
Grand Forks City City Council Staff Report Committee of the Whole and City Council Meeting: 1/6/2020

APPROVED & ACCEPTED
by City Council

01/06/2020

Maureen Storstad
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City Auditor

Agenda Item: 2020 Chemical Bid Approval for Water/Wastewater Treatment

Submitted by: John Goetz, Supervisor Water Treatment; Melanie Parvey, Water Works Director, Lisa Boten Asst. Water Works Director

**Recommended Council Action: To approve recommended bids per attached summary
City Council Action: Approved unanimously on consent agenda. Motion carried unanimously.**

BACKGROUND: Treatment chemicals are bid on an annual basis. There are various prerequisites for acceptable bidders based on plant trials, product quality, packaging and availability to the Grand Forks Water (WTP) or Grand Forks Wastewater Treatment Plant (WWTP), as specified. We are also bidding chemicals for the Regional Water Treatment Plant (RWTP).

Bid summary information is tabulated for eighteen products used in the following processes:

Pretreatment Coagulation: Alum, Pacl, Sulfuric Acid and Carbon

Softening: Lime, Soda Ash, Sodium Aluminate and Sodium Hydroxide

Stabilization: Polyphosphate

Recarbonation: Carbon Dioxide

Disinfection: Chlorine, Ammonia and Liquid Oxygen

Fluoridation: Hydrofluosilicic Acid

Membrane: Sodium Bisulfite, Citric Acid and Hydrochloric Acid

Wastewater Treatment: Polymer and Sodium Hydroxide

FINDINGS AND ANALYSIS:

- Recommendation is to accept the low bidder for all chemicals bid as noted on the bid summary other than Sodium Aluminate. We received two bids and the low bid didn't meet the specifications.
- Historical information on chemical bid pricing has been included in the support materials. This information demonstrates fluctuations in chemical costs. Water Plant staff continue to treat a blend of source water to optimize chemical feed systems, and look at alternative chemicals through plant trials as a means of controlling costs.

SUPPORT MATERIALS:

- Bid summary and recommendations
- Historical Bid Price Information

Grand Forks Water 2020 Treatment Chemical Bids (Opened 11/26/19 @ 2:00 p.m.)

PRODUCT NAME	BID AMT	VENDOR	CONTACT NAME	PHONE	SUPPLIER	PRICE/TON	PER LB	RECOMMENDED
ALUM	1000	BORDER CHEMICAL	S MORRISON	204 222 3276	BORDER	\$430.00	0.21500	YES
ALUM	1000	CHEMTRADE	ELIZABETH RYNO	800 441 2659	CHEMTRADE	\$722.00	0.36100	
AMMONIA	15	HAWKINS	M HANSON	701 293 9618	AIRGAS	\$4,420.00	2.21000	YES
CARBON	50	CAL-PACIFIC	PAM MARTIN	707-268-8766	PACARB PLUS	\$1,040.00	0.52000	
	50	CARBON ACTIVATED CARBON	N AKWEI	651 998 9691	COL-PL500	\$1,320.00	0.66000	
	50	DONAU CARBON	Brian Hacker	407 364 5151	Watercarb	\$1,004.00	0.50200	YES
CARBON DIOXIDE	500	AMERICAN WELDING	E ANDERSON	701 282 7529		\$168.90	0.08445	YES
CHLORINE	50	HAWKINS	M HANSON	701 293 9618	HAWKINS	\$532.00	0.26600	YES
	50	DPC	D SCHINDELDECKER	651 437 1333	DPC	\$539.00	0.26950	
CITRIC ACID 50%		HAWKINS	M HANSON	701 293 9618		\$1,240.00	0.62000	
		SHANNON	D FLYNN	610 363 9090		\$1,600.00	0.80000	
		BRENNTAG	Laura Tua	562 903 9626		\$1,133.20	0.56660	YES
		HARCOS	SCOTT MARTIN	651 647 0149		\$1,280.00	0.64000	
LIME/Pebble	2400	GRAYMONT	T SPOONER	715 394 1714	Quicklime	\$245.00	0.12250	YES
	2400	Mississippi Lime				\$335.00	0.167500	
LIME/Hydrated		GRAYMONT	T SPOONER	715 394 1714	High Calcium Hydrate	\$247.00	0.12350	YES
LIQUID OXYGEN		AMERICAN WELDING	E ANDERSON	701 282 7529		\$289.92	0.14496	YES
HYDROFLUOSILICIC ACID	75	HAWKINS	M HANSON	701 293 9615	HAWKINS	\$440.00	0.22000	YES
HYDROCHLORIC ACID 35%		HAWKINS	M HANSON	701 293 9615		\$700.00	0.35000	
		BRENNTAG	Laura Tua	562 903 9626		\$555.40	0.27770	YES
SODA ASH	75	HARCOS	SCOTT MARTIN	651 647 0149		\$398.00	0.19900	YES
	75	Brenntag	Laura Tua	562 903 9626		\$622.20	0.31110	

