

Memorandum

Public Works Department



To: City Manager
Subject: Wastewater Treatment Chemical Purchases - 2015
Date: December 9, 2014
Number: 2014-282

On December 4, 2014 the Bi-State Regional Commission Joint Purchasing Council awarded bids for wastewater treatment chemicals to be purchased in the coming year. Attached is a copy of the bid results for your review with the awarded bids highlighted in yellow. The one non-bid item from Solenis, LLC. is included. This is a propriety blend coagulant used in the sludge press operation. Listed below are the anticipated purchase quantities and costs for each associated chemical.

Chlorine and Praestol K144 are the only two chemicals that have been utilized in the past that we can compare actual bid prices to previous years. The Praestol K144 unit price remains unchanged and Chlorine came in slightly lower than last year. The remaining chemicals are new to the bid process this year as a result of the Wet Weather Treatment System. We anticipate filling each new chemical tank three times over the course of a year, but this could change depending on how much the Wet Weather Treatment System is operated. \$75,000 was budgeted for CY15 with estimated chemical costs ahead of the bid award. The final bid award prices were lower, although very close, to what our estimates predicted.

<u>ITEM</u>	<u>VENDOR</u>	<u>QUANTITY/UNIT PRICE</u>	<u>TOTAL</u>
Chlorine	Brenntag Mid-South	12 tons @ \$367.00/ton	\$4,404.00
Praestol K144	Solenis, LLC	36 drums @ \$1.70/lb	\$27,540.00
Sodium Hypochlorite	Vertex Chemical Corp.	40,500 gals @ \$0.64/gal	\$25,920.00
Ferric Chloride	Kemira Water Solutions, Inc.	9,000 gals @ \$1.405/gal	\$12,645.00
Sodium Bisulfate	Viking Chemical	33,270 lbs @ \$0.1325/lb	\$4,408.00
TOTAL BID:			\$74,917.00

Recommendation

The Public Works Department recommends that the City Council accept the bids for the items listed above and authorize them for purchase in 2015.

Account Chargeable:

Fund:	506	Wastewater Operations/Maintenance
Division:	618	Utilities Services
Cost Center:	341	Wastewater Mill Street Plant
Object Code:	52217	Treatment Chemicals

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

Approved by: Thomas Thomas, City Manager

2015 Water Treatment Chemicals – October 29, 2014 - Bid opening

Awarded Vendors are highlighted in yellow.

