

Memorandum Public Works Department



To: City Manager
Subject: Water Treatment Chemical Purchases - 2012
Date: December 1, 2011
Number: 2011-338

On November 30, 2011 the Bi-State Regional Commission Joint Purchasing Council awarded bids for water treatment chemicals to be purchased in the coming year. Attached is a copy of the bid results for your review. The two non-bid items from the Pristine Hydrochemical division of Met-Pro are included. These are proprietary blend coagulants used in the clarification process.

The projected chemical costs for the coming year are slightly higher than last year's projection due to an increase in chemical costs. Ultimately, chemical optimization will be a priority in order to continue to lower chemical costs. Below is a summary of the water treatment chemicals to be purchased.

<u>ITEM</u>	<u>VENDOR</u>	<u>QUANTITY/UNIT PRICE</u>	<u>TOTAL</u>
Aluminum Sulfate	USALCO	550tons @ \$470.60/ton	\$258,830.00
Anhydrous Ammonia	Tanner Industries	35,000 lbs @ \$0.79/lb	\$27,650.00
Anthracite Filter Coal	Unifilt Corporation	40 tons @ \$432.51/ton	\$17,300.40
Carbon	Thatcher Chemical	10 tons @ \$1,054.00/ton	\$10,540.00
Caustic Soda	K. A. Steel Chemicals	185 tons @ \$561.42/ton	\$103,862.70
Chlorine	Brenntag Mid-South	75 tons @ \$423.00/ton	\$31,725.00
Hydrofluosilic acid	Key Chemical	85,000 lbs @ \$0.2845/lb	\$24,182.50
PHI-66121 Polymer	Met Pro Corporation	22,500 lbs @ \$1.96/lb	\$44,100.00
PHI-100 Polymer	Met Pro Corporation	9000 lbs @ \$1.77/lb	\$15,930.00
Potassium Permanganate	Viking Chemical	12,000 lbs @ \$1.99/lb	\$23,880.00
Phosphoric Acid	Prayon, Inc.	45,000 lbs @ \$0.525/lb	\$23,625.00
<hr/> TOTAL BID:			\$581,625.60

Recommendation

The Public Works Department recommends that the City Council accept the bids for the items listed above and authorize them for purchase in 2012.

Account Chargeable:

Fund:	501	Water Operations/Maintenance
Division:	618	Utilities Services
Cost Center:	352	Water Treatment Plant
Object Code:	52217	Treatment Chemicals

Requisition Number:

Purchase Order Number:

Submitted by: Robert T. Hawes, P.E., Assistant City Manager/Public Works Director
Larry P. Cook, Utilities Superintendent/Water Treatment Plant Supervisor

Approved by: Thomas Thomas, City Manager

Water Treatment Chemicals – October 27, 2011 - Bid opening

SUPPLIER	COST PER UNIT	TOTAL
1. Aluminum Sulfate (Alum) - Bulk tank truck		
USALCO	\$470.60/dry ton	\$611,780.00
General Chemical Performance Products, LLC	\$548.00/dry ton	\$712,400.00
Thatcher Company of Montana	\$549.00/dry ton	\$713,700.00
2. Anhydrous Ammonia - Bulk tank truck		
Tanner Industries, Inc.	\$.79/lb	\$65,570.00
3. Anthracite Filter Coal - 1 ton bulk sacks on flatbed truck		
Unifilt Corporation	\$432.5151/ton – Truckload = 23 tons	\$9,947.85
4. Anthracite - Crushed, in suitable heavy-duty cloth, paper or polyethylene bags		
Unifilt Corporation	\$.2405/lb	\$6,253.00
5. Caustic Soda - bulk tank truck		
K.A. Steel Chemicals, Inc.	\$561.42 – price based on min. 3,500 gal deliveries of Coustic D/C 50%	\$171,233.10
Rowell Chemical Corporation	\$675.00/dry ton	\$205,875.00
Vertex Chemical Corporation	\$700.00/dry ton firm for 2012 or \$600.00/dry ton – firm 1/1/12 – 3/31/12 with quarterly revisions up or down based on documented market conditions	\$213,500.00
6. Activated Carbon - bulk truck in loads of 30,000 pounds		
Thatcher Company of Montana	\$.586/lb – minimum order: 15 tons	\$70,320.00
Jacobi Carbon, Inc.	\$.66 USD/lb	\$79,200.00
Norit Americas, Inc.	\$.68 Pac 20BF	\$81,600.00
Calgon Carbon Corporation	\$.70/lb	\$84,000.00
MeadWestVaco – MWV Specialty Chemicals	\$.71/lb – Aqua Nuchar	\$85,200.00
Standard Purification	\$.7685/lb	\$92,220.00
7. Activated Carbon - 50 lb. bags palletized and plastic wrapped for fork lift		
Thatcher Company of Montana	\$.527/lb – minimum order: 15 tons	\$31,620.00
F2 Industries, LLC	\$1,132.00/ton	\$33,960.00
Jacobi Carbon, Inc.	\$1,360.00 USD/ton	\$40,800.00
Norit Americas, Inc.	\$1,360.00 PAC 20BF	\$40,800.00
Calgon Carbon Corporation	\$1,400.00/ton	\$42,000.00
Standard Purification	\$1,433.00/ton	\$42,996.00
Harcros Chemicals, Inc.	\$2,080.00/ton	\$62,400.00

