

#### **Purchasing Division**

100 City Hall, 411 W. 1st Street Duluth, MN 55802-1189 TEL. 218-730-5340 FAX: 218-730-5921 purchasing@duluthmn.gov

### INVITATION TO BID WATER TREATMENT CHEMICALS FOR 2017

BID NUMBER: 17-0007 BID OPENING: TUESDAY, NOVEMBER 29, 2016 AT 2:00 PM

The City of Duluth requests <u>sealed</u> bids for the following water treatment chemicals:

17-0007 N	Nonionic Polymer (Clarifloc N-3300P or Equivalent)	3,000 Pounds
17-0008 L	iquid Aluminum Sulfate	125,400 Gallons
17-0009 V	Vet Hydrofluorosilicic Acid	100 Tons
17-0010 L	iquid Anhydrous Ammonia	32,000 Pounds
17-0011 L	iquid Chlorine	50 Tons
17-0012 L	iquid Caustic Soda	70,000 Gallons

Quantities are estimates. All chemicals <u>must</u> meet the attached specifications. Delivery charges <u>must</u> be included in the price, and the price <u>must</u> be held firm January 1, 2017 through December 31, 2017. Current SDS required for all items.

Deliver-to location for all orders is the Lakewood Water Treatment Plant located at 8130 Congdon Blvd, Duluth, MN 55804. Contact at the Plant is Mark Proulx, Utility Operations Supervisor, 952-240-2023.

All 2017 chemical purchases will be held pending City Council approval of the 2017 budget and a 30-day waiting period as required by ordinance. Purchase orders may not be issued until January 2017.

All bids must be complete, signed, and transmitted in a sealed envelope plainly marked with the bid number, subject matter, and opening date.

Bids may be mailed to the Purchasing Office, City Hall, 411 West 1st Street, Room 100, Duluth, MN 55802 or dropped off in person at the same address. Bids must be received in Purchasing before 2:00 PM local time on Tuesday, November 29, 2017.

The City Purchasing Agent or her designee will conduct a public bid opening in Room 100 immediately following receipt of the bids. A bid summary will be posted online at http://www.duluthmn.gov/purchasing/bids-request-for-proposals/ once all bids have been reviewed.

The City of Duluth reserves the right to split the award where there is a substantial savings to the City, to waive informalities and to reject any and all bids. Do not include sales tax in the unit price. Price may not be the only consideration for bid award. Bids must be firm for a minimum of 60 days.

CITY OF DULUTH

Amanda Ashbach Purchasing Agent

## WATER TREATMENT CHEMICALS FOR 2017 SPECIFICATIONS

#### 17-0007 Nonionic Polymer (Clarifloc N-3300P or Equivalent)

- Product to be supplied in 55 pound, moisture-proof bags.
- Delivery and pallet charges must be included in the bid price.

#### 17-0008 Liquid Aluminum Sulfate

- Liquid aluminum sulfate 50%, 17% AL,179 Al 203 basis (19% aluminum oxide basis).
- Ingredients:

Aluminum sulfate Al2(SO4)3 48.5% Water (H<sup>2</sup>O) 51.5%

- General Characteristics:

\* Chemical formula: Al2(SO4)3 in solution

\* Appearance: clear, slightly buff to amber liquid

\* Dry Weight: 1 liter weighs 1.32 kg and contains the equivalent

of 0.65 kg dry aluminum sulfate (alum); 1 imperial gallon weighs 13.2 lbs and contains the equivalent

of 6.5 lbs dry aluminum sulfate (alum)

- Chemical Analysis % by weight

	<u>Typical</u>	<u>Specification</u>
* Aluminum – total available as Al203	8.3	8.0 min
* Iron - total as Fe2O3	0.0035	
* Insoluble Solutions	0.002	0.07 max
* Basicity	0.20	basic

- Must comply with the latest B403 American Water Works Association (AWWA) standard.
- To be delivered in tank trucks on an as-needed basis.
- Legal weight ticket must accompany each load to verify net weight of product.

#### 17-0009 Wet Hydrofluorosilicic Acid 25%

- Delivered in 19 ton loads; pumped to a 6,000-gallon storage tank.
- Fluoride must comply with the latest B703 AWWA standard.
- Legal weight ticket must accompany each load to show net weight of product.