SUPPLIER		COST PER UNIT	TOTAL
1. Aluminum Sulfate (Alum) - Bulk tank truck			
Kemira Water Solutions, Inc.	See Note 11	\$480.66/dry ton – Kemira ALS	\$769,056.00
USALCO Michigan City Plant, LLC		\$491.99	\$787,184.00
Chemtrade Chemicals US, LLC	See Note 9	\$538.00/dry ton	\$860,800.00
2. Anhydrous Ammonia - Bulk tank truck			
Tanner Industries, Inc.		\$0.81/lb.	\$67,230.00
3. Anthracite Filter Coal - 1 ton bulk sacks on flatbed truck			
NO BIDS			
4. Anthracite - Crushed, in suitable heavy-duty cloth, paper or polyethylene bags			
SNR Technologies		\$0.2267/lb. – 52# bags	\$5,892.94
5. Caustic Soda - bulk tank truck			
Vertex Chemical Corporation		\$510.00	\$165,750.00
Univar USA, Inc.		\$521.00/dry standard ton	\$169,325.00
K.A. Steel Chemical, Inc.	See Note 10	\$527.00/dry ton	\$171,275.00
Alexander Chemical Corp – A Carus Company		\$528.00	\$171,600.00
Brenntag Mid-South, Inc.		\$529.00	\$171,925.00
Rowell Chemical Corporation		\$540.00/dry ton	\$175,500.00
6. Activated Carbon - bulk truck in loads of 30,000 pounds			
Prominent Systems, Inc.		\$1,320.00/ton	\$39,600.00
Cabot Norit Americas, Inc.	See Note 1	\$0.63/lb.	\$75,600.00
Cal-Pacific Carbon, LLC	See Note 2	\$0.65	\$78,000.00
Thatcher Company of Montana, Inc.	See Note 12	\$0.74/lb. – samples sent	\$88,800.00
Standard Purification		\$0.858/lb.	\$102,960.00
Calgon Carbon Corporation		\$1.25/lb.	\$150,000.00
7. Activated Carbon - 50 lb. bags palletized and plastic wrapped for fork lift			
Cal-Pacific Carbon, LLC	See Note 2	\$1,060.00	\$31,800.00
F2 Industries, LLC		\$1,533.00/ton	\$45,990.00
Standard Purification		\$1,615.00/ton	\$48,450.00
Thatcher Company of Montana, Inc.	See Note 12	\$0.91/lb. – samples sent	\$54,600.00
Cabot Norit Americas, Inc.	See Note 1	\$1,860.00/ton	\$55,800.00
Calgon Carbon Corporation		\$2,540/ton	\$76,200.00
8. Activated Carbon - bulk truck loads not to exceed 20,000 lbs.			
Cabot Norit Americas, Inc.	See Note 1	\$0.68/lb	\$102,000.00
Thatcher Company of Montana, Inc.	See Note 12	\$0.78/lb. – samples sent	\$117,000.00
Cal-Pacific Carbon, LLC	See Note 2	\$0.81	\$121,500.00
Standard Purification		\$0.959/lb.	\$143,850.00
Calgon Carbon Corporation		\$1.20/lb.	\$195,000.00
9. Chlorine (Gas) 150 lb. Cylinders			
Brenntag Mid-South, Inc.		\$0.335 – No Chlorine Gas to East Moline pool	\$11,708.25
Hawkins, Inc.		\$0.35/lb.	\$13,072.00
Viking Chemical	See Note 8	\$0.3585/lb. – No bid for East Moline	\$13,389.98
DPC Enterprises, L.P.		\$0.8334/lb. – No Chlorine for East Moline pool – No deposits	\$31,127.49

SUPPLIER	COST PER UNIT	TOTAL
10. Chlorine (Sodium Hypochlorite 15%) – 4,500 gallon loads		
Vertex Chemical Corporation	\$0.64	\$174,720.00
Rowell Chemical Corporation See Note 7	\$0.71	\$193,830.00
K.A. Steel Chemicals, Inc. See Note 10	\$0.754/gallon	\$205,842.00
DPC Enterprises, L.P.	\$0.78/gallon – Minimum Order -4,500 gallons – 1 drop location per order	\$212,940.00
Alexander Chemical Corporation – A Carus Company	\$0.81	\$221,130.00
11. Chlorine (Liquid) - truck load lots varying from 2 to 6 one-ton cylinders		
Brenntag Mid-South, Inc.	\$367.00	\$40,003.00
Alexander Chemical Corporation – A Carus Company	\$389.00	\$42,401.00
Viking Chemical See Note 8	\$420.00/ton	\$45,780.00
DPC Enterprises, L.P.	\$485.00	\$52,865.00
12. Citric Acid - lots of 5-10, 100 lb. bags		
Viking Chemical See Note 8	\$1.01/lb	\$2,626.00
Hawkins, Inc.	\$1.03/lb.	\$2,678.00
Brenntag Mid-South, Inc.	\$1.15/lb.	\$2,990.00
13. Copper Sulfate - lots of 20-30, 50 lb. bags		
Univar, USA, Inc.	\$1.55	\$9,300.00
Brenntag Mid-South, Inc.	\$2.01	\$12,060.00
14. Hydrofluosilicic Acid - bulk tank truck		
Viking Chemical See Note 8	\$0.305/lb. – East Moline only	\$22,875.00
Hawkins, Inc.	\$0.35/lb. – East Moline only	\$26,250.00
Key Chemical, Inc.	\$477.00/ton or \$0.2385/lb. 23% basis – Moline & RI only 162,500 lbs.	\$38,756.25
Rowell Chemical Corporation See Note 7	\$520.00/ton or \$0.26/lb. – Moline & RI only	\$42,250.00
Brenntag Mid-South, Inc.	\$0.261 - 40,000 lb. minimum 23% assay adjusted – Moline & Rock Island only	\$42,412.50
Mosaic Crop Nutrition, LLC See Note 5	\$0.236/lb. – Moline & RI only	\$56,050.00
Alexander Chemical Corporation – A Carus Company	\$0.2485	\$59,018.75
15. Hydrofluosilicic Acid - 15 gallon buckets		
Hawkins, Inc.	\$0.36/lb. or \$3.65/gallon	\$2,576.07
Viking chemical See Note 8	\$3.80/gallon	\$2,679.00
Brenntag Mid-South, Inc.	\$3.97	\$2,798.85
Water Solutions Unlimited, Inc.	\$4.19/gallon	\$2,953.95
16. Lime - bulk trucks of 50,000 pound loads		
Mississippi Lime Company	\$179.89/ton or \$0.089945/lb. delivered	\$170,895.50
Carmeuse Lime & Stone	\$0.110805/lb. or \$221.61/ton	\$210,529.50
Lhoist North America of Missouri, Inc. See Note 4	\$222.75/ton	\$211,612.50
17. Liquid Carbon Dioxide – Tank Supply		
Poet-CO ² See Note 6	\$0.0485/lb.	\$18,187.50
Continental Carbonic Products, Inc. See Note 3	\$0.0525 or \$105.00/ton	\$19,687.50
18. Liquid Ferric Sulfate 18%+++ - bulk tank truck, 4,500 gallon loads		
Kemira Water Solutions, Inc. See Note 11	\$0.1012/wet lb. – Kemira Pix-312	\$28,842.00
Chemtrade Chemicals US, LLC See Note 9	\$0.132/wet lb.	\$49,500.00

