

CITY OF WEST CHICAGO

WHERE HISTORY & PROGRESS MEET

INFRASTRUCTURE COMMITTEE

Thursday, October 6, 2022
7:00 P.M. – City Council Chambers

AGENDA

1. Call to Order, Roll Call, and Establishment of a Quorum
2. Approval of Minutes
 - A. Infrastructure Committee of September 1, 2022
3. Public Participation / Presentations
4. Items for Consent
 - A. Purchase of Two 2023 Ford Escape Hybrid Vehicles – Bob Ridings Ford, Taylorville, Illinois
 - B. Resolution No. 22-R-0059 – Contract Award – Polydyne, Inc. – Dry Anionic Polymer for Fiscal Year 2023 in an amount not to exceed \$24,720.00
 - C. Resolution No. 22-R-0060 – Contract Award – Mississippi Lime Company – Rotary Hydrated Lime For Fiscal Year 2023 in an amount not to exceed \$512,715.00
 - D. Resolution No. 22-R-0061 – Contract Award – Alexander Chemical Company – Liquid Sodium Hypochlorite For Fiscal Year 2023 in an amount not to exceed \$180,000.00
 - E. Resolution No. 22-R-0062- Contract Award – Alexander Chemical Company – Liquid Aluminum Sulfate For Fiscal Year 2023 in an amount not to exceed \$22,900.00
 - F. Resolution No. 22-R-0063 – Contract Award – Alexander Chemical Company – Hydrofluorosilicic Acid For Fiscal Year 2023 in an amount not to exceed \$26,356.00
 - G. Resolution No. 22-R-0064 – Contract Award – JSL Building Restoration Group, Inc. for the 2022 WTP Joint Sealant Replacement Project in the not to exceed amount of \$139,675.00
5. Items for Discussion
6. Unfinished Business
 - A. 2022 PCI Study
7. New Business
 - A. Private Use of Fire Hydrants
8. Reports from Staff
9. Adjournment

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Ruben Pineda
MAYOR
Nancy M. Smith
CITY CLERK

Michael L. Guttman
CITY ADMINISTRATOR

CITY OF WEST CHICAGO

WHERE HISTORY & PROGRESS MEET

Draft

MINUTES INFRASTRUCTURE COMMITTEE

September 1, 2022 7:00 P.M.

1. **Call to Order, Roll Call, and Establishment of a Quorum.** Chairman Beifuss called the meeting to order at 7:00 P.M. Roll call found Aldermen James Beifuss, Heather Brown, Sandra Dimas, Alton Hallett, and Jeanne Short present. Aldermen Matt Garling and Joe Morano were absent.

Staff present included Director of Public Works Mehul Patel, Assistant Director of Public Works Dave Shah, and Administrative Assistant Ashley Heidorn.

2. **Approval of Minutes**

A. **Infrastructure Committee Minutes of August 4, 2022.** Alderman Brown made a motion, seconded by Alderman Hallett to approve the Meeting Minutes of August 4, 2022.

Roll call found the vote unanimous for approval. Voting Yea: Aldermen Beifuss, Brown, Dimas, Hallett, and Short. Voting Nay: 0.

3. **Public Participation / Presentations.** None.

4. **Items for Consent.** Alderman Brown requested discussion on Consent Items A and D. Alderman Dimas made a motion, seconded by Alderman Hallett to approve:

- B. Resolution No. 22-R-0047 – Contract Award – Excel Electric, Inc. for the WTP SCADA and VFD Replacement Project in an amount not to exceed \$850,000.00
- C. Resolution No. 22-R-0048 – Intergovernmental Agreement with the County of DuPage for the Klein Road Culvert Replacement Project
- E. Resolution No. 22-R-0050 – Contract Award – Schroeder & Schroeder, Inc. for the 2022 Sidewalk and Curb Maintenance Program in the not to exceed amount of \$135,000.00

Roll call found the vote unanimous for approval. Voting Yea: Aldermen Beifuss, Brown, Dimas, Hallett, and Short. Voting Nay: 0.

5. Items for Discussion.

4.A. Rejection of Bids – Water Treatment Plant Waste Lime Sludge Removal Project.

Alderman Brown inquired if anything was in the works for this project since the bids received were substantially over budget. Mr. Patel explained that the City's 2020 contract with Heartland Recycling had an option to extend, but at the same price. Heartland advised staff that they could not hold the original contract price, but proposed a price of \$76.85 per ton. At this price, 2/3 of the sludge could be removed in 2022 with the existing budget. Aldermen Dimas and Beifuss expressed their support of the contract extension to remove whatever sludge is possible.

Alderman Brown asked if the City could take advantage of the \$76.85 per ton price now to get all sludge removed. Mr. Patel explained that the price is valid through June 2023, so the plan is to budget for the remaining 1/3 to be removed next year. **Alderman Dimas made a motion, seconded by Alderman Brown, to reject the bids and approve staff to negotiate a contract with Heartland Recycling for the FY2022 budgeted amount at a price of \$76.85 per ton.**

Roll call found the vote unanimous for approval. Voting Yea: Aldermen Beifuss, Brown, Dimas, Hallett, and Short. Voting Nay: 0.