8. Activated Carbon - bulk truck loads not to exceed 20,000 lbs.		
Jacobi Carbon, Inc.	\$.66/lb	\$99,000.00
Calgon Carbon Corporation	\$.70/lb	\$105,000.00
MeadWestVaco – MWV Specialty Chemicals	\$.74/lb – Aqua Nuchar	\$111,000.00
Norit Americas, Inc.	\$.745 PAC 20BF	\$111,750.00
Standard Purification	\$.8295/lb	\$124,425.00
9. Chlorine (Gas) 150 lb. Cylinders		
Viking Chemical Company	\$.407/lb - \$61.50/cyl – No E. Moline	\$14,774.10
Brenntag Mid-South, Inc.	\$.49 – no delivery/sales to E. Moline Pool	\$14,883.00
Hawkins, Inc.	\$.44/lb	\$15,972.00
Harcros Chemicals, Inc.	\$.453/lb	\$16,443.90
Pristine Water Solutions	\$.477/lb	\$17,315.10
10. Chlorine (Sodium Hypochlorite 15%) – 4,500 gallon loads		
K.A. Steel Chemicals, Inc.	\$.69/gal – Price based on min. 4,500 gal. deliveries of sodium hypochlorite 15%	\$134,550.00
Vertex Chemical Corporation	\$.749/gal	\$146,055.00
Rowell Chemical Corporation	\$.82/gal	\$159,900.00
Alexander Chemical Corporation	\$.89/gal – minimum shipment 45,000 lbs	\$173,550.00
11. Chlorine (Liquid) - truck load lots varying from 2 to 6 one-ton cylinders		
Brenntag Mid-South, Inc.	\$423.00/ton	\$80,793.00
Harcros Chemicals, Inc.	\$450.00/ton	\$85,950.00
Viking Chemical Company	\$500.00/ton	\$95,500.00
Alexander Chemical Corporation	\$690.00 – minimum shipment 6 tons	\$131,790.00
12. Citric Acid - lots of 5-10, 100 lb. bags		
Viking Chemical Company	\$54.50/bag – 50 lb bags	\$2,834.00
Harcros Chemicals, Inc.	\$1.15/lb	\$2,990.00
Brenntag Mid-South, Inc.	\$1.22/lb	\$3,172.00
Hawkins, Inc.	\$1.27/lb	\$3,302.00
13. Copper Sulfate - lots of 20-30, 50 lb. bags		
Chemrite, Inc.	\$1.69/lb	\$10,309.00
Harcros Chemicals, Inc.	\$1.95/lb	\$11,895.00
Brenntag Mid-South, Inc.	\$2.32/lb	\$14,152.00

