid aluminum conduits (penetrating the bottom side of the existing transformer)
- Furnish and install (1) new interior junction box (at the bottom of the interior wall to facilitate new exterior conduits)
- Furnish and install (1) new transformer cover (to replace the existing top cover where the existing buss duct enters)
- Furnish and install (10) sets of 4 #600 XHHW & 1 # 500 ground cables & all terminations
- Furnish and install temporary generator & fuel (to power the MCC in the electrical room when the work is being done in the exterior transformer).

EXCLUSIONS:

- Sales tax, permit fees, performance & payment bonds ,Utility costs and fees
- Dumpsters & disposal of demolished equipment
- Asphalt and concrete cutting, patching & replacement
- Equipment pads, Painting, landscape restoration
- Premium time
- Liquidated damages

TOTAL: \$104,250.00

This proposal is valid for 30 days and based upon a scope review, along with both party's mutually agreeing to the contact terms

Thank you,

A handwritten signature in black ink, appearing to read 'Ben Dolan', is written over a horizontal line.

Ben Dolan
HEC LLC



27839 West Concrete Drive, Suite A, Ingleside, Illinois 60041

Phone: 815-363-1222 Fax: 815-363-1226

www.homesteadelectric.com





June 12, 2017

Richard Freeman
Electrical Manager
Glenbard Waste Water Authority
21W551 Bemis Rd.
Glen Ellyn, IL. 60137

Subject: Buss Work Rebuild Quote
Quote #0612017FJD-01

Dear Mr. Freeman,

Thank you for this opportunity to provide our services to rebuild your electrical buss

Work Scope:

1. Inclusions Option A
 - a. Following items to be included in pre-work demolition.
 - I. Remove all existing buss duct from transformer and switchgear.
 - II. Remove existing transformer tap box.
 - III. Saw cut window through brick wall to accommodate new conduits.
 - b. Furnish all labor, material, and equipment to complete the electrical work for the 4000 amp incoming feeders to include:
 - I. Transformer tap box to accommodate 10 – 3½” rigid conduits.
 - II. 48” x 48” NEMA 3R junction box mounted on outside of electrical room.
 - III. Strut trapeze supports for conduits inside electrical room.
 - IV. Conduit runs, wiring, hardware, and connections from transformer, to the junction box, and into the 4000 amp line side buss detail.

2. Inclusions Option B

- a. Following items to be included in pre-work demolition.
 - I. Remove all existing buss duct from transformer and switchgear.
 - II. Remove existing transformer tap box.
 - III. Saw cut window through brick wall to accommodate new conduits.
- b. Furnish all labor, material, and equipment to complete the electrical work for the 4000 amp incoming feeders to include:
 - I. Transformer tap box to accommodate 10 – 3½” rigid conduits.
 - II. 48” x 48” NEMA 3R junction box mounted on outside of electrical room.
 - III. Strut trapeze supports for conduits inside electrical room.
 - IV. Conduit runs, wiring, hardware, and connections from transformer, to the junction box, and into a 4000 amp tap box. The tap box will allow us to utilize 30’ of the interior existing buss duct.

3. Exclusions

- a. Permits
- b. Unless included in the proposal, all bonding and/or special insurance requirements are supplied at additional cost
- c. Commissioning
- d. Professional engineering fees
- e. The contractor shall not be liable for errors or omissions in designs by others, nor inadequacies of materials and equipment specified or supplied by others
- f. Equipment and materials supplied by the contractor are warranted only to the extent that the same are warranted by the manufacturer
- g. Sales Tax

4. Clarifications

- a. There may be provisions of the general conditions of the contract to which we take exception and we reserve the right to request changes to the Terms and Conditions.
- b. Utilizing the existing buss duct with a 4000 amp tap box cuts down significantly on labor and the need to disturb the existing switchgear.

8/14/2017

Pricing:

The price to perform Option A is: \$114,925.00

The price to perform Option B is: \$94,739.00

Terms and Conditions of Sale:

Prices quoted are firm for 30 days

Completion of the work must occur within 90 days.

QP Testing's Terms and Conditions apply and are attached.

Payment Terms: Payment is due Net 30 Days

Any delays beyond the control of QP Testing will result in additional costs billed to customer.