SUPPLIER	COST PER UNIT	TOTAL
19. Magnesium Bisulfite - lots of approximately four to eight - 30 gallon plastic drums		
Brenntag Mid-South, Inc.	\$0.57	\$1,140.00
20. Potassium Permanganate - lots of ten -110 lb. (50Kg) drums		
Viking Chemical See Note 8	\$1.91/lb. – 55 lb. drum	\$7,067.00
F2 Industries, LLC	\$1.93/lb.	\$7,141.00
American International Chemical	\$2.21/lb. – 55 lb. drum	\$8,177.00
21. Potassium Permanganate – 55lb drum (25Kg pails) with handles		
F2 Industries, LLC	Moline - \$1.93/lb. Rock Island - \$1.86/lb.	Moline-\$6,369.00 R.I.- \$22,320.00
Carus Corporation	\$1.88/lb.	\$28,764.00
Viking Chemical See Note 8	\$1.91	\$29,223.00
American International Chemical	\$2.01/lb.	\$30,753.00
Water Solutions Unlimited	\$2.58/lb.	\$39,474.00
22. Aqua Mag – 55 gallon drums		
Hawkins, Inc.	\$0.60/lb. – LPC-AM	\$1,881.00
Brenntag Mid-South, Inc.	\$0.65 – AquaPure 3637	\$2,037.75
Carus Corporation	\$0.66	\$2,069.10
23. Phosphoric Acid – Bulk tank truck		
Carus Corporation	\$0.52	\$23,400.00
24. SOD Hypochlorite 12.5% - 53 gallon drums		
Hawkins, Inc.	\$1.37/gallon	\$1,379.59
Water Solutions Unlimited	\$1.40/gallon	\$1,409.80
Brenntag Mid-South, Inc.	\$1.90	\$1,913.30
25. Hydrofluosilicic Acid 23% - 150 lb container		
Hawkins, Inc.	\$0.395/lb. or \$4.00/gallon	\$177.75
Water Solutions Unlimited	\$0.419/lb.	\$188.55
Brenntag Mid-South, Inc.	\$0.90	\$405.00
26. Ferric Chloride – Bulk Tank Truck		
Brenntag Mid-South, Inc.	\$0.14 – bid for 30,000 lbs.	\$4,200.00
Kemira Water Solutions, Inc. See Note 11	\$1.405/gallon – Kemira Pix-311 – minimum 2,500 gallons – bid for 30,000 gallons	\$42,150.00
27. Sodium Bisulfate - Totes		
Viking Chemical See Note 8	\$0.1325/lb.	\$1,987.50
Brenntag Mid-South, Inc.	\$0.26	\$3,900.00

