

**Memorandum  
Public Works Department**



**To:** City Manager  
**Subject:** Water Treatment Chemical Purchases - 2014  
**Date:** December 19, 2013  
**Number:** 2013-261

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On November 25, 2013 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 bid prices for the coming year are slightly higher than last year's final prices. 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	413 tons @ \$491.00/ton	\$202,783.00
Anhydrous Ammonia	Tanner Industries	26,250 lbs @ \$0.81/lb	\$21,262.50
Carbon	Thatcher Company	7.5 tons @ \$1,044.00/ton	\$7,830.00
Caustic Soda	K. A. Steel Chemicals	138 tons @ \$540.00/ton	\$74,520.00
Chlorine	Brenntag Mid-South	56 tons @ \$369.00/ton	\$20,664.00
Hydrofluosilic acid	Mosaic Crop Nutrition, LLC	63,750 lbs @ \$0.26/lb	\$16,575.00
PHI-66121 Polymer	Met Pro Corporation	16,875 lbs @ \$1.98/lb	\$33,412.50
PHI-100 Polymer	Met Pro Corporation	6,750 lbs @ \$1.80/lb	\$12,150.00
Potassium Permanganate	Carus Corporation	9,000 lbs @ \$1.90/lb	\$17,100.00
Phosphoric Acid	Chemrite, Inc.	45,000 lbs @ \$0.524/lb	\$23,580.00
<b>TOTAL BID:</b>			<b>\$429,877.00</b>

**Recommendation**

The Public Works Department recommends that the City Council accept the bids for the items listed above and authorize them for purchase in 2014.

Account Chargeable:

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

**Submitted by:** Randall D. Tweet, Public Works Director  
Larry P. Cook, Utilities Superintendent

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**Approved by:** Thomas Thomas, City Manager

**Water Treatment Chemicals – October 30, 2013 - Bid opening**

<b>SUPPLIER</b>	<b>COST PER UNIT</b>	<b>TOTAL</b>
<b>1. Aluminum Sulfate (Alum) - Bulk tank truck</b>		
USALCO Michigan City Plant, LLC	\$491.00/dry ton	\$785,744.00
General Chemical Performance Products	\$538.00/dry ton	\$860,800.00
<b>2. Anhydrous Ammonia - Bulk tank truck</b>		
SNR Technologies	\$390.60/ton *For every 20 tons See notes attached to bid	\$7,812.00*
Tanner Industries	\$0.81/lb	\$67,230.00
<b>3. Anthracite Filter Coal - 1 ton bulk sacks on flatbed truck</b>		
SNR Technologies	\$0.229/lb - See notes attached to bid	\$5,954.00
Carbonite Filter Corporation	\$333.20/ton	\$8,330.00
Prominent Systems, Inc.	\$409.00/ton	\$10,225.00
Unifilt Corporation	\$499.16/ton	\$12,479.00
<b>4. Anthracite - Crushed, in suitable heavy-duty cloth, paper or polyethylene bags</b>		
Carbonite Filter Corporation	\$0.182/lb	\$4,732.00
Unifilt Corporation	\$0.27/lb	\$7,020.00
Powell Chemical Corporation	\$565/dry ton	\$183,625.00
<b>5. Caustic Soda - bulk tank truck</b>		
K.A. Steel Chemical, Inc.	\$540.00/ton - See note on bid	\$175,500.00
Brenntag Mid-South, Inc.	\$574.00/DST	\$186,550.00
Alexander Chemical Corporation, A Carus Company	\$588.00/ton	\$191,100.00
Univar USA, Inc.	\$589.00/DST	\$191,425.00
Vertex Chemical Corporation	\$610.00/dry ton	\$198,250.00
<b>6. Activated Carbon - bulk truck in loads of 30,000 pounds</b>		
Prominent Systems, Inc.	\$1,190.00	\$35,700.00
Thatcher Company of Montana	\$0.558/lb	\$66,960.00
Michigan Renewable Carbon/Biogenic Reagents	\$0.58/lb	\$69,000.00
Cabot Norit Americas, Inc.	\$0.63/lb	\$75,000.00
Standard Purification	\$0.7315/lb	\$87,780.00
Calgon Carbon Corporation	\$0.87/lb	\$104,000.00