Schedule:

Schedule is to be determined in the future.

Thank you for this opportunity to submit our proposal to perform this project.

We hope to be awarded this project and look forward to working with your plant personnel. Please call me if you have any questions.

Sincerely,

Frank Danihel
Business Development Representative

QP Testing
3535 165th Street
Hammond, Indiana 46323
219-228-4196
708-372-5497

SECTION 9.0

DISCUSSION

SECTION 9.1

FACILITIES

IMPROVEMENT PROJECT

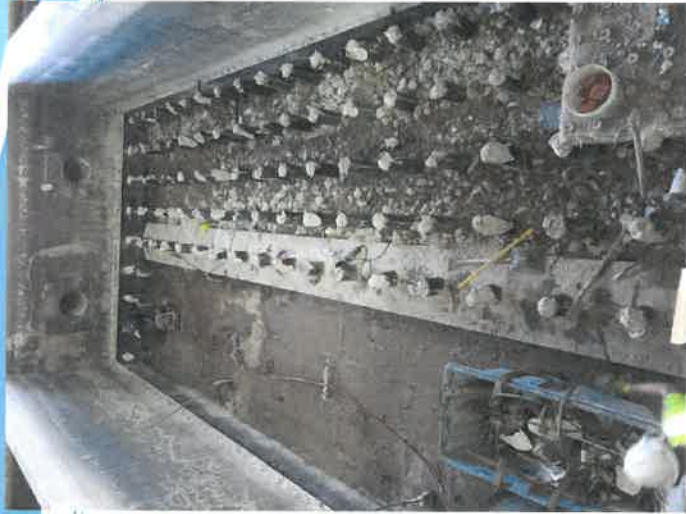
UPDATE

FIP Project Update



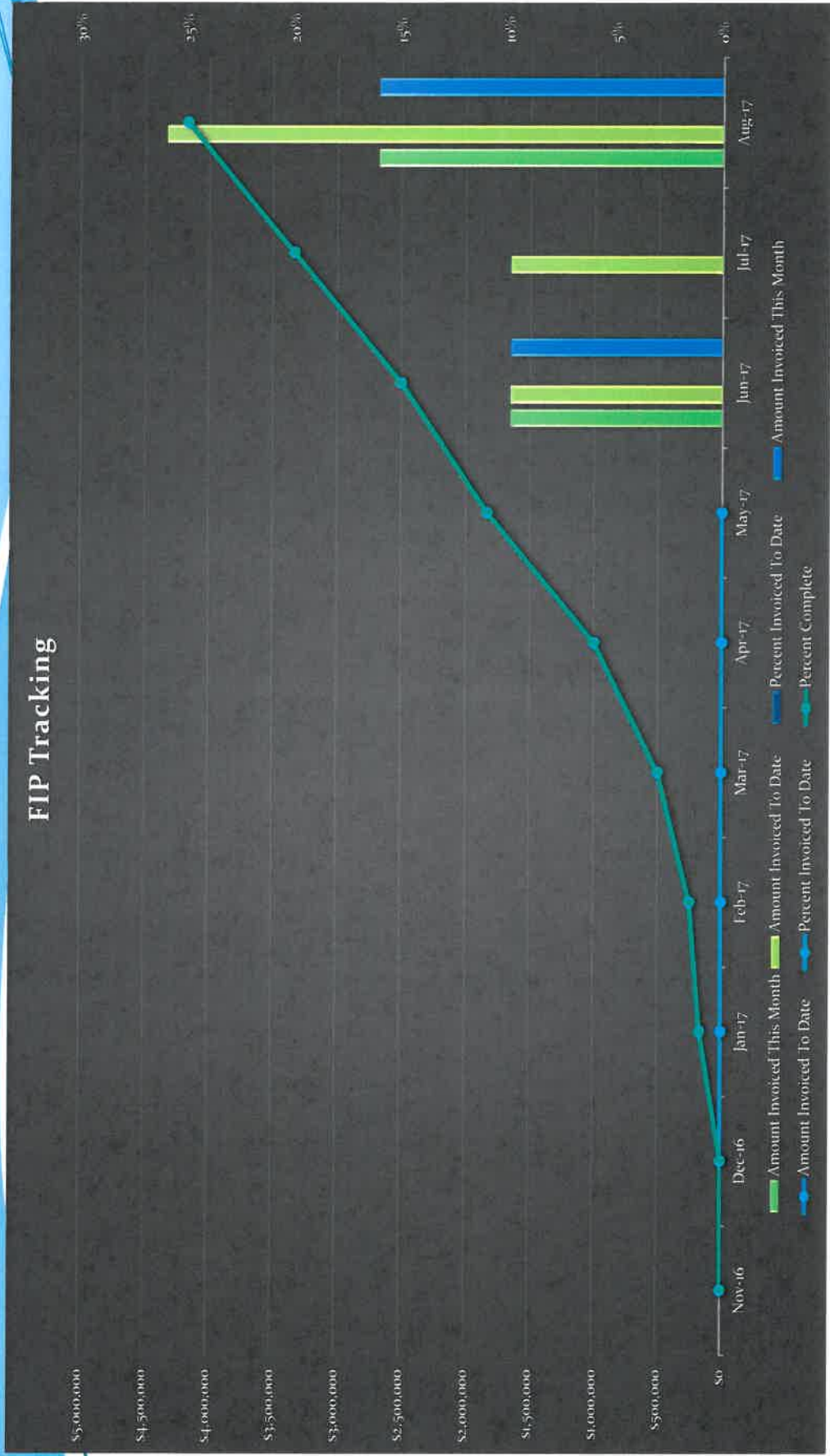
- Work Completed Since Last EOC Meeting
 - Demolishing of Existing Sand Filters
 - Work Associated with New Filter Installation
 - Non-Potable Water Installation Continued
 - Natural Gas Installation Continued
 - 173 Submittals
 - 35 Requests for Information
 - ERS Plan Submitted!
- Work Anticipated Prior to Next EOC Meeting
 - Start New Disk Filter Installation
 - NPW & Natural Gas Line Installation Continued
 - ERS Plan Review/Resolution







