

# CLAYTON COUNTY WATER AUTHORITY

## Request for Bid

### WATER AND WASTEWATER TREATMENT CHEMICALS

**Bid Opening: Tuesday, February 3, 2015 at 2:00 p.m. local time**

#### **A D D E N D U M   # 1**

---

Dated: January 27, 2015

***Acknowledgment of receipt of this addendum **MUST BE SIGNED AND INCLUDED IN YOUR RESPONSE TO THE RFB.*****

#### **REVISIONS and CLARIFICATION:**

1. Please replace footnote (3) on page 2-4.3 of the RFB documents with the following footnote (3):  
  
*(3) CCWA chlorine dioxide generators utilize Purate technology. Purate unit pricing must include bi-monthly calibration, inspection and testing of Purate/chlorine dioxide generation equipment at no additional charge at **three (3)** facilities using this product. Vendor selected must be able to perform repairs on Purate/chlorine dioxide equipment. Vendor must comply with CCWA Risk Management Requirements during the contract period. Also, Immigration Form and corresponding contractor affidavits must be completed.*
2. Please replace pages 4-1.3 and 4-1.4 of the RFB package with pages 4-1.3 R and 4-1.4 R provided with this Addendum to include above-referenced footnote and specifications regarding Purate service.
3. Phosphoric acid (item #10) is requested **as 36% H<sub>3</sub>PO<sub>4</sub> on a per gallon basis.**

#### **QUESTIONS:**

1. **Could you please tell me how many bags per order or shipment is required for the Dense Soda Ash, van delivery or open trailer?**

Answer: 8100 lbs, which is normally 162 bags. Delivery in a box truck or tractor trailer truck.

2. **Please provide prior year's bid tabulation for the chemicals.**

Answer: Please see awarded prices provided on pages 3 and 4 of this Addendum.

3. **I would like to know what the ship-to address is for BULK HYDRATED LIME.**

Answer: The address is 1693 Freeman Road, Jonesboro, GA. 30236.

4. **We would like to know if further testing is needed before the due date for the bid.**

Answer: No further testing is needed.

# CLAYTON COUNTY WATER AUTHORITY

## Request for Bid

### WATER AND WASTEWATER TREATMENT CHEMICALS

**Bid Opening:** Tuesday, February 3, 2015 at 2:00 p.m. local time

#### **A D D E N D U M   # 1**

---

- 5. Would you please let us know who the current supplier is, and the price for the polymer as well?**

Answer: Brenntag Midsouth – K144L - \$1.26 lb. / Polydyne – SE-365 - \$1.00 lb.

- 6. 20% Caustic Soda; estimated 4 million lbs:**

- a. Is it membrane or diaphragm grade?**

Answer: Membrane Grade.

- b. The estimated use is 4 million lbs. Is that wet or dry pounds?**

Answer: Wet.

- c. What is the number of delivery points?**

Answer: 1 possibly 2.

- 7. 12.5% Sodium Hypochlorite; estimated 500,000 gallons:**

- a. How many delivery points?**

Answer: 4 sites – W.B. Casey WRF (2 sites inside Casey), Terry R. Hicks WPP, J.W. Smith WPP and W.J. Hooper WPP.

- 8. For the 20% Caustic Soda and 12.5% Sodium Hypochlorite, who are the current vendors and what is the current price?**

Answer: Please refer to the 2014 bid tabulation on pages 3 and 4 of this Addendum.

- 9. I see reference in this bid to performance and/or bid bonds. Is either one required for this bid?**

Answer: No, there aren't any bonds required for this bid.

