#### GLENBARD WASTEWATER AUTHORITY Executive Oversight Committee Agenda January 9, 2020 8:00 a.m. Meeting will be held at the Glenbard Wastewater Plant 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 part of the months of November 2019 (partial) and December 2019 \$1,194,974.79 (Trustee Christiansen).

- 5.1 Executive Oversight Committee Meeting Minutes: December 4, 2019 EOC Meeting
- 5.2 Vouchers Previously Reviewed by: Partial November 2019 and December 2019 – Trustee Christiansen
- 5.3 Sodium Thiosulfate Contract Award

The Glenbard Wastewater Authority posted the bid notification publicly through an advertisement to bid that was published in the Daily Herald on November 25, 2019. The deadline for receipt of the sealed bids was December 20, 2019 at 11:00 a.m.

After opening the bid documents, reviewing the unit prices, and confirming that all required documentation was present, PVS Minibulk was the lowest responsive, responsible bidder. PVS has been our long-term Sodium Thiosulfate provider due largely in part to the delivery requirements we have mandated and based on their proven performance record and consistent pricing. GWA does not have any reason to deny them award of the new contract. The Authority has been aware that both chemical costs as well as hauling costs have increased significantly since the last time this item was bid, and therefore had included an increased budget amount in the CY2020 budget to anticipate for the higher costs. The low bid of \$2.59/gallon is a 51% increase over the previous price of \$1.72/gallon.

The Operations Staff requests the EOC to allow to award a three-year contract to PVS Chemical, Detroit MI for the purchase and delivery of Liquid Sodium Thiosulfate at \$2.59 per gallon/delivered with the amount expensed to CY2020 O&M Budget 270-1-530440.

5.4 Sodium Hypochlorite Contract Award

The Glenbard Wastewater Authority posted the bid notification publicly through an advertisement to bid that was published in the Daily Herald on November 25, 2019. The deadline for receipt of the sealed bids was December 18, 2019 at 11:00 a.m.

After opening the bid documents, reviewing the unit prices, and confirming that all required documentation was present, Alexander Chemical Corporation was the lowest responsive, responsible bidder. Alexander Chemical has been our Sodium Hypochlorite provider in the past. To date, we do not have any reason to deny them award of the new contract. The previous price the Authority was paying competitively per gallon of Sodium Hypochlorite was \$0.632 to Alexander Chemical Corporation from January 2017 until current. The Authority has been aware that both chemical costs as well as hauling costs have increased significantly since the last time this item was bid, and therefore had included an increased budget amount in the CY2020 budget to anticipate for the higher costs. The low bid of \$0.7101/gallon is a 12.4% increase over the previous price of \$0.632/gallon.

The Operations Staff requests the EOC to allow awarding Alexander Chemical Corporation the 3-year Sodium Hypochlorite supply contract for a unit price of \$0.7101 per gallon delivered. The cost of the Sodium Hypochlorite will be expensed to the Glenbard's Stormwater Plant CY2020 O&M budget line item 270-1-530440.

5.5 Request for Authorization to Enter into Year 4 of 5 of the Lease of Atmospheric Vaporizers and Airgas Liquid Oxygen Hauling Agreement

GWA requests waiver of bids and authorization to continue into year four of the five-year contract for the leasing of atmospheric vaporizers and liquid oxygen hauling with Airgas in CY2020. Liquid Oxygen hauling will be priced at \$0.274/per 100 cubic feet with a base delivery charge of \$15,600, and invoiced to Fund 270-530443 in the CY2020 Budget. Atmospheric Vaporizers Leasing will be priced at \$1,500/month, and invoiced to Fund 40 Capital Plan in the CY2020 Budget.

5.6 Contract Laboratory Services Open Purchase Order Request

The Authority Staff would like to request waiving of competitive bidding requirements per the Village of Glen Ellyn code, 1-10-2: EXCEPTIONS TO COMPETITIVE BIDDING. Per Administrative Order No. 3 Section "D" Professional Services – Section 3 the Authority is required to seek at least three competitive proposals. The request provides support that the Authority has gathered and evaluated three competitive proposals from qualified laboratories.

This request is made due to the specific requirements that need to be met in order for the Authority to properly test our Influent, Effluent, Anaerobic Digester and Land Applied Biosolids samples per the IEPA and EPA specifications. With the EOC's approval, a purchase order will be created under O&M account 270-520806 – Professional Services Laboratory Support for a not to exceed budgeted amount of \$28,500 to be utilized during the 2020 calendar year.

- 6. Discussion
  - 6.1 High Strength Waste Standard Operating Procedure
  - 6.2 Facility Improvement Project Update
  - 6.3 Operations using Solids Retention Time
- 7. Other Business
  - 7.1 Technical Advisory Committee Updates
  - 7.2 Pending Agenda Items
- 8. Next EOC Meeting The next regularly scheduled EOC Meeting is set for Thursday, February 13, 2020 at 8:00 a.m. in the Conference Room at the Glenbard Wastewater Authority, 945 Bemis Road, Glen Ellyn, IL 60137.

## **SECTION 5.0**

## **CONSENT AGENDA**

## **SECTION 5.1**

## MINUTES FROM THE DECEMBER 4, 2019 MEETING

#### GLENBARD WASTEWATER AUTHORITY Executive Oversight Committee Minutes December 4, 2019 Meeting held at the Glenbard Wastewater Plant 945 Bemis Road, Glen Ellyn, IL

Members Present:	
Diane McGinley	President, Village of Glen Ellyn
Keith Giagnorio	President, Village of Lombard
Kelli Christiansen	Trustee, Village of Glen Ellyn
William Ware	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:

Matthew Streicher	Executive Director, GWA
Tom Romza	Assistant Director/Engineer, GWA
Jon Braga	Maintenance Superintendent, 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 Christiansen, Trustee Ware, 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 first half of November 2019 totaling \$445,606.17 (Trustee Christiansen).

Trustee Ware motioned and Mr. Goldsmith seconded the MOTION that the following items on the Consent Agenda be approved. President McGinley, President Giagnorio, Trustee Christiansen, Trustee Ware, Mr. Franz, Mr. Niehaus, Mr. Hansen and Mr. Goldsmith responded "Aye" during a roll vote. The motion carried.

- 5.1 Executive Oversight Committee Meeting Minutes:
  - o November 12, 2019 EOC Meeting

### 5.2 Vouchers previously reviewed by Trustee Christianseno November 2019 - Partial

*Mr.* Streicher advised the EOC Committee that a small amendment to the CHP Media purchase which was approved at the November 12, 2019 meeting was being processed with Mr. Franz's approval. Mr. Streicher stated that the change was due to a miscalculation in the amount of the material ordered versus what was quoted and the amount of the adjustment was approximately \$1,500.

6. Approval of contract with Trotter & Associates, Inc. for the Biosolids Dewatering Improvements Project Design Engineering

In October 2019 Authority staff developed and sent out a request for qualifications and technical proposals to our six shortlisted professional consulting firms for Design Engineering Services pertaining to the Biosolids Dewatering Improvements Project. The due date for the proposals was November 8, 2019.

The Authority received five sets of qualifications and technical proposals in response to the RFP that was sent out, at which point staff performed an initial review, and narrowed it down to two firms to invite for formal interviews. A member of the TAC, as well as Authority staff, participated in the interviews, and after a process of evaluation and elimination selected Trotter & Associates, Inc. to perform the design work.

It is recommended the EOC authorize the Authority to award Trotter & Associates, Inc. the Biosolids Dewatering Improvements Project Design Engineering Services in the amount not to exceed **\$472,300**, which includes \$202,600 for the design of a thermal hydrolysis system. The Thermal Hydrolysis Design Phase shall be utilized only as authorized in writing by the Executive Director. If the Authority elects not to proceed with design of the thermal hydrolysis process following the evaluation phase, this fee will be removed from the scope, reducing the total not to exceed amount to \$269,700. This amount will be taken out of the designated amount in CY2020 Approved Budget, Fund 40 Capital, which has a \$330,000 budget number currently.

Mr. Romza advised that proposals from five (5) of the six (6) engineering firms on GWA's short list were received. Mr. Romza continued by stating that after reviews and presentations by the two (2) finalists, Donahue and Trotter & Associates, to GWA staff and Mr. Goldsmith, the decision to award the contract to Trotter & Associates was made. Mr. Romza explained that the purpose of the two (2) different proposals offers a choice, in that the Thermal Hydrolysis evaluation is costly, but would help determine if a thermal hydrolysis system would be beneficial and provide a reasonable return on investment. Mr. Romza added that the fee for designing this part of the project would be eliminated from the overall project fee if the evaluation determined the process to not be beneficial.

President McGinley asked for opinions on whether or not to include the thermal hydrolysis evaluation in the design. Mr. Streicher indicated that it will be included, but the question is to approve a request either for the fixed fee of \$472,300 or a time and material not to exceed fee of \$494,300. Mr. Streicher recommended the fixed fee to save on overall costs.

Mr. Goldsmith asked Mr. Streicher to explain why, in essence, two projects are being combined at this point in time. Mr. Romza advised that there is a tight deadline to have the design completed and approved by the EOC Committee and gather the necessary Resolutions the Village Boards would need to provide, if GWA wants to submit the project to the IEPA in the hopes of receiving SRF funds to finance the project.

*Mr. Franz asked what the estimated total cost of the Biosolids dewatering improvement project was. Mr. Streicher indicated \$2 million dollars and noted that if the decision is made to add thermal hydrolysis to the project the overall project cost would be doubled to \$4 million.* 

*Mr.* Goldsmith sought confirmation that if Trotter shows that the thermal hydrolysis is not viable the fee for the design of this would be eliminated without any penalties. Mr. Streicher and Mr. Romza both confirmed GWA would not be liable for the unused design fee.

President Giagnorio motioned and Mr. Goldsmith seconded the Motion to approve the contract award to Trotter & Associates for the Biosolids Dewatering Improvements Project Design Engineering Services in the fixed fee amount of \$472,300.00. The funds will be allocated from the CY2019 Capital Improvement fund 40-580150. President McGinley, President Giagnorio, Trustee Christiansen, Trustee Ware, Mr. Franz, Mr. Niehaus, Mr. Goldsmith, and Mr. Hansen responded "Aye" during a roll vote. The motion carried.

7. Request for Flow Meter Contract Approval

The Glenbard Wastewater Authority (GWA) has received proposals for flow monitoring services for the installation, operation, maintenance, monitoring, and leasing of seventeen (17) flow meters and five (5) rain gauges (lease only four [4] rain gauges) to be located throughout GWA's owned interceptors. The main purpose of these meters is to determine the flow splits between the two owning Villages in order to properly bill each Village for the treatment of their wastewater.

For the past three years, GWA has been utilizing RJN Group for ownership, operation, maintenance, data analysis, and reporting on the flow meters and rain gauges. According to the existing contract, GWA is paying \$10,149 per month, or \$121,788 per year for these services. Request for proposals were sent to three professional services; ADS, RJN Group, and Baxter & Woodman. ADS and RJN both submitted for the next three years of the same services, while Baxter and Woodman declined to propose. In addition, GWA asked for a price for hydraulic modeling of the sewer system to be included in the proposal, as the manager of the flow meter network would have a distinct advantage for creating a hydraulic model of GWA interceptors. As seen in the below table, GWA had budgeted \$132,000/year for monitoring and maintenance services, and \$60,000 in CY2020 for a hydraulic model.

The proposal costs were as follows:

Line Item	Item Description	Engineer Est. Unit Price	Extension	ADS Environmental Unit Price	Extension	RJN Group Unit Price	Extension
1	Flow Monitoring	\$ 132,000.00	\$ 396,000.00	\$ 103,344.00	\$310,032.00	\$115,788.00	\$ 347,364.00
2	Hydraulic Modeling	\$ 60,000.00	\$ 60,000.00	\$ 132,367.00	\$132,367.00	\$ 43,600.00	\$ 43,600.00
Base Bid Total:			\$ 456,000.00		\$442,399.00		\$ 390,964.00

Although the RFP was written to base selection of the contractor on the annual cost of the flow monitoring services, due to the qualifications provided for the hydraulic modeling, and the drastic price difference in that modeling, GWA has taken RJN's proposal into consideration. Certain benefits other than cost have been taken into consideration; such as both member Village's relationship and current work with RJN, no downtime required to switch out equipment (which could impact the reporting of flow), past quality of data and service provided by ADS, as well as the ability to have better continuity in the hydraulic modeling that would benefit both member Villages.

Due to the above reasons, the TAC came to a consensus, and it is recommended to authorize GWA to award RJN Group, Inc. the contract for flow monitoring services for the period 2020-2022. The contract provides that GWA will issue a one-year contract with two (2) option years based upon the proposals submitted. The EOC will need to authorize years 2 and 3 of the contract based upon RJN's performance. In the event that RJN does not meet certain performance measures, GWA can withdraw from the contract with no consequence.

Motion the EOC to authorize the Authority to award RJN Group of Wheaton, IL the budgeted three (3) year Flow Services Contract in the amount of \$9,649 per month. Invoiced to CY2020 O&M account number 270-520981.

Mr. Streicher stated that the flow metering is handled by an independent third party for the sake of transparency and so there is no potential bias. RJN's three (3) year contract is due to expire in January 2020. Mr. Streicher added that when he first joined GWA in 2016, one of the first contract renewals he was tasked with handling was the flow monitoring contract; which, he learned the same vendor had been providing the service for sixteen (16) years as GWA staff was not aware that there were other companies that could provide this service. Therefore, proposals were requested from firms for a new three-year contract, and the process resulted in selecting RJN. Mr. Streicher indicated that for the next three-year contract to start in CY2020, proposals were sent out to three vendors; ADS Environmental, RJN and Baxter & Woodman, with the latter opting to not submit a proposal. Mr. Streicher stated that while the request for proposals was sent out as a commodities-based proposal, the scope of the work is more in line with being categorized as professional services and as such, explained that while ADS was lowest bid, there is some hesitancy by the TAC to contract with them again. Mr. Streicher indicated that their performance in the past when it came to verifying accuracy of data and response to repair calls for down meters was significantly longer than RJN has been. Mr. Streicher noted that the TAC discussed how after RJN took over, there was a noticeable difference in the flow data being received, which led to speculation that ADS was not performing proper QA/QC. In addition, RJN's office is based in Wheaton

allowing them to address maintenance issues with the meters in a very timely manner. Mr. Streicher did indicate that while the proposal did not state that contract would be awarded based on the hydraulic modeling pricing, when adding this component to the flow monitoring component, RJN's pricing is considerably lower than ADS Environmental. Mr. Streicher stated that based on the quality of service from RJN and their proposed pricing for the additional hydraulic modeling pricing, the TAC is comfortable making the recommendation to award the flow monitoring services contract to RJN Group.

Mr. Goldsmith motioned to waive competitive bidding and award the flow services contract to RJN Group of Wheaton, IL the budgeted three (3) year Flow Services Contract in the amount of \$9,649.00 per month and Trustee Ware seconded the Motion. Services will be invoiced to CY2020 O&M account 270-520981 President McGinley, President Giagnorio, Trustee Christiansen, Trustee Ware, Mr. Franz, Mr. Niehaus, Mr. Goldsmith, and Mr. Hansen responded "Aye" during a roll vote. The motion carried.

#### 8. Discussion

8.1 Facility Improvement Project

*Mr.* Romza advised that since the last meeting there has been some important progress on the project with the most recent news being the pouring of the top slab for the new lift station. Mr. Romza indicated that there is still plenty of concrete work to be done, but the work has been consistently moving forward in the past few months. Mr. Romza stated that there are still a few issues such as still by-pass pumping at a rate that exceeds the 960 gallons per minute; which GWA will be responsible for, even after the purchase of the by-pass pumps, which Boller is stating is \$550,000; however, he and Mr. Streicher have calculated the cost is more along the lines of \$250,000. Mr. Romza added that the meeting to discuss the costs has yet to take place and the TAC members will be invited to attend.

Mr. Franz asked how much longer will Boller need to dewater the site. Mr. Romza advised that once the area as been backfilled, the dewatering will cease. Mr. Franz asked when the backfilling would take place. Mr. Romza indicated that the process will begin soon, but it will be time consuming as Boller will have to first patch the holes where the temporary support beams were with concrete, allow that to cure then backfill and repeat this step multiple times until all of the holes are patched. Mr. Franz asked if 60 to 90 days was an appropriate expectation. Mr. Romza indicated that 90 days is more accurate.

Mr. Franz asked if Boller was stilling holding to the July date for completion. Mr. Romza advised they were. Mr. Franz asked if Mr. Romza felt they would meet that date. Mr. Romza advised that as long as no additional delays were encountered, Boller should be able to meet the deadline date. Mr. Franz asked if once the hole was backfilled, would the project be more of a straight forward push to the end. Mr. Romza indicated that there will still be a lot of work to completed as the next phase involves the installation of pumps, and making sure they operate as designed and all of the controls are programmed and operating properly, which is the more difficult part when compared to how easy pouring concrete should have been and feels there should not be any further unexpected costs. Mr. Hansen asked if there will costs associated with the purchase of equipment to be yet to be installed such as pumps. Mr. Streicher indicated that most of MCC's, transformers and pumps had long lead-times and were ordered at the beginning of the project and are already onsite awaiting installation; so, there should not be any unexpected purchases in that regard.

*Mr.* Streicher noted that with regards to the completion schedule, the plant will have to go through six (6) complete shutdowns at night for the installation of equipment and the shutdowns will depend on weather and flow conditions, which could impact when shutdowns can take place. Mr. Streicher indicated that the first shut down is scheduled for late March; with March to June being unpredictable with regards to rain, the plant may only be able to be shutdown for two (2) hours and Boller will need an eight (8) hour window for each shutdown. Mr. Streicher stated they will have to review the wording in the contract as he believes there are allowances for some delay under these conditions; however, Boller should have had enough buffer built into their schedule to allow for GWA to say a shutdown cannot take place.

*Mr. Franz asked if this was something that GWA needed to start working with Black & Veatch to work the shutdowns into the schedule now instead of waiting. President McGinley agreed with Mr. Franz.* 

*Mr.* Romza advised that letters have been sent to Boller regarding the assessment of liquidated damages in the amount of \$2,000 per day began on the missed substantial completion date of October 11, 2019 and as the final completion date of November 20, 2019 was also missed an additional \$2,000 per day was being charged from that date forward, meaning a total of \$4,000 per day since November 20<sup>th</sup> is being accrued. Mr. Romza stated response letters were received from Boller acknowledging the assessment of liquated damages and advising that they intend to seek reimbursement of excess by-pass pumping charges and exceptions for excusable works delays as allowed for in the contract. Mr. Niehaus summarized that both sides have basically drawn a line in the sand and fully expects negotiations to have to take place. Mr. Niehaus also stated that he is not opposed to reaching out to Roger McCarron and using his expertise to negotiate an equitable resolution as he has done in the past.

#### 8.2 Property Acquisitions Update

Mr. Streicher indicated that the purchase on the Sunnybrook property has been completed and discussions have not yet started with the property owners whose home is located on the north side of the property line, next to the GWA parking lot. Mr. Streicher added that GWA became aware of a property located on Danby Drive which borders the west side of the plant; and the TAC recommended getting an appraisal for the property, which appraised at \$350,000, and bringing a discussion to the EOC Committee to garner a consensus about the benefit of purchasing this or any other properties on Danby Drive. Mr. Streicher indicated that a decision was reached by the TAC to not pursue purchasing any of these homes as the parcels are small, downhill of the plant and would only be able to serve as a buffer for odors which would be more expensive than purchasing an odor control system. Mr. Streicher added that the Facility Plan did recommend purchasing the three (3) properties located on the north side Bemis Road that face the plant, as they could prove beneficial if/when the plant needs to build a process for biological nutrient removal without interrupting the operation of the plant during construction.

President McGinley asked if it is possible to declare any of the current vacant land surrounding the plant as unbuildable due to odor issues. Mr. Streicher asked the question himself of how a development of million dollars homes could be approved a stone's throw from a wastewater treatment plant knowing the potential for odors.

*Mr.* Niehaus stated that it would be considered as a legal taking of someone's property, and would be paramount to eminent domain.

*Mr.* Franz stated that over the last ten (10) years, other than the odor issue of 2017, there have been no real issues in the neighborhood. President McGinley indicated that she feels that the situation will change as weather patterns change.

Mr. Streicher indicated that his main reason to focus on the properties on the north side of Bemis Road is to allow the plant to operate uninterrupted and use the land to build the new process as using virgin ground will be less costly than trying to build somewhere on the existing plant property and allow for nominal interruption in the daily operation of the plant during the construction process.

Ms. Lendabarker contributed that during her time at GWA, the heightened awareness and the increase in odors complaints directly correlates to the digester upset in 2017 as neighbors are quick view the slightest odor as being caused by the FOG intake and do not have a direct border with the plant; while in the past, the neighbors who complained had properties that directly bordered the plant and were aware of, and understood the seasonal cause of the odor. Mr. Streicher agreed that perception does play into the situation as neighbors still threaten to call the news and then it rains and the odors dissipate so they have a false sense that GWA did something to "fix" the problem after being threatened.

*Mr. Franz expressed concerns about building on the target properties if acquired fearing the perception will be "GWA is building the plant closer to us" and believes there will be significant push back from the residents as a result. Mr. Goldsmith offered that the flip side would be that the current Admin building be knocked down, the process built in its place and the Admin building moved across the street, which would substantially decrease construction costs. Mr. Streicher did advise that we are looking ten (10) to fifteen (15) years out and that there is time to evaluation options.* 

- 9. Other Business
  - 9.1 Technical Advisory Committee Updates
  - 9.2 Pending Agenda Items

*Mr.* Streicher indicated that most items on the pending list were completed and a new list will be created starting in 2020.

- 9.3 2020 EOC Meeting Schedule Mr. Streicher indicated that while the schedule does reflect a monthly meeting, it is easier to set the schedule and cancel meetings if they are not needed than to try and schedule one on short notice if something needs approval quickly.
- Next EOC Meeting The next regularly scheduled EOC Meeting is set for Thursday, January 9, 2020 at 8:00 a.m. The January EOC meeting will still be held in the Conference Room at the Glenbard Wastewater Authority, 945 Bemis Road, Glen Ellyn, IL 60137.

Mr. Niehaus moved to adjourn the December 4, 2019 EOC Meeting and Trustee Ware seconded the MOTION. President McGinley, President Giagnorio, Trustee Christiansen, Trustee Ware, Mr. Franz, Mr. Niehaus, Mr. Goldsmith, and Mr. Hansen responded "Aye" during a roll vote. The motion carried. The meeting adjourned at 8:29 a.m.

11. Executive Session – Materials Provided under separate cover

Motion the EOC to adjourn to Executive Session for the purposes of approving previous Executive Session Minutes and discussing Personnel Matters relating to specific employees pursuant to 5 ILCS 120/2 (C)(1) & collective negotiating matters or deliberations on salary schedules for one or more classes of employees pursuant to 5 ILCS 120/2 (C)(2).