FIP Tracking

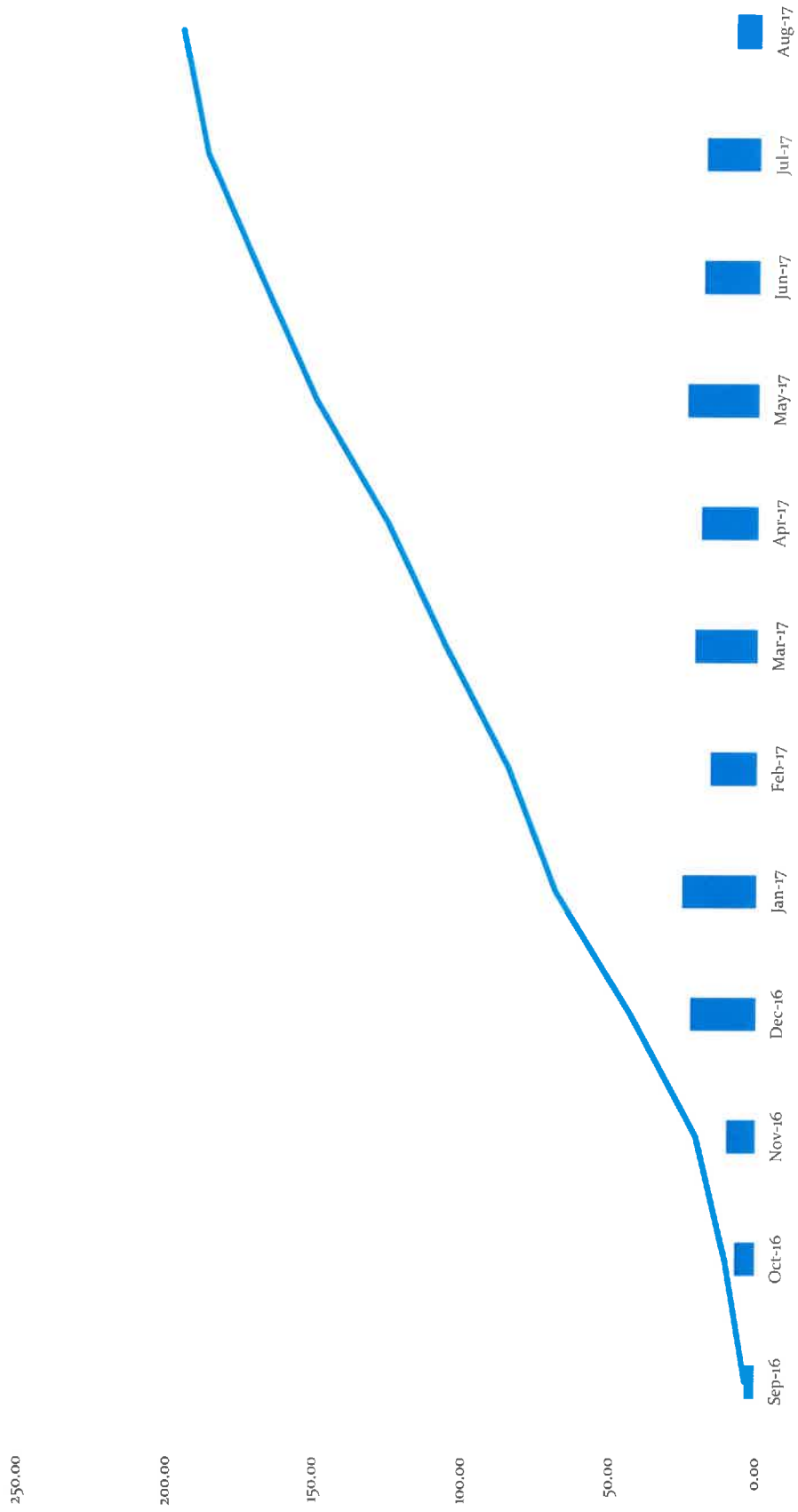


Days Remaining Until Substantial Completion (11/17/2017): 88 Final Completion (12/29/2017): 130



FIP GWA RE Tracking

■ GWA RE Hours — GWA RE Hours To Date



SECTION 9.2

BIOLOGICAL PHOSPHORUS REMOVAL PROJECT – DANISH GRANT SUMMARY & RECOMMENDATION

MEMORANDUM

TO: Executive Oversight Committee
FROM: Erik Lanphier, Executive Director
DATE: August 9, 2017
RE: Executive Summary and Recommendation
for the Danish Grant Offer



The Glenbard Wastewater Authority has been provided with a unique funding opportunity provided by the Danish Ministry of Environment and Food of Denmark, under the Danish Environmental Technology Development and Demonstration Program referred to as "MUDP". The funding pertains to what is being referred to as the Danish project, "Sustainable Glenbard"; this Danish -US Flagship project is intended to showcase the future of sustainable wastewater facilities. The origin of the project came to light as the Authority is a member of the Water Technology Alliance (WTA) which promotes water, wastewater and stormwater technology and information sharing between the United States and Denmark.

On October 3, 2016 authorization was provided to the MUDP to use our data to identify if we would qualify for a grant opportunity. The request pertained to an upcoming Biological Phosphorus project that the Authority had identified due to pending EPA/IEPA phosphorus regulations, with the goal of becoming energy neutral.

November 22, 2016 the Authority was notified that is was eligible to accept the offer of the DKK \$10,000,000 or estimated \$1,500,000 American dollar grant divided over 10 different work packages. Several of these conditions concerned the Authority. The concerns were sent in an email to the MUDP on January 5, 2017 after the Technical Advisory Committee (TAC) agreed on what conditions the Authority would be willing to accept.

Many meetings transpired between Baxter & Woodman and the Authority, Village of Glen Ellyn and Village of Lombard Managers/Finance Directors between January 5 - July 10, 2017.

On July 10, 2017, the Authority received a letter from the Danish Environmental Protection Agency (DEPA), announcing that they have approved the award for a grant for the project.

On Thursday July 27, 2017, the TAC met to discuss numerous items of which this was one. Based on the following it was unanimously decided to **NOT** move forward with accepting the grant or with the Biological Phosphorus Removal Project design scheduled for CY2018 with construction scheduled to take place in 2019-2021.