4.D. Resolution No. 22-R-0049 – Intergovernmental Agreement with the Illinois Department of Transportation and appropriation of funds of City's portion for IDOT Contract 62P22 for improvements along State Route IL-59. Alderman Brown asked for clarification on this item. Mr. Patel explained that IDOT is proposing a project along IL-59 from Edgewood Walk to Kress Creek, including portions of west Joliet Street. The work includes intersection improvements and a new traffic signal at Joliet Street. The project also includes interconnecting traffic signals along IL-59 between IL-56 and IL-64, as well as some signal improvements at IL-59 and James Avenue. Some portions of this work are under the jurisdiction of the City, so IDOT wants to ensure the City will pay its portion of the costs, though the actual cost of the City's participation will be determined after the bid opening. **Alderman Brown made a motion, seconded by Alderman Dimas to approve.**

Roll call found the vote unanimous for approval. Voting Yea: Aldermen Beifuss, Brown, Dimas, Hallett, and Short. Voting Nay: 0.

6. Unfinished Business.

2022 PCI Study. Mr. Patel distributed the 2022 Pavement Condition Index (PCI) Rating Evaluation Summary to show the strategies and costs that would be required in a single year to maintain the City's roadways at an acceptable level. While impractical, the purpose is to give some perspective into what staff is dealing with in terms of roadway maintenance and the costs associated with them. The goal is to maintain the roads at a 70+ rating, but with the current budget and grant funds there simply is not enough money coming in to keep up with the roadways.

7. New Business.

Purchase of Five Police Interceptors. Mr. Patel explained that Ford is struggling to keep up with the automotive chip shortage, and they reserve about 35,000 vehicles for police vehicles across the U.S. As of a couple weeks ago, they already had about 14,000 orders waiting. Typically in the past the State has gone out to bid and staff would use that as a baseline to compare bids from local dealerships to give them an opportunity to beat the price. However, the State has not gone out to bid yet, and if staff waits for that process, there will be no vehicles available. Staff received only two bids after contacting 11 dealerships. Alderman Dimas inquired if the bids received seem reasonable in comparison to previous purchases when considering inflation and the changing economic conditions. Mr. Patel noted that the prices were about 30% higher than what the City paid last for Interceptors, but both dealerships were within 3% of each other so it does not seem to be an issue of price gouging and is more likely a reflection of the current economic climate. Alderman Brown asked if any other manufacturers besides Ford have been considered. Mr. Patel explained that the Police Chief wants Ford vehicles to remain consistent with the existing fleet. Vehicle maintenance is also more consistent because staff would not have to stock additional parts for different manufacturers. Realistically, all manufacturers are experiencing chip shortages and not just Ford, so a different manufacturer would likely be facing the same production and supply issues. **Alderman Dimas made a motion, seconded by Alderman Brown, to approve the purchase of five Police Interceptors and add the item to the September 6th City Council agenda.**

Roll call found the vote unanimous for approval. Voting Yea: Aldermen Beifuss, Brown, Dimas, Hallett, and Short. Voting Nay: 0.

8. Reports from Staff. Mr. Patel introduced Dave Shah as the new Assistant Director of Public Works as of August 15, 2022.

9. Adjournment. At 7:52 P.M., Alderman Hallett made a motion to adjourn, seconded by Alderman Brown. Motion was unanimously approved by voice vote.

Respectfully submitted,

Ashley Heidorn
Administrative Assistant of Public Works

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Purchase of Two 2023 Ford Escape Hybrid Vehicles – Bob Ridings Ford, Taylorville, Illinois

AGENDA ITEM NUMBER:4.A.**COMMITTEE AGENDA DATE:** October 6, 2022**COUNCIL AGENDA DATE:** October 17, 2022**STAFF REVIEW:** Mehul T. Patel, P.E., CFM - Director of Public Works**SIGNATURE****APPROVED BY CITY ADMINISTRATOR:** Michael L. Guttman**SIGNATURE****ITEM SUMMARY:**

The entire auto industry is facing unprecedented times as it relates to supplies and inflationary pressures. In general, vehicles are in short supply everywhere. For FY2023, Community Development and Public Works Department staff is planning and budgeting to replace two Ford Escape vehicles. Both of these are administrative vehicles, which will be mainly used for site visits, offsite meetings, and other non-construction related travel.

To get ahead of the industry-wide short supply, staff within the Fleet Management Division was tasked with putting specs together for all proposed FY2023 vehicles and to obtain pricing. In response to this exercise, one of the Ford dealers that the City has purchased vehicles from in the past, notified staff that the order cutoff through Ford for 2023 Escapes is September 23, 2022.

To expedite the procurement, the City of West Chicago recently solicited price quotes from one Ford dealership from Taylorville, for the 2023 Ford Escape. Bob Ridings Ford responded with the following quote, albeit for a hybrid model.

- Bob Ridings Ford, Taylorville, Illinois - \$31,539.00 each

At this time, most dealers are not placing orders unless they have a purchase order in hand. Based on our conversations with the dealers, this is a Ford requirement. However, due to our existing relationship with Bob Ridings Ford, staff was provided some extra time to obtain a purchase order by going through the regular approvals.