Submitted by:

Gayle A. Lendabarker GWA Administrative Secretary

## **SECTION 5.2**

VOUCHERS NOVEMBR 2019 – PARTIAL DECEMBER 2019

\$ 1 104 074 70	GRAND TOTAL				
S 192,485.32	\$ 64,839.31	63,435.46	55 S	64,210.	Total Payroll <u>S</u>
	\$ 4,065.66	4,067.94	\$ 50	4,106.	Social Security/Medicare Tax Withheld - Employer portion \$
	\$ 4,623.40	3,677.91	25 S	3,716.	IMRF - Employer contribution \$
	\$ 18,799.91	18,364.37	72 \$	18,712.	Employee Deductions* \$
					Employee & Employer Payroll Deductions:
	S 37,350.34	37,325.24	S  S	37,675.	Net Employee Payroll Checks <u>5</u>
	January 3, 20020	ember 20, 2019	19 Dec	ecember 6, 20	PAYROLL EXPENDITURES: D
\$1,002,489.47	Warrant Total	1,002,489.47	s		
		98,898.53	\$ 610	12/30/20	Accounts Payable Warrant 1219-2
		736,666.79	\$ 610	12/19/20	Accounts Payable Warrant 1219-1
		166,924.15	\$ 610	11/27/20	Accounts Payable Warrant 1119-2
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VENDOR INVOICE	LIST						
INVOICE P.O.	INV DATE VOUC	HER WARRANT	CHECK #	INVOICE NET	DUE DATE TYPE	STS	INVOICE DESCRIPTION
293 VILLAGE OF GLEN	ELLYN						
IFT-181	11/26/2019	1119-2	2633	14,035.50	11/26/2019 DIR	PO	MONTHLY IFT TRANSFER
1268 JP MORGAN CHASE	NA						
BRAJ-26	11/05/2019	1119-2	2634	129.00	11/26/2019 DIR	PD	DULUTH TRADING-UNIFORMS
LENG-79	11/05/2019	1119-2	2635	60.00	11/26/2019 DIR	В	CHICAGO TRIB - SUBSCRIPTI
LENG-80	11/05/2019	1119-2	2636	85.00	11/26/2019 DIR	PD	SAMS CLUB - MEMBERSHIPS
LENG-82	11/05/2019	1119-2	2637	176.16	11/26/2019 DIR	PD	AT&T 09/19 & 10/19 CHARG
LENG-81	11/05/2019	1119-2	2638	30.00	11/26/2019 DIR	99	CSWEA - CONFERENCE REGIST
LENG-83	11/05/2019	1119-2	2639	233.31	11/26/2019 DIR	PD	ACCO BRANDS - CALENDARS/P
LENG-84	11/05/2019	1119-2	2640	129.40	11/26/2019 DIR	8	KEURIG GREEN MT - COFFEE/
FREE-25	11/05/2019	1119-2	2641	1,624.98	11/26/2019 DIR	PO	BEST BUY - LAPTOP
FREE-26	11/05/2019	1119-2	2642	118.70	11/26/2019 DIR	В	EBAY - PHOTOEYES; PHOTOBE
FREE-27	11/05/2019	1119-2	2643	89.91	11/26/2019 DIR	90	DRIVER BITS
FREE-28	11/05/2019	1119-2	2644	199.99	11/26/2019 DIR	90	WINDOWS SOFTWARE
FREE-29	11/05/2019	1119-2	2645	94.95	11/26/2019 DIR	PO	MICROSOFT - ONLINE SERVIC
G000-12	11/05/2019	1119-2	2646	-3.95	11/26/2019 CRM	PB	ARDMORE FLORIST - FLOWERS
G00D-13	11/05/2019	1119-2	2647	2.14	11/26/2019 DIR	PO	MCDONALOS - INADVERTANT C
881 AIRGAS, INC							
9500564249 9500564466	11/16/2019 11/23/2019	1119-2 1119-2	958720 958720	3,115.78 7,550.00	11/26/2019 INV 11/26/2019 INV	PD	#2024961-LIQUID OXYGEN - #2024961-LIQUID OXYGEN -
958 BAXTER & WOODMAN	V, INC.			10,665.78			
209676	11/15/2019	1119-2	958721	1,827.50	11/26/2019 INV	PD	PROJj #190974.3-NPDES PER
819 UNITED COMMUNICA	ATIONS						
151957	11/15/2019	1119-2	958722	924.93	11/26/2019 INV	PD	#1209792-phone svc - nov/
37 CDW GOVERNMENT,	INC.						
VTC7673	11/15/2019	1119-2	958723	100.54	11/26/2019 INV	PD	#4019735-COMPUTER SOFTWAR
768 CINTAS FIRST AID	o & SAFETY						

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Intensity   Intensity <t< th=""><th>VENDOR INVOICE LI</th><th>ST</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	VENDOR INVOICE LI	ST							
1218   CULLY ELWANG CO.   1119-2   95873   193.00   11174/2019   1119-2   95875   193.00   11176/2019   IN   REVIEW     193.00   DEECT ENEGY MARETING, THC.   1119-2   95872   62,134.29   11126/2019   IN   REVERTED REPORTED REPORT   1112-2   958731   21,210.00   11126/2019   IN   REVERENCE STRUCTS REPORTED R	ENVOICE P.O. 8404391229	INV DATE VOUCHER 11/15/2019	WARRANT 1119-2	CHECK # 958724	INVOICE NET 144.95	DUE DATE 11/26/2019	INV	PD	INVOICE DESCRIPTION #10127979-MONTHLY FIRST A
18881-A   10/01/2019   1119-2   98725   198.00   11/26/2019   10   RE2155   ELEVATOR SVC     94   UBECT ENERGY MARETING, INC.   111-4/2019   1119-2   985725   62,114.29   11/26/2019   10   RE2155   ELEVATOR SVC     1931.0000393110   11/14/2019   1119-2   985725   62,114.29   11/26/2019   IN   R0   R1152328-ELECTRIC USAGE     1931.0000393110   11/14/2019   1119-2   985725   998.00   11/26/2019   IN   R0   R1152328-ELECTRIC USAGE     1931.000393110   11/14/2019   1119-2   985725   985725   998.00   11/26/2019   IN   R0   RELEO2-ENTRANCE GATE REP     1120   AST CONSULTING INC.   1119-2   985721   958720   10.00   11/26/2019   IN   R0   CONF/TRADESHOW UNCO ISTER     1137   GA STCOMBER FREMAN   111/02/2019   1119-2   958731   2,120.00   11/26/2019   IN   R0   CONF/TRADESHOW UNCO ISTER   RE     11314   G.P. MATTEAMEER   111/02/2019 <td< td=""><td>1218 COLLEY ELEVATOR CO</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	1218 COLLEY ELEVATOR CO								
99 DIRECT ENERGY MARKETTING, INC.   1119-2   958726   62,134.29   11/26/2019   IN   P     19318000291310   11/1/2019   1119-2   958726   62,134.29   11/26/2019   IN   P     19318000291310   11/1/2019   1119-2   958727   10.00   11/26/2019   IN   P   115228-ELECTRIC UNGA STIPOL     1290   AST CONSULTING INC.   1119-2   958727   958.00   11/26/2019   IN   P   RELORED FREMAR   P     1290   AST CONSULTING INC.   1119-2   958729   650.00   11/26/2019   IN   P   RELO2-ENTRANCE AND 7019     1276   PLANTERANCE INC.   1119-2   958731   2,320.00   11/26/2019   IN   P   RELOR-ENTRANCE AND 7019     1317   GOUSTINE, SKROUZEL, RUSSLAW, NEWEC AND 10F F LTD.   1119-2   958731   2,320.00   11/26/2019   IN   P   814918- LEGA, SNCS PROPER     1314   G.P. MAINTENANCE SERVICES, INC.   1119-2   958733   2,320.00   11/26/2019   IN   P   801764762-ANINTE SINGLAW, SNCS PROPER	188981-A	10/01/2019	1119-2	958725	198.00	11/26/2019	INV	PD	#BE2155 - ELEVATOR SVC -
193180040293330   11/14/2019   1119-2   958725   62,134.29   11/26/2019   IN   P     21396   11/21/2019   1119-2   958727   10.00   11/26/2019   IN   P   115222.5 ELECTRIC USAGE     21396   11/21/2019   1119-2   958727   10.00   11/26/2019   IN   P   REELEMENT     7527   11/20/2019   1119-2   958729   650.00   11/26/2019   IN   P   REELEMENT     1290   AST CONSULTING INC.   1119-2   958729   650.00   11/26/2019   IN   P   REELEMENT   P   REELEMENT   P   REELEMENT   P   P   REELEMENT   P   P   REELEMENT   P   P   REELEMENT   P <t< td=""><td>994 DIRECT ENERGY MARK</td><td>ETING, INC.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	994 DIRECT ENERGY MARK	ETING, INC.							
420   PHILIP DZIENTOR   11/21/2019   1119-2   958727   10.00   11/26/2019   IN   Conference of the control of the conference of the confere	193180040291310	11/14/2019	1119-2	958726	62,134.29	11/26/2019	INV	PD	#1152328-ELECTRIC USAGE -
21396   11/21/2019   1119-2   958727   10.00   11/26/2019   10   00   11/26/2019   10   00 <td>420 PHILLIP DZIEWIOR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	420 PHILLIP DZIEWIOR								
827 ELECTRICAL CONTRACTORS, TWC.   1119-2   958728   998.00   11/26/2019   IN   P     1250   AST CONSULTING LWC.   11/4/2019   1119-2   958728   998.00   11/26/2019   IN   P   RELEVANCE REP     1276   11/20/2019   1119-2   958729   650.00   11/26/2019   IN   P   RELEVANCE AND FORE MARK     1376   11/21/2019   1119-2   958731   21,50.00   11/26/2019   IN   PD   Conf/TRADESHOW LUNCH STEP     1307   COLOSTINE, SKROUXKI, NEWEC AND POF LITD.   1119-2   958731   21,50.00   11/26/2019   IN   PD   RAJELEGA SVCS PROPER     1314   C.P. MAINTENANCE SERVICES, INC.   1119-2   958733   21,50.00   11/26/2019   IN   PD   RAJELEGA SVCS PROPER     1314   C.P. MAINTENANCE SERVICES, INC.   1119-2   958733   21,50.00   11/26/2019   IN   PD   RAJELEGA SVCS PROPER     1314   C.P. MAINTENANCE NUCL   1119-2   958733   21,50.00   11/26/2019   IN   PD   8001/64762-AMIN	21396	11/21/2019	1119-2	958727	10.00	11/26/2019	INV	PD	CONFERENCE LUNCH STIPDEN
73527   11/14/2019   1119-2   958/72   998.00   11/26/2019   100   etcle	827 ELECTRICAL CONTRAC	TORS, INC.							
1290 AST CONSULTING INC.     1276   11/20/2019   1119-2   958729   650.00   11/26/2019   NO   SEE TRAINING NOC NOC NO     483 RECHARD FREEMAV   11/21/2019   1119-2   958730   10.00   11/26/2019   NO   SEE TRAINING NOC	73527	11/14/2019	1119-2	958728	998.00	11/26/2019	INV	PD	#GLE102-ENTRANCE GATE REP
1276   11/20/2019   1119-2   958729   650.00   11/26/2019   10   651.00   11/26/2019   10     1397   11/21/2019   1119-2   958730   10.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   60.00   11/26/2019   10   80.0266762   20.00   11/26/2019   10   80.0266762   20.00   11/26/2019   10   80.0266762   20.00   11/26/2019   10   80.0266762   20.00   11/26/2019   10   80.0266762   20.00   11/26/2019   10   80.0266762   20.00	1290 AST CONSULTING INC								
483 RICHARD FREEMAN     21397   11/21/2019   1119-2   958730   10.00   11/26/2019   IN     1072   GOLOSTINE, SKRODZKI, RUSSIAW, NEMEC AND   HOFF LTD.   1119-2   958731   2,150.00   11/26/2019   IN   FI     148438   11/06/2019   1119-2   958731   2,150.00   11/26/2019   IN   FI     148438   11/06/2019   1119-2   958731   2,150.00   11/26/2019   IN   FI     1314   G.P. MAINTENANCE SERVICES, INC.   II19-2   958733   2,670.00   11/26/2019   IN   FI     2050   2019011   11/20/2019   II19-2   958733   2,970.00   11/26/2019   IN   FI     2057   W.W. GRAINGER, INC.   II1/14/2019   II19-2   958733   2,570   11/26/2019   IN   FI   FI <t< td=""><td>1276</td><td>11/20/2019</td><td>1119-2</td><td>958729</td><td>650.00</td><td>11/26/2019</td><td>INV</td><td>PD</td><td>CSE TRAINING - NOV 2019</td></t<>	1276	11/20/2019	1119-2	958729	650.00	11/26/2019	INV	PD	CSE TRAINING - NOV 2019
21397   11/11/2019   1119-2   958730   10.00   11/26/2019   IN   CONF/TRADESHOW LINCH SUPPLIES     148438   11/06/2019   1119-2   958731   2.1500.00   11/26/2019   IN   PD     1314   G.P. MAINTEMANCE SERVICES. INC.   1119-2   958731   2.1500.00   11/26/2019   IN   PD   #14918-1.EGA SVCS PROPER     1314   G.P. MAINTEMANCE SERVICES. INC.   1119-2   958732   4.970.00   11/26/2019   IN   PD   #14918-1.EGA SVCS PROPER     2050150-02   2019011   11/20/2019   1119-2   958733   2.520.00   11/26/2019   IN   PD   #14918-1.EGA SVCS PROPER     2057729057   11/14/2019   1119-2   958733   257.82   11/26/2019   IN   PD   #80164762-MAINT SUPPLIES     126   11.1NDIS ASSN. OF WASTEMATER AGENCIES   11/12/2019   1119-2   958733   257.82   11/26/2019   IN   PD   #80164762-MAINT SUPPLIES     126   11.1NDIS ASSN. OF WASTEMATER AGENCIES   11/12/2019   1119-2   958735   60.00   11/	483 RICHARD FREEMAN								
1072   GOLDSTINE, SKRODZKI, RUSSIAN, NEMEC AND HOFE LTD.     148438   11/08/2019   1119-2   958731   2,150.00   11/26/2019   IM   PD   #14918-LEGA SVCS PROPERT     148438   11/06/2019   1119-2   958731   2,150.00   11/26/2019   IM   PD   #14918-LEGA SVCS PROPERT     1148439   20190011   11120/2019   1119-2   958732   4.970.00   11/26/2019   IM   PD   #14918-LEGA SVCS PROPERT     297   W.W. GRAINGER, INC.   III-20   958733   4.970.00   11/26/2019   IM   PD   #14918-LEGA SVCS PROPERT     9556714320   111/12/2019   1119-2   958733   12.87   11/26/2019   IM   PD   #01764762-XNITORIAL SUP     9556733   11/21/2019   1119-2   958733   12.87   11/26/2019   IM   PD   #01764762-XNITORIAL SUP     956733   11/101/2019   1119-2   958733   12.87   11/26/2019   IM   PD   #01764762-XNITORIAL SUP     126   111101S   AGENCIES   111112019   111	21397	11/21/2019	1119-2	958730	10.00	11/26/2019	INV	PD	CONF/TRADESHOW LUNCH STIP
148439   11/08/2019   1119-2   958731   2,150.00   11/26/2019   IM   B   #14918-LEGA SVC5 PROPER     1314 G.P. MAINTENANCE SERVICES, INC.   200.00   11/26/2019   IM   PB   #14918-LEGA SVC5 PROPER     297 W.W. GRAINGER, INC.   20190011   11/20/2019   1119-2   958733   69.00   11/26/2019   IM   PB   #14918-LEGA SVC5 PROPER     9356714320   11/14/2019   1119-2   958733   69.00   11/26/2019   IM   PB   #01766763-ELECTRICAL SUP     93567262077   11/21/2019   1119-2   958733   27.82   11/26/2019   IM   PB   #01766763-ELECTRICAL SUP     9364622077   11/21/2019   1119-2   958733   27.82   11/26/2019   IM   PB   #01766763-ELECTRICAL SUP     126   1110015   ASEN   WASTENATER AGENCIES   411.48   11/26/2019   IM   PB   #01766762-MAINT SUPPLIES     157   LEN'S ACE HARDWARE, INC.   111/21/2019   1119-2   958735   55.92   11/26/2019   IM   PB   #00764762-MA	1072 GOLDSTINE, SKRODZK	I, RUSSIAN, NEMEC ANI	D HOFF LTD.						
1314 G.P. MAINTENANCE SERVICES, INC.   1119-2   958732   4.970.00   11/26/2019   IN   GO ATING OF THICKENE BRID     297 W.W. GRAINGER, INC.   1119-2   958732   4.970.00   11/26/2019   IN   P0   COATING OF THICKENE BRID     9356714320   11/14/2019   1119-2   958733   69.00   11/26/2019   IN   P0   #801764762-MINTER DAFETY     93567230077   11/15/2019   1119-2   958733   27.82   11/26/2019   IN   P0   #801764762-MINTER DAFETY     9364622077   11/11/2019   1119-2   958733   27.82   11/26/2019   IN   P0   #801764762-MINTER DAFETY     126   11LINDIS ASSN. OF WASTEWATER AGENCIES   11/11/2019   1119-2   958735   60.00   11/26/2019   IN   P0   #801764762-MINT SUPPLIES - MINT S	148438 148439	11/08/2019 11/06/2019	1119-2 1119-2	958731 958731	2,150.00	11/26/2019 11/26/2019	INV	88	#14918- LEGA SVCS PROPERT #14918-LEGAL SVCS - MISC
40580150-02   20190011   11/20/2019   1119-2   958732   4.970.00   11/26/2019   IN   GRAINGER, INC.     9356714320   11/14/2019   1119-2   958733   269.00   11/26/2019   IN   PD   #801766762-ELECTRICAL SUP     9356729203   11/120/2019   1119-2   958733   269.00   11/26/2019   INV   PD   #801766762-ELECTRICAL SUP     9364622077   11/21/2019   1119-2   958733   269.00   11/26/2019   INV   PD   #801766762-ELECTRICAL SUP     126   ILLINOIS ASSN. OF WASTEWATER AGENCIES   1119-2   958733   11/26   11/26/2019   INV   PD   #8017664762-MAINT SUPPLIES     157   LEN'S ACE HARDWARE, INC.   1119-2   958735   60.00   11/26/2019   INV   PD   R0X7A - CONF REGISTRATION     92601-3   11/01/2019   1119-2   958735   55.92   11/26/2019   INV   PD   #331050-MAINT SUPPLIES -     92601-3   11/01/2019   1119-2   958735   55.92   11/26/2019   PD   #331050-MAINT SUPPLI	1314 G.P. MAINTENANCE S	ERVICES, INC.		10000	2130100				
297 W.W. GRAINGER, INC.   9356714320 11/14/2019 1119-2 958733 69.00 11/26/2019 IN PO   9356714320 11/15/2019 1119-2 958733 69.00 11/26/2019 IN PO #801766762-LECTRICAL SUP   9356729283 11/21/2019 1119-2 958733 125.70 11/26/2019 INV PO #801766762-WINTER DAFETY   9364022077 11/21/2019 11/21/2019 1119-2 958733 125.70 11/26/2019 INV PD #801764762-JAWITORIAL SUPPLIES   126 ILLINOIS ASSN. OF WASTEWATER AGENCIES 11/11/2019 1119-2 958734 60.00 11/26/2019 INV PD #801764762-MINT SUPPLIES   4808 11/11/2019 1119-2 958734 60.00 11/26/2019 INV PD R0MZA - CONF REGISTRATION   157 LEN'S ACE HARDWARE, INC. III19-2 958735 51.92 11/26/2019 INV PD #331050-MAINT SUPPLIES -   92601-3 11/04/2019 1119-2 958735 51.92 11/26/2019 INV PD #331050-MAINT SUPPLIES -   92601-3	40580150-02 2019001	1 11/20/2019	1119-2	958732	4,970.00	11/26/2019	INV	PO	COATING OF THICKENER BRID
9356714320   11/14/2019   1119-2   958733   69.00   11/26/2019   IN   pp   #801764762-ELECTRICAL SUP     935672390073   11/21/2019   1119-2   958733   127.82   11/26/2019   IN   pp   #801764762-WINTER DAFETY   958733   127.82   11/26/2019   IN   pp   #801764762-WINTER DAFETY   958733   127.82   11/26/2019   IN   pp   #801764762-WINTER DAFETY     9364622077   11/21/2019   1119-2   958733   127.82   11/26/2019   IN   pp   #801764762-WINTER DAFETY     126   ILLINOIS ASSN. OF WASTEWATER AGENCIES   II19-2   958733   11/26/2019   IN   pp   #801764762-MINT SUPPLIES     4808   11/11/2019   1119-2   958734   60.00   11/26/2019   IN   pd   ROMZA - CONF REGISTRATION     92601-3   11/01/2019   1119-2   958735   51.92   11/26/2019   IN   pd   #331050-MAINT SUPPLIES -     92601-3   11/04/2019   1119-2   958735   11.99   11/26/2019   PD   #3310	297 W.W. GRAINGER, INC	*0							
126 ILINOIS ASSN. OF WASTEWATER AGENCIES 684.00 644.00 60.00 11/26/2019 INV PD ROMZA - CONF REGISTRATION   4808 11/11/2019 1119-2 958734 60.00 11/26/2019 INV PD ROMZA - CONF REGISTRATION   157 LEN'S ACE HARDWARE, INC. 11/01/2019 1119-2 958735 55.92 11/26/2019 INV PD #331050-MAINT SUPPLIES -   922619-3 11/04/2019 1119-2 958735 15.92 11/26/2019 INV PD #331050-MAINT SUPPLIES -   927229-3 11/12/2019 1119-2 958735 15.99 11/26/2019 INV PD #331050-OPEATIONS SUPPLIES -	9356714320 9357829283 9362390073 9364622077	11/14/2019 11/15/2019 11/20/2019 11/21/2019	1119-2 1119-2 1119-2 1119-2	958733 958733 958733	69.00 27.82 125.70	11/26/2019 11/26/2019 11/26/2019		8888	#801764762-ELECTRICAL SUP #801764762-WINTER DAFETY 801764762-JANITORIAL SUPP
4808 11/11/2019 1119-2 958734 60.00 11/26/2019 INV PD ROMZA - CONF REGISTRATION   157 LEN'S ACE HARDWARE, INC. II/01/2019 II19-2 958735 55.92 I1/26/2019 INV PD #331050-MAINT SUPPLIES -   92601-3 11/01/2019 1119-2 958735 15.92 11/26/2019 INV PD #331050-MAINT SUPPLIES -   92729-3 11/12/2019 1119-2 958735 11.99 11/26/2019 INV PD #331050-OPEATIONS SUPPLIES -	126 ILLINOIS ASSN, OF 1	WASTEWATER AGENCIES			634.00				
157 LEN'S ACE HARDWARE, INC.   157 LEN'S ACE HARDWARE, INC.   92601-3   11/01/2019   11/04/2019   11/04/2019   11/04/2019   11/04/2019   11/05/2019   11/04/2019   11/05/2019   11	4808	11/11/2019	1119-2	958734	60.00	11/26/2019	INV	Po	ROMZA - CONF REGISTRATION
92601-3   11/01/2019   1119-2   958735   55.92   11/26/2019   INV   PD   #331050-MAINT   SUPPLIES   -     92601-3   11/04/2019   1119-2   958735   15.99   11/26/2019   INV   PD   #331050-MAINT   SUPPLIES   -     92729-3   11/12/2019   1119-2   958735   11.99   11/26/2019   INV   PD   #331050-OPEATIONS   SUPPLIE   -	157 LEN'S ACE HARDWARE	, INC.							
	92601-3 92619-3 92729-3	11/01/2019 11/04/2019 11/12/2019	1119-2 1119-2 1119-2	958735 958735 958735	55.92 15.99 11.99	11/26/2019 11/26/2019 11/26/2019	INC	888	#331050-MAINT SUPPLIES - #331050-MAINT SUPPLIES - #331050-OPEATIONS SUPPLIE

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PD LAB SVCS NOV 20	9 INV	) 11/26/201	350,00	958747	1119-2	11/21/2019	171229 541   EXT
PD HVAC REHABILITA	9 INV	) 11/26/201	2,673.50	958746	1119-2	20180012 11/11/2019 RBAN LABORATORIES, INC.	154313 738 5080
PD #DET1680518-OFF1 PD DET1680518-OFF1	9 INV 9 INV	11/26/201	100.72 72.97 175.62	958745 958745	NC. 1119-2 1119-2	LES CONTRACT & COMMERCIAL I 11/16/2019 11/21/2019	939 STAP 3431288128 3431833066 464 STRA
PD CONFERENCE LUNCH	9 INV	11/26/201	10.00	958744	1119-2	PH SOLITA 11/21/2019	864 JOSE 21395
PD MANHOLE INSPECTI	9 INV	11/26/201	1,156.26	958743	1119-2	GROUP, INC 20190005 11/08/2019	1212 RJN ( 341504
PD SEWER INSPECTION	9 INV	11/26/201	51,520,47	958742	1119-2	ONE ROBOTICS, INC 20190004 11/19/2019	1273 REDZ0 INV13584
PD JANITORIAL SVC -	ANI 6	11/15/201	1,020.00	958741	1119-2	LEANING COMPANY 11/01/2019	1226 RC C 21346
PD #8280-223488-QR1	9 INV	11/26/201	221.00	958740	NG SERVICES INC. 1119-2	RAM ONE PROFESSIONAL BUILDI 11/15/2019	952 PROG 129393
PD #1823-MAINT SUPF	ANI 6	11/26/201	17.69	958739	1119-2	ER PIPE AND SUPPLY CO 11/14/2019	226 PORT 11986611-00
PD BACKFLOW REPAIR	9 INV	11/26/201	339,00	958738	1119-2	CIPAL BACKFLOW LLC 11/19/2019	1201 MUNI 17137
PD #600430049900860	9 INV	11/26/201	29,98	958737	1119-2	TAL ONE NATIONAL ASSN 3 10/30/2019	1223 CAPT 31753031906554
PD #GLWA -ELECTRIC	ANT 6	11/26/201	83.90	958736	2-5111	AN INSTRUMENT CO. 11/12/2019	158 LESM PSI151791

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# VENDOR INVOICE LIST

The state of the s	\$1187280.0	309	9842428126	886	MR980801-0	1240	INVOICE
Constant of	10	WILKENS-AN		VERIZON W	800	TWIN OAKS	
		VDERSON CC		IRELESS SE	20190003	LANDSCAPI	P.0.
55 INVOID	11/15/20	Ť	11/18/20	RVICES LL	11/01/20	NG, INC	INV DATE
ES	19		19	0	19		VOUCHE
STATE OF STATE	1119-2		1119-2		1119-2		R WARRANT
のためのための	958751		958750		958749		CHECK #
166,924.15	332.92		519.62		3,485.00		INVOICE NET
STREET STREET	11/26/201		11/26/201		11/26/201		DUE DATE
	9 INV		9 INV		9 INV		TYP
	PD		PD		PD		E STS
Distant and	#3374-LA		#6870263		LANDSCAPI		INVOICE I
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	- NOV		ELL SVC		NCE		z

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INVOICE	P.O. INV DATE VOUC	HER WARRANT	CHECK #	TANANT/C NET			
1234 NISSE	N ENERGY INC					010	INVOICE DESCRIPTION
166	09/12/2019	1219-1	2648	10.620.00	12/17/2019 DIR	5	#6107001001_/UB BABTE \$200
1221 BOLLE	R CONSTRUCTION CO, INC				and and a start	,	POJOS DALOVI CHE PARIS 834
23	20170007 10/31/2019	1219-1	2649	457,785.00	12/19/2019 DTR	8	FACTI TTV THERMOMENENT BEAT
2 AAREN	PEST CONTROL, INC.				the second second		POSTETTI THENOREMENT FROM
30094	12/02/2019	1219-1	958752	100.00	12/17/2019 TWV	3	DECT CONTROL CUA & CCO
5 ADS L	ΓC				and the state of the state	ĉ	TEST CONTROL DWA & CSU -
35346-1119	11/30/2019	1219-1	958753	3.428.00	12/17/2019 TNV	3	#19346_1 EVEL MONTYODIAN H
881 AIRGA	S, INC				and and and and	ć	ADDATE HONTIONING U
9095482047	11/23/2019	1219-1	958754	1 550 54	13/17/3010 The	3	
9500564667 9500564667 9500569454 9966580948	6102/20/21 5102/20/21 5102/20/21 5102/20/21 5102/20/21	1219-1 1219-1 1219-1 1219-1 1219-1	958754 958754 958754 958754	1,500.00 3,046.27 6,033.77 64.54	12/17/2019 INV 12/17/2019 INV 12/17/2019 INV 12/17/2019 INV	33333	VAPORIZER LEASING #2024961-LIQUID OXYGEN - #2024961-LIQUID OXYGEN - #2024961-LIQUID OXYGEN - #2024961-CYLINDER RENTAL
218 PATTER	INDUSTRIES, INC.			12,195.12			
P60C0233727 PM600285633	12/05/2019 11/21/2019	1219-1 1219-1	958755 958755	284.95	12/17/2019 INV 12/17/2019 INV	88	#1512901-GENERATOR PARTS #1512901-GENERATOR REPATE
1124 BLACK	& VEATCH CORPORATION		Not the	3.750.08			
1308408	20160007 11/18/2019	1219-1	958756	133,170.31	12/17/2019 INV	8	CONSTRUCTION OVERSIGHT FT
819 UNITED	COMMUNICATIONS					1010	
163627	12/15/2019	1219-1	958757	921.61	12/17/2019 INV	PD	#1209792-PHONE SVC - DFC
37 CDW GC	VERNMENT, INC.						
VZH1100	12/04/2019	1219-1	958758	53.01	12/17/2019 INV	PB	#4019735-COMPUTER DARTS -
47 CINTAS	CORPORATION #769						A 1 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2
4036549858	12/03/2019	1219-1	958759	169.90	12/17/2019 INV	PD	#14924503-MAINT SHOP TOWE
1323 COMMUN	ITY COLLEGE DISTRICT 502						
10763	12/03/2019	1219-1	958760	675.00	12/17/2019 INV	0q	#1596272-PST COMPSE REGIS
1218 COLLEY	ELEVATOR CO.						
191341	12/01/2019	1219-1	958761	198 00 .	17/17/2010 TNV	3	#RECOME_ELEVATOR CONT

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INVOICE P.	O. INV DATE VOUCH	ER WARRANT	CHECK #	INVOICE NET	DUE DATE T	YPE ST	TS INVOICE DESCRIPTION	
490 COMCAST CABLE	COMMUNICATIONS, LLC						TA ANYGARE BEDERAT   TAN	
21430	11/25/2019	1219-1	958762	204.59	12/17/2019 1	NV PE	5 #8771200520012010_TNTER	57
1248 B&W CONTROL S	YSTEMS INTEGRATION LLC					18		-
209733 209734	11/15/2019 11/15/2019	1219-1 1219-1	958763 958763	1,112.65	12/17/2019 1	2 P P	) #190402.00-SPECTRE WIN (	91
1307 CONSERV FS IN	0		And a second sec	1,711.43				
65087324	11/27/2019	1219-1	958764	913.20	12/17/2019 1	R Pr	3 809450-MATNT CLIPPI TEC -	z
62 PADDOCK PUBLIC	CATIONS, INC							
34625 34635	11/23/2019 11/23/2019	1219-1 1219-1	958765 958765	89.70 90.85	12/17/2019 I 12/17/2019 I	22 PP	) #112117-CHEMICAL BID TH) ) #112117-CHEMICAL BID TH)	10
74 DREISILKER ELE	ECTRIC MOTORS INC		All a state	180.55				
1139689	11/21/2019	1219-1	958766	143.31	12/17/2019 1	< PD	) #294445-ELECTRICAL DADIS	n
682 EATON ELECTRIC	CAL GROUP					- 11		1
937747937 966063898	09/25/2019 10/01/2019	1219-1 1219-1	958767 958767	3,195.78	12/17/2019 II 10/01/2019 C	en e	) #944565-UPS BATTERIES -	77
1308 ELENS & MAICHI	IN ROOFING		などのである	3,015.08				8
7039 201	90009 11/13/2019	1219-1	958768	10,800.00	12/17/2019 1	e PD	1 2019 BLDGS 0 & 7 ROOF RE	Ŧ
86 EESCO, A DIVIS	ION OF WESCO DISTRIBUTI	LON INC				100	1	
319447 345524 351634	11/22/2019 12/03/2019 12/05/2019	1219-1 1219-1 1219-1	958769 958769 958769	1,240.00 396.98 390.41	12/17/2019 IP 12/17/2019 IP 12/17/2019 IP	222 888	#81199-SERVICE CONTRACT #81393-99-ELECTRICAL PAR #81393-99-ELECTRICAL PAR	89 I
1193 EVERGREEN LAWN	CARE, INC.		and the second se	2,027.39				
15270 15275	11/30/2019 12/06/2019	1219-1 1219-1	958770 958770	850.00	12/17/2019 IN 12/17/2019 IN	22 88	FALL CLEAN UP 15641 SUNN	4 Y
293 VILLAGE OF GLE	N ELLYN			1,100.00			THE SECOND OF LOOK AND	
21477 21478	12/01/2019 12/01/2019	1219-1 1219-1	958771 958771	2,788.34	12/17/2019 IN 12/17/2019 IN	< < 8 8	#610130-WATER SVC - OCT #432720-WATER SVC - SEDT	2
1072 GOLDSTINE, SKR	ODZKI, RUSSIAN, NEMEC A	ND HOFF I TD	Apr. Olivelleville	2,808.20				

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1072 GOLDSTINE, SKRODZKI, RUSSIAN, NEMEC AND HOFF LTD.