- * Facilities Improvement Project (FIP) delayed start due to IEPA construction permit approval. Potential for contractor to not meet current substantial completion in November 2017 or Final completion in December 2017. The ERS System claim issue is still ongoing which has hindered the start of the substantial construction of the Raw Pump Station. This is potentially going to result with construction on the FIP taking place during most of the year in 2018, maybe 2019.
- * GWA Electrical Distribution failures during the past year have created a shift in priorities in regard to capital money allocation. The Bio-P project is not required to be completed by the Authority until 2025, the electrical distribution system failures have been identified as the next major improvement to the Authority. We have recommended to the TAC that we reprioritize this project for design in 2018 and construction in 2019. If we do not reprioritize this project the Authority is putting itself in danger of critical electrical distribution failures.
- * The last component to the recommended decision to not accept the grant is the process design within the Work Package 1 (WP1). WP1 is the study currently being completed by Baxter & Woodman as the first step to identify if the process being recommended is feasible or not. The modeling has been completed and the information provided indicated that the original thought of converting tanks to add a side stream treatment for fermentation is only going to partially solve the treatment problem pertaining to “weak” wastewater characteristics. The report indicated that more tank volume and additional carbon would be needed for the process to operate correctly. This information will add cost and complexity to the project that was previously thought to not be needed.

With this information and more to come before the WP1 summary is provided in whole, the Authority recommends to the EOC that we pull back and utilize the time in front of us to evaluate other options for Biological Phosphorus Removal. The Authority staff would like to recommend that we utilize one or two more of our shortlisted firms to provide us with their own studies and recommendations for what the future biological process at Glenbard Wastewater Authority should be. We would like to do this as part of the CY2018 or CY2019 budget year.

In summary Authority staff recommends to the EOC that we 1) politely decline the grant offer for the previously listed reasons, 2) Move forward with two additional studies on the processes that would be recommended by the selected firms in CY2018.

SECTION 9.3

NATURAL GAS AND ELECTRICITY PROCUREMENT RESULTS

SECTION 10.0

OTHER BUSINESS

SECTION 10.1

TECHNICAL ADVISORY COMMITTEE UPDATES



Glenbard Wastewater Authority

21W551 Bemis Road Glen Ellyn, Illinois 60137

Telephone: 630-790-1901 – Fax: 630-858-8119

GWA Standing Technical Advisory Committee (TAC) Meeting

July 27, 2017 9:30a.m. – 10:30a.m.

Minutes

Meeting started at 10:35a.m.

Present Erik Lanphier, Matt Streicher, Julius Hansen, Carl Goldsmith

Discussion took place pertaining to the following topics.

1. FIP Project Discussion –

- a. Filter Update – *Matt provided the committee with an update on the delivery of one filter today with another arriving tomorrow. The 3rd will be arriving during the month of August.*
- b. ERS – Update – *Matt provided a brief update on the work currently progressing. The excavator is falling further behind with utility excavation and install. The ERS system is still pending 3rd party review and the effluent box is the next big step. Also discussed the financial situation with regard to contractor payment and the status of the IEPA loan disbursement. No disbursement has been received to date, and we are not sure when we will receive it.*

2. Demolition of 21W 518 Bemis Rd. House – Update

Recommendation by Greg Dose the Authority's attorney is to reject the bid and ask low bidder number two to hold their price past 60 days. The TAC agreed that the memo should include a table for bidders that indicates the low bid is non-responsive.

3. Ongoing Development of RFQ/RFP For GWA Engineering Shortlist

- a. No Update

4. Co-Gen Demand Load Response proposal

- a. Enernoc
- b. NRG

The Authority staff is recommending deferring this until additional data can be collected addressing our impact to the PLC based on our usage reductions. The TAC agreed that postponing this project is wise until we understand what the impacts of the reduction of electricity will have on the repayment schedule provided by Enernoc.

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Glenbard Wastewater Authority

21W551 Bemis Road Glen Ellyn, Illinois 60137
Telephone: 630-790-1901 – Fax: 630-858-8119

5. Natural Gas and Electricity Locked

- a. Electricity - \$.0274/kWh Energy Only or \$.044/kWh out the door.
 - i. Previously \$.0377
- b. Natural Gas - \$2.78/Dth
 - i. Previously \$4.19/Dth

This information was presented to the TAC along with a graph that I had that showed the impacts of the electricity reductions, but nothing for the gas. The TAC request I present something similar to the EOC that shows how well we did with purchasing the gas as we did with electricity.