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SODIUM BISULFITE 40% TOTE		HAWKINS	M HANSON	701 293 9615	HAWKINS	\$640.00	0.32000	YES
		BRENNTAG	Laura Tua	562 903 9626		\$800.00	0.40000	
SODIUM BISULFITE 40% DRUM		HAWKINS	M HANSON	701 293 9615	HAWKINS	\$718.40	0.35920	YES
		BRENNTAG	Laura Tua	562 903 9626		\$733.20	0.36660	
SODIUM HYPOCHLORITE 12%		HAWKINS	M HANSON	701 293 9618	Azone 15	\$560.00	0.28000	YES
		BRENNTAGE	Laura Tua	562 903 9626		\$822.20	0.41110	
SODIUM HYDROXIDE 50% BULK		HAWKINS	M HANSON	701 293 9618		\$330.00	0.16500	YES
		BRENNTAG	Laura Tua	562 903 9626		\$444.40	0.22220	
SODIUM HYDROXIDE 50% TOTE		HAWKINS	M HANSON	701 293 9618		\$485.20	0.24260	YES
		BRENNTAG	Laura Tua	562 903 9626		\$532.60	0.26630	
SULFURIC ACID 93%		HAWKINS	M HANSON	701 293 9618	Sulfuric Acid 66'	\$202.00	0.10100	YES
LIQUID ALUMINATE	50	HAWKINS	M HANSON	701 293 9615	HAWKINS 45	\$1,620.00	0.81000	YES
		THATCHER	Craig Thatcher		Didn't Meet Spec 39	\$1,300.00	0.65000	
PACL		BORDER CHEMICAL	S MORRISON	204 222 3276	Border Pac 3001	\$536.00	0.26800	YES
		HAWKINS	M HANSON	701 293 9615	607	\$550.00	0.27500	
		CHEMTRADE	Parul K-Patel	973 515 1855	Hyper Ion 1090	\$580.00	0.29000	
POLYPHOSPHATE/DRY	40	SHANNON	D FLYNN	610 363 9090	SHANNON SNC-5177	\$1,917.17	0.958585	
		CHEMRITE INC	AARON OPP	770 271 5576	DOP-0300	\$1,828.00	0.91400	YES
POLYPHOSPHATE/LIQUID		HAWKINS	M HANSON	701 293 9615	HAWKINS	\$1,116.20	0.55810	
		SHANNON	D FLYNN	610 363 9090		\$1,044.44	0.52222	
		CARUS	Samanth Pumo	800 435 6856		\$1,240.00	0.62000	
		CHEMRITE	AARON OPP	770 271 5576	LHP 6300	\$939.00	0.46950	YES
WWTP POLYMER		POLYDYNE	BOYD STANLEY	800 848 7659	CLARIFLOC CE-985	\$2,540.00	1.27000	YES
SODIUM HYDROXIDE 50% BULK		HAWKINS	M HANSON	701 293 9618		\$330.00	0.16500	YES
		BRENNTAG	Laura Tua	562 903 9626		\$444.40	0.22220	

TONS BID	CHEMICAL NAME	2013	2014	2015	2016	2017	2018	2019	2020
332	ALUM	\$453.00	\$453.00	\$449.00	\$439.00	\$454.00	\$429.00	\$423.00	\$430.00
25	AMMONIA	\$3,640.00	\$4,160.00	\$4,200.00	\$4,200.00	\$3,960.00	\$4,200.00	\$4,320.00	\$4,420.00
12	CARBON	\$1,174.00	\$1,412.00	\$980.00	\$1,248.00	\$1,168.00	\$1,040.00	\$1,020.00	\$1,004.00
550	CARBON DIOXIDE	\$150.00	\$152.00	\$168.70	\$185.00	\$174.00	\$174.00	\$171.98	\$168.90
50	CHLORINE	\$504.50	\$485.90	\$506.80	\$494.00	\$492.00	\$529.00	\$539.00	\$532.00
18	CITRIC ACID-RWTP								\$1,133.20
800	LIME-PEBBLE	\$211.75	\$216.00	\$224.60	\$226.60	\$232.00	\$236.60	\$243.70	\$245.00
1000	LIME-HYDRATED-RWTP								\$247.00
18	LIQUID OXYGEN-RWTP								\$289.92
60	HYDROFLUOSILICIC ACID	\$750.00	\$680.00	\$698.00	\$642.00	\$510.00	\$460.00	\$480.00	\$440.00
1.5	HYDROCHLORIC ACID-RWTP								\$555.40
12	SODA ASH	\$352.80	\$384.00	\$383.00	\$376.00	\$371.00	\$368.00	\$398.00	\$398.00
12	SODIUM ALUMINATE	\$1,220.00	\$1,210.00	\$1,250.00	\$1,297.00	\$1,355.00	\$1,470.00	\$1,580.00	\$1,620.00
6	SODIUM BISULFITE 40% TOTE RWTP								\$640.00
6	SODIUM BISULFITE 40% DRUM RWTP								\$718.40
15	SODIUM HYPOCHLORITE 12% DRUM RWTP								\$560.00
300	SODIUM HYDROXIDE 50% BULK RWTP								\$330.00
14	SODIUM HYDROXIDE 50% TOTE RWTP								\$485.20
200	SULFURIC ACID 93% RWTP								\$202.00
1200	PACL RWTP								\$536.00
5	POLYPHOSPHATE-DRY	\$1,738.00	\$1,820.20	\$1,858.00	\$1,834.34	\$1,817.00	\$1,780.00	\$1,779.00	\$1,828.00
60	POLYPHOSPHATE-LIQUID RWTP								\$939.00
40	WWTP CATIONIC POLYMER	\$2,420.00	\$2,900.00	\$2,360.00	\$1,860.00	\$1,774.00	\$2,080.00	\$2,480.00	\$2,540.00

Awaiting Council Approval