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297 W.W. GRAINGER, INC.			3	550.00				
9383652784 9383882611	12/10/2019 12/12/2019	1219-1 1219-1	958773 958773	122.81 94.44	12/17/2019 1 12/17/2019 1	NV F	ðð a a	801764762-MAINT, PARTS -
743 GROOT, INC			State of the second	217,25				
4773871	12/01/2019	1219-1	958774	337.51	12/17/2019 1	NV F	Ŭ *	310769434001- REFINE REM
985 HOLSTEINS GARAGE								A set of the set of th
1097	11/30/2019	1219-1	958775	70.00	12/17/2019 1	NV F	ŏ	AFELTY LANE INSPECTIONS
124 HOME DEPOT USA, INC								
40859 4526770 8011137	12/09/2019 11/15/2019 11/21/2019	1219-1 1219-1 1219-1	958776 958776 958776	88.43 180.38 363.84	12/17/2019 I 12/17/2019 I 12/17/2019 I		ŏŏŏ aaa	7114-MAINT STORE PURCHAS 7114-OPERATIONS STORE PU 7114-MAINT STORE DUBCHAS
1147 ILLINOIS AMERICAN W	ATER COMPANY		Contraction of the local division of the loc	632.65				
21449	11/22/2019	1219-1	958777	126.33	12/17/2019 1	N P	ĕ ≉	1025220008432566-WATER S
185 KONICA MINOLTA BUSI	NESS SOLUTIONS INC							
9006272396	11/25/2019	1219-1	8778	133.08	12/17/2019 1	NV P	Ŭ ‡⊧	146316-COPIER USAGE - OC
1324 LANCO CONTACTS, LLC							- 22	a service and and a service and
75343	12/12/2019	1219-1	958779	2,363.07	12/17/2019 1	NV P	đ m	LECTRICAL PARTS - DEC 20
1189 LEAHY-WOLF COMPANY								
390945	12/05/2019	1219-1	958780	945.00	12/17/2019 I	¶ ∧	0	HP OIL - DEC 2019
157 LEN'S ACE HARDWARE,	INC.							
92934-3 92964-3	11/25/2019 11/27/2019	1219-1 1219-1	958781 958781	35.28 14.01	12/17/2019 I 12/17/2019 I	22 9 9	**	331050-MAINT SUPPLIES - 331050-MIANT SUPPLIES -
158 LESMAN INSTRUMENT CC	0.			49,29				
PS1153316	12/03/2019	1219-1	958782	1,698.95	12/17/2019 1	NV P	*	GLWA - ELECTRICAL PARTK
171 MCMASTER-CARR SUPPLY	( CO.							

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INV PD LAB SERVICES NOV 2019 INV PD LAB SERVICES NOV 2019 INV PD LAB SERVICES - NOV 201 INV PD #3430 BIOSOLIDS HAULIN INV PD #315850-WELDING CYLING CRM PD #315850-WELDING CYLING CRM PD #315850-WELDING CYLING	12/17/2019 1 12/17/2019 1 11/19/2019 1 11/19/2019 1 11/19/2019 1	48.54			IONS, INC.	TOTAL MOTION LOSS
INV PD LAB SERVICES NOV 20 INV PD LAB SERVICES NOV 20 INV PD LAB SERVICES - NOV 20 INV PD #3430 BIOSOLIDS HAU INV PD #315850-WELDING CYLI INV PD #315850-WELDING CYLI INV PD #315850-WELDING CYLI	12/17/2019 1 12/17/2019 1 11/19/2019 1 11/19/2019 1 12/17/2019 1					1074 UNTERN SOLUTI
INV PD LAB SERVICES NOV 201 INV PD LAB SERVICES NOV 201 INV PD LAB SERVICES - NOV 2 INV PD #3430 BIOSOLIDS HAUL	12/17/2019 1	64.32 -68.30 52.52	958792 958792 958792	1219-1 1219-1 1219-1	11/30/2019 11/19/2019 12/10/2019	1006293 24459 70458796
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	12/17/2019 ) 12/17/2019 1 12/17/2019 1	130.00 323.00 434.00	958790 958790 958790	1219-1 1219-1 1219-1	11/26/2019 12/03/2019 12/05/2019	171336 171725 171774
					WORATORIES, INC.	738 SUBURBAN LAB
INV PD DET1680518-OFFICE SU	12/17/2019 1	172.71	958789	1219-1	12/05/2019	3433287385
					TRACT & COMMERCIAL INC.	939 STAPLES CONT
INV PD FLOW MONITORING SERV	12/17/2019	10,149.00	958788	1219-1	20190001 12/05/2019	305035 2
					INC	1212 RJN GROUP, I
INV PD #9100616302-BOTTLED	12/17/2019	93.86	958787	1219-1	12/07/2019	19L8100616302
					RS NORTH AMERICA	412 NESTLE WATER
INV PD #13643-MAINT TOOLS	12/17/2019	22.27	958786	1219-1	12/12/2019	0701-535446
		1,267.08			TS CO-NAPA	1142 GENUINE PART
INV PD #01622985-MAINT TOO INV PD #01622985-MAINT EQU	12/17/2019 12/17/2019	522.28 744.80	958785 958785	1219-1 1219-1	11/27/2019 11/27/2019	77944141 77949081
l t					. INC	190 SID TOOL CO
INV PD #80514201-ELECTRICA	12/17/2019	410.48	958784	1219-1	11/27/2019	IL10-676174
		3,360.11			STRIES INC	188 MOTION INDU
INV PD #7735700-MAINT SUPP INV PD #7735700-MAINT SUPP	12/17/2019 12/17/2019 12/17/2019	19.41 391.75 575.69	958783 958783 958783	1219-1 1219-1 1219-1	12/03/2019 12/03/2019 12/05/2019	23302263 23589026
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NVDICE   P.O.   INV DATE   VOUCHER   WARRANT   CHECK #   INVOICE   NET DUE   DATE   TYPE SIS   INVOICE   DE     289   HD   SUPPLY   FACILITIES   MAINT   LTD   958.794   952.45   12/17/2019   INV   PD   #222656-MA     988   VERIZON   WIRELESS   SERVICES   LC   958795   231.82   12/17/2019   INV   PD   #842065533     843337992   12/01/2019   1219-1   958795   231.82   12/17/2019   INV   PD   #842065533     309   WILKENS-ANDERSON CO.   12/05/2019   1219-1   958796   2,001.56   12/17/2019   INV   PD   #3374-LAB     186663.001   12/05/2019   1219-1   958796   2,001.56   12/17/2019   INV   PD   #3374-LAB		2			100 000 000	Statistics of the second second		75 INVOICES	Contract in the second second second
NVDICE   P.O.   INV DATE   VOUCHER   MARRANT   CHECK #   INVOICE   NET   DUE   DATE   TYPE SIS   INVOICE   DE     289   HD   SUPPLY   FACILITIES   MAINT   LTD   289   980   SUPPLY   FACILITIES   MAINT   LTD   958794   952.45   12/17/2019   INV   PD   #222656-MA     988   VERIZON   WIRELESS   SERVICES   LC   958792   12/01/2019   IV   PD   #222656-MA     843337992   12/01/2019   1219-1   958795   231.82   12/17/2019   INV   PD   #8420655333     309   WILKENS-ANDERSON CO.   12/01/2019   1219-1   958795   231.82   12/17/2019   INV   PD   #8420655333	#3374-LAB	PD	INV	17/2019	2,001.56 12/	958796	1219-1	12/05/2019	S1186663.001
NVOLCE   P.O.   INV DATE   VOUCHER   WARRANT   CHECK #   INVOLCE   NET   DUE   DATE   TYPE STS   INVOLCE   DE     289   HD   SUPPLY   FACILITIES   MAINT   LTD   289   HD   SUPPLY   FACILITIES   MAINT   LTD     5390   11/22/2019   1219-1   958794   952.45   12/17/2019   INV   PD   #222656-MA     988   VERIZON   WIRELESS   SERVICES   LC   958795   231.82   12/17/2019   INV   PD   #842065533     843337992   12/01/2019   1219-1   958795   231.82   12/17/2019   INV   PD   #842065533		1212						RSON CO.	309 WILKENS-ANDE
NVOLCE P.O. INV DATE VOUCHER WARRANT CHECK # INVOLCE NET DUE DATE TYPE STS INVOLCE DE 289 HD SUPPLY FACILITIES MAINT LTD 5390 11/22/2019 1219-1 958794 952.45 12/17/2019 INV PD #222656-MA 988 VERIZON WIRELESS SERVICES LLC	#842065533-	В	INV	/17/2019	231,82 12/	958795	1219-1	12/01/2019	9843337992
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LENG-55   12/30/2019   1219-2   2651   24.12 12/30/2019   P0   LLIA C BAKEY     LENG-56   12/30/2019   1219-2   2652   60.00 12/30/2019   P0   LLIA C BAKEY     LENG-56   12/30/2019   1219-2   2652   60.00 12/30/2019   P0   LLIA C BAKEY     LENG-50   12/30/2019   1219-2   2653   79.00 12/30/2019   P0   PUCAGO PETRIMIK ANNUL 5     LENG-50   12/30/2019   1219-2   2654   149.00 12/30/2019   P0   PUCAGO PETRIMIK ANNUL 5     LENG-50   12/30/2019   1219-2   2656   14,035.50 12/30/2019   P0   PUTAGO PETRIMIK FIN     FREE-25   12/30/2019   1219-2   2657   235.00 12/30/2019   P0   PUTECTE TNUST - LAPTOP     FREE-26   12/30/2019   1219-2   2650   13.00 12/30/2019   P0   PUTECTE TNUST - LAPTOP     FREE-26   12/30/2019   1219-2   2650   12/30/2019   P0   PUTECTE TNUST - LAPTOP     FREE-26   12/30/2019   12/30/2019   P0   PUTECTE TNUST - LAPTOP   PUTAD	1268 JP MORGAN CHASE	NA							ANTONES DESCRIPTING
LIRGe-66   12/30/2019   1219-2   2652   60.001   2230/2019   D11	LENG-85	12/30/2019	1219-2	2651	24 12	0100/02/01	-	;	
LENG-67   12/30/2019   1219-2   2633   000000000000000000000000000000000000	LENG-86	12/30/2019	1219-2	2652	£0.00	010C/UE/CL	DIK	3 3	LILAC BAKERY
LLBGE-88   12/30/2019   1219-2   264   14/00   12/30/2019   10   11     L1BGE-89   12/30/2019   1219-2   2654   14/00   12/30/2019   10   P	LENG-87	12/30/2019	1219-2	2653	20.00	0106/00/01	DIK	1 9	CHICAGO TRIBUNE ANNUAL SI
LENG-89   11/30/2019   121-2   265   14/30/2019   DIR   PD   OWNAND   DIR     239   VILLAGE OF GLEN ELLW   12/30/2019   121-2   2655   171.00   12/30/2019   DIR   PD   OWNAND   FIG-1     1268   JP MORGAN CHASE IN   12/30/2019   1219-2   2655   14,035.50   12/30/2019   DIR   PD   OWNTHLY IFT TRANSFER     FREP-26   12/30/2019   1219-2   2657   258.00   12/30/2019   DIR   PD   PORTECTED TRUST   LAPTOP/KEYBOARD     FREP-26   12/30/2019   1219-2   2657   258.00   12/30/2019   DIR   PD   PORTECTED TRUST   LAPTOP/KEYBOARD     FREP-26   12/30/2019   1219-2   2650   175.00   12/30/2019   DIR   PD   PAPTOP/KEYBOARD     FREP-26   12/30/2019   1219-2   2650   75.00   12/30/2019   DIR   PD   PAPTOP/KEYBOARD     FREP-28   12/30/2019   12/30/2019   1219-2   26577   7,205.53   12/27/2019	LENG-88	12/30/2019	1210-2	7664			or of	10	NIG GUIREACH REGISIRATIO
ITT-123   VILLAGE OF GLEN ELLWN   IZ19-2   265   IZ1.00   IZ19/2019   DI   DI <thdi< th="">   DI   <thdi< th="">   DI<td>1 ENG- 20</td><td></td><td></td><td>10.0</td><td>149.00</td><td>12/30/2019</td><td>DIR</td><td>PD</td><td>PYRAMID TECH</td></thdi<></thdi<>	1 ENG- 20			10.0	149.00	12/30/2019	DIR	PD	PYRAMID TECH
29 VILAGE OF GLEN ELLYW     171-128   12,30/2019   1219-2   2656   14,035.50   12/30/2019   DI RAMSFER     FREE-25   12,30/2019   1219-2   2657   258.00   12/30/2019   DI ROMTHLY IFT TRANSFER     FREE-25   12,30/2019   DI ROMTHLY IFT TRANSFER     FREE-25   12/30/2019   DI ROMTHLY IFT TRANSFER     FREE-35	LENG-89	12/30/2019	1219-2	2655	171.00	12/30/2019	DIR	0	CHICAGO METROPOLITAN FIRF
ITF-182   12/30/2019   12/19-2   265   14,035.50   12/30/2019   DIR FER     1268   JP MORGAN CHASE M   12/30/2019   1219-2   2657   258.00   12/30/2019   DIR FER     FERE-20   12/30/2019   1219-2   2657   258.00   12/30/2019   DIR FI   PAMOFEN     FERE-20   12/30/2019   1219-2   2658   1.868.99   12/30/2019   DIR FI   PAMOFENGADE     FERE-20   12/30/2019   1219-2   2660   75.00   12/30/2019   DIR FI   PAMERIADE   EAV POMERIADE   ELCRI     STR4-25   12/30/2019   1219-2   2660   75.00   12/30/2019   DIR FI   PAMERIADE   ELCRI     STR4-25   12/11/2019   1219-2   2660   75.00   12/30/2019   DIR FI   PAREXING - ROCKWELL TRADE     Strop<59085	293 VILLAGE OF GLEN	ELLYN					10.00		And the second second second second
1268   DP HORGAN CHASE IN   VIENTIAL	IFT-182	12/30/2019	1219-2	2656	14.035.50	12/30/2019	NTD 0	š	MONTHLY TOT TRANSFER
FRER-25   12,30/2019   1219-2   2657   258.00   12/30/2019   DIR   PR     FRER-26   12,30/2019   12,30/2019   1219-2   2658   1,868.99   12/30/2019   DIR   PR	1268 JP MORGAN CHASE I	NA				CTON INC INC	110	0	MUNITELT IFI IKANSFER
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## **SECTION 5.3**

## SODIUM THIOSULFATE CONTRACT AWARD

- **TO:** Executive Oversight Committee
- **FROM:** David Goodalis, Operations Superintendent Through Tom Romza, Assistant Executive Director
- **DATE:** January 9, 2020
- **RE:** Sodium Thiosulfate Three Contract Award



The Glenbard Wastewater Authority posted the bid notification publicly through an advertisement to bid that was published in the Daily Herald on November 25, 2019. The deadline for receipt of the sealed bids was December 20, 2019 at 11:00 a.m.

At 11:00 a.m. the Glenbard Wastewater Authority Administrative Secretary had in her possession 2 unopened bid packets. After opening the bid documents, reviewing the unit prices, and confirming that all required documentation was present, PVS Minibulk was the lowest responsive, responsible bidder. While GWA does go out to bid every three years, PVS has been our long-term Sodium Thiosulfate provider due largely in part to the delivery requirements we have mandated and based on their proven performance record, GWA does not have any reason to deny them award of the new contract. The Authority has been aware that both chemical costs as well as hauling costs have increased significantly since the last time this item was bid, and therefore had included an increased budget amount in the CY2020 budget to anticipate for the higher costs. The low bid of \$2.59/gallon is a 51% increase over the previous price of \$1.72/gallon.

The bid tabulation sheet is attached for your review of the competitive bids received.

Vendor	Price Per Gallon Quoted
Water Solutions Unlimited	\$3.50/gallon
PVS Minibulk	\$2.59/gallon
Rowell Chemical Corp.	No Bid
Alexander Chemical Corp	No Bid
Viking Chemical Corp	No Bid

GWA recommends the EOC allow the award of a three-year contract to PVS Chemical, Detroit MI for the purchase and delivery of Liquid Sodium Thiosulfate at \$2.59 per gallon/delivered with the amount expensed to CY2020 O&M Budget 270-1-530440.

### 12/20

## **Glenbard Wastewater Authority**





### **Contract Documents**

### For

### Liquid Sodium Thiosulfate

**Supply Service** 

Bid Opening: December 20, 2019

GWA - Liquid Sodium Thiosulfate Supply Service

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Section D.	Proposal Pages D-1 – D-3
Section E.	Agreement Pages E-1 – E-10
Section F.	Certificates and Acknowledgements Pages F-1 – F-3

which upon acceptance by Glenbard Wastewater Authority, forms a binding contract. Unless the Executive Oversight Committee rejects the Bid in the exercise of discretion, award of contract shall be to the lowest responsible and responsive bidder, in a manner consistent with law.

Dated at Glen Ellyn, Illinois this 21st of November, 2019.

### Section B: Requirements and Instructions to Bidders

- 1. The successful Bidder shall furnish specified services to the Glenbard Wastewater Authority within the time period specified in the Agreement.
- 2. All Bidders shall inform themselves of all conditions under which the work is to be performed, and all other relevant matters that may affect the quantity of the work, labor, equipment, and materials required to provide the services needed therein. The Bidder shall make his/her own determination as to conditions he/she may encounter or create, without additional cost to the Owner. The Bidder further agrees that upon execution of the Agreement, he/she shall make no claims against the Glenbard Wastewater Authority for any estimate or statement made by any agent or officer of the Authority, which may prove to be erroneous in any respect.
- 3. The Owner *does not* guarantee any minimum quantity of liquid sodium thiosulfate to be purchased annually.
- 4. All bids and contract forms shall be prepared and signed by person(s) authorized by the bidder, and submitted on the forms attached hereto, and without removal from this bound packet. All bids shall be typed or legibly written in ink. Each bid shall include such pertinent data illustrating the Bidder's capability to meet the services specified. Further, all bids must be accompanied by a fully executed Non -Collusion Certificate and Equal Employment Opportunity Acknowledgement, as provided herein.
- 5. Basis of Award: Proposals will be canvassed on the basis of "Unit Price". Award will be made by the approval of the Glenbard Wastewater Authority Executive Oversight Committee. The lowest, responsive, responsible bidder will be expected to commence service to the Authority upon such award.
- 6. Unit-Price Bids:
  - a) For Contracts containing unit price bid items, the approximate quantities listed on the "Proposal" forms, although stated with as much accuracy as is possible in advance, are estimates only and are presented **SOLELY** for the purpose of comparing bids. The

quantities for which payments will be made to the Contractor are to be determined by measurements of the quantities actually supplied by the Contractor as specified. Bidders must determine for themselves the conditions under which the work will be performed, by such means as they may prefer, and shall assume all risks as to any variations in the approximate quantities noted.

b) At any time after the submission of a proposal, Bidders shall not dispute or complain of the aforesaid list of approximate quantities or assert that there was any misunderstanding as to the amount or character of the work required to be done, and shall not make any claims for damages, or for loss of profits or for an extension of time because of a difference between the approximate quantities of the unit price bid items, and the actual quantities of liquid sodium

thiosulfate supplied.

c) Where unit prices are to be bid, the Bidder shall extend the unit price bid in the place(s) provided therefor on the "Proposal" form for said approximate quantities, shall compute the total amount of the bid, and shall indicate the same in the appropriate place on the "Proposal" form. Such extensions and total bid are subject to certification by GWA and the correct extensions and sum will be used in the comparison of bids. When discrepancies occur between bids written in numbers and written in words, the written words shall govern and control.

### Section C: Specifications for Liquid Sodium Thiosulfate Supply Services

Work to be performed under this Contract is Supply Services of Liquid Sodium Thiosulfate to the Owner's Lombard Combined Sewage Treatment Facility located at Hill Avenue and I-355, in Lombard, Illinois.

- 1. General The Owner's facility is a publicly owned Wastewater Treatment Plant operated jointly by the Village of Glen Ellyn and the Village of Lombard, Illinois. The Lombard facility is a combined sewage treatment facility operated by the Glenbard Wastewater Authority and put into service only when flow demands.
- 2. Intent It is the intent of this Contract to secure the services of a Contractor experienced in the Supply of Liquid Sodium Thiosulfate for use in the disinfection system at the Lombard facility.
- 3. Definitions Wherever the following terms in parentheses appear in the Contract documents, they shall be interpreted as follows:
  - a. "Contractor" The successful Bidder who is awarded and executes a contract with the Owner.
  - **b. "Change Order"** A written order authorizing additional, deletion, or revision in the work and/or the time of completion of the executed Contract.
  - c. "Glenbard Wastewater Authority" The Glenbard Wastewater Authority, its Executive Oversight Committee, or any employee or agent of the Glenbard Wastewater Authority designated or authorized by the aforementioned, to act on behalf of the Glenbard Wastewater Authority in decision making, inspection, and administration of this Contract.
  - d. "GWA" Glenbard Wastewater Authority.
  - e. "Owner" As used in this agreement, the term Owner shall mean the Glenbard Wastewater Authority.
  - f. "Site" The location(s) where the work under this Contract is to be performed, or to which deliveries are to be made.
  - g. "Work", or "The Work" The services required by the Contract Documents, and includes all products, materials, labor, tools, equipment, appliances, appurtenances, supervision, and

other services necessary for the Contractor to perform and complete everything specified or implied in the Contract Documents.

- h. "Written Order" A written order signed by the Owner delivered by messenger to the Contractor, or mailed to the Contractor at the address designated in his/her proposal, or to such address as he/she may designate in writing as his/her official place of business.
- 4. Service Requirements All services and workmanship shall in every respect be in accordance with the best industry standards, and all material supplied shall be new unless specifically approved by Owner.
  - a. Basic Services The volume of liquid sodium thiosulfate to be supplied under this Contract is estimated as shown below. The actual volume of liquid sodium thiosulfate provided under the Contract may be more or less as the demand for use is dictated by wet weather conditions. As estimated annual consumption of 45,000 gallons is expected.