6. CIP Pending Agenda Items - Discussion

Briefly discussed the items that we are looking to utilize for the ERS upgrade, along with the expenditures that are upcoming.

7. Co-Gen Bus Duct Repair Proposal Evaluation – Rick Freeman to Present Proceed with recommended proposal – Yes or No

Discussion took place regarding the options that were presented. Matt and I spoke for Rick Freeman who was unable to make the meeting. After analyzing the 3 different options and the options within the options the TAC requested that we select Meade Electrical and opt. for an emergency purchase request from the Village of Glen Ellyn. The Authority staff proceed down that direction and we were denied the request for the emergency purchase. The request was based off of cabling costs and the safety factor regarding the high voltage cabling being strung on the ground. The TAC does recommend proceeding forward with the Meade proposal for cabling in lieu of anything having to do with the Bus Duct. This is not the cheapest solution, but it also not the most expensive solution. It is the right solution and the Authority staff thank the TAC for agreeing to recommend it.



Glenbard Wastewater Authority

21W551 Bemis Road Glen Ellyn, Illinois 60137
Telephone: 630-790-1901 – Fax: 630-858-8119

8. B&W Proposal to Consult Com-ED Energy Back-feed Application Proceed with unbudgeted Consultation and Potential Fees – Yes or No

The TAC agreed with the Authority staff that a back-feed agreement is vital to our continued success with the CHP process. The payback if we can send 50-100 kW back onto the grid is less than a year. It come out to be about \$100/day of savings if we can hold the line on our production.

9. Bio-P Project Danish Grant Funding Opportunity

The TAC was updated with the current information provided from the Bio-P study being performed by Baxter and Woodman and the Danish Hydraulic Institute (DHI). The Work Package 1 (WP1) is still ongoing but we have received the results from the modeling and the layout of the GWA plant is conducive to the design, but the wastewater characteristics do not align. Therefore, the model indicated we would need additional tank volume and additional carbon sources from a third party. This adds significant cost and may end up being the ultimate solution but it is not what we were first led to believe. The TAC was informed of the start dates being September 1, 2017 and the net zero requirement for the Glenbard Plant. To add to the complexity, we reminded them of the electrical failures and the shift in priority for CY2018 & CY2019 pertaining to the electrical distribution system at the Authority. With all of this going on we recommended to the TAC that we politely deny the grant funding and move forward with other more pressing projects. The Bio-P project will be pushed out another year or two, due to the complexities with the FIP and the pending electrical work.

10. Other Business -

Carl asked about the outcome of the Maintenance Superintendent Position, and he was informed that Jon Braga was offered and took the job. We also updated the TAC on the concept of moving Austin up from Maintenance Mechanic II (MMII) to MMI and go out and hire an entry level MMIII. This was agreeable to the TAC and we proceeded forward.

11. Adjourn

Meeting adjourned at 10:45a.m.

Protecting the Environment for Tomorrow

SECTION 10.2

PENDING AGENDA ITEMS



Glenbard Wastewater Authority

21W551 Bemis Road Glen Ellyn, Illinois 60137

Telephone: 630-790-1901 – Fax: 630-858-8119

2017 Pending EOC Agenda Items

Projects	Budget	Date	Status
Capital Improvement Projects			
PLC Purchase for the UV System Project	\$125,000	January	Completed
Biological Phosphorus Removal Project Design	\$850,000	February	\$95,000 Approved 2-9
Balance Remaining	\$755,000	September	Propose to Repurpose
Low Pressure Biogas Storage	\$350,000	September	Propose to Repurpose
Roof Rehabilitation	\$65,000	September	
Administration Building Renovation	\$100,000	August	Propose to Repurpose
Infrastructure Improvement			
Polymer Blending Unit Replacements (2) CY16 & CY17	\$80,000	April	Approved Equipment Ordered
Motor Operated Valves (FOG)	\$100,000	August	Request Pending for FOG Upgrade
Primary Scum Building AHU Purchase – In House Demo & Installation - This work to be completed by others	\$7,965 <\$20,000	Pending	
Electrical Meters	\$50,000	August	Proposed to be utilized for Bus Duct Repair
Plant Fiber Testing & Repairs	\$30,000	Defer to CY18	FIP Delays Influenced
Equipment Rehabilitation			
Moyno Pumps (10)	\$50,000	April	Approved Open