Vehicles will be purchased from the Capital Equipment Replacement Fund (04-34-39-4804) in which \$31,600.00/each will be budgeted in FY 2023. An additional \$3,000.00/each will be budgeted in FY 2023 for necessary appurtenances/equipment (i.e., lights, sirens, decals, radios, etc.) that will be installed by a third party after the City takes delivery of the units. The delivery is expected within 180 days from the order but, given the current circumstances, it can very well be delayed.

ACTIONS PROPOSED:

That the West Chicago City Council authorize the purchase of two 2023 Ford Escape Hybrid vehicles, for a cost not to exceed \$63,078.00, from Bob Ridings Ford, Taylorville, Illinois, and authorize the City Administrator to contract with a third-party to install the necessary appurtenances/equipment for those two vehicles at an estimated cost of \$6,000.

CITY OF WEST CHICAGO

COMMITTEE RECOMMENDATION:

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Resolution No. 22-R-0059 – Contract Award – Polydyne, Inc. – Dry Anionic Polymer for Fiscal Year 2023 in an amount not to exceed \$24,720.00

AGENDA ITEM NUMBER: 4.B.**COMMITTEE AGENDA DATE:** October 6, 2022**COUNCIL AGENDA DATE:** October 17, 2022**STAFF REVIEW:** Joseph Munder, Water Treatment Plant Superintendent**SIGNATURE** **APPROVED BY CITY ADMINISTRATOR:** Michael L. Guttman**SIGNATURE** _____**ITEM SUMMARY:**

Dry Anionic Polymer is one of the various chemicals used at the City's Water Treatment Plant. Approximately 12,000 pounds of Dry Anionic Polymer are used annually. Dry Anionic Polymer is used in the treatment process to increase the ability to settle the solids generated in the lime softening process, thus increasing the clarity of the water flowing to the filters.

A Notice to Bidders was advertised in the Daily Herald on September 6, 2022, and sealed bids were opened on September 27, 2022. One (1) bid was received. Polydyne, Inc. of Riceboro, Georgia, submitted the only bid for a total contract price of \$24,720.00.00 (\$2.06/pound delivered). This bid represents an 8.99% increase in unit pricing over Fiscal Year 2022. A bid tab showing the results of the bid opening is attached for your consideration. Polydyne has supplied the Water Treatment Plant with Dry Anionic Polymer since 2010.

Staff recommends that a contract be awarded to Polydyne, Inc. for procurement of Dry Anionic Polymer, at a unit price of \$2.06/pound delivered, for an amount not to exceed \$24,720.00 for Fiscal Year 2023.

In FY2023, adequate funds will be budgeted in the Water Fund, Water Treatment Plant Operations – Chemicals (06-34-48-4626) to cover this expenditure.

ACTIONS PROPOSED:

Approve Resolution No. 22-R-0059 authorizing the Mayor to execute a contract with Polydyne, Inc. of Riceboro, Georgia, for the procurement of Dry Anionic Polymer for Fiscal Year 2023 in an amount not to exceed \$24,720.00

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 22-R-0059

**A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE
A CONTRACT WITH POLYDYNE, INC. FOR THE PROCUREMENT OF
DRY ANIONIC POLYMER FOR FISCAL YEAR 2023
IN AN AMOUNT NOT TO EXCEED \$24,720.00**

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the Mayor is hereby authorized to execute a contract with Polydyne, Inc. of Riceboro, Georgia, for the procurement of Dry Anionic Polymer for Fiscal Year 2023 in an amount not to exceed \$24,720.00, in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPROVED this 17th day of October 2022.

AYES: _____

NAYES: _____

ABSTAIN: _____

ABSENT: _____

Mayor Ruben Pineda

ATTEST:

Deputy City Clerk Valeria Perez

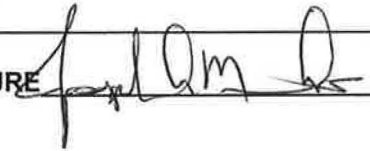
City of West Chicago Tabulation of Bids 2023 Delivery of Dry Anionic Polymer	Polydyne, Inc. 1 Chemical Plant Road Riceboro, GA 31323					
	Clarifloc A-3310					
Date: September 27, 2022 at 1:00 pm						
Opened by: Joe Munder						
Recorded by: Ashley Heidorn						
ITEMS	Units	Quantity	Unit Price	Total	Unit Price	Total
1 Dry Anionic Polymer	lbs.	12,000	\$2.06	\$24,720.00		
Total As Read				\$24,720.00		
Total As Corrected				\$24,720.00		

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Resolution No. 22-R-0060 – Contract Award – Mississippi Lime Company - Rotary Hydrated Lime For Fiscal Year 2023 in an amount not to exceed \$512,715.00

AGENDA ITEM NUMBER:4.C**COMMITTEE AGENDA DATE:** October 6, 2022**COUNCIL AGENDA DATE:** October 17, 2022**STAFF REVIEW:** Joseph Munder, Water Treatment Plant Superintendent**SIGNATURE****APPROVED BY CITY ADMINISTRATOR:** Michael L. Guttman**SIGNATURE****ITEM SUMMARY:**

Rotary Hydrated Lime is one of the various chemicals used at the City's Water Treatment Plant. Approximately 1,900 tons of Rotary Hydrated Lime are used annually. Hydrated Lime is the key component to our softening process. Hydrated lime reacts with existing bicarbonate salts (Calcium, Magnesium, and most importantly, Radium) and converts them to insoluble carbonate salts, thus removing them to a great degree from the treated water.