Annual Supply of 30% Liquid Sodium Thiosulfate - 45,000 gallons

#### b. Product Identity -

#### Chemical and Physical Properties:

Product Name: Sodium Thiosulfate Solution, 30% Chemical Name/Synonyms: Sodium Thiosulfate, Aqueous Solution Chemical Formula: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> CAS Number: 7772-98-7 Product Code: HAZARDOUS INGREDIENTS: NONE NON-HAZARDOUS INGREDIENTS: Yes

Component	<u>CAS No.</u>	<u>% by wt.</u>
Sodium Thiosulfate	7772-98-7	30%
Water	7732-18-5	70%

#### OSHA 29 CFR 1910.1200 EVALUATION: Non-Hazardous
GWA - Liquid Sodium Thiosulfate Supply Service

APPEARANCE AND ODOR: Clear, pale yellow liquid, odorless BOILING POINT: 110° C MELTING POINT: -10° C VAPOR PRESSURE (REID): 10 mm Hg @ 91° C VAPOR DENSITY (AIR = 1): No information SPECIFIC GRAVITY (WATER = 1): 1.2865 @ 16° C PERCENT VOLATILE BY VOLUME (5) @ 55° C: No Information EVAPORATION RATE (BURYL ACETATE = 1): N/A pH: 7.5% solution, pH = 8.6 (anhydrous basis) SOLUBILITY IN WATER: N/A

- 5. Detailed Service Specifications Owner represents these Detailed Service Specifications to be accurate, but any ancillary issues not specifically mentioned in this specification, but required to carry out its intent, are required by these specifications, and Contractor shall perform as though specifically mentioned, described, or delineated. It is the responsibility of the Contractor to verify <u>ALL</u> specifications necessary for the safe and efficient supply of liquid sodium thiosulfate to the Owner.
- 6. Damage Restoration The Contractor, at his/her expense, shall restore any damage to Owner's grounds, buildings, or properties caused by the Contractor during the work, to original condition.
- 7. General The Contractor shall provide supply products and services in support of the efficient operation of the Lombard Combined Sewer Operation facility as follows:
  - a. The Liquid Sodium Thiosulfate shall be 30% by volume.
  - **b.** The Contractor will call Owner at (630) 790-1901 when delivery truck is within 30 minutes of the plant site for an operator to meet him/her at gate.
  - c. Provide liquid sodium thiosulfate for the Owner's sewage treatment system on an as needed basis throughout the time period of this contract and will deliver the sodium thiosulfate within two (2) working days of notification from the Owner. If an emergency situation arises, as deemed by Owner, Contractor

# GWA - Liquid Sodium Thiosulfate Supply Service

agrees to deliver the sodium thiosulfate within twenty-four (24) hours notice from Owner. Purchases will be requested on a minimum of 1500 gallons per delivery, but Owner does not guarantee any minimum purchase during the term of this Agreement.

- **d.** The Contractor's personnel will unload the liquid sodium Thiosulfate from the Contractor's truck to the Owner's liquid storage tank in a safe and efficient manner consistent with current industry and all applicable safety standards with no help from the Owner's employees.
- e. The Contractor shall notify the Owner immediately of the existence of any unsafe condition, storage tank overfilling, or liquid thiosulfate spillage.
- f. The Contractor's truck shall have a working meter to determine the amount of liquid sodium Thiosulfate delivered. The Contractor must also utilize a pressurized tanker truck in order to off load the chemical into the storage tanks. The Owner's storage tank level, and truck meter readings are to be recorded at the beginning and end of delivery.
- g. The Contractor will pay all royalties and license fees, if applicable.

# Section D: Contractor's Proposal for Liquid Sodium Thiosulfate Supply Services

## To: Executive Oversight Committee Glenbard Wastewater Authority

The bidder has examined, read, and considered the terms and conditions of all the Contract Documents for the above-titled project, the site of the work, the means of access thereto, the adjoining and adjacent premises and the facilities to provide services at the Lombard Combined Sewage Treatment Facility.

The Bidder has also examined the Invitation to Bid, the Requirements and Instructions to Bidders (Bidding Requirements, hereinafter), has made the examinations and investigations therein required, and has been advised as follows:

The Glenbard Wastewater Authority, (GWA hereafter), is exempt from the Illinois State Sales Tax, and prices quoted shall not include the cost of such taxes. The Illinois Exemption Number is E9983-8303-06. The prices quoted herein by the bidder conclusively include all other direct or indirect Federal, State, County, and local taxes and fees which apply and also comply with all Federal laws and regulations.

Extension prices bid in this proposal are based upon GWA's estimate of approximate quantities and are to be used for bid comparison purposes only, and are not intended to represent any guarantee by the bidder that all work with the terms and conditions of the Contract Documents, to do all the work called for in said Contract Documents, and to furnish all materials, tools, labor, supervision, and all appliances and appurtenances, including transportation, necessary for full completion of the work, in places as specified, for the unit prices quoted to wit:

Item 1 Provide Liquid Sodium Thiosulfate Supply, per specifications attached hereto, for the unit price of:

# GWA – Liquid Sodium Thiosulfate Supply Service

Percent sulfate in Liquid Sodium Thiosulfate: 30%

Price per gallon of Liquid Sodium Thiosulfate (delivered):

S Two Dollars Fifty Nine Cents per Gallon (Written in words)

Price per gallon of Liquid Sodium Thiosulfate \$ \_2.59

Written in figures)

BID EXTENSION: Above bid price x 45,000 annual units =

S One Hundred Sixteen Thousand Five Hundred Fifty Dollars and Zero Cents (Written in words)

BID EXTENSION: Bid price x 45,000 annual units =  $\frac{116,550.00}{(Written in figures)}$ 

In the event that there is a discrepancy between the "Written in Words" and the "Written in Figures" amounts, the "Written in Words" amount shall govern.

The bidder hereby guarantees that all material, equipment and appurtenances furnished under this Proposal will be free from defects in manufacture and supply, and will not inhibit continuous satisfactory biologic sewage treatment operation.

In submitting this Proposal, the Bidder represents and warrants the availability of the necessary skilled trades people and other classifications of labor necessary to perform the work required.

The Bidder, in submitting this Proposal, verifies that all of the Contract Documents listed in the Table of Contents for this Bid Document are attached hereto.

The Bidder's attention is directed to the agreement for information on insurance requirements. It is strongly recommended that the bidder investigate the costs of obtaining the required insurance before submitting a bid proposal.

The Bidder hereby accepts the invitation of the Glenbard Wastewater Authority to submit this proposal.

Firm Name:	PVS Minibulk, Inc.		
By:	(Signature of Authorized	Officer)	
	Milisav Bulatovic		
	(Print name of Office	r)	
	Treasurer		
	(Title of Officer)		
Address:	10900 Harper Avenue		
-	Detroit, MI 48213		
-			
Telephone: _	313-921-1200	Fax:	3135791675

## ALL SIGNATURES SHALL BE IN WRITING AND NO PROPOSAL SHALL BE CONSIDERED UNLESS SO SIGNED.

Bidders shall acknowledge receipt of any addenda to this Proposal (a) by signing and returning the addenda with their proposal, or (b) by identifying the addenda numbers in the space provided below.

Note: By identifying the addenda numbers, the Bidder acknowledges that they have taken into consideration all revisions of each addendum when preparing and submitting the Proposal.

# Section E: Agreement Between Owner and Contractor

This is an Agreement made as of \_\_\_\_\_\_, 2020 between the Glenbard Wastewater Authority ("Owner") and \_\_\_\_\_\_("Contractor"), for Liquid Sodium Thiosulfate Supply Services. Owner and Contractor, in consideration of their mutual promises agree to the performance of services by the Contractor and the payment for those services by the Owner.

Owner: Glenbard Wastewater Authority 945 Bemis Road Glen Ellyn, IL 60137

Contractor:

Project: Liquid Sodium Thiosulfate Supply Services

The Owner and Contractor agree as set forth below:

## **ITEM 1 - BASIC SERVICES OF CONTRACTOR**

- 1.1 Contractor shall perform all the work specified in the Contract Documents. The term "work" means the delivery, construction and/or execution of products and services required by the Contract Documents, and includes all material, labor, equipment, tools, appliances, appurtenances, supervision and other services necessary for the Contractor to perform and complete everything specified or implied in the Contract Documents.
- 1.2 Contractor shall provide Owner with Safety Data Sheets (SDS) for all chemicals and materials requiring use by Contractor on Owner's property.

# **ITEM 2 - TERM OF THE AGREEMENT**

- 2.1. This Agreement shall commence January 9, 2020 and will end on January 9, 2023.
- 2.2. This Agreement may be renewed annually for up to three (3) successive one (1) year terms by written notice of renewal submitted by either party to the other and acceptance in writing by the non-notifying party. Prices charge in any renewal term shall not exceed the price sated in Section3.1 of this Agreement by more than five percent (5%).
- 2.3. Prices charged under this Agreement for any renewal term shall be recalculated and agreed to by both parties and approved by both parties in a written amendment attached to this Agreement. Failure to agree on new prices shall constitute non-renewal.
- 2.4. Owner may terminate this Agreement during its original term or any renewal term if Contractor fails to fulfill any service or obligation required of Contractor under this Agreement. Termination having been explicitly contemplated by Contractors or Owner, notice of election to terminate shall take the following form:

## NOTICE OF TERMINATION

This is to notify you that GWA has elected to cancel and terminate, and does hereby cancel and terminate, effective \_\_\_\_\_\_, 20\_\_\_, the following written contract entered into with you, all in accordance with the terms and provisions thereof: Liquid Sodium Thiosulfate Supply Services; Bid Opening: December 18, 2019, Between Glenbard Wastewater Authority and \_\_\_\_\_\_(Contractor).

- 2.5. Notice of Termination shall be by service of the above by certified mail or in person by the GWA and upon the Contractor.
- 2.6 Any Notice of Termination shall be sent to provide thirty (30) days notice, prior to the actual date of termination, to the Contractor.

2.7. Notices served by certified mail shall be presumed to have been received four (4) days after mailing of said notice. Notice shall be sent to Contractor's address stated in the Proposal:

CONTRACTOR:

# **ITEM 3 - PAYMENTS TO CONTRACTOR**

3.1 The Contractor agrees to accept, and the Glenbard Wastewater Authority agrees to pay, the following prices as full compensation for furnishing all the labor, tools, materials, and appurtenances necessary to complete all the work specified in this Contract, also for all loss or damage arising out of the nature of the work or from the action of the elements, or from any unforeseen obstructions or difficulties encountered in the prosecution of the same; and for all risks of every description connected with the work; and for well and faithfully completing the entire work, free of all claims, liens and charges whatsoever and in full compliance with the specifications and the requirements of the Glenbard Wastewater Authority, complete under them, to wit:

### Liquid Sodium Thiosulfate:

\$\_\_\_\_\_ per gallon delivered.

\$\_\_\_\_\_ per gallon delivered. (Written in Figures)

BID EXTENSION: Above bid price x 45,000 units = (\$\_\_\_\_\_) (Written in Figures)

In the event that there is a discrepancy between the "Written in Words" and the "Written in Figures" amounts, the "Written in Words" amount shall govern.

The above prices will be used to determine compensation to the Contractor " for the work, but Owner does not guarantee that Owner will request any minimum or maximum quantities of work, for unit price items.

3.2. <u>Monthly Statement</u>. Contractor will tender a monthly statement to Owner for services performed during the preceding month. The statement will detail gallons of liquid sodium thiosulfate provided at the time of each billing. Owner shall remit payment as per the Illinois Prompt Payment Act.

3.3. <u>No Guarantee of Employment</u>. Nothing contained herein shall constitute a guarantee that Contractor will be employed for a minimum number of days or hours during the period covered by this Agreement or any renewal thereof.

## **ITEM 4 - DUTIES OF OWNER**

<u>Owner's Responsibilities</u>. The Owner is responsible to provide a cleared access road for the Contractor's delivery vehicles to reach the Owner's storage tank fill station. The Owner will, whenever possible, notify the Contractor at least two (2) working days in advance of the required need for liquid sodium thiosulfate. However, if an emergency situation arises, as deemed by the Owner, Contractor agrees to deliver the sodium thiosulfate within twenty-four (24) hours of notice from the Owner.

## **ITEM 5 - SPECIAL PROVISIONS**

5.1. <u>Indemnification and Insurance</u>. This Agreement is subject to the following special provisions:

5.1.1. Indemnification Against General Liability: The Contractor and Owner shall indemnify, hold harmless and defend each other and their agents, officers and employees from and against all claims, damages, losses and expenses, including but not limited to attorney's fees arising out of or resulting from the services provided, however, that any such claims, damage, loss, or expense (1) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, and (2) is caused in whole or in part by any negligent act or omission of the Contractor and Owner, anyone directly or indirectly employed by them or anyone for whose acts Contractor may be liable regardless of whether or not is caused in part by a party indemnified hereunder, in which case Contractor's and Owner's liability shall be limited to its proportionate or contributory share of the negligence covering the claim, damage, loss or expense.

5.1.2. Insurance: The Contractor shall maintain at all times throughout the term of this Agreement, and throughout any extension or renewal thereof, insurance with minimum limits and coverage as shown below:

# GWA – Liquid Sodium Thiosulfate Supply Service

a. Workers' Compensation - Worker's Compensation Insurance, including Occupational Disease, meeting the statutory requirements of the State of Illinois, and Employer's Liability Insurance in an amount of at least One Million Dollars (\$1,000,000.00). Policy must waive subrogation against the Owner; however, such waiver shall not apply where Owner is solely negligent or the proximate cause of the injury arises from Owner's activity outside the oxygen plant.

b. Comprehensive General Liability Insurance: Comprehensive General Liability Insurance providing One Million Dollars (\$1,000,000.00) each for bodily injury and property damage combined single limit; Two Million Dollars (\$2,000,000.00) in the aggregate for this Agreement. If such aggregate shall be partially or totally impaired as the result of losses suffered outside this agreement, Contractor shall provide through other insurance, or its own means, that amount required to provide Owner with Two Million Dollars (\$2,000,000) of aggregate protection in any single policy year.

c. Excess Liability Insurance: At the Contractor's option, primary limits may be less than required above with an excess liability (umbrella) policy providing the additional limits required. This form of insurance will be acceptable provided it, combined with primary policies, provide the insurance coverage herein required and that the excess liability minimum amounts equal or exceed Two Million Dollars (\$2,000,000) per occurrence and Five Million Dollars (\$5,000,000) in the aggregate.

d. The Glenbard Wastewater Authority, its Executive Oversight Committee, Officers, agents, and employees, the Village of Glen Ellyn, and the Village of Lombard are to be acknowledged on the Certificate of Insurance as "Additional Insured" with respects to liability.

e. Comprehensive Automobile Liability Insurance: Comprehensive automobile liability insurance, covering all owned, non-owned and hired vehicles in limits of liability equal to those set forth herein above, namely One Million Dollars GWA – Liquid Sodium Thiosulfate Supply Service

(\$1,000,000.00) combined single limit.

5.2. Certificates of Insurance: The Contractor shall furnish to the Owner, Certificates of Insurance evidencing coverage of the above recited insurance requirements.

5.2.1. All Certificates of Insurance must state that any material change in coverage or non-renewal or cancellation will be provided to the Owner ten (10) days prior to the effective date of any such change, non-renewal or cancellation.

5.2.2. The form of the Certificate of Insurance shall be subject to the reasonable approval of the Owner and its attorney.

5.2.3. The Certificates of Insurance will be delivered to Owner forthwith.

5.2.4. It is understood and agreed that the insurance coverage and limits required above shall in no way limit the extent of the Contractor's responsibilities and liabilities specified within this Agreement.

5.2.5. It is understood and agreed that authorization is hereby expressly granted to Owner without the benefit of "lien right" in favor of Contractor for the Owner to withhold payments to the Contractor until a properly executed Certificate of Insurance providing insurance as required herein is received by the Owner.

5.2.6. It is expressly understood and agreed by the Contractor that it will not proceed with the services described in this Agreement until the required insurance certificates are in the hands of the Owner.

- 5.3. <u>Subcontracts</u>. Contractor shall not subcontract with any other company except as expressly specified and approved by Owner.
- 5.4. <u>Accounting Records</u>. Records of basic services performed by personnel of Contractor and personnel expense, if applicable, all as related to this Agreement, shall be kept on the basis of generally accepted accounting principles and shall be available to the Owner or the Owner's authorized representative during normal business hours.

5.5 <u>Contractor's Representations</u>. The Contractor represents to the Owner that it is familiar with the Site, governmental requirements controlling the storage, transport, and delivery of liquid sodium thiosulfate and all Industry standard specifications and policies; that the services of the Contractor will reflect knowledge and consideration of work site conditions and applicable governmental regulations which are in effect on the days during which services are performed by Contractor and shall be in conformance with Industry standard specifications and policies.

# **ITEM 6 - GENERAL PROVISIONS AND EXHIBITS**

6.1. This Agreement is subject to the following General Provisions:

6.1.1. This Agreement may not be assigned by either party, except with the prior written consent of the other party.

6.1.2. No assignment of this Agreement shall relieve the assignor of any of its liabilities hereunder.

6.1.3. No waiver of any right or failure to exercise any remedy with respect to any matter or event subject to this Agreement, shall be or be deemed to be a waiver of such right or remedy with respect to any other matter or event, or to constitute a precedent for purposes of the interpretation of this Agreement.

6.1.4. Headings used in this Agreement are for convenience of reference only, and shall not be considered in the construction or interpretation of this Agreement.

6.1.5. This Agreement shall be governed by the laws of the State of Illinois. Venue shall be in DuPage County.

6.2. <u>Exhibits</u>. The following exhibits are attached to and made a part of this Agreement:

6.2.1 "Section C: Specifications for Liquid Sodium Thiosulfate Supply Services"

6.2.2. "Route Map to Lombard CSO Facility"

GWA - Liquid Sodium Thiosulfate Supply Service

- 6.3. <u>The Agreement</u>. This Agreement, together with the exhibits identified above, constitute the entire agreement between Owner and Contractor and supersede all prior written or oral understandings. This Agreement and said exhibits and schedules may only be amended, supplemented, modified or canceled by a duly executed written instrument.
- 6.4 <u>Limit of Liability</u>. In no event shall Contractor or Owner be liable for any special, indirect, incidental, consequential or punitive damages hereunder, whether or not such damages were caused by or resulted from Contractor's or Owner's negligence. No claim of any kind of breach of warranty, whether based on negligence, warranty, or breach of contract, shall be greater in aggregate amount than Fifty Thousand dollars (\$50,000), except for any amounts recovered under or paid by the Contractor's Insurance required to be maintained as per Section 5 of this Agreement. However, nothing in this paragraph shall limit in any way the liability of the Contractor for claims brought by its employees due to the amount or type of damages, compensation, or benefits payable by or for, or paid by or for, the Contractor under any Workers' Compensation or Disability Benefit Acts or Employee Benefit Acts.

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement as of the day and year first above written.

Owner:

Glenbard Wastewater Authority Glen Ellyn, Illinois

(Chairman, Executive Oversight Committee)

Contractor:

# GWA – Liquid Sodium Thiosulfate Supply Service

(Authorized Representative)

a a

# Section F: Certificates

## **ITEM 1: NON-COLLUSION CERTIFICATE**

## CERTIFICATION THAT CONTRACTOR IS NOT BARRED FROM PUBLIC CONTRACTING DUE TO BID-RIGGING OR BID ROTATING CONVICTION

WHEREAS, a conviction for the offense of bid-rigging or bid rotating bars a person or entity from bidding on public contracts (720 ILCS 5/33E-3, 33E-4), and

WHEREAS, Section 33E-11 of the Criminal Code (720 ILCS 5/33E-11) requires bidders and contractors to certify on a form provided by the unit of government or school district that they are not barred from public contracting due to bid-rigging of bid rotation convictions.

NOW, THEREFORE, IT IS CERTIFIED THAT the undersigned,

PVS Chemical Solutions, Inc.

(Individual, Firm, Corporation, or Other Entity)

Is not barred from bidding on or entering into public contracts due to having been convicted of bid-rigging or bid rotation under paragraphs 33E-3 or 33E-4 of the Illinois Criminal Code. The undersigned also certifies that no officer or employee of the bidder or contractor, have been so convicted, and that the bidder or contractor is not the successor company, or a new company created by the officers or owners of one so convicted. It is further certified that any such conviction occurring after the date of this certification will be reported to the above-named public body, in writing, within seven (7) days of such conviction, if it occurs during any bidding process, contract term, or otherwise prior to entering into any contract therewith.

DATED:	12/18/2019	By:
DATED:	12/10/2017	Dy.

Milisav Bulatovic	
(Printed Name of Officer)	
1 / 1 1 + -	
in Allon	

(Signature)

Attest:

(Corp. Seal or Registration Number

"In the event that circumstances certified to in this certificate should change, we will notify you of the change within fifteen (15) calendar days". (2): ACKNOWLEDGEMENTS

# GWA - Liquid Sodium Thiosulfate Supply Service

# **ITEM 2: ACKNOWLEDGEMENTS**

# EQUAL EMPLOYMENT OPPORTUNITY

In the event of the Contractor's non-compliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act, or the Rules and Regulations of the Illinois Department of Human Rights ("Department"), the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be canceled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation. During the performance of this Contract, the Contractor agrees as follows:

- 1. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- 2. That, if it hires additional employees in order to perform this contract, or any portion hereof, it will determine the availability (in accordance with the Department's Rules) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- 3. That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service.
- 4. That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Department's Rules. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules, the Contractor will promptly so notify the Department and the Contracting Agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- 5. That it will submit reports as required by the Department's Rules, furnish all relevant information as may from time to time be requested by the Department or the Contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules.

- 6. That it will permit access to all relevant books, records, accounts and work sites by personnel of the Contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules.
- 7. That it will include verbatim or by reference, the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.
- 8. That it will comply with the provisions of 775 ILCS 5/2-105 relating to public contracts.

\* \* \* \* \*

Contractor acknowledges its obligations:

- a) to comply with the aforementioned Equal Employment Opportunity clause, items 1 through 8.
- b) to comply with the requirements of Sections 269 to 275, Chapter 48, Illinois Revised Statutes, 1989, re: preference to employment of Illinois laborers;
- c) to comply with the Illinois Act regulating wages of laborers, mechanics and other workers employed in any public works commonly known as the Illinois Prevailing Wage Act, Section 39(s)-1, chapter 48, Illinois Revised Statutes, 1989.
- d) to comply with the Illinois Minimum Wage Law, Chapter 48, Section 1001, et seq., Illinois Revised Statutes, 1989.

PVS Chemical Solutions, Inc.

(Contractor)



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# Safety Data Sheet

Item # Multi

Safety Data Sheet 0680

4	. PRODUCT AND COMPANY IDENTIFICATION
Product Name Synonyms Recommended Use Uses advised against	Sodium Thiosulfate Solution 28%-50% No information available Reserved for industrial and professional use Consumer uses: Private households (= general public = consumers).
<u>Company Name</u> PVS Chemical Solutions Inc. 10900 Harper Ave. Detroit, MI 48213 313-921-1200	
24 Hour Emergency Phone Numbe	r CHEMTREC 1-800-424-9300
	2. HAZARDS IDENTIFICATION
<u>Classification</u> OSHA Regulatory Status	This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)
	Emergency Overview
Hazard statements	No known significant effects or critical hazards.
Physical hazards	Do not handle until all hazard precautions have been read and understood
The product contains no sul	ostances which at their given concentration, are considered to be hazardous to health
Prevention	<ul> <li>Wear protective gloves/protective clothing/eye protection/face protection</li> <li>Do not breathe dust/fume/gas/mist/vapors/spray</li> <li>Wash face, hands and any exposed skin thoroughly after handling</li> <li>Do not eat, drink or smoke when using this product</li> </ul>
<u>Response</u>	<ul> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>If eye irritation persists: Get medical advice/attention</li> <li>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower</li> </ul>
Storage	<ul> <li>If skin irritation occurs: Get medical advice/attention</li> <li>Store in a well-ventilated place. Keep container tightly closed</li> </ul>
Disposal	<ul> <li>Store in a secure area</li> <li>Dispose of contents/container to an approved waste disposal plant</li> </ul>
Hazards not otherwise classified (HNOC)	None known.
<u>Other Information</u> Jnknown Acute Toxicity	28-50% of the mixture consists of ingradiant/c) of unknown tovicity
· · · · · · · · · · · · · · · · · · ·	20-00 % of the mixture consists of ingredient(s) of unknown toxicity
3. C	OMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EC No.	Weight-% *
Water	7732-18-5	231-791-2	50-72
Sodium thiosulfate	7772-98-7	231-867-5	28-50

	4. FIRST AID MEASURES
General advice	Call 911 or emergency medical service Remove contaminated clothing and shoes Handle in accordance with good industrial hygiene and safety practice
Eye contact	<ul> <li>Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes</li> <li>If eye irritation persists: Get medical advice/attention</li> </ul>
Skin Contact	<ul> <li>Remove contaminated clothing and shoes</li> <li>Immediately flush skin with plenty of water for at least 30 minutes.</li> <li>If symptoms persist, call a physician</li> <li>Wash contaminated clothing before reuse</li> </ul>
Inhalation	<ul> <li>Remove to fresh air</li> <li>If not breathing, give artificial respiration</li> <li>If breathing is difficult, give oxygen</li> <li>Call a physician immediately</li> </ul>
Ingestion	<ul> <li>Call a physician or poison control center immediately</li> <li>Do NOT induce vomiting</li> <li>Rinse mouth</li> <li>Drink 4 to 8 ounces (120-240 ml) of water as soon as possible after ingestion.</li> <li>Never give anything by mouth to an unconscious person</li> </ul>
Note to physician	Treat symptomatically.
Self-protection for first aid personnel	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
	5. FIRE-FIGHTING MEASURES
Suitable extinguishing media Unsuitable extinguishing media	<ul> <li>Dry chemical, CO2, water spray or alcohol-resistant foam</li> <li>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment</li> <li>No information available</li> </ul>
Specific hazards arising from the chemical	<ul> <li>Thermal decomposition can lead to release of irritating and toxic gases and vapors</li> <li>Sulfur Oxides (SOx)</li> <li>Carbon oxides (COx)</li> </ul>
Protective equipment and precautions for firefighters	<ul> <li>Wear a self-contained breathing apparatus and chemical protective clothing</li> </ul>
Flammable properties Explosive properties	<ul> <li>No information available</li> <li>No information available</li> </ul>
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions Environmental precautions	<ul> <li>Ensure adequate ventilation, especially in confined areas</li> <li>Do not touch or walk through spilled material</li> <li>For small spills, absorb material with clay absorbent or other compatible material.</li> <li>Dispose of the waste material according to local, state and governmental requirements.</li> <li>For large spills, contain the material using barriers of absorbent pigs, clay absorbent or earth dams.</li> </ul>

\*The exact percentage (concentration) of composition has been withheld as a trade secret

Methods for cleaning up	Dike far ahead of liquid spill for later disposal     Dike far ahead of liquid spill for later disposal
	• Frevent product from entering drains • Take up mechanically, placing in appropriate containers for disposal
	Soak up with inert absorbent material
	<ul> <li>Pick up and transfer to properly labeled containers</li> </ul>
	Clean contaminated surface thoroughly
Other Information	No information available
	7. HANDLING AND STORAGE
Advice on safe handling	<ul> <li>Handle in accordance with good industrial hygiene and safety practice</li> </ul>
Storage Conditions	<ul> <li>Keep away from food, drink and animal feeding stuffs</li> </ul>
	<ul> <li>Keep containers tightly closed in a dry, cool and well-ventilated place</li> </ul>
	Protect from freezing
Incompatible materials	Strong acids, Strong oxidizing agents
8. EX	POSURE CONTROLS/PERSONAL PROTECTION
Engineering Controls	Ensure adequate ventilation, especially in confined areas.
Individual protection measures, su	ich as personal protective equipment
Respiratory protection	• A respiratory protection program that meets OSHA 1910 134 and ANSI 788 2
	requirements must be followed whenever workplace conditions warrant the use of a respirator.
Eye/Face protection	• Wear safety plasses with side shields (or goggles)
•	Wear chemical splash goggles and face shield when eye and face contact is possible due     to splashing a sprawing for a splashing a
	<ul> <li>Use appropriate ANSI approved protoctive even and face devices. Even and face motoctive</li> </ul>
	requirements are outlined in 29 CFR 1910.133 and ANSI Z87.1.
Skin and body protection	Wear suitable protective clothing
	<ul> <li>Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,</li> </ul>
	as appropriate, to prevent skin contact
General Hygiene Considerations	<ul> <li>Handle in accordance with good industrial hygiene and safety practice</li> </ul>
	<ul> <li>Do not eat, drink or smoke when using this product</li> </ul>

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear to slightly hazy
Color	colorless or slight yelłow
Odor	Odorless
Odor threshold	No information available
<u>Property</u> pH Melting point/Freezing Point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	Values 8.6 -10 to 35.5 104 - 116 No information available No information available No information available

Remarks • Method solution (10 %)

Upper flammability limit (%) Lower flammability limit (%): Vapor pressure Vapor density Specific Gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	No information available No information available 10 mm Hg @ 91 °C No information available 1.29-1.50 No information available No information available	
Other Information Softening point °C Molecular weight VOC Content (%) Density Bulk density	No information available No information available No information available No information available 10.7-12.5 Pounds per gallon (lb/gal)	
	10. STABILITY AND REACTIVITY	
Stability	Stable under recommended storage conditions	
Conditions to avoid	Elevated temperature	
Incompatible materials	<ul> <li>Strong acids</li> <li>Strong oxidizing agents</li> </ul>	
Hazardous Decomposition Products • Thermal decomposition can lead to release of irritating and toxic gases and vapors • Sulfur Oxides (SOx) • Carbon oxides (COx)		
Possibility of Hazardous Reactions	None under normal processing and storage	
	11. TOXICOLOGICAL INFORMATION	

#### Information on likely routes of exposure

Principle Routes of Exposure	Inhalation, Skin Contact, Eye contact
Inhalation	May cause irritation of respiratory tract. Avoid breathing vapors or mists.
Ingestion	May be harmful if swallowed.
Skin Contact	May cause skin irritation and/or dermatitis.
Eye contact	Contact with eyes may cause irritation.