Protecting the Environment for Tomorrow



Glenbard Wastewater Authority

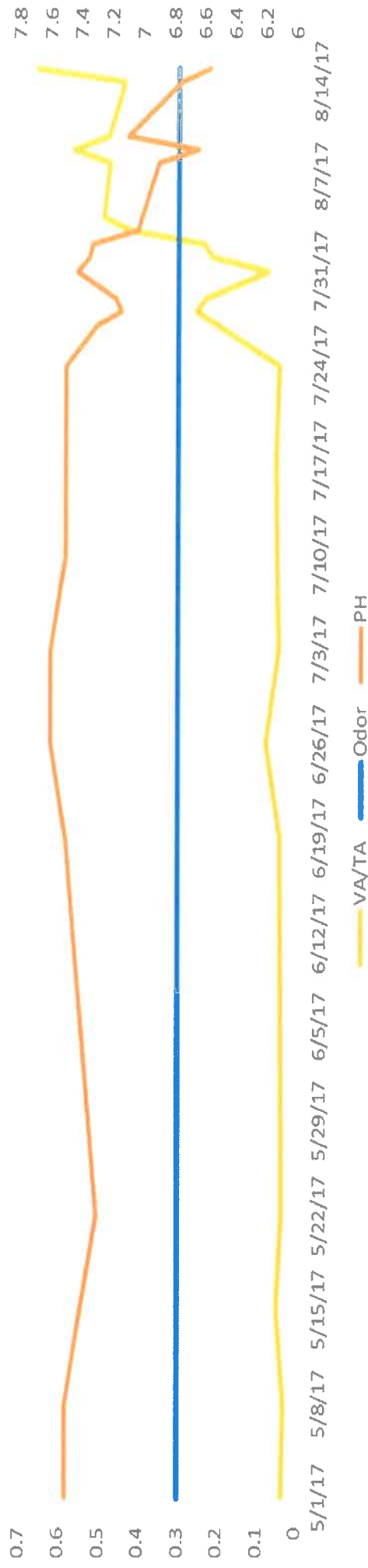
21W551 Bemis Road Glen Ellyn, Illinois 60137
 Telephone: 630-790-1901 – Fax: 630-858-8119

Spare Parts			PO
Televising & Cleaning of NRI & SRI	\$70,000		Repurposed
Int. Clarifier Bridge & Gravity Thickener Bridge & Mechanism Painting	\$100,000		Repurposed
Rolling Stock			
*Electrical Work Van	\$37,000	September	
* Utility Vehicles (2)	\$46,000	August	
Administrative			
Forest Preserve Land Swap	-----		Negotiating Purchase for CY18
Pretreatment Ordinance Recommendation	-----	September	Under Village Legal Review
Close out CHP Project	-----	May	Final Payment Application Received