A Notice to Bidders was advertised in the Daily Herald on September 6, 2022, and sealed bids were opened on September 27, 2022. There were three (3) bids received. The results are below.

Bidder	Bid Amount	Overall Rank
Mississippi Lime Company	\$512,715.00	1
Carmeuse Lime & Stone	\$781,128.00	2
Lhoist North America	\$1,000,882.00	3

The low bidder was Mississippi Lime Company of St. Louis, Missouri, for a total contract price of \$512,785.00 (\$269.85/ton delivered). This represents a 22.15% increase over FY 2022 unit prices. The increase is largely attributed to increases in energy costs, fuel surcharges, inflationary economic environment, and driver shortages. A bid tab showing the results of the bid opening is attached for reference.

Staff recommends that a contract be awarded to Mississippi Lime Company for the procurement of Rotary Hydrated Lime, at a unit price of \$269.85/ton delivered, for an amount not to exceed \$512,715.00 for FY 2023. Mississippi Lime Company has been delivering Rotary Hydrated Lime to the City's Water Treatment Plant for the past seventeen years.

In FY 2023, adequate funds will be budgeted in the Water Fund, Water Treatment Plant Operations – Chemicals (06-34-48-4626) to cover this expenditure.

ACTIONS PROPOSED:

Approve Resolution No. 22-R-0060 authorizing the Mayor to execute a contract with Mississippi Lime Company of St. Louis, Missouri, for the procurement of Rotary Hydrated Lime for Fiscal Year 2023 in an amount not to exceed \$512,715.00.

CITY OF WEST CHICAGO

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 22 R-0060

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE
A CONTRACT WITH MISSISSIPPI LIME COMPANY FOR THE
PROCUREMENT OF ROTARY HYDRATED LIME FOR FISCAL YEAR 2023
IN AN AMOUNT NOT TO EXCEED \$512,715.00.

BE IT RESOLVED by the City Council of the City of West Chicago, in
regular session assembled, that the Mayor is hereby authorized to execute a contract
with Mississippi Lime Company of St. Louis, Missouri, for the procurement of Rotary
Hydrated Lime for Fiscal Year 2023 in an amount not to exceed \$512,715.00, in
substantially the form attached hereto and incorporated herein as Exhibit "A".

APPROVED this 17th day of October 2022.

AYES: _____

NAYES: _____

ABSTAIN: _____

ABSENT: _____

Mayor Ruben Pineda

ATTEST:

Deputy City Clerk Valeria Perez

City of West Chicago Tabulation of Bids 2023 Delivery of Rotary Hydrated Lime	Lhoist North America 20947 White Sands Road Ste. Genevieve, MO 63670		Mississippi Lime Company 3870 S. Lindbergh Blvd., Suite 200 St. Louis, MO 63127		Carmeuse Lime & Stone 11 Scanwix Street, 21st Floor Pittsburgh, PA 15222			
Date: September 28, 2021 1:20 P.M.								
Opened by: Joe Munder Recorded by: Ashley Heidorn								
ITEMS	Units	Quantity	Unit Price	Total	Unit Price	Total	Unit Price	Total
1 Rotary Hydrated Lime	tons	1900	\$526.78	\$1,000,882.00	\$269.85	\$512,715.00	\$411.12	\$781,128.00
		Total As Read		\$100,882.00		\$512,715.00		\$78,128.00
		Total As Corrected		\$1,000,882.00		\$512,715.00		\$781,128.00

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Resolution No. 22-R-0061 – Contract Award – Alexander Chemical Company – Liquid Sodium Hypochlorite For Fiscal Year 2023 in an amount not to exceed \$180,000.00

AGENDA ITEM NUMBER:4.D.**COMMITTEE AGENDA DATE:** October 6, 2022**COUNCIL AGENDA DATE:** October 17, 2022**STAFF REVIEW:** Joseph Munder, Water Treatment Plant Superintendent**SIGNATURE****APPROVED BY CITY ADMINISTRATOR:** Michael L. Guttman**SIGNATURE****ITEM SUMMARY:**

Liquid Sodium Hypochlorite is one of the various chemicals used at the City's Water Treatment Plant in the treatment of the City's municipal water supply. Approximately 400 Tons of Liquid Sodium Hypochlorite are used annually. Liquid Sodium Hypochlorite (Bleach) is the primary disinfectant used in the treatment process. It is used to oxidize naturally occurring iron and manganese in the City's shallow wells. It also reacts well with naturally occurring ammonia in the raw water at all City wells.

A Notice to Bidders was advertised in the Daily Herald on September 6, 2022, and sealed bids were opened on September 27, 2022. There were two (2) bids received. The results are below.