NO BIDS:

1. **C&S Chemicals**
2. **Nalco Company**
3. **Pencco, Inc.**
4. **Polydyne, Inc.**
5. **Praxair**
6. **Shannon Chemical**

VENDOR NOTES:

- 1) **Cabot Norit Americas** – See exceptions for Activated Carbon on the enclosed cover letter.
- 2) **Cal-Pacific Carbon** – Does not accept credit cards.
- 3) **Continental Carbonic** – * Subject to a twenty (20) ton minimum and standard CCPI uncontrollable disruption language**. Pricing assumes invoices will be sent electronically. Continental Carbonic accepts the use of JP Morgan Chase MasterCard credit card.

** Neither party hereto will be liable in damages or otherwise to the other for default or delay in the performance of any of its obligations hereunder due to an uncontrollable interruption which shall include Acts of God, accident, fire, flood, storm, riot, war, sabotage, explosion, strike, lockout, labor disturbance, national defense requirement, governmental action, law, ordinance, rule or regulation, whether valid or invalid, inability to obtain or curtailment of electricity or other type of energy, raw material, labor, equipment or transportation, failures of normal sources of supply, or any similar or different contingency beyond its reasonable control which would make performance commercially impracticable whether or not contingency is the same type as those enumerated above. If, as a result of an uncontrollable interruption, CCPI incurs increased cost to produce or deliver the Product, CCPI shall have the right to pass along this cost increase to PURCHASER. PURCHASER shall have the right to decline to purchase Product as long as such price increase is in effect. If PURCHASER purchases Product from CCPI after having received notice of such price increase(s), PURCHASER shall pay its current price for Product plus such increase(s).

- 4) **Lhoist** – Additional truck fuel surcharge, based on rate at time of shipment applies. Material per attached product information sheet.
 - 5) **Mosaic** – Above price is based on 23% assay adjusted basis and 40,000/lb. minimum releases. Price is for Moline and Rock Island only. No bid on bulk loads for East Moline.
 - 6) **Poet-CO²** – Vendor does not accept credit cards.
 - 7) **Rowell Chemical** – Hydrofluosilicic Acid to East Moline is a no bid – because of short load requirement. All bulk prices are based on full truck load (4,000 gallons or 40,000 lbs. minimum per order.
 - 8) **Viking Chemical** – Next day delivery is our standard; credit cards not accepted.
 - 9) **Chemtrade** – Does not accept credit card payment.
 - 10) **K.A. Steel Chemicals** – Please review attached KASC Supply Agreement. Bid documents are submitted subject to mutual agreement to the enclosed suggested Supply Agreement. We agree to continue to accept your credit card payments.
- Sodium Hypochlorite 15% trade vol. Price based on minimum 4,500 gals. shipments. Short loads will have freight adjusted per load. Net 30 days. Lead Time: 1-2 days.
- Sodium Hydroxide Diaphragm Cell 50%. Price based on minimum 46,000 wet lbs. per shipment delivered to one tank at facility. Terms: Net 30 days. Lead Time: 1-2 days.
- Demurrage = \$80 per hour billed after two hours. Extra hose charge after 40 ft @1.00 per ft. Returned loads = full freight out & ½ rate back. Drumming Nozzle = \$75. Split Delivery Charge = \$75.
- 11) **Kemira** – Does not accept credit cards.
 - 12) **Thatcher Chemical** – Attached Appendices A & B for part of our proposal.

Water Chemical Bid Opening – October 29, 2014

11/4/14