SUPPLIER	COST PER UNIT	TOTAL
<b>7. Activated Carbon - 50 lb. bags palletized and plastic wrapped for fork lift</b>		
Michigan Renewable Carbon/Biogenic Reagents	\$990.00/ton	\$29,700.00
Thatcher Company of Montana	\$1,044.00/ton	\$31,320.00
Standard Purification	\$1,620.00/ton	\$48,600.00
Cabot Norit Americas, Inc.	\$1,780.00/ton	\$53,400.00
Calgon Carbon Corporation	\$1,840.00/ton	\$55,200.00
<b>8. Activated Carbon - bulk truck loads not to exceed 20,000 lbs.</b>		
Michigan Renewable Carbon/Biogenic Reagents	\$0.62/lb	\$93,000.00
Cabot Norit Americas, Inc.	\$0.68/lb	\$102,000.00
Standard Purification	\$0.8145/lb	\$122,175.00
Calgon Carbon Corporation	\$0.89/lb	\$133,000.00
<b>9. Chlorine (Gas) 150 lb. Cylinders</b>		
Brenntag Mid-South, Inc.	\$0.315/lb - No chlorine gas sales to East Moline Pool	\$14,080.50
Viking Chemical Company	\$0.3585/lb - No sales to East Moline	\$16,024.95
Alexander Chemical Corporation, A Carus Company	\$0.36/lb	\$16,092.00
Hawkins, Inc.	\$0.36/lb	\$16,092.00
<b>10. Chlorine (Sodium Hypochlorite 15%) – 4,500 gallon loads</b>		
K.A. Steel Chemicals, Inc.	\$0.67/gallon - See note on bid	\$130,650.00
Rowell Chemical Corporation	\$0.685/gallon	\$133,575.00
Vertex Chemical Corporation	\$0.705/gallon	\$137,475.00
Alexander Chemical Corporation, A Carus Company	\$0.794/gallon	\$154,830.00
Pristine Water Solutions	\$1.929/gallon - Includes certified lab report costs	\$376,155.00
<b>11. Chlorine (Liquid) - truck load lots varying from 2 to 6 one-ton cylinders</b>		
Brenntag Mid-South, Inc.	\$369.00/ton	\$43,173.00
Alexander Chemical Corporation, A Carus Company	\$389.00/ton	\$45,513.00
<b>12. Citric Acid - lots of 5-10, 100 lb. bags</b>		
Hawkins, Inc.	\$1.03/lb	\$2,678.00
Viking Chemical Company	\$1.04/lb - 50 lb bag	\$2,704.00
Brenntag Mid-South, Inc.	\$1.09/lb	\$2,834.00
AmPac Chemical Company	\$1.20 - 50 lb bag, granular	\$3,120.00

SUPPLIER	COST PER UNIT	TOTAL
<b>13. Copper Sulfate - lots of 20-30, 50 lb. bags</b>		
Chemrite, Inc.	\$1.55	\$9,455.00
Univar USA, Inc.	\$1.578	\$9,625.80
Brenntag Mid-South, Inc.	\$1.64	\$10,004.00
AmPac Chemical Company	\$1.76 - Fine 20 snow 50 lb bags	\$10,736.00
<b>14. Hydrofluosilicic Acid - bulk tank truck</b>		
Viking Chemical Company	\$0.36/lb - East Moline only	\$27,000.00
Hawkins, Inc.	\$0.36/lb - East Moline only	\$27,000.00
Mosaic Crop Nutrition, LLC	\$0.26/lb - Price based on 23% assay adjusted basis + 40,000/lb minimum releases. Moline & Rock Island only. No bid East Moline	\$42,250.00
Hawkins, Inc.	\$0.29/lb - Full truck load	\$47,125.00
Key Chemical, Inc. (bid is missing page 2)	\$0.2575/lb or \$514.95/ton	\$61,156.25
Alexander Chemical Corporation, A Carus Company	\$0.27/lb	\$64,125.00
Pencco, Inc.	\$0.278/lb - 4,000 gallon minimum order/delivery	\$66,025.00
Brenntag Mid-South, Inc.	\$0.29 - 44,000 lb minimum order	\$68,875.00
<b>15. Hydrofluosilicic Acid - 15 gallon buckets</b>		
Brenntag Mid-South, Inc.	\$4.00/gallon	\$2,940.00
Hawkins, Inc.	\$0.395/lb or \$4.045/gallon	\$2,973.08
<b>16. Lime - bulk trucks of 50,000 pound loads</b>		
Mississippi Lime Company	\$171.00/ton	\$162,925.00
Carmeuse Lime, Inc.	\$0.098385/lb or \$196.77/ton	\$186,931.50
Lhoist North America of Missouri, Inc.	\$217.00 - additional fuel surcharge based on rate at time of shipment applies	\$206,150.00
<b>17. Liquid Carbon Dioxide – Tank Supply</b>		
Continental Carbonic Products, Inc.	\$0.035 (\$70.00/ton) - see notes on bid	\$13,125.00
Poet Ethanol Products, CO2	\$0.045/lb	\$16,875.00
<b>18. Liquid Ferric Sulfate 18%+++ - bulk tank truck, 4,500 gallon loads</b>		
Kemira Water Solutions, Inc.	\$0.1022/wet lb	\$29,127.00
Geneval Chemical Performance Products, LLC	\$0.109/lb	\$31,065.00
<b>19. Magnesium Bisulfite - lots of approximately four to eight - 30 gallon plastic drums</b>		
Brenntag Mid-South, Inc.	\$0.44	\$880.00