Bidder	Bid Amount	Overall Rank
Alexander Chemical Company	\$180,000.00	1
Rowell Chemical Company	\$210,800.00	2

The low bidder submitted a price of \$450.00/ton delivered. This represents a 64.84% increase from Fiscal Year 2022 unit prices. The increase is largely attributed to the increase in energy costs, fuel surcharges, inflationary economic environment, and driver shortages. A bid tab showing the results of the bid opening is attached for your reference.

Staff recommends that a contract be awarded to Alexander Chemical Company for procurement of Liquid Sodium Hypochlorite \$ 180,000.00 for Fiscal Year 2023. Alexander Chemical Company previously supplied Sodium Hypochlorite to the City in 2020.

In FY 2023, adequate funds will be budgeted in the Water Fund, Water Treatment Plant Operations – Chemicals (06-34-48-4626) to cover this expenditure.

ACTIONS PROPOSED:

Approve Resolution No. 22-R-0061 authorizing the Mayor to execute a contract Alexander Chemical Company of Kingsbury, Indiana, for the procurement of Liquid Sodium Hypochlorite for Fiscal Year 2023 in an amount not to exceed \$180,000.00.

CITY OF WEST CHICAGO

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 22-R-0061

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE
A CONTRACT WITH ALEXANDER CHEMICAL COMPANY FOR
THE PROCUREMENT OF LIQUID SODIUM HYPOCHLORITE FOR
FISCAL YEAR 2023 IN AN AMOUNT NOT TO EXCEED \$180,000.00

BE IT RESOLVED by the City Council of the City of West Chicago, in
regular session assembled, that the Mayor is hereby authorized to execute a contract
Alexander Chemical Company of Kingsbury, Indiana, for the procurement of Liquid
Sodium Hypochlorite for Fiscal Year 2023 in an amount not to exceed \$180,000.00, in
substantially the form attached hereto and incorporated herein as Exhibit "A".

APPROVED this 17th day of October, 2022.

AYES: _____

NAYES: _____

ABSTAIN: _____

ABSENT: _____

Mayor Ruben Pineda

ATTEST:

Deputy City Clerk Valeria Perez

City of West Chicago Tabulation of Bids 2023 Delivery of Liquid Sodium Hypochlorite	Rowell Chemical Corporation 15 Salt Creek Lane, Suite 205 Hinsdale, IL 60521		Alexander Chemical Corporation 7593 S. First Road LaPorte, IN 46350					
Date: September 27, 2022 1:50 P.M.								
Opened by: Joe Munder Recorded by: Ashley Heidorn								
ITEMS	Units	Quantity	Unit Price	Total	Unit Price	Total	Unit Price	Total
1 Liquid Sodium Hypochlorite	tons	400	\$527.00	\$210,800.00	\$450.00	\$180,000.00		
Total As Read			\$226,800.00		\$180,000.00			
Total As Corrected			\$210,800.00		\$180,000.00			

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Resolution No. 22-R-0062- Contract Award – Alexander Chemical Company - Liquid Aluminum Sulfate For Fiscal Year 2023 in an amount not to exceed \$22,900.00

AGENDA ITEM NUMBER:

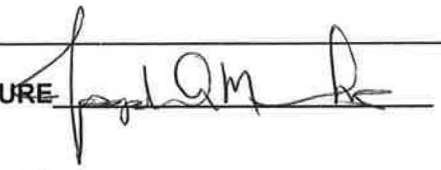
4.E.

COMMITTEE AGENDA DATE: October 6, 2022

COUNCIL AGENDA DATE: October 17, 2022

STAFF REVIEW: Joseph Munder, Water Treatment Plant Superintendent

SIGNATURE



APPROVED BY CITY ADMINISTRATOR: Michael L. Guttman

SIGNATURE

ITEM SUMMARY:

Liquid Aluminum Sulfate is one of the various chemicals used at the City's Water Treatment Plant in the treatment of the City's municipal water supply. Approximately 100 Tons of Liquid Aluminum Sulfate are used annually. Liquid Aluminum Sulfate (Alum) is fed as a reaction enhancement in the treatment process. Alum binds with bicarbonate salts in the raw water and promotes solids separation in the claricone.

A Notice to Bidders was advertised in the Daily Herald on September 6, 2022, and sealed bids were opened on September 27, 2022. There were three (3) bids received. The results are below. The low bidder was Alexander Chemical Company of Kingsbury, Indiana, for a total contract price of \$22,900.00 (\$229.00/ton delivered).

Bidder	Bid Amount	Overall Rank
Alexander Chemical Company	\$22,900.00	1
USALCO, LLC	\$25,888.00	2
Chemtrade Chemicals US, LLC	\$27,034.00	3

This represents a 14.63% increase from Fiscal Year 2022 unit prices. The increase is largely attributed to an increase in energy costs, fuel surcharges, and driver shortages. A bid tab showing the results of the bid opening is attached for additional clarification.

Staff recommends that a contract be awarded to Alexander Chemical Company for procurement of Liquid Aluminum Sulfate for a sum of \$22,900.00 for Fiscal Year 2023. Alexander Chemical Company has not previously supplied Liquid Aluminum Sulfate to the City.

In FY 2023, adequate funds will be budgeted in the Water Fund, Water Treatment Plant Operations – Chemicals (06-34-48-4626) to cover this expenditure.