14. Hydrofluosilicic Acid - bulk tank truck		
Penco, Inc.	\$.319/lb – full truck loads (4,500 gal) only Rock Island & Moline. 23% adjusted basis	\$25,839.00
Hawkins, Inc.	\$.395/lb – East Moline	\$29,625.00
Viking Chemical Company	\$.405/lb – mini bulk only to E. Moline	\$30,375.00
Key Chemical, Inc.	\$.2845/lb – Moline & Rock Island only – pricing based on 23% basis. Quantity will be adjusted due to strength	\$44,808.75
Hawkins, Inc.	\$.357/lb – Rock Island & Moline	\$56,227.00
Viking Chemical Company	\$.405/lb – full tanks to Rock Island & Moline.	\$63,787.50
Alexander Chemical Corporation	\$.29/lb – minimum shipment 45,000 lbs	\$67,425.00
Mosaic Crop Nutrition, LLC	\$.2975/lb – Moline & Rock Island only – price based on 23% acidity adjusted basis. 40,000 lb minimum releases	\$69,168.75
Pristine Water Solutions	\$.398/lb	\$92,535.00
15. Hydrofluosilicic Acid - 15 gallon buckets		
Hawkins, Inc.	\$.44/lb or \$4.50/gal	\$2,497.50
Viking Chemical Company	\$5.00/gal	\$2,775.00
Brenntag Mid-South	\$5.35/gal	\$2,969.25
Harcros Chemicals, Inc.	\$5.96/gal	\$3,307.80
Pristine Water Solutions	\$8.523/gal	\$4,730.26
16. Lime - bulk trucks of 50,000 pound loads		
Mississippi Lime Company	\$159.50/ton	\$151,525.00
Carmeuse Lime, Inc.	\$.091005/lb	\$172,909.50
Lhoist North America/Chemical Lime Co. of MO	\$212.75/ton – additional fuel charge based on rate at shipment applies	\$202,112.50
17. Liquid Carbon Dioxide – Tank Supply		
Continental Carbonic Products, Inc.	\$.033/lb (\$66/ton) – subject to a twenty (20) ton minimum	\$12,375.00
Linde, LLC	\$.035/lb	\$13,125.00
18. Liquid Ferric Sulfate 18%+++ - bulk tank truck, 4,500 gallon loads		
Kemira Water Solutions, Inc.	\$.0952/lb	\$27,132.00
General Performance Chemical Products, LLC	\$.119/lb	\$33,915.00

19. Magnesium Bisulfite - lots of approximately four to eight - 30 gallon plastic drums		
Brenntag Mid-South, Inc.	\$.34	\$5,100.00
20. Potassium Permanganate - lots of ten -110 lb. (50Kg) drums		
Viking Chemical Corporation	\$1.99/lb	\$7,363.00
Marubeni Specialty Chemicals, Inc.	\$2.17/lb – 55 lb drum	\$8,029.00
Chemrite, Inc.	\$2.35/lb	\$8,695.00
Brenntag Mid-South, Inc.	\$3.17/lb	\$11,729.00
21. Potassium Permanganate – 55lb drum (25Kg pails) with handles		
Viking Chemical Corporation	\$1.99/lb	\$38,655.75
Thatcher Company of Montana	\$2.067/lb	\$40,151.48
Marubeni Specialty Chemicals, Inc.	\$2.12/lb	\$41,181.00
American International Chemical	\$2.15/lb	\$41,763.75
Chemrite, Inc.	\$2.28/lb	\$44,289.00
F2 Industries, LLC	\$2.28/lb	\$44,289.00
Brenntag Mid-South, Inc.	\$3.17/lb	\$61,577.25
Harcros Chemicals, Inc.	\$3.39/lb	\$65,850.75
22. Aqua Mag – 55 gallon drums		
Carus Corporation	\$.65/lb	\$2,445.30
Shannon Chemical Corporation	\$.757/lb	\$2,847.83
Hawkins, Inc.	\$.76/lb – LPC-Amiscure trade name	\$2,859.12
Pristine Water Solutions	\$.780/lb – Aquadene SK-7641	\$2,934.36
Brenntag Mid-South, Inc.	\$.92/lb	\$3,461.04
23. Phosphoric Acid – Bulk tank truck		
Prayon, Inc.	\$.525/lb	\$23,625.00
Hawkins, Inc.	\$.55/lb	\$24,750.00
Harcros Chemicals, Inc.	\$.595/lb	\$26,775.00
Shannon Chemical Corporation	\$.647/lb	\$29,115.00
Carus Corporation	\$.655/lb	\$29,475.00
Rowell Chemical Corporation	\$.68/lb	\$30,600.00
Brenntag Mid-South, Inc.	\$.69/lb	\$31,050.00
Pristine Water Solutions	\$.695/lb – Aquadene SK7612	\$31,275.00

No Bids

1. JCI Jones Chemical, Inc.
2. Linwood Mining
3. Nalco Company
4. Praxair
5. Solvay Fluorides

Water Chemical Bid Opening – October 27, 2011

11/30/11