#### Information on toxicological effects

Symptoms	No information available			
Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Somolitization				
Sensitization	No information available.			
Germ cell mutagenicity	No information available.			
Carcinogenicity	No information available.			
Reproductive toxicity	No information available.			
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Aspiration hazard	No information available.			

#### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 28-50% of the mixture consists of ingredient(s) of unknown toxicity

**12. ECOLOGICAL INFORMATION** 

#### Ecotoxicity

#### 30% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability Bioaccumulation	No information available. No information available		
Other adverse effects	No information available		
e f	13. DISPOSAL CONSIDERATIONS		
Disposal of wastes	<ul> <li>Dispose of in accordance with federal, state and local regulations</li> <li>Dispose of hazardous waste in a RCRA licensed facility</li> </ul>		
Contaminated packaging			

#### **14. TRANSPORT INFORMATION**

DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION			
US Federal Regulations			
SARA 311/312 Hazard Categories Acute health hazard Chronic Health Hazard Fire hazard Sudden release of pressure haz Reactive Hazard	No No ard No No		
<u>SARA 313</u>	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372		
CWA (Clean Water Act)	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)		
CERCLA	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level partners to release of this material.		
US State Regulations	of state level pertaining to releases of this material		
California Proposition 65	This product does not contain any Proposition 65 chemicals		
<u>U.S. State Right-to-Know</u> Regulations			
International Inventories			

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION				
Health hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties	
Health hazards 1	Flammability 0	Physical hazards 0	Personal protection B	
Multi 0680 May-20-2 1 *** Upda	2015 2015			
	Health hazards 1 Health hazards 1 Multi 0680 May-20-2 1 *** Upda	Health hazards 1 Flammability 0 Health hazards 1 Flammability 0 Multi 0680 May-20-2015 May-20-2015 1 *** Updated value on SDS.	Health hazards 1 Flammability 0 Instability 0 Health hazards 1 Flammability 0 Physical hazards 0 Multi 0680 May-20-2015 May-20-2015 1 *** Updated value on SDS.	

All information, statements, data, advice, and/or recommendations, including, without limitation, those relating to storage, loading/unloading, piping, and transportation (collectively referred to herein as "information") are believed to be accurate, reliable, and based on reliable industry and regulatory references. However, no representation or warranty, express or implied, is made as to its completeness, accuracy, fitness for a particular purpose or any other matter, including, without limitation, that the practice or application of any such information is free of patent infringement or other intellectual property misappropriation. The Company providing this SDS is not engaged in the business of providing technical, operational, engineering, or safety information for a fee, and therefore, any such information provided herein has been furnished as an accommodation and without charge. All information provided herein is intended for use by persons having requisite knowledge, skill, and experience in the chemical industry. The Company providing this SDS shall not be responsible or liable for the use, application, or implementation of the information provided herein, and all such information is to be used at the risk, and in the sole judgment and discretion of such persons, their employees, advisors, and agents. This safety data sheet (SDS) is offered for your information, consideration, and investigation as required by federal hazardous products act and related legislation.

End of Safety Data Sheet

## GLENBARD WASTEWATER AUTHORITY

# **Bid Tabulation**

# Sodium Thiosulfate

Bid Opening Date: December 20, 2019

	BIDDER	REPRESENTATIVE	EMAIL ADDRESS	PHONE	BOND
1	Waters Solutions Unlimited	Amy Bagley	abagley@getwsu.com		
2	Alexander Chemical, Carus		bids@caruscorporation.com		
3	Southern Ionics Incorporated				
	P.O. Drawer 1217, 579 Commerce St.	Khristy Todd	ktodd@southernionics.com	662/494-3055, Ext. 207	
	West Point, MS 39773				
4	Jones Chemical Inc.		summer@jcichem.com	630/920-8833	
5	PVS Minibulk				

)	TOTAL PRICE
	\$3.50/gallon
	\$157,500
	No Bid
	No Bid
	\$2.59/gallon
	\$116,550.00

# **SECTION 5.4**

# SODIUM HYPOCHLORITE CONTRACT AWARD

- **TO:** Executive Oversight Committee
- **FROM:** David Goodalis, Operations Superintendent Through Tom Romza, Assistant Executive Director
- **DATE:** January 9, 2020
- **RE:** Hypochlorite Bid Award Request



The Glenbard Wastewater Authority posted the bid notification publicly through an advertisement to bid that was published in the Daily Herald on November 25, 2019. The deadline for receipt of the sealed bids was December 18, 2019 at 11:00 a.m.

At 11:00 a.m. the Glenbard Wastewater Authority Administrative Secretary had in her possession 3 unopened bid packets. After opening the bid documents, reviewing the unit prices, and confirming that all required documentation was present, Alexander Chemical Corporation was the lowest responsive, responsible bidder. Alexander Chemical has been our Sodium Hypochlorite provider in the past. To date, we do not have any reason to deny them award of the new contract. The previous price the Authority was paying competitively per gallon of Sodium Hypochlorite was \$0.632 to Alexander Chemical Corporation from January 2017 until current. The Authority has been aware that both chemical costs as well as hauling costs have increased significantly since the last time this item was bid, and therefore had included an increased budget amount in the CY2020 budget to anticipate for the higher costs. The low bid of \$0.7101/gallon is a 12.4% increase over the previous price of \$0.632/gallon.

The bid tabulation sheet is attached for your review of the competitive bids received.

Water Solutions Unlimited	\$1.20/gallon
Rowell Chemical Corp	\$0.798/gallon
Alexander Chemical Corp	\$0.7101/gallon
Jones Chemical	No Bid
Southern Ionics Incorporated	No Bid

The Operations Staff requests the EOC to allow awarding Alexander Chemical Corporation the 3-year Sodium Hypochlorite supply contract for a unit price of \$0.7101 per gallon delivered. The cost of the Sodium Hypochlorite will be expensed to the Glenbard's Stormwater Plant CY2020 O&M budget line item 270-1 530440.

# **Glenbard Wastewater Authority**





# **Contract Documents**

# For

# **Liquid Sodium Hypochlorite**

**Supply Service** 

**Bid Opening: December 18, 2019** 

GWA – Liquid Sodium Hypochlorite Supply Service RFP

# **Table of Contents**

Section A.	Invitation to Bid Pages A-1 – A-2
Section B.	Requirements and Instructions to Bidders Pages B-1 – B-2
Section C.	Specifications for Liquid Sodium Hypochlorite Supply Services Pages C-1-C-4
Section D.	Proposal Pages D-1 – D-3
Section E.	Agreement Pages E-1 – E-10
Section F.	Certificates and Acknowledgements Pages F-1 – F-3

# **Glenbard Wastewater Authority**

Liquid Sodium Hypochlorite Supply Service

# Section A: Invitation to Bid

## 1. <u>Time and Place of Bid Opening</u>

Sealed bids for Liquid Sodium Hypochlorite Supply Service will be received by the *Glenbard Wastewater Authority*, 945 Bemis Road, Glen Ellyn, Illinois 60137, until 11:00 a.m. on Wednesday, December 18, 2019. At that time, bids will be publicly opened and read. All bids shall be submitted in an opaque, sealed envelope clearly labeled to identify the bidder and the project, and marked "SEALED BID – Glenbard Wastewater Authority – Liquid Sodium Hypochlorite – DO NOT OPEN". Bids received after 11:00 a.m. will be returned unopened.

## 2. <u>Description of Services</u>

In general, the supply and delivery of 15% Liquid Sodium Hypochlorite is required on an **as needed basis** for the operation of the Lombard Combined Sewage Treatment Facility, located at Hill Avenue & I-355, Lombard, Illinois, which is operated by the Glenbard Wastewater Authority. Services are to be provided as specified in Section C of the Contract Documents.

## 3. Instructions to Bidders

Bid documents may be obtained and/or examined at the offices of the Glenbard Wastewater Authority, 945 Bemis Road, Glen Ellyn, Illinois 60137 Phone: (630) 790-1901, Monday through Friday, 8:00 a.m. to 3:30 p.m.

### 4. <u>Rejection of Bids</u>

The Glenbard Wastewater Authority Executive Oversight Committee reserves the right to reject any and all proposals, and to waive technicalities, irregularities, and/or informalities. All costs and prices quoted are firm and irrevocable for a period of ninety (90) days after the actual date of Bid opening. Each Bid received is an irrevocable offer,

## GWA – Liquid Sodium Hypochlorite Supply Service RFP

which upon acceptance by Glenbard Wastewater Authority, forms a binding contract. Unless the Executive Oversight Committee rejects the Bid in the exercise of discretion, award of contract shall be to the lowest responsible and responsive bidder, in a manner consistent with law.

Dated at Glen Ellyn, Illinois this 21st day of November, 2019.

# Section B: Requirements and Instructions to Bidders

- 1. The successful Bidder shall furnish specified services to the Glenbard Wastewater Authority within the time period specified in the Agreement.
- 2. All Bidders shall inform themselves of all conditions under which the work is to be performed, and all other relevant matters that may affect the quantity of the work, labor, equipment, and materials required to provide the services needed therein. The Bidder shall make his/her own determination as to conditions he/she may encounter or create, without additional cost to the Owner. The Bidder further agrees that upon execution of the Agreement, he/she shall make no claims against the Glenbard Wastewater Authority for any estimate or statement made by any agent or officer of the Authority, which may prove to be erroneous in any respect.
- **3.** The Owner *does not* guarantee any minimum quantity of liquid sodium hypochlorite to be purchased annually.
- 4. All bids and contract forms shall be prepared and signed by person(s) authorized by the bidder, and submitted on the forms attached hereto, and without removal from this bound packet. All bids shall be typed or legibly written in ink. Each bid shall include such pertinent data illustrating the Bidder's capability to meet the services specified. Further, all bids must be accompanied by a fully executed Non -Collusion Certificate and Equal Employment Opportunity Acknowledgement, as provided herein.
- 5. Basis of Award: Proposals will be canvassed on the basis of "Unit Price". Award will be made by the approval of the Glenbard Wastewater Authority Executive Oversight Committee. The lowest, responsive, responsible bidder will be expected to commence service to the Authority upon such award.
- 6. Unit-Price Bids:
  - **a.** For Contracts containing unit price bid items, the approximate quantities listed on the "Proposal" forms, although stated with as much accuracy as is possible in advance, are estimates only and are presented SOLELY for the purpose of comparing bids. The

## GWA – Liquid Sodium Hypochlorite Supply Service RFP

quantities for which payments will be made to the Contractor are to be determined by measurements of the quantities actually supplied by the Contractor as specified. Bidders must determine for themselves the conditions under which the work will be performed, by such means as they may prefer, and shall assume all risks as to any variations in the approximate quantities noted.

- **b.** At any time after the submission of a proposal, Bidders shall not dispute or complain of the aforesaid list of approximate quantities or assert that there was any misunderstanding as to the amount or character of the work required to be done, and shall not make any claims for damages, or for loss of profits or for an extension of time because of a difference between the approximate quantities of the unit price bid items, and the actual quantities of liquid sodium hypochlorite supplied.
- c. Where unit prices are to be bid, the Bidder shall extend the unit price bid in the place(s) provided therefor on the "Proposal" form for said approximate quantities, shall compute the total amount of the bid, and shall indicate the same in the appropriate place on the "Proposal" form. Such extensions and total bid are subject to certification by GWA and the correct extensions and sum will be used in the comparison of bids. When discrepancies occur between bids written in numbers and written in words, the written words shall govern and control.

# Section C: Specifications for Liquid Sodium Hypochlorite Supply Services

Work to be performed under this Contract is Supply Services of Liquid Sodium Hypochlorite to the Owner's Lombard Combined Sewage Treatment Facility located at Hill Avenue and I-355, in Lombard, Illinois.

- 1. General The Owner's facility is a publicly owned Wastewater Treatment Plant operated jointly by the Village of Glen Ellyn and the Village of Lombard, Illinois. The Lombard facility is a combined sewage treatment facility operated by the Glenbard Wastewater Authority and put into service only when flow demands.
- 2. Intent It is the intent of this Contract to secure the services of a Contractor experienced in the Supply of Liquid Sodium Hypochlorite for use in the disinfection system at the Lombard facility.
- **3. Definitions** Wherever the following terms in parentheses appear in the Contract documents, they shall be interpreted as follows:
  - **a.** "Contractor" The successful Bidder who is awarded and executes a contract with the Owner.
  - **b.** "Change Order" A written order authorizing additional, deletion, or revision in the work and/or the time of completion of the executed Contract.
  - c. "Glenbard Wastewater Authority" The Glenbard Wastewater Authority, its Executive Oversight Committee, or any employee or agent of the Glenbard Wastewater Authority designated or authorized by the aforementioned, to act on behalf of the Glenbard Wastewater Authority in decision making, inspection, and administration of this Contract.
  - d. "GWA" Glenbard Wastewater Authority.
  - e. "Owner" As used in this agreement, the term Owner shall mean the Glenbard Wastewater Authority.
  - f. "Site" The location(s) where the work under this Contract is to be performed, or to which deliveries are to be made.
  - g. "Work", or "The Work" The services required by the Contract Documents, and includes all products, materials, labor, tools, equipment, appliances, appurtenances, supervision, and

other services necessary for the Contractor to perform and complete everything specified or implied in the Contract Documents.

- h. "Written Order" A written order signed by the Owner delivered by messenger to the Contractor, or mailed to the Contractor at the address designated in his/her proposal, or to such address as he/she may designate in writing as his/her official place of business.
- 4. Service Requirements All services and workmanship shall in every respect be in accordance with the best industry standards, and all material supplied shall be new unless specifically approved by Owner.
  - a. Basic Services The volume of liquid sodium hypochlorite to be supplied under this Contract is estimated as shown below. The actual volume of liquid sodium hypochlorite provided under the Contract may be more or less as the demand for use is dictated by wet weather conditions. As estimated annual consumption of 45,000 gallons is expected.

Annual Supply of 15% Liquid Sodium Hypochlorite - 45,000 gallons

## b. Product Identity -

## **Chemical Properties:**

Product Name: Liquid Sodium Hypochlorite, 15% - 16% by volume Chemical Name/Synonyms: Sodium Hypochlorite, Bleach Chemical formula: NaOCl CAS Number: 007681-52-9 HAZARDOUS INGREDIENTS: Sodium Hypochlorite, 5.50 – 15.60% by weight OSHA 29CFR 1910.1200 Evaluation: HAZARDOUS Molecular weight: 74.44 Appearance: Bright yellow to yellow-green liquid Odor: Chlorine odor pH: 12.5 – 13.5

Solution Strength	Available Chlorine by %Volume	Available Chlorine by % Weight	Specific Gravity @ 60°F
	15.0 % - 16.0 %	12.45% - 13.15%	1.206 - 1.218
Excess Alkalinity	NaOH%	NaOH Grams/Liter	
(Typical)			
	0.3% - 0.5%	3.0gpl – 5.0gpl	

## **Physical Properties:**

Specific Gravity: 1.1964, 12.50% by Weight Available Chlorine Boiling Point, °F: > 212 @ 12.50 Weight % Available Chlorine Freezing Point °F: - 11 @ 12.50 % Weight % Available Chlorine Solubility in Water: Complete

NSF International maximum use for 12.50 Weight% Available Chlorine: 84 milligrams per liter

- 5. Detailed Service Specifications Owner represents these Detailed Service Specifications to be accurate, but any ancillary issues not specifically mentioned in this specification, but required to carry out its intent, are required by these specifications, and Contractor shall perform as though specifically mentioned, described, or delineated. It is the responsibility of the Contractor to verify <u>ALL</u> specifications necessary for the safe and efficient supply of liquid sodium hypochlorite to the Owner.
- 6. Damage Restoration The Contractor, at his/her expense, shall restore any damage to Owner's grounds, buildings, or properties caused by the Contractor during the work, to original condition.
- 7. General The Contractor shall provide supply products and services in support of the efficient operation of the Lombard Combined Sewer Operation facility as follows:
  - **a.** The Liquid Sodium Hypochlorite shall be 15% 16% by volume.
  - **b.** The Contractor will call Owner at (630) 790-1901 when delivery truck is within 30 minutes of the plant site for an operator to meet him/her at gate.
  - c. Provide liquid sodium hypochlorite for the Owner's sewage treatment system on an as needed basis throughout the time period of this contract and will deliver the sodium hypochlorite within two (2) working days of notification from the Owner. If an emergency situation arises, as deemed by Owner, Contractor agrees to deliver the sodium hypochlorite within twenty-four (24) hours' notice from Owner. Purchases will be requested on a
minimum of 1500 gallons per delivery, but Owner does not guarantee any minimum purchase during the term of this Agreement.

- **d.** The Contractor's personnel will unload the liquid sodium hypochlorite from the Contractor's truck to the Owner's liquid storage tank in a safe and efficient manner consistent with current industry and all applicable safety standards with no help from the Owner's employees.
- e. The Contractor shall notify the Owner immediately of the existence of any unsafe condition, storage tank overfilling, or liquid hypochlorite spillage.
- **f.** The Contractor's truck shall have a working meter to determine the amount of liquid sodium hypochlorite delivered. The Owner's storage tank level and truck meter readings are to be recorded at the beginning and end of delivery.
- **g.** The Contractor will pay all royalties and license fees, if applicable.

## Section D: Contractor's Proposal for Liquid Sodium Hypochlorite Supply Services

## To: Executive Oversight Committee Glenbard Wastewater Authority

The bidder has examined, read, and considered the terms and conditions of all the Contract Documents for the above-titled project, the site of the work, the means of access thereto, the adjoining and adjacent premises and the facilities to provide services at the Lombard Combined Sewage Treatment Facility.

The Bidder has also examined the Invitation to Bid, the Requirements and Instructions to Bidders (Bidding Requirements, hereinafter), has made the examinations and investigations therein required, and has been advised as follows:

The Glenbard Wastewater Authority, (GWA hereafter), is exempt from the Illinois State Sales Tax, and prices quoted shall not include the cost of such taxes. The Illinois Exemption Number is E9983-8303-03. The prices quoted herein by the bidder conclusively include all other direct or indirect Federal, State, County, and local taxes and fees which apply and also comply with all Federal laws and regulations.

Extension prices bid in this proposal are based upon GWA's estimate of approximate quantities and are to be used for bid comparison purposes only, and are not intended to represent any guarantee by the bidder that all work requested by GWA and specified herein can be performed within these estimates of approximate quantities. The Bidder proposes, in accordance with the terms and conditions of the Contract Documents, to do all the work called for in said Contract Documents, and to furnish all materials, tools, labor, supervision, and all appliances and appurtenances, including transportation, necessary for full completion of the work, in places as specified, for the unit prices quoted to wit:

Item 1Provide Liquid Sodium Hypochlorite Supply, per specifications<br/>attached hereto, for the unit price of:

Percent available chlorine by volume in Liquid Sodium Hypochlorite: 15% - 16%

Price per gallon of Liquid Sodium Hypochlorite (delivered):

\$ <u>No dollars and seventy-one point zero one cents</u> (Written in words)

Price per gallon of Liquid Sodium Hypochlorite: \$ 0.7101

(Written in figures)

BID EXTENSION: Above bid price x 45,000 annual units =

Thirty-one thousand nine hundred fifty-four dollars and fifty cents
 (Written in words)

BID EXTENSION: Bid price x 45,000 annual units = \$ <u>31,954.50</u> (Written in figures)

In the event that there is a discrepancy between the "Written in Words" and the "Written in Figures" amounts, the "Written in Words" amount shall govern.

The bidder hereby guarantees that all material, equipment and appurtenances furnished under this Proposal will be free from defects in manufacture and supply, and will not inhibit continuous satisfactory biologic sewage treatment operation.

In submitting this Proposal, the Bidder represents and warrants the availability of the necessary skilled trades people and other classifications of labor necessary to perform the work required.

The Bidder, in submitting this Proposal, verifies that all of the Contract Documents listed in the Table of Contents for this Bid Document are attached hereto.

The Bidder's attention is directed to the agreement for information on insurance requirements. It is strongly recommended that the bidder investigate the costs of obtaining the required insurance before submitting a bid proposal. The Bidder hereby accepts the invitation of the Glenbard Wastewater Authority to submit this proposal.

Firm Name:	Alexander Chemical Corporation, A Carus Company		
By:	(Signature of Authorized Offi David J Kuzy (Print name of Officer)	icer)	
	President/CEO (Title of Officer)		
Address:	315 Fifth Street		
	Peru, IL 61354		
Telephone:	800-435-6856	Fax:	815-224-6697

# ALL SIGNATURES SHALL BE IN WRITING AND NO PROPOSAL SHALL BE CONSIDERED UNLESS SO SIGNED.

Bidders shall acknowledge receipt of any addenda to this Proposal (a) by signing and returning the addenda with their proposal, or (b) by identifying the addenda numbers in the space provided below.

Note: By identifying the addenda numbers, the Bidder acknowledges that they have taken into consideration all revisions of each addendum when preparing and submitting the Proposal.

Addendum No. (s)	Ø

## Section E: Agreement Between Owner and Contractor

This is an Agreement made as of \_\_\_\_\_\_, 2020 between the Glenbard Wastewater Authority ("Owner") and <u>Alexander Chemical Corporation, A Ca</u>rus Company ("Contractor"), for Liquid Sodium Hypochlorite Supply Services. Owner and Contractor, in consideration of their mutual promises agree to the performance of services by the Contractor and the payment for those services by the Owner.

Owner: Glenbard Wastewater Authority 945 Bemis Road Glen Ellyn, IL 60137

Contractor:	
Alexander Chemical Corporation, A Carus Company	
315 Fifth Street	
Peru, IL 61354	

Project: Liquid Sodium Hypochlorite Supply Services

The Owner and Contractor agree as set forth below:

## **ITEM 1 - BASIC SERVICES OF CONTRACTOR**

- 1.1 Contractor shall perform all the work specified in the Contract Documents. The term "work" means the delivery, construction and/or execution of products and services required by the Contract Documents, and includes all material, labor, equipment, tools, appliances, appurtenances, supervision and other services necessary for the Contractor to perform and complete everything specified or implied in the Contract Documents.
- 1.2 Contractor shall provide Owner with Safety Data Sheets (SDS) for all chemicals and materials requiring use by Contractor on Owner's property.

## **ITEM 2 - TERM OF THE AGREEMENT**

- 2.1. This Agreement shall commence January 9, 2020 and will end on January 9, 2023.
- 2.2. This Agreement may be renewed annually for up to three (3) successive one (1) year terms by written notice of renewal submitted by either party to the other and acceptance in writing by the non-notifying party. Prices charge in any renewal term shall not exceed the price sated in Section3.1 of this Agreement by more than five percent (5%).
- 2.3. Prices charged under this Agreement for any renewal term shall be recalculated and agreed to by both parties and approved by both parties in a written amendment attached to this Agreement. Failure to agree on new prices shall constitute non-renewal.
- 2.4. Owner may terminate this Agreement during its original term or any renewal term if Contractor fails to fulfill any service or obligation required of Contractor under this Agreement. Termination having been explicitly contemplated by Contractors or Owner, notice of election to terminate shall take the following form:

## NOTICE OF TERMINATION

This is to notify you that GWA has elected to cancel and terminate, and does hereby cancel and terminate, effective \_\_\_\_\_\_, 20\_\_\_, the following written contract entered into with you, all in accordance with the terms and provisions thereof: Liquid Sodium Hypochlorite Supply Services; Bid Opening: December 18, 2019, Between Glenbard Wastewater Authority and Alexander Chemical Corporation, A Carus Company (Contractor).