SECTION 10.3

AUGUST ODOR COMPLAINTS – LOW FLOWS AND PROCESS UPSETS

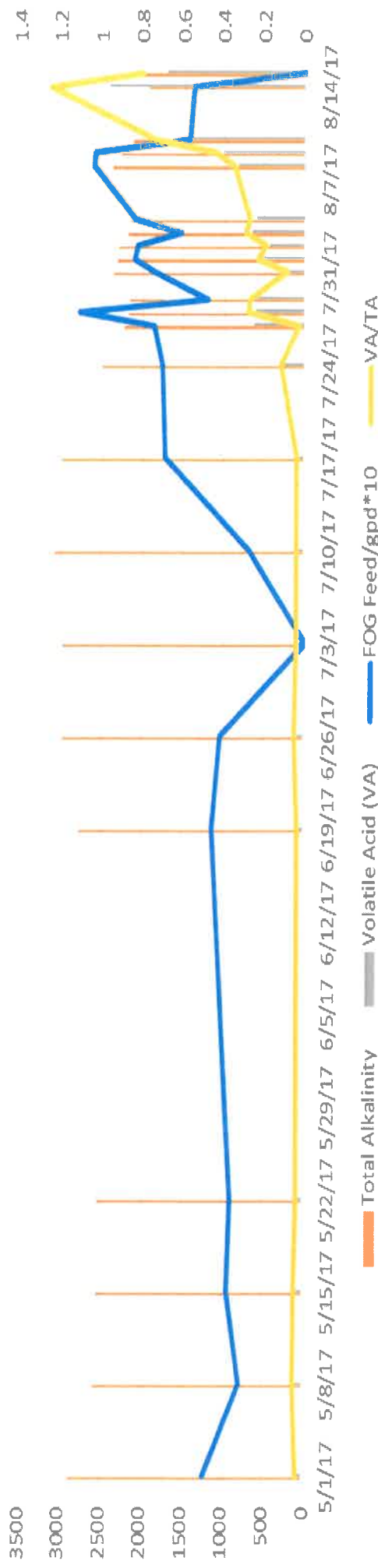
VA/TA Ratio Odor Correlation



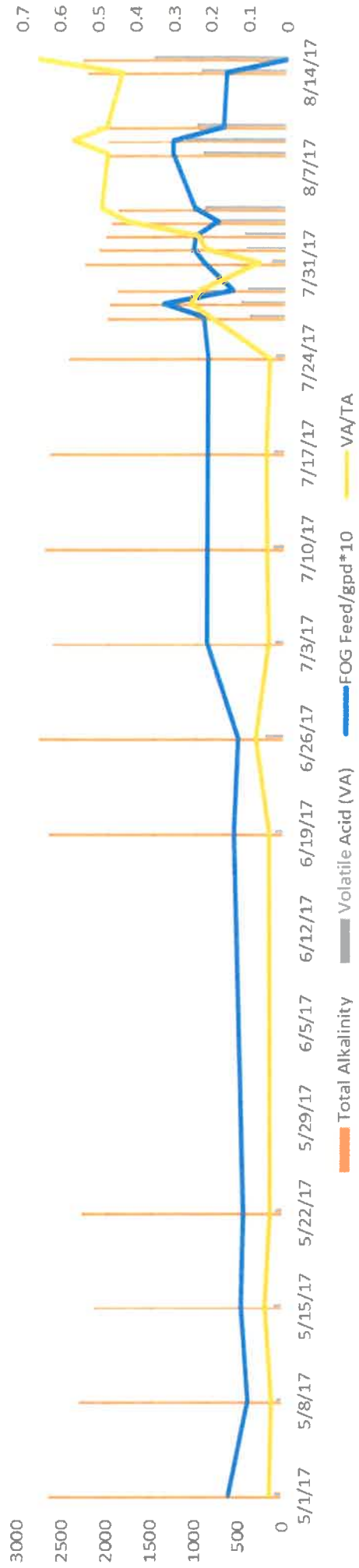
➤ Alkalinity and Acids are the primary components of digester evaluation for process control. The odor that has been indicated in the graph illustrates that when the Volatile Acids/Alkalinity Ratio increases the digesters hit a level where the acids over take the alkalinity. When this happens the digesters put off a rancid smell that takes a significant time to go away. This is called an overloaded situation and to remediate it we need to do the following:

- ❖ As of 8-15-17 we have halted all HSW/FOG haulers
- ❖ Addition of alkalinity into both digesters, purchasing Sodium Bicarbonate (Baking Soda) in large quantities. By August 21st we will have used more than 24,000 lbs. in both digesters.
- ❖ To better regulate flow from the HSW/FOG Station on a 24 hour basis.
- ❖ Reduce flow volumes to match loading capabilities of the digesters (No more than 20,000 gpd)

Digester #1



Digester #2



SECTION 10.4

PRETREATMENT ORDINANCE UPDATE

SECTION 10.5

STORMWATER FACILITY BILLBOARD UPDATE

SECTION 11.0

NEXT EOC MEETING

THURSDAY

SEPTEMBER 14, 2017

AT 8:00 A.M.

SECTION 12.0

EXECUTIVE SESSION