#### 17-0010 Liquid Anhydrous Ammonia (for water disinfection)

Ammonia: Min 99.98% by weight
Moisture: Max 0.02% by weight
Oil: Max 2 parts per million
Non-Condensable Gases: Less than 0.1% by weight

- Delivered in tank truck loads of approximately 4,000 pounds as needed and pumped into a 1,000-gallon storage tank at the Lakewood WTP.
- Must comply with latest B305 AWWA standard.
- Legal weight ticket must accompany each load to show net weight of product.

#### 17-0011 Liquid Chlorine

Chlorine: Min 99.7% by volume
Moisture: Max 0.0100% by weight
Nonvolatile Matter (@45 deg C) Max 0.0030% by weight

- Must comply with the latest B301 AWWA standard
- To be delivered as-needed in 1 TON containers

#### 17-0012 Liquid Caustic Soda 50%

- Delivered into two (2) 6,000-gallon storage tanks.
- Must comply with the latest B501 AWWA standard.
- Liquid temperature must be a minimum of 100°F.
- Legal weight ticket must accompany each load to show net weight of product.

# BID FORM BID # 17-0007 WATER TREATMENT CHEMICALS FOR 2017

ITEM NO.	ITEM	QTY	UOM	UNIT PRICE	EXTENDED PRICE
17-0007	Nonionic Polymer (Clarifloc N-3300P or equivalent)	3,000	LBS		
17-0008	Liquid Aluminum Sulfate	125,400	GAL		
17-0009	Wet Hydrofluorosilicic Acid	100	TON		
17-0010	Liquid Anhydrous Ammonia	32,000	LBS		
17-0011	Liquid Chlorine	50	TON		
17-0012	Liquid Caustic Soda	70,000	GAL		

## IF YOU DO NOT WISH TO SUBMIT A BID FOR AN ITEM – PLEASE WRITE "NO BID" ON THAT LINE ACKNOWLEDGMENT OF ADDENDA

ADDENDUM #	INITIAL/DATE	
ADDENDUM #	INITIAL/DATE	

Signature		Date
Name/Title		
Company Name		
Address		
City, State, Zip		
Tel	E-Mail	

Please provide additional information as requested:

#### 17-0007 Nonionic Polymer (Clarifloc N-3300P or equivalent)

Provide a primary point of contact for product, delivery, or other questions:

NAME		PHON	E	EMAIL ADDRESS
17-0008	Liquid Alumin	um Sulfate		
Price	e per US gallon	\$	Weight/Gallon:	/I
Price	e per ton	\$	Dry Weight/Gallo	n:/I
Man	nufacturer:	<del></del>	Typical shipment	weight:
Provide a p	rimary point of cor	tact for product, delivery, or o	other questions:	
NAME		PHONI	E	EMAIL ADDRESS
17-0009	Wet Hydroflud	prosilicic Acid		
Provide a p	rimary point of cor	ntact for product, delivery, or o	other questions:	
NAME		PHONI	E	EMAIL ADDRESS
17-0010	Liquid Anhydi	rous Ammonia		
	•	charges applicable per load	\$	or %
	<del>-</del>	t fee applicable per load \$	Ψ	. 0
	•	stact for product, delivery, or $\alpha$	other questions:	
ov.ao a p	randry point of our	naot for product, dointery, or t	outor quoduotto.	
NAME		PHONI	E	EMAIL ADDRESS
17-0011	Liquid Chlorir	ie		
Plea	ase list any fuel su	charges applicable per load	\$	or %
Plea	ase list any Hazma	t fee applicable per load \$		
Provide a p	rimary point of cor	ntact for product, delivery, or o	other questions:	
NAME		PHONI	E	EMAIL ADDRESS
17-0012	Liquid Caustic	- Soda		
	ght/Gallon:	/11	Dry Woight/Gall	lon: /l
	•	/lb	Dry Weight/Gall Normal Trucklo	
		tact for product, delivery, or c		ad Quantity.
				EMAIL ADDDESS
NAME		PHONI	E	EMAIL ADDRESS