- 2.5. Notice of Termination shall be by service of the above by certified mail or in person by the GWA and upon the Contractor.
- 2.6 Any Notice of Termination shall be sent to provide thirty (30) days notice, prior to the actual date of termination, to the Contractor.

2.7. Notices served by certified mail shall be presumed to have been received four (4) days after mailing of said notice. Notice shall be sent to Contractor's address stated in the Proposal:

CONTRACTOR:

Alexander Chemical Corporation, A Carus Company

315 Fifth Street

Peru, IL 61354

## **ITEM 3 - PAYMENTS TO CONTRACTOR**

3.1 The Contractor agrees to accept, and the Glenbard Wastewater Authority agrees to pay, the following prices as full compensation for furnishing all the labor, tools, materials, and appurtenances necessary to complete all the work specified in this Contract, also for all loss or damage arising out of the nature of the work or from the action of the elements, or from any unforeseen obstructions or difficulties encountered in the prosecution of the same; and for all risks of every description connected with the work; and for well and faithfully completing the entire work, free of all claims, liens and charges whatsoever and in full compliance with the specifications and the requirements of the Glenbard Wastewater Authority, complete under them, to wit:

Liquid Sodium Hypochlorite:

\$<u>No dollars and seventy-one point zero one cents</u> per gallon delivered. (Written in Words)

\$<u>0.7101</u> per gallon delivered. (Written in Figures)

BID EXTENSION: Above bid price x 45,000 units = (\$31,954.50) (Written in Figures)

In the event that there is a discrepancy between the "Written in Words" and the "Written in Figures" amounts, the "Written in Words" amount shall govern.

The above prices will be used to determine compensation to the Contractor for the work, but Owner does not guarantee that Owner will request any minimum or maximum quantities of work, for unit price items.

3.2. <u>Monthly Statement</u>. Contractor will tender a monthly statement to Owner for services performed during the preceding month. The statement will detail gallons of liquid sodium hypochlorite provided at the time of each billing. Owner shall remit payment as per the Illinois Prompt Payment Act.

3.3. <u>No Guarantee of Employment</u>. Nothing contained herein shall constitute a guarantee that Contractor will be employed for a minimum number of days or hours during the period covered by this Agreement or any renewal thereof.

### **ITEM 4 - DUTIES OF OWNER**

<u>Owner's Responsibilities</u>. The Owner is responsible to provide a cleared access road for the Contractor's delivery vehicles to reach the Owner's storage tank fill station. The Owner will, whenever possible, notify the Contractor at least two (2) working days in advance of the required need for liquid sodium hypochlorite. However, if an emergency situation arises, as deemed by the Owner, Contractor agrees to deliver the sodium hypochlorite within twenty-four (24) hours of notice from the Owner.

### **ITEM 5 - SPECIAL PROVISIONS**

5.1. <u>Indemnification and Insurance</u>. This Agreement is subject to the following special provisions:

5.1.1. Indemnification Against General Liability: The Contractor and Owner shall indemnify, hold harmless and defend each other and their agents, officers and employees from and against all claims, damages, losses and expenses, including but not limited to attorney's fees arising out of or resulting from the services provided, however, that any such claims, damage, loss, or expense (1) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, and (2) is caused in whole or in part by any negligent act or omission of the Contractor and Owner, anyone directly or indirectly employed by them or anyone for whose acts Contractor may be liable regardless of whether or not is caused in part by a party indemnified hereunder, in which case Contractor's and Owner's liability shall be limited to its proportionate or contributory share of the negligence covering the claim, damage, loss or expense.

Type text he

5.1.2. Insurance: The Contractor shall maintain at all times throughout the term of this Agreement, and throughout any extension or renewal thereof, insurance with minimum limits and coverage as shown below:

a. Workers' Compensation - Worker's Compensation Insurance, including Occupational Disease, meeting the statutory requirements of the State of Illinois, and Employer's Liability Insurance in an amount of at least One Million Dollars (\$1,000,000.00). Policy must waive subrogation against the Owner; however, such waiver shall not apply where Owner is solely negligent or the proximate cause of the injury arises from Owner's activity outside the oxygen plant.

b. Comprehensive General Liability Insurance: Comprehensive General Liability Insurance providing One Million Dollars (\$1,000,000.00) each for bodily injury and property damage combined single limit; Two Million Dollars (\$2,000,000.00) in the aggregate for this Agreement. If such aggregate shall be partially or totally impaired as the result of losses suffered outside this Agreement, Contractor shall provide through other insurance, or its own means, that amount required to provide Owner with Two Million Dollars (\$2,000,000) of aggregate protection in any single policy year.

c. Excess Liability Insurance: At the Contractor's option, primary limits may be less than required above with an excess liability (umbrella) policy providing the additional limits required. This form of insurance will be acceptable provided it, combined with primary policies, provide the insurance coverage herein required and that the excess liability minimum amounts equal or exceed Two Million Dollars (\$2,000,000) per occurrence and Five Million Dollars (\$5,000,000) in the aggregate.

d. The Glenbard Wastewater Authority, its Executive Oversight Committee, Officers, agents, and employees, the Village of Glen Ellyn, and the Village of Lombard are to be acknowledged on the Certificate of Insurance as "Additional Insured" with respects to liability.

e. Comprehensive Automobile Liability Insurance: Comprehensive automobile liability insurance, covering all owned, non-owned and hired vehicles in limits of liability equal to those set forth herein above, namely One Million Dollars

(\$1,000,000.00) combined single limit.

5.2. <u>Certificates of Insurance</u>: The Contractor shall furnish to the Owner, Certificates of Insurance evidencing coverage of the above recited insurance requirements.

5.2.1. All Certificates of Insurance must state that any material change in coverage or non-renewal or cancellation will be provided to the Owner ten (10) days prior to the effective date of any such change, non-renewal or cancellation.

5.2.2. The form of the Certificate of Insurance shall be subject to the reasonable approval of the Owner and its attorney.

5.2.3. The Certificates of Insurance will be delivered to Owner forthwith.

5.2.4. It is understood and agreed that the insurance coverage and limits required above shall in no way limit the extent of the Contractor's responsibilities and liabilities specified within this Agreement.

5.2.5. It is understood and agreed that authorization is hereby expressly granted to Owner without the benefit of "lien right" in favor of Contractor for the Owner to withhold payments to the Contractor until a properly executed Certificate of Insurance providing insurance as required herein is received by the Owner.

5.2.6. It is expressly understood and agreed by the Contractor that it will not proceed with the services described in this Agreement until the required insurance certificates are in the hands of the Owner.

- 5.3. <u>Subcontracts</u>. Contractor shall not subcontract with any other company except as expressly specified and approved by Owner.
- 5.4. <u>Accounting Records</u>. Records of basic services performed by personnel of Contractor and personnel expense, if applicable, all as related to this Agreement, shall be kept on the basis of generally accepted accounting principles and shall be available to the Owner or the Owner's authorized representative during normal business hours.

5.5 <u>Contractor's Representations</u>. The Contractor represents to the Owner that it is familiar with the Site, governmental requirements controlling the storage, transport, and delivery of liquid sodium hypochlorite and all Industry standard specifications and policies; that the services of the Contractor will reflect knowledge and consideration of work site conditions and applicable governmental regulations which are in effect on the days during which services are performed by Contractor and shall be in conformance with Industry standard specifications and policies.

## **ITEM 6 - GENERAL PROVISIONS AND EXHIBITS**

6.1. This Agreement is subject to the following General Provisions:

6.1.1. This Agreement may not be assigned by either party, except with the prior written consent of the other party.

6.1.2. No assignment of this Agreement shall relieve the assignor of any of its liabilities hereunder.

6.1.3. No waiver of any right or failure to exercise any remedy with respect to any matter or event subject to this Agreement, shall be or be deemed to be a waiver of such right or remedy with respect to any other matter or event, or to constitute a precedent for purposes of the interpretation of this Agreement.

6.1.4. Headings used in this Agreement are for convenience of reference only, and shall not be considered in the construction or interpretation of this Agreement.

6.1.5. This Agreement shall be governed by the laws of the State of Illinois. Venue shall be in DuPage County.

6.2. <u>Exhibits</u>. The following exhibits are attached to and made a part of this Agreement:

6.2.1 "Section C: Specifications for Liquid Sodium Hypochlorite Supply Services"

6.2.2. "Route Map to Lombard CSO Facility"

- 6.3. <u>The Agreement</u>. This Agreement, together with the exhibits identified above, constitute the entire agreement between Owner and Contractor and supersede all prior written or oral understandings. This Agreement and said exhibits and schedules may only be amended, supplemented, modified or canceled by a duly executed written instrument.
- 6.4 <u>Limit of Liability</u>. In no event shall Contractor or Owner be liable for any special, indirect, incidental, consequential or punitive damages hereunder, whether or not such damages were caused by or resulted from Contractor's or Owner's negligence. No claim of any kind of breach of warranty, whether based on negligence, warranty, or breach of contract, shall be greater in aggregate amount than Fifty Thousand dollars (\$50,000), except for any amounts recovered under or paid by the Contractor's Insurance required to be maintained as per Section 5 of this Agreement. However, nothing in this paragraph shall limit in any way the liability of the Contractor for claims brought by its employees due to the amount or type of damages, compensation, or benefits payable by or for, or paid by or for, the Contractor under any Workers' Compensation or Disability Benefit Acts or Employee Benefit Acts.

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement as of the day and year first above written.

Owner:

Glenbard Wastewater Authority Glen Ellyn, Illinois

(Chairman, Executive Oversight Committee)

Contractor:

Alexander Chemical Corporation, A Carus Company

315 Fifth Street

Peru, IL 61354

(Authorized Representative) David J Kuzy/President, CEO

## Section F: Certificates

#### **ITEM 1: NON-COLLUSION CERTIFICATE**

### CERTIFICATION THAT CONTRACTOR IS NOT BARRED FROM PUBLIC CONTRACTING DUE TO BID-RIGGING OR BID ROTATING CONVICTION

WHEREAS, a conviction for the offense of bid-rigging or bid rotating bars a person or entity from bidding on public contracts (720 ILCS 5/33E-3, 33E-4), and

WHEREAS, Section 33E-11 of the Criminal Code (720 ILCS 5/33E-11) requires bidders and contractors to certify on a form provided by the unit of government or school district that they are not barred from public contracting due to bid-rigging of bid rotation convictions.

NOW, THEREFORE, IT IS CERTIFIED THAT the undersigned,

#### Alexander Chemical Corporation, A Carus Company

(Individual, Firm, Corporation, or Other Entity)

Is not barred from bidding on or entering into public contracts due to having been convicted of bid-rigging or bid rotation under paragraphs 33E-3 or 33E-4 of the Illinois Criminal Code. The undersigned also certifies that no officer or employee of the bidder or contractor, have been so convicted, and that the bidder or contractor is not the successor company, or a new company created by the officers or owners of one so convicted. It is further certified that any such conviction occurring after the date of this certification will be reported to the above-named public body, in writing, within seven (7) days of such conviction, if it occurs during any bidding process, contract term, or otherwise prior to entering into any contract therewith.

DATED: December 16, 2019 By:	David J Kuzy/President, CEO
Attest:	(Printed Name of Officer) (Signature)
Samaution Pumo	
- (Signature) Samantha Pumo/Bid Specialist	(Corp. Seal or Registration Number

"In the event that circumstances certified to in this certificate should change, we will notify you of the change within fifteen (15) calendar days".

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### **ITEM 2: ACKNOWLEDGEMENTS**

#### EQUAL EMPLOYMENT OPPORTUNITY

In the event of the Contractor's non-compliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act, or the Rules and Regulations of the Illinois Department of Human Rights ("Department"), the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be canceled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation. During the performance of this Contract, the Contractor agrees as follows:

- 1. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- 2. That, if it hires additional employees in order to perform this contract, or any portion hereof, it will determine the availability (in accordance with the Department's Rules) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- 3. That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental handicap unrelated to ability, or an unfavorable discharge from military service.
- 4. That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Department's Rules. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules, the Contractor will promptly so notify the Department and the Contracting Agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- 5. That it will submit reports as required by the Department's Rules, furnish all relevant information as may from time to time be requested by the Department or the Contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules.

- 6. That it will permit access to all relevant books, records, accounts and work sites by personnel of the Contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules.
- 7. That it will include verbatim or by reference, the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.
- 8. That it will comply with the provisions of 775 ILCS 5/2-105 relating to public contracts.

\* \* \* \* \*

Contractor acknowledges its obligations:

- a) to comply with the aforementioned Equal Employment Opportunity clause, items 1 through 8.
- b) to comply with the requirements of Sections 269 to 275, Chapter 48, Illinois Revised Statutes, 1989, re: preference to employment of Illinois laborers;
- c) to comply with the Illinois Act regulating wages of laborers, mechanics and other workers employed in any public works commonly known as the Illinois Prevailing Wage Act, Section 39(s)-1, chapter 48, Illinois Revised Statutes, 1989.
- d) to comply with the Illinois Minimum Wage Law, Chapter 48, Section 1001, et seq., Illinois Revised Statutes, 1989.

Alexander Chemical Corporation, A Carus Company
(Contractor)
by:



**Glenbard Wastewater Authority** 

945 Bemis Road Glen Ellyn, Illinois 60137 Telephone: 630-790-1901 – Fax: 630-858-8119 Website: www.gbww.org

## **Directions to Lombard Stormwater Plant**

From North of Route 64 on I-355 Southbound:

- $\geq$ Exit at Route 64 Eastbound
- $\succ$ Eastbound (right) to Route 53 Southbound (right @ Traffic light
- AAA Southbound to St. Charles Road Eastbound (left)
- Eastbound to Crescent Blvd (switch-back to right) @ traffic light
- Westbound to Finley @ stop sign and Southbound over RR Tracks
- Immediately across tracks run Westbound (right) onto Hill Avenue
- Cross Bridge over I-355 and plant entrance is on left

From South of Route 56 on I-355 Northbound:

- $\triangleright$ Exit at Route 56 (Butterfield Road) Westbound (left) at top of ramp
- Westbound to Route 53 Northbound (right) @ Traffic Light  $\geq$
- $\triangleright$ Northbound past Route 38, around curve to Spring Street Northbound (left) at Traffic Light
- Northbound to Stop sign (dead end) at Hill Avenue  $\geq$
- Eastbound (right) past residential area, and immediately past slam  $\triangleright$ industrial buildings to plant entry just east of DuPage River.

## Office Phone Number: (630) 790-1901 call 30 mins. Prior to arrival

**Protecting the Environment for Tomorrow** 

## SAFETY DATA SHEET



#### 1. Identification

Product identifier	Sodium hypochlorite solution - sodium hypochlorite 12.5%
Other means of identification	Not available.
Recommended use	Primarily used as a water treatment chemical as a disinfectant. Also used as a bleaching agent.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier	/Distributor information
Company name	Carus Corporation
Address	315 5th Street
	Peru, Illinois 61354, USA
Telephone	(815) 223-1500
Toll Free	(800) 435-6856
Fax	(815) 224-6816
E-mail	salesmkt@caruscorporation.com
Website	www.caruscorporation.com
Company name	Alexander Chemical Corporation, a Carus Group Inc. Company
Address	7593 S. First Road,
	Kingsbury Industrial Park, Kingsbury, Indiana 46345, USA
Website	www.alexanderchemical.com
Company name	Sierra Chemical Co, a Carus Group Inc. Company
Address	2302 Larkin Circle
	Sparks, Nevada 89431, USA
Website	www.sierrachemsales.com
Contact person	Dr. Chithambarathanu Pillai
Telephone	(800) 348-8827 - All other non-emergency inquiries about the product should be
•	directed to the company
Emergency telephone number	For Hazardous Materials [or Dangerous Goods] Incidents ONLY
	(spill, leak, fire, exposure or accident), call CHEMTREC at
	CHEMTREC®, USA: 001 (800) 424-9300
	CHEMTREC®, Mexico (Toll-Free - must be dialed from within country):
	CHEMTREC®, Other countries: 001 (703) 527-388

#### 2. Hazard(s) identification

Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Hazardous to the aquatic environment, acute hazard	Category 1
Not classified.	
	Corrosive to metals Skin corrosion/irritation Serious eye damage/eye irritation Hazardous to the aquatic environment, acute hazard Not classified.

Label elements



Danger

Signal word Hazard statement Precautionary statement Prevention

May be corrosive to metals. Causes severe skin burns and eye damage. Toxic to aquatic life.

Keep only in original container. Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.
Storage	Store locked up. Store in corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

#### 3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	<u>%</u> 5-20
Sodium chloride	7647-14-5	
Sodium hypochlorite	7681-52-9	5-20
Sodium hydroxide	1310-73-2	1-5

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from	During fire, gases hazardous to health may be formed.

**Special protective equipment** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

the chemical

**Fire-fighting** 

equipment/instructions

Specific methods

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for	This product is miscible in water.	
	Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Store locked up. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).	

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3
US. ACGIH Threshold Lim	it Values	
Components	Туре	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
US. NIOSH: Pocket Guide	to Chemical Hazards	
Components	Туре	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
US. Workplace Environme	ntal Exposure Level (WEEL) Guides	
Components	Туре	Value
Sodium hypochlorite (CAS 7681-52-9)	STEL	2 mg/m3
Biological limit values	pgical limit values No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	ring Good general ventilation (typically 10 air changes per hour) should be used. Ventilation ra should be matched to conditions. If applicable, use process enclosures, local exhaust ven or other engineering controls to maintain airborne levels below recommended exposure lin exposure limits have not been established, maintain airborne levels to an acceptable level wash facilities and emergency shower must be available when handling this product.	
Individual protection measures	s, such as personal protective equipm	ent
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Nitrile or neoprene gloves are recommended.	
Other	Wear appropriate chemical resistant clothing.	
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

921760cp Version #: 02 Revision date: 19-January-2016 Issue date: 30-July-2014

#### 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Greenish yellow liquid.
Color	Light greenish yellow.
Odor	Chlorine.
Odor threshold	Not available.
рН	11.5 ±0.3
Melting point/freezing point	-11 °F (-23.9 °C)
Initial boiling point and boiling range	> 212 °F (> 100 °C)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.09 -1.21
Solubility(ies)	
Solubility (water)	Completely soluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
10. Stability and reactivity	
Reactivity	May be corrosive to metals.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Acids. Metals. Strong oxidizing agents.
Hazardous decomposition	No hazardous decomposition products are known. Contact with acids liberates toxic gas.

#### 11. Toxicological information

products

Information on likely routes of ex	posure
Ingestion	Causes digestive tract burns.
Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

#### Information on toxicological effects

Acute toxicity Components **Test Results** Species Sodium chloride (CAS 7647-14-5) Acute Oral LD50 Rat 3000 mg/kg Sodium hydroxide (CAS 1310-73-2) Acute Dermal Rabbit LC50 1350 mg/kg, (Calculated) Oral LDLo Rabbit 500 mg/kg, (Calculated) Sodium hypochlorite (CAS 7681-52-9) Acute Oral LD50 Rat 8.91 g/kg Causes severe skin burns and eye damage. Skin corrosion/irritation Causes serious eye damage. Serious eye damage/eye irritation Respiratory or skin sensitization **Respiratory sensitization** Not classified. This product is not expected to cause skin sensitization. Skin sensitization Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. IARC Monographs. Overall Evaluation of Carcinogenicity Sodium hypochlorite (CAS 7681-52-9) 3 Not classifiable as to carcinogenicity to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. This product is not expected to cause reproductive or developmental effects. **Reproductive toxicity** Not classified. Specific target organ toxicity single exposure Specific target organ toxicity -Not classified. repeated exposure Not classified. Aspiration hazard **Chronic effects** Prolonged inhalation may be harmful.

#### 12. Ecological information

#### Ecotoxicity

Components		Species	Test Results
Sodium chloride (CAS	5 7647-14-5)		· ··· ·
Aquatic			
Crustacea	LC50	Daphnia magna	874 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4747 - 7824 mg/l, 96 hours
Sodium hydroxide (C/	AS 1310-73-2)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	34.59 - 47.13 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	125 mg/l, 96 hours

Components		Species	Test Results	
Sodium hypochlorite (CAS 76	81-52-9)			
Aquatic				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.03 - 0.07 mg/l, 96 hours	
Persistence and degradability	No data is ava	ilable on the degradability of this product.		
Bioaccumulative potential	No data availa	ble.		
Mobility in soil	No data availa	ble.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
13. Disposal consideratior	าร			
Disposal instructions	Collect and red this material to with chemical d local/regional/r	claim or dispose in sealed containers at lice drain into sewers/water supplies. Do not o or used container. Dispose of contents/con national/international regulations.	ensed waste disposal site. Do not allow contaminate ponds, waterways or ditches atainer in accordance with	
Local disposal regulations	Dispose in acc	ordance with all applicable regulations.		
Hazardous waste code	D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
Waste from residues / unused products	Dispose of in a	ccordance with local regulations.		
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.			
14. Transport information				
DOT				
UN number	UN1791			
UN proper shipping name Transport hazard class(es)	Hypochlorite so	blutions		
Class	8			
Subsidiary risk	-			
Label(s)	8			
Packing group Environmental bazards	11			
Marine pollutant	Yes			
Special precautions for user	Read safety ins	structions, SDS and emergency procedure	s before handling.	
Special provisions	A7, B2, B15, IE	2, IP5, N34, T7, TP2, TP24	U	
Packaging exceptions	154			
Packaging non bulk	202			
Packaging bulk	242			
	11114704			
UN number	UNI791 Hypochlorite sc	slution		
Transport hazard class(es)	- Aboundure at			
Class	8			
Subsidiary risk	-			
Packing group	11			

 ERG Code
 8L

 Special precautions for user
 Read safety instructions, SDS and emergency procedures before handling.

 IMDG
 Image: Note that the state of the stateo

UN number UN1791 UN proper shipping name HYPOCHLORITE SOLUTION

Environmental hazards

Yes

Transport hazard class(es)	
Class	8
Subsidiary risk	
Label(s)	8
Packing group	II
Environmental hazards	Vec
FmS	F-A S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This product is a liquid and when transported in bulk is covered under MARPOL 73/78 Annex II. This product is listed in the IBC Code. Ship type: 2 Pollution category: Y
15. Regulatory information	I Contraction of the second
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Export N	lotification (40 CFR 707, Subpt. D)
Not regulated.	
OSHA Specifically Regulated	I Substances (29 CFR 1910.1001-1050)
Not listed.	000 List (40 CEP 302 4)
Sodium hypochlorite (CAS	\$ 7681-52-9) LISTED
Superfund Amendments and Rea	authorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardo	ous substance
Not listed.	
SARA 311/312 Hazardous chemical	Yes
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	Netroquieted
(SDWA)	
US state regulations	This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:
	DANGER Keep out of reach of children. Hazardous to Humans and domestic animals. Corrosive, causes severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. This pesticide is toxic to fish and aquatic organisms. Strong oxidizing agent.
US. Massachusetts RTK	- Substance List
Sodium budrovido (CA	S 1210 72 2)

Sodium hydroxide (CAS 1310-73-2)

Sodium hypochlorite (CAS 7681-52-9)

#### US. New Jersey Worker and Community Right-to-Know Act

Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Sodium hydroxide (CAS 1310-73-2)

Sodium hypochlorite (CAS 7681-52-9)

#### US. Rhode Island RTK

Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

#### International Inventories

Country(s) or region Inventory name

On invento

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

On inventory (yes/no)\*

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	30-July-2014
Revision date	19-January-2016
Version #	02
NFPA ratings	0

Disclaimer

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change and, therefore, holders and users should satisfy themselves that they are aware of all current data and regulations relevant to their particular use of product. CARUS CORPORATION DISCLAIMS ALL LIABILITY FOR RELIANCE ON THE COMPLETENESS OR ACCURACY OR THE INFORMATION INCLUDED HEREIN. CARUS CORPORATION MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTIABILITY OR FITNESS FOR PARTICULAR USE OR PURPOSE OF THE PRODUCT DESCRIBED HEREIN. All conditions relating to storage, handling, and use of the product are beyond the control of Carus Corporation, and shall be the sole responsibility of the holder or user of the product.

## GLENBARD WASTEWATER AUTHORITY

## **Bid Tabulation**

## Sodium Hypochlorite

Bid Opening Date: December 18 2019

BIDDER	REPRESENTATIVE	EMAIL ADDRESS	PHONE	BOND	TOTAL PRICE
1 Water Solutions Unlimited	Amy Bagley	abagley@getwsu.com	630-362-0868		\$1.20/gallon
					\$54,000
2 Jones Chemical Inc.		<u>summer@jcichem.com</u>	630/920-8833		No Bid
Alexander Chemical, A Carus Company		bids@caruscorporation.com			\$.7101/gallon
					\$31,954.00
4 Southern Ionics Incorporated	Khristy Todd	ktodd@southernionics.com	662/494-3055, Ext. 207		No Bid
P.O. Drawer 1217, 579 Commerce St.					
West Point, MS 39773					
5 Rowell					\$.798/gallon
					\$35,910.00

# **SECTION 5.5**

RENEWAL – AIR GAS – VAPORIZER EQUIPMENT LEASE AND LIQUID OXYGEN HAULING -YEAR 4 OF 5

- **TO:** Executive Oversight Committee
- FROM: Matt Streicher P.E., BCEE
- **DATE:** January 9, 2020



### **RE:** Request for Waiver of Bids and Authorization Year 4 of 5 Year Lease of Atmospheric Vaporizers and Airgas Liquid Oxygen Hauling Agreement.

In October 2016, after detailed evaluation and analysis, as well as based on qualifications and price, the EOC approved to enter into a 5-year agreement with **Airgas** for the hauling of liquid oxygen at the proposed pricing structure in the below table:

Year	O2 Price Schedule (per 100 cubic feet)	Delivery Charge
1	\$0.250	\$15,600
2	\$0.258	\$15,600
3	\$0.266	\$15,600
4	\$0.274	\$15,600
5	\$0.282	\$15,600

Also in October 2016 the EOC formally approved entering into a contract with **Airgas** for the leasing of atmospheric vaporizers for the amount of **\$1,500 per month** for the 5-year proposed liquid oxygen hauling schedule. The leasing is a fixed cost per month.