ACTIONS PROPOSED:

Approve Resolution No. 22-R-0062 authorizing the Mayor to execute a contract with Alexander Chemical Company of Kingsbury, Indiana, for the procurement of Liquid Aluminum Sulfate for Fiscal Year 2023 in an amount not to exceed \$22,900.00.

CITY OF WEST CHICAGO

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 22-R-0062

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE
A CONTRACT WITH ALEXANDER CHEMICAL COMPANY FOR
THE PROCUREMENT OF LIQUID ALUMINUM SULFATE FOR FISCAL YEAR
2023 IN AN AMOUNT NOT TO EXCEED \$22,900.00

BE IT RESOLVED by the City Council of the City of West Chicago, in
regular session assembled, that the Mayor is hereby authorized to execute a Contract
with Alexander Chemical Company of Kingsbury, Indiana, for the procurement of
Liquid Aluminum Sulfate for Fiscal Year 2023 in an amount not to exceed
\$22,900.00, in substantially the form attached hereto and incorporated herein as
Exhibit "A".

APPROVED this 17th day of October 2022.

AYES: _____

NAYES: _____

ABSTAIN: _____

ABSENT: _____

Mayor Ruben Pineda

ATTEST:

Deputy City Clerk Valeria Perez

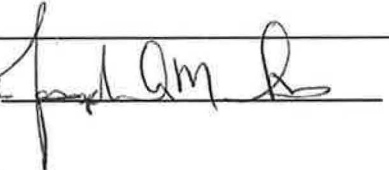
City of West Chicago Tabulation of Bids 2023 Delivery of Liquid Aluminum Sulfate			USALCO, LLC 2601 Cannery Avenue Baltimore, MD 21226		Chemtrade Chemicals US, LLC 90 East Halsey Road, Suite 200 Parsippany, NJ 07054		Alexander Chemical Co. 7593 S First Rd Kingsbury, IN 46345	
Date: September 27, 2022 1:40 P.M. Opened by: Joe Munder Recorded by: Ashley Heidorn								
ITEMS	Units	Quantity	Unit Price	Total	Unit Price	Total	Unit Price	Total
1 Liquid Aluminum Sulfate	tons	100	\$258.88	\$25,888.00	\$270.34	\$27,034.00	\$229.00	\$22,900.00
Total As Read				\$19,977.00		\$23,154.00		\$22,900.00
Total As Corrected				\$25,888.00		\$27,034.00		\$22,900.00

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Resolution No. 22-R-0063 – Contract Award – Alexander Chemical Company – Hydrofluorosilicic Acid For Fiscal Year 2023 in an amount not to exceed \$26,356.00

AGENDA ITEM NUMBER:4.F.**COMMITTEE AGENDA DATE:** October 6, 2022**COUNCIL AGENDA DATE:** October 17, 2022**STAFF REVIEW:** Joseph Munder, Water Treatment Plant Superintendent**SIGNATURE****APPROVED BY CITY ADMINISTRATOR:** Michael L. Guttman**SIGNATURE****ITEM SUMMARY:**

Hydrofluorosilicic Acid is one of the various chemicals used at the City's Water Treatment Plant in the treatment of the City's municipal water supply. Approximately 22 Tons of Hydrofluorosilicic Acid are used annually. Hydrofluorosilicic Acid (HFS) is fed as a requirement from the Illinois Department of Public Health (IDPH). IDPH requires that a minimum residual of 0.7 +/- 0.1 mg/L F⁻ (fluoride ion) be maintained in Public Drinking Water.

A Notice to Bidders was advertised in the Daily Herald on September 6, 2022, and sealed bids were opened on September 27, 2022. There was one (1) bid received. The results are below.

Bidder	Bid Amount	Overall Rank
Alexander Chemical Company	\$26,356.00	1

That bidder was Alexander Chemical Company of Kingsbury, Indiana for a total contract price of \$26,356.00 (\$1,198.00/ton delivered). This represents a 71.14% increase from Fiscal Year 2022 unit prices. The increase is largely attributed to increases in energy costs, fuel surcharges, inflationary economic environment and driver shortages.

Staff recommends that a contract be awarded to Alexander Chemical Company for procurement of Hydrofluorosilicic Acid for a sum of \$ 26,356.00 for Fiscal Year 2023. Alexander Chemical Company has previously supplied Hydrofluorosilicic Acid to the City.

In FY 2023, adequate funds will be budgeted in the Water Fund, Water Treatment Plant Operations – Chemicals (06-34-48-4626) to cover this expenditure.

ACTIONS PROPOSED:

Approve Resolution No. 22-R-0063 authorizing the Mayor to execute a contract with Alexander Chemical Company of Kingsbury, Indiana, for the procurement of Hydrofluorosilicic Acid for Fiscal Year 2023 in an amount not to exceed \$26,356.00.

CITY OF WEST CHICAGO

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 22-R-0063

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE
A CONTRACT WITH ALEXANDER CHEMICAL COMPANY FOR THE
PROCUREMENT OF HYDROFLUOROSILICIC ACID FOR FISCAL YEAR 2023
IN AN AMOUNT NOT TO EXCEED \$26,356.00.