---

SIGNATURE

---

COMPANY NAME

---

DATE

# CLAYTON COUNTY WATER AUTHORITY

## 2014 Water and Wastewater Treatment Chemicals – BID RESULTS

Item No:	1	2	3	4	5	6	7	8	9	10	11	12
Item Description:	Liquid Aluminum Sulfate	Dense Soda Ash	Bulk Hydrated Lime	Liquid Lime 30% Calcium Hydroxide	Powdered Activated Carbon 50 lb bag	Powdered Activated Carbon 1,000 lb sack	Sodium Silica Fluoride	Fluorosilic Acid 23%	Copper Sulfate Med. Crystal	Phosphoric Acid 36% PO <sub>4</sub>	Sodium Hydroxide 25%	Sodium Hypochlorite 12.5% 55 gal drum
Price per:	/ dry ton	/ lb	/ lb	/ lb	/ lb	/ lb	/ lb	/ gal	/ lb	/ gal	/ lb	/ gal
AFFINITY CHEMICAL	198.500											
ALLIED UNIVERSAL CORP												
WATER SOLUTIONS, Division of Azure Water Svces												
BRENNTAG MID-SOUTH, INC.		0.230			0.600	0.600	0.450		2.270	3.280	0.165	1.690
BURNETT LIME CO. INC.				0.055								
C & S CHEMICALS, INC. / BLUE WATERS SOLUTIONS	450.000											
CARMEUSE LIME & STONE			0.100645									
CARUS CHEMICAL CORP.										0.256 /per wet lb.		
CEDAR CHEM. LLC												
CHENEY LIME			0.09258									
CHEMRITE, INC.									1.670	2.749		
COLONIAL CHEMICAL SOLUTIONS										Non-responsive	0.150	1.450
E & C CHEMICALS											0.160	
EVOQUA WATER TECHNOLOGIES												
F2 INDUSTRIES					0.720	0.720				3.390		
FORT BEND SERVICES, INC.												
GENERAL CHEMICAL CORP LLC	194.880											
GEO SPECIALTY CHEMICALS	424.080											
GULBRANDSEN TECHNOLOGIES												
HERCULES INCORPORATED												
INDUSTRIAL CHEMICALS INC.		0.250	0.103					2.780				1.750
KEMIRA WATER SOLUTIONS												
KEY CHEMICALS INC.								2.1356				
MORTON SALT												
MOSAIC								2.234				
PENCCO INC.								2.120				
POLYDYNE, INC.												
SHANNON CHEMICAL CORP.										2.724		
SOUTHERN STATES CHEMICAL												
STERLING WATER TECHNOLOGIES												
SUMMERVILLE dba SUMMIT CHEMICAL SPECIALTY PRODUCTS												
THATCHER CHEMICAL OF FL					0.733	0.733	0.449		1.615			
UNIVAR USA, INC.		0.265			0.970	0.950	0.450	2.500	1.600		0.165	1.750
USALCO												
Lowest Bid Amount:	194.880	0.230	0.09258	0.055	0.600	0.600	0.449	2.120	1.600	2.6112	0.150	1.450
Lowest Bidder:	GENERAL CHEMICAL CORP LLC	BRENNTAG MID-SOUTH, INC.	CHENEY LIME	BURNETT LIME CO. INC.	BRENNTAG MID-SOUTH, INC.	BRENNTAG MID-SOUTH, INC.	THATCHER CHEMICAL OF FL	PENCCO INC.	UNIVAR USA, INC.	CARUS CHEMICAL CORP.	COLONIAL CHEMICAL SOLUTIONS	COLONIAL CHEMICAL SOLUTIONS