Through November, 2019 \$298,431.78 was spent from the \$345,000 budgeted, with the estimated average of \$27,130 per month (down from \$29,866 per month in CY18) delivered in CY2019. Based on that number, along with our ability to reduce the amount of oxygen usage, \$330,000 was budgeted in CY2020 as a conservative amount.

If approved, year 4 of 5 of the liquid oxygen hauling contract shall be invoiced to Fund 270-530443. If the leasing of the atmospheric vaporizers is approved, year 4 of 5 of that contract shall be invoiced to Fund 40 Capital Plan, which has \$20,000 budgeted for CY2020. Both numbers have been taken into account for future budgets as well.

Please advise and thank you.

# **SECTION 5.6**

# CONTRACT LABORATORY SERVICES - OPEN PURCHASE ORDER REQUEST

TO:	Executive Oversight Committee
FROM:	David Goodalis, Operations Superintendent Through Matt Streicher, Executive Director
DATE:	January 9, 2020
RE:	Request for open Purchase Order for Contract Laboratory Services



The Authority Staff would like to request waiving of competitive bidding requirements per the Village of Glen Ellyn code, 1-10-2: EXCEPTIONS TO COMPETITIVE BIDDING. Per Administrative Order No. 3 Section "D" Professional Services – Section 3 the Authority is required to seek at least three competitive proposals. The Operations and Laboratory staff have solicited three quotes for laboratory professional services. The quotes have been solicited from the following three qualified laboratories.

Laboratory	Price for One Calendar Year of Service
Suburban Labs	\$16,800.00
First Environmental Labs	\$15,847.20
Teklabs	\$16,458.40

The total cost of service includes Analysis for Permit Requirements and Process Samples. Only Permit requirements are mandated to be done by a certified lab.

A summary sheet of work projected to be required is attached along with the submitted cost proposals from Suburban, First Environmental, and Teklabs. Due to superior performance and past history, Authority staff would prefer to select Suburban Labs, despite it not being the lowest overall quote. Since this is considered a professional service the basis was picked as a quality-based selection. The summary sheet demonstrates that the prices quoted by Suburban Labs are within typical ranges, and results in projected work necessary of \$16,800 for a one-year period. This is a 32.8% decrease from when quotes were obtained in early 2017. Although, the cost can be variable as call out work is required for the Stormwater Facility during rain events, as well as any extra sampling that might be required for our permit discharge or special condition on river sampling.

This professional service is budgeted in the CY2020 O&M budget account #270-520806 Prof. Serv. Laboratory in the amount of \$28,500. The Operations and Laboratory staff kindly requests the Executive Oversight Committee to approve an open purchase order for a not to exceed amount of \$28,500 as budgeted.

#### **Contract Labs Comparison 2020**

	First		
	Suburban Labs	<b>Enviromental Labs</b>	Teklabs, Inc.
Annual Priority Pollutants			
Influent	\$340.00	\$396.00	\$390.00
Effluent	\$340.00	\$396.00	\$390.00
Sludge	<u>\$340.00</u>	<u>\$396.00</u>	<u>\$390.00</u>
Annual Cost	\$1,020.00	\$1,188.00	\$1,170.00
Quareterly NPDES Testing			
Influent	\$323.00	\$273.60	\$262.95
Effluent	<u>\$433.00</u>	<u>\$363.60</u>	\$325.45
Quarterly Cost	\$756.00	\$637.20	\$588.40
Annual Cost	\$3,024.00	\$2,548.80	<u>\$2,353.60</u>
Monthly Metals (503 regs.)			
Anaerobic	\$345.00	\$331.20	\$316.90
Filter Cake	<u>\$250.00</u>	<u>\$219.60</u>	<u>\$404.05</u>
Monthly Cost	\$595.00	\$550.80	\$720.95
Annual Cost	\$7,140.00	\$6,609.60	\$8,651.40
Monthly Sludge Monitoring			
Sludge Fecals	<u>\$50.00</u>	\$48.00	\$32.00
Monthly Cost	\$350.00	\$336.00	\$224.00
Annual Cost	\$4,200.00	\$4,032.00	\$2,688.00
Monthley NPDES Monitoiring	<b>t</b>		
Alkaliity	\$15.00	\$10.80	\$18.55
Chloride	\$13.00	\$10.80	\$14.40
TKN/Total Nitrogen, Nitrates	<u>\$90.00</u>	\$50.40	\$100.00
Monthly Cost	\$118.00	\$122.40	\$132.95
Annual Cost	\$1,416.00	\$1,468.80	\$1,595.40
Total Annual Total	\$16,800.00	\$15,847.20	\$16,458.40

# **SECTION 6.0**

# DISCUSSION

# **SECTION 6.1**

# HIGH STRENGTH WASTE OPERATING PROCEDURE

**TO:** Executive Oversight Committee

FROM: Matt Streicher, P.E. BCEE

**DATE:** January 9, 2020



**RE:** High Strength Waste Receiving Standard Operating Procedure "Schedule A" Proposed Modifications

At the April 2018 EOC meeting, the EOC approved the implementation of new High Strength Waste (HSW) Receiving Standard Operating Procedures (SOP). Accompanying the SOP's was a "Schedule A" that contained mathematical calculations that showed the appropriate amount of HSW waste the Authority could accept in the digesters based off of strengths of materials accepted, strength of existing municipal materials being fed to digesters, volumes of digester storage, and volumes of receiving storage. All calculations were performed conservatively, and some were performed based off assumptions, since at the time some parameters did not exist. Since their implementation, the SOP's have significantly improved the HSW program, and added many safeguards to the process. The SOP's have been being performed smoothly, with very few complaints from staff, and they have demonstrated their effectiveness.

With the continued success of the new program, haulers who had previously become weary of coming to the Authority due to a probability of being rejected, had started to re-establish relationships. Therefore, in April 2019 the EOC authorized increasing the allowable volume to be received. In the past couple of months, there were potential situations in which the Authority would have had to turn away haulers in order to not exceed the volumes allowed in the adopted SOP's, which would have been entirely unnecessary and could lead to steps backwards. In addition, the calculations demonstrate that a greater volume could be accepted. Therefore, since the program has been continuing to go well and no issues have arisen, the Authority will be seeking to amend Schedule A of the SOP's to prevent a digester upset will remain in place, and the Authority is not seeking to modify the SOP's, just the Schedule A calculations.

Attached are several exhibits that demonstrate the modifications that will be requested. Also attached is the SOP language that is *not* being proposed to change, along with an FAQ sheet that would be provided for the public comment period. These are being provided simply for reference purposes. Prior to seeking actual approval from the EOC for the proposed modifications, the Authority requires having a 45-day posting period for public comment.

This item is being brought up for discussion with the EOC prior to the public comment period commencing. With the EOC's approval, the Authority recommends moving forward with initiating the public comment period.



**Glenbard Wastewater Authority** 945 Bemis Road Glen Ellyn, Illinois 60137

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

#### January XX, 2020

Dear Neighbors and Community Members,

As many may recall, in June 2016 the Glenbard Wastewater Authority completed a \$5 Million Combined Heat and Power (CHP) project which allowed the Authority to recover some of the valuable resources that are contained within the wastewater we receive and treat. One of the main impacts of the project is that it allows the Authority to be greener by reusing resources in the wastewater instead of contributing to the creation of greenhouse gases, but it also allows the Authority to capitalize on lower energy costs and receive revenue. The revenue in turn is helping offset the \$5 Million cost of this project, and also can help the Authority budget for future capital projects that would normally increase user fees a faster pace. In August of 2017, the Authority's digestion process became upset due to improper co-digestion methods while accepting of high strength wastes (HSW) and fats, oils, and greases (FOG). HSW/FOG were being received from outside sources in order to help the CHP yield greater results. Therefore, due to the digester upset, a temporary moratorium was put on accepting HSW/FOG until the cause of the upset could be properly identified and analyzed.

At the April 2018 Executive Oversight Committee (EOC) meeting, the EOC approved the implementation of new HSW/FOG Receiving Standard Operating Procedures (SOP), and lifted the moratorium on the acceptance of the material. A couple of the main components of the new SOP's were that an additional pump was installed to allow for a steadier feed of HSW/FOG and limits were set on the volumes of HSW/FOG allowed to be received, and fed to the digestion process. In 2016 when the program was first initiated, there were not limitations set on the amount of HSW/FOG the Authority would accept or feed to the digestion system. The SOP's set restrictions on those amounts that were conservative in order to establish confidence in the Accompanying the SOP's was a "Schedule A" that contained mathematical program again. calculations that showed the appropriate amount of HSW/FOG waste the Authority could accept in the digesters based off of strengths of materials accepted, strength of existing municipal materials being fed to digesters, volumes of digester storage, and volumes of receiving storage. All calculations were performed conservatively, and some were performed based off assumptions, since at the time some parameters did not exist. Since their implementation, the SOP's have significantly improved the HSW/FOG program, and added many safeguards to the process. The SOP's have been being performed smoothly, with very few complaints from staff, and they have demonstrated their effectiveness.
With the continued success of the new program, haulers who had previously become weary of coming to the Authority due to a probability of being rejected, have now started to re-establish relationships. In the past couple of months, there were potential situations in which the Authority would have had to turn away haulers in order to not exceed the volumes allowed in the adopted SOP's, which would have been entirely unnecessary and could lead to steps backwards in our relationships with the haulers. In addition, the calculations based off our actual conditions still continue to demonstrate that a greater volume could be accepted. Therefore, since the program has continued to be going well and no issues have arisen, the Authority is seeking to amend Schedule A of the SOP's again to allow another step increase for a greater volume of HSW/FOG to be received per day. It is important to point out that although we are looking to increase the volume of HSW/FOG that we accept, we are still setting limitations on it, unlike when the program first started and there were none. It is also important to note that the feed or loading rate to the digesters is still well within an acceptable rate, the main purpose of this revision is so that we can use our storage capacity to the fullest and there can be a more continuous feed to the digesters. All safeguards in the SOP's to prevent a digester upset will remain in place, as the Authority is not seeking to modify the SOP's, just the Schedule A calculations.

Attached are a couple of exhibits that demonstrate the modifications that are be requested, along with an updated set of "frequently asked questions." Also, attached is the SOP language that is *not* being proposed to change, along with the original "Frequently Asked Questions" document. These are both being provided for reference purposes. As stated in the original SOP's, prior to seeking actual approval from the EOC for the proposed modifications, the Authority requires having a 45-day posting period for public comment.

Therefore, we invite you to review this material and provide any feedback or questions to the Authority. After the 45-day public posting period, Authority staff will present the EOC with a final version of the calculations based on any feedback received, and seek approval. The anticipated date the Authority will seek approval from the EOC is on March 12, 2020 at the regularly scheduled meeting, which will be held at the Glenbard Wastewater Authority at 8am.

We appreciate your time and concern in the matter, and encourage you to contact us with any questions or requests for information. You may contact me directly at <u>mstreicher@gbww.org</u>, or 630-790-1901 x126.

Sincerely,

that the

Matt Streicher, P.E. BCEE Executive Director Glenbard Wastewater Authority

### Schedule A

**Sludge Production** 

Design Loading (Per 2007 Anaerobic Improvements Project)			Current Loading (April 2019 - May 2019)		
Quantity Units			Quantity	Units	
Total Sludge Production	32,400	Pounds Total Solids (TS) per day	Total Sludge Production	8,698	Pounds Total Solids (TS) per day
Volatile Solids (VS) Production	24,300	Pounds VS Per Day	Volatile Solids (VS) Production	7,140	Pounds VS Per Day
Solids Concentration 4.3 %		%	Solids Concentration 3.0% %		%
Flowrate	90,000	Gallons Per Day	Flowrate to digester 45,475 Gallons Per Day		Gallons Per Day
			Percent VS	82.09%	%

#### Anaerobic Digesters (Digesters 1 & 2 are primary digesters. Digester 3 is a unmixed and unheated digester. Digesters 1 and 2 receive both primary sludge and waste activated sludge)

	Dig	ester volumes	
		Quantity	Unit
Digester 1: Primary Dig	ester	933,000	Gallon
Digester 2: Primary Dig	ester	525,000	Gallon
Digester 3: Secondary I	Digester	375,000	Gallon
		1,833,000	Gallon
Total volume of Digest	ters	245,053	Cubic Feet
	Digester Loading	Rates (Existing	Performance)
		Quantity	Unit
Volume of Primary Dige	esters	194,920	Cubic Feet
		1,458,000	Gallons
Current Primary Digest	er Municipal Loading Rate	7,140	Pounds VS Per Day
Organic Loading Rate			
Organic Loading Rate Per the Manual of Prac	Additional Allowabl tice No. 11, Operations of Municipal	36.63 e Digester Loa Wastewater T	Pounds of VS Per Thousand Cubic Feet Per Day ding Rates (FOG) reatment plants, a completely mixed anaerobic digester ls Per 1 000 (ubic Feet Per Day (lb VS/kcf/d)
Organic Loading Rate Per the Manual of Prac organic loc	Additional Allowabl tice No. 11, Operations of Municipal ading rate range is 100-400 Pounds o	36.63 e Digester Loa Wastewater T f Volatile Solic	Pounds of VS Per Thousand Cubic Feet Per Day ding Rates (FOG) reatment plants, a completely mixed anaerobic digester Is Per 1,000 Cubic Feet Per Day (Ib VS/kcf/d)
Organic Loading Rate Per the Manual of Prac organic loa	Additional Allowabl tice No. 11, Operations of Municipal ading rate range is 100-400 Pounds o	36.63 e Digester Loa Wastewater T If Volatile Solid Quantity	Pounds of VS Per Thousand Cubic Feet Per Day ding Rates (FOG) reatment plants, a completely mixed anaerobic digester Is Per 1,000 Cubic Feet Per Day (Ib VS/kcf/d) Unit Pounds of VS Per Thousand Cubic Feet Per Day
Organic Loading Rate Per the Manual of Prac organic loa Allowable Organic Load	Additional Allowabl tice No. 11, Operations of Municipal ading rate range is 100-400 Pounds o	36.63 e Digester Loa Wastewater T f Volatile Solic Quantity 100	Pounds of VS Per Thousand Cubic Feet Per Day ding Rates (FOG) reatment plants, a completely mixed anaerobic digester Is Per 1,000 Cubic Feet Per Day (Ib VS/kcf/d) Unit Pounds of VS Per Thousand Cubic Feet Per Day Pounds VS Per Day
Organic Loading Rate Per the Manual of Prace organic load Allowable Organic Load VS Loading Capacity	Additional Allowabl tice No. 11, Operations of Municipal ading rate range is 100-400 Pounds o ding Rate	36.63 e Digester Loa Wastewater T f Volatile Solid Quantity 100 19,491.98	Pounds of VS Per Thousand Cubic Feet Per Day ding Rates (FOG) reatment plants, a completely mixed anaerobic digester ls Per 1,000 Cubic Feet Per Day (lb VS/kcf/d) Unit Pounds of VS Per Thousand Cubic Feet Per Day Pounds VS Per Day Pounds VS Per Day
Organic Loading Rate Per the Manual of Prac organic loa Allowable Organic Load VS Loading Capacity Additional Capacity for	Additional Allowabl tice No. 11, Operations of Municipal ading rate range is 100-400 Pounds o ding Rate Digestion of HSW	36.63 e Digester Loa Wastewater T f Volatile Solid Quantity 100 19,491.98 12,352	Pounds of VS Per Thousand Cubic Feet Per Day ding Rates (FOG) reatment plants, a completely mixed anaerobic digester ls Per 1,000 Cubic Feet Per Day (lb VS/kcf/d) Unit Pounds of VS Per Thousand Cubic Feet Per Day Pounds VS Per Day Pounds VS Per Day
Organic Loading Rate Per the Manual of Prac organic loa Allowable Organic Load VS Loading Capacity Additional Capacity for Allowable Additional V % TS (E-mail Report)	Additional Allowabl tice No. 11, Operations of Municipal ading rate range is 100-400 Pounds o ling Rate Digestion of HSW folume of HSW at	36.63 e Digester Loa Wastewater T f Volatile Solid Quantity 100 19,491.98 12,352 24,836	Pounds of VS Per Thousand Cubic Feet Per Day ding Rates (FOG) reatment plants, a completely mixed anaerobic digester ls Per 1,000 Cubic Feet Per Day (lb VS/kcf/d) Unit Pounds of VS Per Thousand Cubic Feet Per Day Pounds VS Per Day Pounds VS Per Day Gallons Per Day
Organic Loading Rate Per the Manual of Prac organic load Allowable Organic Load VS Loading Capacity Additional Capacity for Allowable Additional V % TS (E-mail Report) 6.58%	Additional Allowabl trice No. 11, Operations of Municipal ading rate range is 100-400 Pounds of ding Rate Digestion of HSW /olume of HSW at % VS (Email Report) 90.63%	36.63 e Digester Loa Wastewater T f Volatile Solid Quantity 100 19,491.98 12,352 24,836	Pounds of VS Per Thousand Cubic Feet Per Day ding Rates (FOG) reatment plants, a completely mixed anaerobic digester ls Per 1,000 Cubic Feet Per Day (lb VS/kcf/d) Unit Pounds of VS Per Thousand Cubic Feet Per Day Pounds VS Per Day Pounds VS Per Day Gallons Per Day
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# Below "Allowable" Volume

Typical Daily Schedule (all values are in gallons)							
	Monday	Tuesday	Wednesday	Thurs	Friday	Saturday	Sunday
HSW Volume Available to Start	40,238	33,958	27,678	21,398	15,118	8,838	27,558
HSW Volume Received into Holding Tanks*	25,000	25,000	25,000	25,000	25,000	0	0
HSW Volume Transferred to Digesters	18,720	18,720	18,720	18,720	18,720	18,720	18,720
Tank Volume Remaining in Holding Tanks**	33,958	27,678	21,398	15,118	8,838	27,558	40,238
* - Due to a typical HSW tanker being	ng 5,000 g	allons, volu	ume added to h	olding tan	ks must be	in 5,000 gallor	n increments
** - If schedule is followed exactly, the holding tank would be emptied completely Sunday, resulting in the Total Volume Remaining to be the							
Total Available Volume							
If excess volumes occur, deliveries will be ho	alted or red	luced for a	n appropriate	amount of	time in ord	er to make sto	rage available again.

### HSW Transfer To Digesters Pump Operation

	115 11 11 11 11	insici i u Digesters i
	Gallons	
Pump Speed (Variable Drive Percent Loading)	Per	
	Minute	
5%	3-9	Due to HSW (especia
10%	18-20	to allow for higher s
15%	25-35	HSW Transfer Pump
25%	42-47	the day
50%	88	
75%	88	
85%	90-110	
100%	130-145	

1OP 11 states no less than 10-15 Days)

1OP 11 states normal range is 40%-60%)

Conservative Volume Safely to be Able to Transfer to Digesters **Calculated Based Off Actual Conditions** 

### Increased from 20k/day to 25k/day

ally FOG) being prone to creating blockages in the pipe, in order scouring velocities, the pump will be cycled on/off on an hourly p Shall Operate at 100% (~130 gpm) for 6 minutes every hour of (Total Volume Transfer = 18,720 gallons per day)

# Increased from 5 min/hr to 6 min/hr (15,600 GPM to 18,720 GPM)



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

### High Strength Waste Operating Procedure Frequently Asked Questions

Glenbard Wastewater Authority January 2018

#### About:

The Glenbard Wastewater Authority located in Glen Ellyn, Illinois is an agency formed in 1977 between the Villages of Lombard and Glen Ellyn via an intergovernmental agreement. Its mission is to operate and maintain municipal wastewater treatment facilities, protect public health, and protect the environment, for approximately 109,000 residents and businesses in the Lombard, Glen Ellyn, Valley View/Butterfield and Glen Ellyn Heights service areas. (www.gbww.org/about-us)

In 2017, the facility began processing High Strength Waste, including fats, oils and greases. The below FAQ contains information about the benefits and procedures involved in the processing these materials.

1. What is High Strength Waste (HSW) and Fats, Oils, Greases (FOG)?

High strength waste (HSW) can be defined as wastewater that has more impurities in it than levels found in domestic wastewater, which is wastewater generated in homes. While this is a general definition, Glenbard Wastewater Authority (GWA) accepts only HSW that is generated during food processing or preparing. This includes waste such as grease laden water generated by restaurant dishwashing, sugar and grease laden water from the recycling of expired soda pop, salad dressing and other food products as well as clean up water from food manufacturing such as candy.

Fats, oils and greases (FOG) are a specific type of high strength waste. It is generated by restaurants during the preparation and clean-up of meals. Restaurants are required to have a grease trap to remove the grease from dishwashing water to keep it out of the sewers. Grease traps then must be pumped out from time to time and the material (food particles, oil and grease) properly disposed of. FOG is a desired high strength waste because it provides lots of energy over a long period versus sugar wastewater that provides high energy for short periods of time. This can be compared to how the human body reacts to sugar versus protein.

#### 2. Why does GWA want to accept HSW, including FOG?

The wastewater treatment process uses large amounts of electricity. It accounts for a significant percent of our operating costs. Just like for homeowners, rising utility costs are a concern. GWA is constantly looking for ways to be energy efficient. A by-product of

### **Protecting the Environment for Tomorrow**

wastewater treatment is methane gas. GWA has upgraded parts of the treatment system to be able to capture this gas and use it to generate energy to run the plant. However, the domestic wastewater coming into the plant from the area's businesses and homes is not enough to generate all the energy GWA needs to operate. By accepting HSW and FOG, GWA will be able to generate a larger portion of the energy it needs to run.

The more energy GWA can produce, the less it has to pay for it. In addition to producing energy, the process generates heat. This heat is also captured and used in the process instead of depending on natural gas boilers for heat. This further reduces utility costs for GWA. Additionally, it allows budget money to be shifted to fund much needed upgrades to aging equipment and helps contain sewer rates for all users of the system.

This process is a "green" initiative and helps preserve the environment. It keeps HSW and FOG from ending up in a landfill and turns it into renewable energy. It also reduces the carbon footprint GWA creates since a larger portion of the treatment process would be run by the renewable energy.

#### 3. How is HSW/FOG turned into energy?

Wastewater treatment at GWA is hugely dependent on micro-organisms or "bugs". The bugs are in large covered tanks called digesters. The HSW/FOG is pumped into these tanks as food for the bugs. The bugs eat the grease, food particles, and sugars in the HSW/FOG and produce methane gas. The methane gas is then captured and processed through engines to generate electricity.

# 4. Why is the Glenbard Wastewater Authority (GWA) deciding to take in HSW and FOG again?

After the biological upset during late summer/early fall of 2017, a temporary moratorium was placed on the acceptance of these materials, with the anticipation of accepting it again after thorough investigation to ensure proper handling and addition of the material. Accepting HSW/FOG will allow GWA to produce more bio-gas (or methane, which is a natural bi-product of wastewater treatment), which in turn will allow for the generation of more renewable energy to use on site. Since our mission is to both protect public health and preserve the environment, this is a method of saving costs, protecting the public health, and being green to help preserve the environment. The cost savings realized will assist GWA in paying for future improvements, which will result in minimizing costs for GWA customers.

#### 5. How did GWA put together the Standard Operating Procedures?

GWA had initially reached out to members of the public to attempt to form an Ad-Hoc committee, but only had one volunteer, and unfortunately could not put together a proper committee. Therefore, GWA performed in depth research on proper methods of receiving and adding the material to our own waste, and formulated it into a document. GWA staff also visited a neighboring wastewater treatment plant who is currently, and successfully, accepting HSW/FOG. Procedures that have worked successfully for this other facility were included in GWA's policy.

# 6. What kind of preventative measures do the Standard Operating Procedure include?

GWA will thoroughly vet haulers before allowing them to bring material in, as well as thoroughly analyzing the nature of the material they propose to haul in to ensure it is a suitable product. Once GWA has deemed a hauler and their material acceptable, the hauler will be issued a permit, along with a copy of the standard operating procedures. The hauler will also be required to provide a "renders license," or sign an affidavit, which states they will only bring in material that was agreed upon. The volume will be carefully controlled and each delivery will be inspected by GWA staff with a sample taken from each load.

# 7. What caused the offensive odor in August of 2017 and what is GWA doing to try and prevent it from happening again?

Plain and simple, the bugs were overfed. This caused a chain reaction and the treatment system got upset; much like when you overeat or eat something that does not agree with you. The treatment process was still working, but since it was upset it produced more hydrogen sulfide than normal. Human noses are extremely sensitive to the smell of hydrogen sulfide, so even though the odors were potent, the levels contained in the air were non-hazardous. GWA took air samples during this time period, and although the odors were detectable by the human nose, the levels of hydrogen sulfide in the air at the plant were too low to even register in the measuring devices.

#### 8. What has GWA done to prevent an upset from occurring again?

The entire process has been thoroughly reviewed by GWA staff and consulting engineers and the following improvements have been made:

- An additional pump was added to be able to continuously and slowly feed the digesters with the HSW/FOG, where previously a single pump was being shared between the receiving and digester loadingsteps of the process. This allows GWA to feed the bacteria with more consistency instead of the "feast or famine" method from having only a single pump.
- GWA staff visited a neighboring wastewater treatment plant who is currently, and successfully, accepting HSW/FOG. Procedures that have worked successfully for this other facility were included in GWA's procedures.
- The calculations regarding how much HSW/FOG could be safely added were reviewed and revised. That data collected from the 10 months of successfully accepting this waste were included.
- While GWA had a process in place to accept the HSW/FOG, the policy has been reviewed, refined and formalized in a standard operating procedure document. Safeguards have been incorporated into this document to ensure limits on accepting HSW/FOG are regulated closely. Click here to review GWA's full SOP for HSW/FOG Receiving.
- Additional laboratory tests will be done on the HSW/FOG in order to best determine how much food the bugs are receiving; similar to knowing the calories in your food and staying within a certain number of calories per day to ensure a healthy diet.
- Additional and more frequent laboratory tests are being performed on the digesters themselves so that the Authority can be proactive in seeing if there is

any trend towards a potential upset, and be able to take preventative measures prior to an upset occurring.