BE IT RESOLVED by the City Council of the City of West Chicago, in
regular session assembled, that the Mayor is hereby authorized to execute a contract
with Alexander Chemical Company of Kingsbury, Indiana, for the procurement of
Hydrofluorosilicic Acid for Fiscal Year 2023 in an amount not to exceed \$26,356.00,
in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPROVED this 17th day of October, 2022.

AYES: _____

NAYES: _____

ABSTAIN: _____

ABSENT: _____

Mayor Ruben Pineda

ATTEST:

Deputy City Clerk Valeria Perez

City of West Chicago Tabulation of Bids 2023 Delivery of Hydrofluosilicic Acid	Alexander Chemical Corp. 7593 S. First Road LaPorte, IN 46350			
	Vendor issued a correction memo n 9/28/22 (attached) regarding the price of the product. Corrected price is \$ 0.599 per pound delivered.			
Date: September 27, 2022 1:30 P.M.				
Opened by: Joe Munder Recorded by: Ashley Heidorn				
ITEMS	Units	Quantity	Unit Price Total	Unit Price Total
1 Hydrofluosilicic Acid	tons	22	\$1,198.00 \$26,356.00	
Total As Read			\$46,816.00	
Total As Corrected			\$26,356.00	



September 28, 2022

The City of West Chicago
c/o Joseph A. Munder, III
Water Treatment Plant Superintendent
1400 West Hawthorne Lane
West Chicago IL 60185

Mr. Munder,

Please know that we have errored in our suggested pricing for your drum purchases of HFS regarding 2023 pricing.

The intended price should be recognized as **\$329.45.00 per drum or \$1,198.00 ton**, not \$585.00 per drum, as was seen in the bid we submitted.

Sincerely,

Robert G. Davidson

Chief Executive Officer



7593 S. First Road

Kingsbury IN 46345

Office: (219) 402 0575

www.alexanderchemical.com

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Resolution No. 22-R-0064 – Contract Award – JSL Building Restoration Group, Inc. for the 2022 WTP Joint Sealant Replacement Project in the not to exceed amount of \$139,675.00

AGENDA ITEM NUMBER:4.6**COMMITTEE AGENDA DATE:** October 6, 2022**COUNCIL AGENDA DATE:** October 17, 2022**STAFF REVIEW:** Joseph Munder, Water Treatment Plant Superintendent**SIGNATURE****APPROVED BY CITY ADMINISTRATOR:** Michael L. Guttman**SIGNATURE****ITEM SUMMARY:**

The Water Treatment Plant is constructed of pre-cast concrete panels that are bolted together and bolted to interior framing for the building. The joints between these panels are sealed with a silicone compound that keeps out wind and moisture. In 2021, a determination was made to have the sealant replaced in all external joints based on spot survey performed by the staff as there are visible signs of water intrusion in the building.

A Notice to Bidders was advertised in the Daily Herald on September 6, 2022, and sealed bids were opened on September 27, 2022. The results are below.

Bidder	Bid Amount	Overall Rank
JSL Building Restoration Group, Inc.	\$139,675.00	1
April Building Services, Inc.	\$181,400.00	2
Engineer's Estimate	N/A	N/A

A bid tab showing the results of the bid opening is attached for your consideration.

Staff recommends to award a contract to JSL Building Restoration Group, Inc. the 2022 Joint Sealant Replacement Project for an amount not to exceed \$139,675.00 for Fiscal Year 2022.

There are adequate funds in the Water Fund, Water Treatment Plant Operations – Building Maintenance (06-34-48-4401) to cover this expenditure.

ACTIONS PROPOSED:

Approve Resolution No. 22-R-0064 authorizing the Mayor to execute a contract with JSL Building Restoration Group, Inc., of Franklin Park, Illinois, for the 2022 WTP Joint Sealant Replacement Project in an amount not to exceed \$139,675.00

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 22-R-0064

**A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE
A CONTRACT WITH JSL BUILDING RESTORATION GROUP, INC. FOR
THE 2022 WTP JOINT SEALANT REPLACEMENT PROJECT
IN AN AMOUNT NOT TO EXCEED \$139,675.00**

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the Mayor is hereby authorized to execute a contract with JSL Building Restoration Group, Inc., of Franklin Park, Illinois, for the 2022 WTP Joint Sealant Replacement Project in an amount not to exceed \$139,675.00, in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPROVED this 17th day of October 2022.

AYES: _____

NAYES: _____

ABSTAIN: _____

ABSENT: _____

Mayor Ruben Pineda

ATTEST:

Deputy City Clerk Valeria Perez

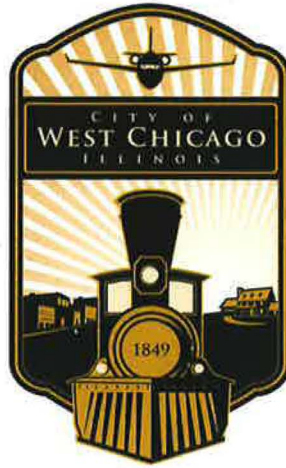
City of West Chicago Tabulation of Bids <i>2022 WTP Joint Sealant Replacment Project</i> Date: September 27, 2022 at 2:00 pm Opened by: Joe Munder Recorded by: Ashley Heidorn			JSL Bldg Restoration Group, Inc. 10201 Franklin Av Franklin Park , IL 60131		April Bldg Services, Inc. 22W274 Irving Park Rd Roselle, IL 60172	
ITEMS	Units	Quantity	Unit Price	Total	Unit Price	Total
1 R&R Joint Sealant	ea	1	\$139,675.00	\$139,675.00	\$181,400.00	\$181,400.00
Total As Read				\$139,675.00		\$181,400.00
Total As Corrected				\$139,675.00		\$181,400.00

7.A.