# CLAYTON COUNTY WATER AUTHORITY

## 2014 Water and Wastewater Treatment Chemicals – BID RESULTS

Item No:	13	14	14	14	15	16	17	18	19	20	21	22	23
Item Description:	Sodium Hypochlorite 12.5% Bulk tanker	Caustic Soda 20%	Caustic Soda 20%	Caustic Soda 20%	Polymer, Ashland Praestol K144L	Polymer BASF Zetlag 8819FS	Sulfuric Acid 78% (bulk tanker)	Sulfuric Acid 78% (tote)	Solar Salt (>99.5% NaCl)	Ferric Sulfate liquid	Purate bulk	Purate tote	Aluminum Chlorohydrate
Price per:	/ gal	/ gal	/ gal	/ lb	/ lb	/ lb	/ gal	/ lb	/ lb	/ lb of iron EE	/ lb	/ lb	/ lb
AFINITY CHEMICAL													
ALLIED UNIVERSAL CORP	0.687	Non-responsive											
WATER SOLUTIONS, Division of Azure Water Svcs											0.408	0.680	
BRENNTAG MID-SOUTH, INC.	0.614	0.634	0.0622	0.0622	1.265	1.225		0.190	0.0769				
BURNETT LIME CO. INC.													
C & S CHEMICALS, INC. / BLUE WATERS SOLUTIONS													
CARMEUSE LIME & STONE													
CARUS CHEMICAL CORP.													
CEDAR CHEM. LLC													0.270
CHENEY LIME													
CHEMRITE, INC.		0.6487	0.0636	0.0636									
COLONIAL-CHEMICAL SOLUTIONS		0.6834	0.067	0.067				0.178					
E & C CHEMICALS		0.780	0.077	0.077							0.418	0.559	
EVOQUA WATER TECHNOLOGIES													
F2 INDUSTRIES													
FORT BEND SERVICES, INC.													
GENERAL CHEMICAL CORP LLC										0.979			0.240
GEO SPECIALTY CHEMICALS													
GULBRANDSEN TECHNOLOGIES													0.234
HERCULES INCORPORATED					1.350								
INDUSTRIAL CHEMICALS INC.													
KEMIRA WATER SOLUTIONS										0.680			
KEY CHEMICALS INC.													
MORTON SALT													
MOSAIC													
PENCCO INC.										1.179			
POLYDYNE, INC.													
SHANNON CHEMICAL CORP.													
SOUTHERN STATES CHEMICAL							1.470						
STERLING WATER TECHNOLOGIES													
SUMERVILLE dba SUMMIT CHEMICAL SPECIALTY PRODUCTS													0.248
THATCHER CHEMICAL OF FL										0.8295			
UNIVAR USA, INC.		0.7925	0.078	0.078				0.200	0.0725				
USALCO													
Lowest Bid Amount:	0.614	0.6340	0.0622	0.0622	1.265	1.225	1.470	0.178	0.0725	0.680	0.408	0.559	0.234
Lowest Bidder:	BRENNTAG MID-SOUTH, INC.	BRENNTAG MID-SOUTH, INC.	BRENNTAG MID-SOUTH, INC.	BRENNTAG MID-SOUTH, INC.	BRENNTAG MID-SOUTH, INC.	BRENNTAG MID-SOUTH, INC.	SOUTHERN STATES CHEMICAL	COLONIAL CHEMICAL SOLUTIONS	UNIVAR USA, INC.	KEMIRA WATER SOLUTIONS	WATER SOLUTIONS, Division of Azure Water Svcs	EVOQUA WATER TECHNOLOGIES	GULBRANDSEN TECHNOLOGIES