SUPPLIER	COST PER UNIT	TOTAL
<b>20. Potassium Permanganate - lots of ten -110 lb. (50Kg) drums</b>		
Marubeni Specialty Chemicals, Inc.	\$1.935/lb	\$7,159.50
Viking Chemical Company	\$1.935/lb	\$7,159.50
American International Chemical	\$1.99/lb - 55 gallon drums	\$7,363.00
AmPac Chemical Company	\$2.18/lb - 55.115 lb drum	\$8,066.00
<b>21. Potassium Permanganate – 55lb drum (25Kg pails) with handles</b>		
Carus Corporation	\$1.90/lb	\$29,070.00
Marubeni Specialty Chemicals, Inc.	\$1.935/lb	\$29,605.50
Viking Chemical Company	\$1.935/lb	\$29,605.50
Thatcher Company of Montana	\$1.954/lb	\$29,896.20
F2 Industries, LLC	\$1.984/lb	\$30,355.20
American International Chemical	\$1.99/lb	\$30,447.00
Chemrite, Inc.	\$2.08/lb	\$31,824.00
AmPac Chemical Company	\$2.13/lb	\$32,589.00
<b>22. Aqua Mag – 55 gallon drums</b>		
Pristine Water Solutions	\$0.574/lb - Aquadene SK 7641	\$2,159.39
Shannon Chemical Corporation	\$0.597/lb	\$2,245.91
Hawkins, Inc.	\$0.60/lb - LPC-AM, trade name	\$2,257.20
Brenntag Mid-South, Inc.	\$0.64/lb - Aquapure 3637	\$2,407.68
Carus Corporation	\$0.667/lb	\$2,482.92
<b>23. Phosphoric Acid – Bulk tank truck</b>		
Chemrite, Inc.	\$0.524/lb	\$23,580.00
Carus Corporation	\$0.53/lb	\$23,850.00
Shannon Chemical Corporation	\$0.535/lb	\$24,075.00
Brenntag Mid-South, Inc.	\$0.62/lb	\$27,900.00
Pristine Water Solutions	\$0.849/lb	\$38,205.00
<b>24. SOD Hypochlorite 12.5% - 53 gallon drums</b>		
Viking Chemical Company	\$1.39/gallon	\$1,252.39
Brenntag Mid-South, Inc.	\$1.43/gallon	\$1,288.43
Hawkins, Inc.	\$1.75/gallon	\$1,576.75
Pristine Water Solutions	\$2.71/gallon	\$2,441.71

SUPPLIER	COST PER UNIT	TOTAL
<b>25. Hydrofluosilicic Acid 23% - 150 lb container</b>		
Hawkins, Inc.	\$0.395/lb or \$4.045/gallon	\$177.75
Brenntag Mid-South, Inc.	\$0.439/lb	\$197.55

**No Bids**

1. Nalco Company
2. Polydyne
3. C&S Chemicals
4. Praxair
5. Harcros Chemicals

**Bid Award Notes:**

**East Moline -**

**Item 8** - Michigan Renewable - Unresponsive bid - vendor did not comply with bid specifications - no sample was received.

**Item 14** - Tie bid price - Hawkins chosen because they allow credit card payments and are located in closer proximity to East Moline so delivery time is quicker.

**Rock Island -**

**Item 7** - Michigan Renewable never returned the multiple attempts to contact them. Unresponsive bidder.

**Water Chemical Bid Opening – October 30, 2013**