DEPARTMENT OF

PUBLIC

MEHUL T. PATEL, P.E., CFM
DIRECTOR
(630) 293-2255
FAX (630) 293-2971



WORKS

UTILITY DIVISION	293-2255
STREET DIVISION	293-2250
WASTEWATER DIVISION	293-2261
ENGINEERING DIVISION	293-2255

MEMORANDUM

TO: Mehul T. Patel, P.E., CFM, Director of Public Works

FROM: Rocky Horvath, Utility Superintendent

DATE: 08/26/2022

RE: Private Use of Fire Hydrants

The Department of Public Works receives multiple requests from private contractors, homeowners, and associations for the use of City fire hydrants for various purposes: i.e. filling a pool, landscape maintenance, construction activities, etc. Only City personnel or contractors performing work on City projects under the City's supervision are granted permission to use fire hydrants for specific project purposes. The Department denies all other private requests.

While section 18-26 of the City code does allow this type of hydrant use, due to the contamination risk for the water system, the use of hydrants by the public was discontinued by the Department of Public Works several years ago as a part of the regulations for our cross connection control program. The cross connection control program was developed in order to comply with Illinois Department of Public Health (IDPH) rules that require all public water supplies in Illinois implement and enforce such a program to reduce and mitigate risks of water system contamination.

Section 18-41 of the City code references the cross connection control program. Most of the codified cross connection regulations involve eliminating the risk of backflow. Backflow is a term in plumbing for an unwanted flow of water in the reverse direction. Backflow from cross-connections has the potential of allowing contaminants into the drinking water system. Backflow occurs in two primary ways: **Back Siphonage**-Occurs when the pressure lowers in the water distribution system. This could allow the pulling, of contaminated water into the system. **Back Pressure**-occurs when there is higher water pressure and contaminated water can be forced into the public water system. Distribution system contamination can and does occur because of backflow.

Both of these are real threats to the water distribution system when using a fire hydrant. If the pressure in the water system drops while a hydrant is in use, material from anything connected to the hydrant will be drawn into the water system by the creation of a vacuum (think of a drinking straw). Conversely, if something with a pump is connected to a hydrant, say a chemical truck, the pump can force material into the distribution system.

In order to safely use a fire hydrant the City's cross connection control program requires elimination of the threat posed by its use. There are two ways to accomplish this:

1. **Fixed Air Gap**-An air gap is an actual physical separation of the potable and non-potable system by an air space.
2. **RPZ**- A reduced pressure zone device (RPZD, RPZ, or RPZ valve) is a type of backflow prevention device used to protect water supplies from contamination.

Option 1 is the City's preferred method for any equipment or device we allow to connect to a fire hydrant. We have checks to confirm an air gap is utilized when filling from a hydrant and monitor it during use. City equipment that uses fire hydrants has this feature built into it. Prior to using a fire hydrant, staff performs a thorough inspection of proper equipment. Other than City projects where staff with proper training are performing the work, the ongoing monitoring of fire hydrants for an air gap is not practical. We simply do not have the personnel to devote to this task.

Option 2 is not practical to implement, as the plumbing code requires calibration and testing of the device before use. A temporary use of an RPZ on a hydrant is not feasible. A plumber has to calibrate the RPZ device when the water source is turned on and off. This is not practical in a setting where someone is watering landscaping at various locations. Per the plumbing code regulations, City staff does not have the ability to perform these calibration checks. .

Surprisingly, backflow incidents are common and multiple incidents occur annually throughout the United States. There are multiple rules and regulations for a water utility related to this specific threat. The last large scale backflow incident involving a fire hydrant occurred in 2019 when a truck hydro seeding in Hillyard, Washington caused large scale water system contamination by pumping grass seed and fiber into the water system. This caused the water system to plug up and caused an E.coli outbreak in the area.

Such incidents are costly. In 1999, the ABPA (American Backflow Prevention Association) survey gathered information to estimate the costs to water distribution systems to mitigate a backflow incident. The survey collected data from 103 systems serving 10,000 people or more. The survey results showed that for the systems that responded, water system operators expended an average of 494 hours per event mitigating backflow incidents. This figure does not include costs to repair damage to the water distribution system infrastructure; investigation, sampling, and laboratory analysis; clean-up of equipment; purchases of bottled water; responding to consumer complaints; lawsuits (both legal fees and judgments); the repair of property damage; loss of production; and medical expenses.

While we strive to assist our residents and businesses in any way possible, it is not viable from a safety or economic standpoint to allow the use of fire hydrants for private purposes. Staff strongly recommends that current operational practices related to hydrants to continue as is. v/r