#### 9. How will GWA know if a biological upset is going to happen again?

Whether or not GWA accepts HSW/FOG, the possibility of an upset always exists, as this is a biological process much like human digestion. Just like every person has different tolerances and is prone to digestive upsets, GWA's digesters have the potential of being upset even just from the normal domestic wastewater stream coming from our residents. However, as part of the standard operating procedures, GWA will be monitoring the biological health of the digesters much closer. The procedures define a set of published standards on digester health, and GWA have set those standards to be even more conservative than what is recommended. If it's noticed the health of the digester is approaching the limits of those standards, we can immediately begin taking preventative measures in order to attempt to stop an upset from occurring.

#### 10. Who should we contact for further information regarding this process?

You can always contact Matt Streicher, GWA's Executive Director, with any questions. He can be reached by phone at 630-790-1901x126, or via email at <u>mstreicher@gbww.org</u>. GWA is always open to providing tours as well if you would like to come see the process first hand, and learn more about wastewater treatment. During off hours, you can always call our main number at 630-790-1901, and be connected to an operator on call.



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### Amended High Strength Waste Receiving Frequently Asked Questions

Glenbard Wastewater Authority January 2020

#### 1. What do you mean "revised based off actual conditions?"

When some of the parameters were originally calculated with the standard operating procedures, it was prior to some equipment actually being in operation, and therefore estimated or theoretical values were used. For example, when calculating the volumes of the tanks, exact dimensions of the tanks were used. Now, after using the system for a substantial amount of time, we realize that we actually cannot utilize the entire tank because of how the pumps operate, therefore the available volume of storage (tank volume) has been reduced. Also, the new transfer pump had not been used, so the pump speeds were based off values provided by the manufacturer. Again, after a substantial period of time using the pump, we realize that it is actually pumping at a higher rate than originally estimated.

The primary example of an estimated value that we are now replacing with an actual value is the percent total solids (%TS) and the percent volatile solids (%VS). The original numbers used in the calculations were very conservative theoretical values. Now, we routinely grab samples from each delivery, and perform laboratory analysis in order to calculate actual values to use. As demonstrated in the "Schedule A" calculation sheet, allowable loading rates used in the calculations are still being kept at very conservative values in order to error on the side of caution.

# 2. The volume being transferred to the digesters is increasing by 20%. Is that too much?

When the moratorium on accepting HSW/FOG was lifted in the Spring of 2018, the intent was to start off slow to ensure the process was understood, with the intent to slowly increase the program over a period of time. The biological calculations show that our digesters can actually accept quite a bit more HSW/FOG than the 20% increase we're proposing, however we are being precautious and increasing slowly. We may seek further increases in the future if we continue to demonstrate our success. The total volume of our digestion system is over 1.8 million gallons, and we are only seeking to add another 25,000 gallons over a weeks period (less than 1.4% of the total digester volume), so in the grand scheme it is a relatively small amount. It is also important to note that the feed or loading rate to the digesters is still well within an acceptable rate, the main purpose of this revision is so that we can use our storage capacity to the fullest and there can be a more continuous feed to the digesters.

#### 3. Will there be more truck traffic if this is allowed?

Yes, there could be a slight increase in truck traffic. Typically, this material is delivered in tanker trucks that carry roughly 5,000 gallons each. Since we're only seeking to increase the allowable receiving volume by 5,000 gallons, that means we should only see about one more truck a day. Deliveries are only allowed Monday through Friday, from 7am to 4pm, and not on holidays.

#### 4. Will this generate more odors?

The increase in volume of HSW/FOG received, and an increase in volume being fed to the digesters will not generate more odors. This system is entirely enclosed and not open to the air. The odors experienced in 2017 were due to the digestor upset which has driven the creation of the more strict SOP. The odors that our neighbors experience during the late summer months are typically due to low influent flows of raw wastewater, not HSW/FOG, and are completely unrelated. However, as explained in the FAQ"s for the standard operating procedures, the digestion process is a biological process, and is always subject to getting "upset" whether or not high strength wastes are added. This process is much like the digestion process of the human body, which can be very prone to getting upset, but also can be avoided with proper practices. While we perform every measure we can to prevent an upset, we need to disclose that an upset is always a possibility with or without HSW/FOG.

#### 5. Are the standard operating procedures changing?

No, the actual standard operating procedures are not changing, just the biological and volume calculations. The Authority has had great success with the new standard operating procedures and intends to continue enforcing them. The intent of the procedures are to ensure we take thorough steps to monitor the stability of the entire system and document everything.

#### 6. Who should we contact for further information regarding this process?

You can always contact Matt Streicher, GWA's Executive Director, with any questions. He can be reached by phone at 630-790-1901x126, or via email at <u>mstreicher@gbww.org</u>. GWA is always open to providing tours as well if you would like to come see the process first hand, and learn more about wastewater treatment. During off hours, you can always call our main number at 630-790-1901, and be connected to an operator on call.

Month/Year	Gallons Received (Monthly)	Gallons Allowed (monthly/daily)	
Oct-16	221,000	N/A	
Nov-16	314,960	N/A	
Dec-16	180,894	N/A	
Jan-17	270,253	N/A	
Feb-17	319,906	N/A	
Mar-17	306,330	N/A	
Apr-17	353,953	N/A	
May-17	471,371	N/A	
Jun-17	572,038	N/A	
Jul-17	589,543	N/A	* Digester Upset
Aug-17	-	0	
Sep-17	-	0	
Oct-17	-	0	* Digester Recovered
Nov-17	-	0	
Dec-17	-	0	
Jan-18	-	0	
Feb-18	-	0	
Mar-18	-	0	
Apr-18	-	0	
May-18	63,882	300,000/15,000	* Moratorium Lifted
Jun-18	44,500	300,000/15,000	
Jul-18	60,500	300,000/15,000	
Aug-18	65,900	300,000/15,000	
Sep-18	30,400	300,000/15,000	
Oct-18	38,100	300,000/15,000	
Nov-18	77,873	300,000/15,000	
Dec-18	96,222	300,000/15,000	
Jan-19	83,875	300,000/15,000	
Feb-19	104,450	300,000/15,000	
Mar-19	172,115	300,000/15,000	
Apr-19	151,990	400,000/20,000	* EOC Approved Increase
May-19	166,920	400,000/20,000	
Jun-19	189,666	400,000/20,000	
Jul-19	194,896	400,000/20,000	
Aug-19	179,003	400,000/20,000	
Sep-19	137,175	400,000/20,000	
Oct-19	222,475	400,000/20,000	
Nov-19	194,464	400,000/20,000	
Dec-19	-	400,000/20,000	
Jan-20	-	400,000/20,000	
Feb-20	-	400,000/20,000	
Mar-20	-	500,000/25,000	* Proposed Increase
Apr-20	-	500,000/25,000	
May-20	-	500,000/25,000	
Jun-20	-	500,000/25,000	
Jul-20	-	500,000/25,000	



### STANDARD OPERATING PROCEDURE

#### HIGH STRENGTH WASTE RECEIVING

Date Approved: March 8, 2018 Approved By: Glenbard Wastewater Authority Executive Oversight Committee

**PURPOSE:** A guide to qualify proposed digester feedstock and to safely and effectively accept the feedstock and process it for the purposes of co-generation. It is important to note that this is a biological process, and that while defining strict operating procedures, the possibility of an upset condition cannot be eliminated – only reduced. Staff shall not be held liable for an upset condition as long as these procedures are followed.

**SCOPE:** This Standard Operating Procedure (SOP) covers all aspects of receiving High Strength Waste (HSW). and is broken down into sections as detailed below.

It is desirable to use a single source hauler for delivery of high strength waste to the Authority so that greater control of delivery amounts and accountability of delivered materials can be had. However, as market changes may necessitate using more than one hauler or changing the sole hauler, included in this SOP is the process of qualifying additional feedstock and suppliers.

Part I			Staff Responsible: Environment	al Resources Coordinator			
Qu	alif	ication of Feedstock					
1.	HS	W hauler will provide a comp	lete description of the waste char	acteristics, including the			
	foll	owing:					
	a.	Waste type and origin. Type	e description to include general ir	ndustry (food, medical, etc.)			
	b.	b. A Laboratory analysis of the proposed feedstock waste must be submitted and reviewed. The hauler may provide the analysis from an independent laboratory or it may be analyzed by the Glenbard Wastewater Authority (GWA) laboratory staff at the hauler's sole expense.					
	C.	The analysis must contain th	e following parameters and be w	ithin the ranges indicated.			
		Parameter	Minimum	Maximum			
		COD	30,000	N/A			
		рН	3	8			
	%VSS		60%	100%			
		Sulfates 0 350 mg/Kg					
		Volatile Fatty Acids Informational Purposes Only/No Limit					
		Sulfates Volatile Fatty Acids	0 Informational Purposes Only/No I	350 mg/Kg Limit			

- 2. The Environmental Resources Coordinator (ERC) is responsible for reviewing the data provided and accepting or declining the feedstock based on the established range of parameters.
- 3. The ERC may decline feedstock that meets the analysis criteria when there are other concerns, such as consistency or other risk factors.
- 4. The Executive Director has the final approval or disapproval in all instances. The Authority has the right to refuse any feedstock or hauler at any time

Part 2		Staff Responsible: Environmental Resources Coordinator
Hauler Qualification		
1.	Prior to delivering feedstock, pro agreement with GWA.	pposed haulers must complete a permit application/contract
2.	Haulers must provide proof of in A. Comprehensive General Liab damage, and contractual liabili	usurance with the following minimum coverage: wility Insurance covering personal injury, bodily injury, property ty in the amount of One Million Dollars (\$1,000,000) for each

occurrence and Two Million Dollars (\$2,000,000) aggregate per policy period; B. Comprehensive Automobile Liability Insurance covering personal injury, bodily injury and Property damage with a minimum combined limit of One Million Dollars (\$1,000,000).

- C. Worker's Compensation insurance in the minimum amounts required by statute.
- 3. A certificate or certificates of insurance naming THE AUTHORITY, the Village of Lombard and the Village of Glen Ellyn as additional insured parties. The certificate or certificates shall reflect the above coverages and shall be in effect at all times. Updated certificates of insurance shall be submitted annually to the Authority.
- 4. Haulers must provide a "renders license" or sign an affidavit certifying they only transport material agreed upon.
- 5. The ERC is responsible for reviewing the information submitted and recommending that the hauler be approved or disapproved.
- 6. The Executive Director has the final approval or disapproval in all instances.

Part 3	Staff Responsible: Operations Department
Feedstock Receiving	Back-Up Staff: ERC

- 1. The ERC should make all efforts possible to schedule deliveries ahead of time, and convey this schedule to Operations on a daily basis or as mutually convenient.
- 2. Haulers must stop at gate and push button to announce arrival and open the gate.
- 3. A member of the Operations Department will meet the hauler at the receiving station to unlock it.
- 4. Prior to unlocking the station to commence discharge, the operator must check the daily log to ensure that there is capacity and the maximum volume of waste received will not be exceeded by the acceptance of the load. The criteria for the maximum volume of waste allowed to receive will be found in Schedule A of these SOP's.
- 5. The hauler is to provide a completed manifest for the load.
- 6. The hauler must fill out the label on a GWA provided sample container and use the container to grab a sample of the load as it is discharging.
- 7. Sample jars are to be provided by the Authority with labels.
- 8. The sample is to be placed in the small refrigerator that is located near the desk in the garage of the press building (Building P).
- 9. A member of the Operations Department will observe the discharge to check for possible contaminants.
- 10. Should the load appear to be contaminated, the operator must stop the hauler from discharging anymore of the suspect load.
- 11. When the discharge is complete, the operator will re-lock the station.
- 12. Once the maximum amount of HSW is received for that day, the operator must communicate this to the ERC and the administrative secretary in order to divert any further loads.
- 13. If there is failure in equipment associated with the receiving, maintaining, or transfer of the High Strength Waste, additional hauling will be ceased immediately until such equipment is repaired.
- 14. Deliveries will only be received when full time staff is present, i.e. M-F 7am-4pm, excluding holidays.

Pa	Vart 4     Staff Responsible: Operations/Laboratory	
Pr	ocessing of HSW Samples	
1.	At the end of each day, a membe	r of the Operations Department is to collect all load sample
	bottles from the refrigerator loca	ted in Building P, ensure they are labeled properly, and place
	them in the laboratory refrigerato	or in the designated area.
2.	Laboratory staff is to ensure that	if there are multiple haulers throughout a month that the
	random samples reflect each of the	he haulers.
3.	If the Authority is to receive loads	s from multiple haulers, the results of these random samples will
	be entered into OPS works in the	HSW worksheet.
4.	All samples are to be saved for th	irty (30) days, and at the end of the thirty (30) day period
	composited and analyzed for tota	l solids and volatile solids.
5.	The results of this composited sar	mple are to be entered into OPS works on the Digester Volatile
	Acids worksheet and used to calc	ulate the amount of volatile solids being sent to the digester.
	This will be used to determine if a	an appropriate amount of HSW is being sent to the digesters and
	will be evaluated monthly, or if/w	hen a new waste stream is introduced.
6.	Laboratory staff is to take a samp	le of the digester three times a week (Monday, Wednesday, and
	Friday) at consistent times and ar	alyze it for the acids to alkalinity ratio. This data is to be
	recorded in the "Volatile Acids Bin	nder," as well as the Digester Volatile Acids worksheet in the
	database management software	(currently OPS Works).
7.	The Laboratory Services Coordina	tor and/or Operations Superintendent is responsible for
	reporting any changes to the acid	s to alkalinity ratio outside above 0.15 to the Operations
	Superintendent and Executive Dir	rector immediately, and feeding of High Strength Waste to the
	digester will immediately be ceas	ed. In this event, more frequent digester sampling will be taken
	as needed to more closely monito	or the health of the digester and ensure upset conditions are not
	occurring. This range has been de	termined based on existing data from extended time periods
	when the Authority's digesters ar	e operating without issue.
8.	If the acids to alkalinity ratio rang	e exceeds allowable limits, and/or the acids go above 200 mg/L,
	in a 24-hour period, feeding of Hi	gh Strength Waste to the digester will immediately be ceased.
	In this event, more frequent diges	ster sampling will be taken as needed to more closely monitor
	the health of the digester and ens	sure upset conditions are not occurring.

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9. In the event of any upset conditions, the collected samples may be analyzed to determine if any potential containments were introduced via the high strength waste loads. Investigative work would be performed based on the type of upset condition that occurred, and if any unusual or suspect loads were received.

Part 5	Staff Responsible: Executive Director/ Operations Department
HSW Daily Loading	

- 1. The Executive Director shall work with the Authority consultants to determine the maximum daily HSW volume that may be received, and that may be transferred to the digesters.
- 2. The determination of allowable volume to be transferred to the digesters will be made based on volatile solids loading bases, volume of storage available in the digesters, an acceptable feed rate to the digesters and resultant, empirical digester process testing.
- 3. The determination of allowable volume to be received will be made based on the volume of HSW allowed to be transferred to the digesters, the volume of storage available, and acceptable feed rates to the digesters in accordance with calculations defined in the attached "Schedule A."
- 4. These calculations will be reviewed periodically for potential adjustment based on: (a) Changes in the volatile solids loading base.

- (b) Changes in equipment or process changes.
- (c) Changes in the normal range of the volatile acids to alkalinity ratio.
- 5. The HSW Transfer pump to the digesters will be programmed to cease operating when the maximum allowable volume determined in Schedule A has been transferred to the digesters.
- 6. The HWS Transfer Pump (gallons per minute and duration) shall be programmed to pump at a consistent rate throughout the day according to calculations determined on Schedule A
- The Authority, along with its consultants, have determined the maximum volumes of HSW allowed to be received and transferred to the digesters are defined in the attached Schedule A. These calculations are to be reviewed every 12 months and subject to change.
- 8. If changes are made to the high strength waste calculations/receiving/transfer amounts, a notification will be posted publicly on the Authority's website 45 days ahead of time, and notices will be sent via email to the Authority's subscribed email addresses, in order for there to be a public review/comment period.
- 9. Daily transfer rates to the digesters shall be in accordance with Schedule A in order to reduce the potential of a biological upset.

# **SECTION 6.2**

# FACILITY IMPROVEMENT PROJECT – UPDATE



# **FIP Project Update**

- Work Completed Since Last EOC Meeting
  - Filter Building Cleanup, punch list progress
  - Chem-feed Installation Progress Made, To be continued
  - New Raw Pumps Building: Walls and Top Slab Poured
    - Lower Level Boxouts Filled, backfill follows.
    - Pumping of water continues at over 960 gpm
      - Dewatering cost detail received (\$200k \$500k)
  - HVAC Work Controls Installed, C is very loud
  - Updated Schedule received July 08, 2020 substantial completion
  - 293 Submittals
  - 55 Requests for Information
- Work Anticipated Prior to Next EOC Meeting
  - Filter Building punch list update
  - Boxouts filled in. Planning for pump placement
  - Hypo system changes completed















### Days Remaining Until Final Completion (07/25/2020): 314





# **SECTION 6.3**

# **OPERATIONS USING SOLIDS RETENTION TIME**

**TO:** Executive Oversight Committee

FROM: Matt Streicher, P.E. BCEE

**DATE:** January 9, 2020

**RE:** Operations using Solids Retention Time



For many years Plant Operations has operated the high purity oxygen activated sludge process by controlling sludge wasting rates based on a target mixed liquor suspended solids value. While this method of operations has clearly been successful, based on over 5 years of 100% compliance with our effluent requirements, there are some vulnerabilities that could be improved.

Recently, based on educational experiences, staff has learned that there may be a more enhanced method to operate the process, still by controlling sludge wasting rates, but instead of targeting a mixed liquor suspended solids – target a solids retention time. This method would ensure that the age of the biological components in the process stay younger, and therefore more active, which could help them be more resilient and handle variations in conditions better. A couple of vulnerabilities that are specifically being targeted are the susceptibility to ammonia spikes during high flow events, and the "floc strength" of the bugs themselves. The ammonia spikes require staff to spend extra time to address the spikes in order to avoid an excursion. The floc strength is currently an issue with the new disc filters, in that the existing "weak floc" blinds the new filters easily, causing them to backwash frequently – and in turn creates extra wear on the backwash pumps/motors, as well as increased energy use. Another beneficial side effect of this process could be increased digester gas production due to "healthier" biological populations. This increased gas production could then be utilized in the Combined Heat & Power (CHP) engines to generate additional electricity.

This method has been discussed with several wastewater experts, along with a few of the Authority's shortlisted firms, and all agree that it is an established method to control process that could result in improvements. The Authority's staff is curious and willing to attempt to make these changes, however, the adjustments would be made slowly so that if any adverse effects are noticed – the new method could be backed away from in order to avoid any excursions. Therefore, little risk will be assumed in attempting this method.

As seen in the TAC minutes contained in this packet, this was discussed at a TAC meeting, and it was advised to discuss this at the EOC level in order to provide this information.

# **SECTION 7.0**

# **OTHER BUSINESS**

# **SECTION 7.1**

# **TECHNICAL ADVISORY COMMITTEE UPDATES**



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

GWA Technical Advisory Committee (TAC) Meeting Agenda December 19, 2019 9:30am Present: Director Goldsmith, Mr. Streicher, Mr. Romza

- 1. Proposed HSW Modifications
  - a. Volume accepted/flow to digesters

GWA informed the TAC that they will be proposing another increase in the allowable volume of HSW to be accepted, as well as the allowable HSW to be transferred to the digesters. GWA provided conservative calculations that demonstrated the capacity to both accept more HSW and transfer more to the digesters. Also provided were FAQ's and other documents that would be distributed to the public. All adjustments being made fall well within what's acceptable per IEPA standards. The TAC was in agreement with the approach and recommended advising the EOC of this approach, and afterwards begin the 45 day public posting period.

- 2. Chemical Bid Openings
  - a. Sodium Hypochlorite
  - b. Sodium Thiosulfate

Both chemical contracts are set to expire at the end of the year, and therefore advertisements for bids were sent out for contracts on both chemicals. The hypo bid opening was December 18, 2019 at 11am, which Alexander Chemical was the low bidder again on at the price of \$0.7101/gallon, an increase over their previous \$0.632/gallon price. The thio bid will take place December 20, 2019 at 11am. GWA expects to see significant increases in both chemicals, as chemical prices have risen over the past 3-years, along with hauling costs. The TAC supports awarding both the low bidders for both chemical contracts.

3. SRT Discussion/Operation

Mr. Streicher and Mr. Romza explained an operational approach that GWA has been working on giving a try. The approach is not a "groundbreaking" or "bleeding edge" approach, but merely a more direct way to control GWA's activated sludge process. GWA believes this approach may help increase the "floc strength" of the biomass, which in turn could help relieve the excess backwash filter issues that have been occurring. Another side effect could be increased digester gas production, along with simpler operations. The TAC advised a short memo to the EOC summarizing this approach.

4. Future GWA Legal Representation

Moved to Old Business. Mr. Streicher informed the TAC that in light of Greg Dose's retirement, shortly after the new year he will be working on an RFP for legal representation. Mr. Streicher hopes to find some template documents that were used from when the last RFP was sent out. Director Goldsmith stated that he'd share some resources he had as well.

- 5. Other Business
  - a. FIP Update

The removal of the ERS system has begun, with Thatcher almost finished removing the lowest layer of beams in relation to the ERS. Mr. Romza stated that there still have been some issues with responsiveness in regards to the electrical and HVAC contractor, however none of the issues are critical at the moment, they've just been open for quite some time leading to a great deal of frustration.

b. Electrical Grid Design Update

### Protecting the Environment for Tomorrow

*Mr.* Romza informed the TAC that the bid advertisement and opening have both been moved to early CY2020 for this project now.

c. HVAC Project Update

*Mr.* Romza informed the TAC that this project began construction this past Monday, starting with demolition. This project is still on track to be completed before Spring 2020. At the next EOC meeting the ceiling tiles may be missing, but nothing that would prevent the meeting from being held at GWA.

- d. Other EOC Meeting Items
  - i. Annual Approvals (O2, Lab, etc.)

GWA updated the TAC on several routine items that are being requested for approval on at the January 9, 2020 EOC meeting. Director Goldsmith reminded the TAC that even though many of these items are contained in multi-year contracts, it's necessary for the EOC to approve of them on an annual basis, as GWA has the right to withdraw from the contracts. The two specific annual renewals that are being brought to the January 2020 EOC meeting are for liquid oxygen and lab services. Other items will be requested through the course of the calendar year.

- e. PT Operator Position
  - i. FSLA Issues

GWA informed the TAC that VOGE HR has brought up some FSLA issues with both existing and proposed part-time employees. Due to personnel matters, these issues will are not being posted in these minutes.

f. DRSCW Update

GWA informed the TAC that at a Special Condition Permit Holders meeting, the DRSCW mentioned the proposal of negotiating a new deal with the IEPA for phosphorus removal. Instead of WWTP's (GWA included) needing to have a 1.0 mg/L Phosphorus limit by 2025, the new goal would be to have a 0.28 mg/L "in-stream" level by 2040. This would give the industry time to find a new more effective cheaper way to remove P that could save money. The negotiations for the new conditions will begin early Spring of 2020. If allowed, the proposed new condition would allow GWA to defer significant costs.

g. Flow Monitoring Report Meeting

*Mr.* Romza plans to reach out to each Village's Public Works departments early next year to set up a meeting to discuss GWA's annual inflow and infiltration report. Since much of GWA's annual report is a reflection of each Village's collection systems it is mutually beneficial to share the report with all parties involved.

#### 6. Old Business

- a. BioGas media replacement
  - i. VOGE Assistance

Old agenda item – removed from this agenda

- b. UV Disinfection System Issues
  - i. Replacements free of cost

Rick Freeman was able to successfully negotiate the manufacturer to pay for all the items that needed replacement due to poor craftsmanship during the 2016 refurbishment. The Electrical group checked all the other work that was completed to ensure there should be no further issues due to this work.

c. Manhole/Sewer Inspection Reports

Mr. Romza stated that GWA is still waiting for the final reports from Red Zone Robotics for the Sewer Televising that was performed in 2019.

- d. On-Call Discussion No discussion
- e. Forest Preserve County of DuPage Easement Leases (Julius)

As far as Mr. Streicher was aware, Director Hansen was still waiting to hear back from the Forest Preserve in relation to the easement for the NRI along St. Charles Road/Churchill Woods. Mr. Streicher suspects that since St. Charles road was widened after the original easement was granted, the NRI in that area may now fall completely in ROW, which would no longer require GWA to obtain an easement from the Forest Preserve

f. Discussion pertaining to future development of IGA Language for GWA Interceptor vs Village's Collection Systems start and stop points.



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Some light discussion was held in regards to this subject. It would be Mr. Streicher's preference that GWA only maintain the interceptors, therefore ownership of any sewers connecting to the major interceptors would be retained by the Village's all the way into that point of connection. Director Goldsmith agreed and stated this should be included somewhere in the IGA. No further direction was given though, so this item will remain on the TAC agenda.

- i. VGE Chidester vs St. Charles Rd. Lift Station
- ii. VOL L22 vs Junction Chamber
- iii. CSO Regulators and lines between the regulators to the facility
- iv. Any others that can be added

# **SECTION7.2**

# **PENDING AGENDA ITEMS**



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

### 2020 Pending EOC Agenda Items

Projects	Budget	Date	Status
Capital Improvement			
<b>Projects</b>	¢0, 600,000	E a la una a una	
Electrical Service	\$2,600,000	February	
Distribution System			
Dissolida Demotoring	¢220.000	December 0010	
Biosolius Dewatering	\$330,000	December 2019	APPROVED
Poof Pehabilitation	\$362,000	June	
Crit Dump & Sereeninge	\$302,000	April	
Washer/Convoyor	\$310,000	Арти	
Replacement			
Replacement RAS Pump Station	\$180.000	Sentember	
Rehabilitation	φ100,000	ocptember	
Infrastructure			
Improvement			
Hydraulic Modeling Study	\$60,000	April	
HSW Improvements	\$25,000	July	
Modifications			
Equipment			
Rehabilitation			
Annual Collection System	\$200,000	July	
Rehabilitation			
CHP Siloxane and	\$50,000	April	
Hydrogen Sulfide Media			
Replacement	+		
Annual Lift Station	\$50,000	August	
Rehabilitation			
Rolling Stock	# <b>2</b> 0.000	<b>D</b> 1	
Electronic Technician	\$39,000	February	
Venicle			
Administrative			
Forest Preserve Easement	\$150,000	TBD	Under
License Costs for NRI	÷ 100,000		VOGE
			Review

### Protecting the Environment for Tomorrow

# SECTION 8.0 NEXT EOC MEETING THURSDAY FEBRUARY 13, 2020 AT 8:00 A.M.