## Division 4

## Specifications

### Section 1: General Requirements - Revised

#### ATTACHMENT A

#	TREATMENT CHEMICALS FOR FY 2015	ESTIMATED QUANTITIES	UNIT SIZE
1	Liquid Aluminum Sulfate* (price per dry ton). <b><i>Delivery must be within 5 days of date of order.</i></b>	1,600 dry tons	4,000 gal. tanker
2	Dense Soda Ash* (price per pound)	40 tons	50 lb. bag
3	Bulk Hydrated Lime* (price per pound)	100 tons	18 ton tanker
4	Liquid Lime* (price per pound) 30% calcium hydroxide <b><i>Detailed specifications included for this chemical on next page</i></b>	850,000 lbs.	Bulk tanker, no size limit
5	Powdered Activated Carbon* (price per pound) (1)	3,000 lbs.	50 lb. bag
6	Powdered Activated Carbon* (price per pound)	10,000 lbs.	1,000 lb. sack, 5 sack min.
7	Sodium Silica Fluoride* (price per pound)	60,000 lbs.	50 lb. bag
8	Fluorosilic Acid 23% * (price per gallon)	16,000 gal.	4,000 gal. tanker
9	Copper Sulfate Med. Crystal* (price per pound)	40,000 lbs.	50 lb. bag
10	Phosphoric Acid 36% $H_3PO_4$ * (price per gallon) (2)	24,000 gal.	4,000 gal. tanker
11	Sodium Hydroxide 25% (price per pound)	10 totes	3,782 lb tote
12	Sodium Hypochlorite 12.5% solution * ( <i>percentage by weight</i> ) (price per gal.)	6 drums	55 gallon drum
13	Sodium Hypochlorite 12.5% solution * ( <i>percentage by weight</i> ) (price per gal.) <b><i>Delivery must be within 5 days of date of order.</i></b>	500,000 gal.	Bulk tanker, no size limit
14	Caustic Soda 20% (price as cost per gallon and cost per pound)	4,000,000 lbs.	Bulk tanker, no size limit
15	Polymer, Ashland Praestol #K144L (price per pound)**	120,000 lbs.	Bulk tanker, 4000 gal.
16	Polymer BASF SE-365 (price per pound)**	120,000 lbs.	Bulk tanker, 4000 gal.
17	Polymer Polydyne SE-365	130,000 lbs.	200 – 300 gal. tote
18	Sulfuric Acid (78%)* (price per gallon)	16,000 gal.	Bulk tanker, 4000 gal.
19	Sulfuric Acid (78%) * tote	30,000 lb.	200-330 gal. tote
20	Ferric Sulfate liquid (price as cost per pound of iron (EE) and cost per delivered gallon)	1,500,000 lbs.	Bulk tanker, no size limit
21	Purate bulk * (3)	220,000 lbs	4,000 gal. tanker
22	Purate tote * (3)	30,000 lb.	200 – 330 gal. tote
23	Aluminum Chlorohydrate, $Al_2O_3 = 23.0$ to $24.0\%$ , specific gravity at $70^\circ F = 1.33$ to $1.35$ (price per pound delivered) *	820,000 lbs.	45,000 lb tanker

## Division 4

## Specifications

### Section 1: General Requirements - Revised

#### Specifications for Liquid Lime 30% Calcium Hydroxide

- The Supplier shall certify only finely ground air-classified hydrated lime for preparation of the slurry product.
- Calcium hydroxide shall be a stabilized 30% aqueous suspension, micro-particulated under high rotary fusion.
- The mean particle size shall be 22 microns and the maximum particle size shall not exceed 96 microns.
- Slurry product must be ANSI/NSF standard 60 certified. Delivery tankers shall be solely used for shipping slurry and equipped with a system to avoid spillage during the off-loading.
- Delivery driver shall be responsible for adding correct amount of dilution water.

#### Specifications for Purate Service

- Purate service is to be performed every other month at all three (3) facilities. At the two (2) facilities with bulk deliveries (Hooper and Smith plants), service will be performed by the bulk supplier. At the one (1) facility using totes (Hicks plant), service will be performed by the tote supplier.

- 
- (1) A minimum of one (1) 1000 lb pallet would be acceptable which includes 25 – 40 lb paper bags. 40# paper bags are acceptable. Powder activated carbon made to AWWA B600 specs will also be acceptable.
  - (2) Phosphoric Acid 36%  $H_3PO_4$  will be required at all three locations (WJ Hooper WRF, JW Smith WRF, and Freeman Road WRF). Each location has a 6,000 gallon tank.
  - (3) CCWA chlorine dioxide generators utilize Purate technology. Purate unit pricing must include bi-monthly calibration, inspection and testing of Purate/chlorine dioxide generation equipment at no additional charge at three (3) facilities using this product. Vendor selected must be able to perform repairs on Purate/chlorine dioxide equipment. Vendor must comply with CCWA Risk Management Requirements during the contract period. Also, Immigration Form and corresponding contractor affidavits must be completed.

\* Must be NSF60 certified for drinking water applications.

\*\* We will purchase the polymer that yields lowest cost per dry ton of solids produced.