

DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

New Contract OTR Sole Source Bid Waiver Emergency Previous Contract/Project No. NA

Re-Bid Other LIVING WAGE APPLIES: YES NO

Requisition No./Project No.: RQWS120003 TERM OF CONTRACT 1 YEAR(S) WITH NA YEAR(S) OTR

Requisition /Project Title: Ferric Chloride and Ferric Sulfate

Description: To establish a contract through emergency process for the purchase and delivery of ferric chloride and sulfate for Miami-Dade Water and Sewer Department.

Issuing Department: DPM Contact Person: Herman Ramsey Phone: (305) 375-2851
Estimate Cost: \$500,000 GENERAL FEDERAL OTHER

Funding Source: Proprietary

ANALYSIS

<u>Commodity Codes:</u> 885-60			
Contract/Project History of previous purchases three (3) years Check here <input type="checkbox"/> if this is a new contract/purchase with no previous history.			
	EXISTING	2ND YEAR	3RD YEAR
Contractor:			
Small Business Enterprise:			
Contract Value:	\$	\$	\$
Comments:			
Continued on another page (s): <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
RECOMMENDATIONS			
	Set-aside	Sub-contractor goal	Bid preference
SBE			
Basis of recommendation:			
Signed: <i>Herman Ramsey</i>		Date sent to DBD: 10/31/11	
		Date returned to DPM:	



**SECTION #3
EMERGENCY PURCHASES**

NOTE TO DEPARTMENTS: COMPLETE ITEMS MARKED WITH (▶)

▶ REQUISITION#: RQWS120003

P.O. #: _____

BCC DATE: _____

▶ ACQUISITION DATE (Date Order Is Placed): _____

▶ TITLE:	Ferric Chloride and Ferric Sulfate
▶ DESCRIPTION:	Emergency purchase of Ferric Chloride and Ferric Sulfate for removal and control of Struvite at Central District Wastewater Treatment Plant (CDWWTP)
▶ PURPOSE:	Remove and control the struvite buildup at the CDWWTP by the addition of iron (ferric) chloride and iron (ferric) sulfate at several points in the wastewater treatment process.

▶ Department(s):	▶ Allocation(s):
MDWASD	\$ 500,000

▶ TERM OF CONTRACT:	<input type="checkbox"/> One <input type="checkbox"/> Two <input type="checkbox"/> Three <input type="checkbox"/> Four <input type="checkbox"/> Five *Year(s) <input checked="" type="checkbox"/> 12Months <input type="checkbox"/> Contract Period From _____ to _____ <input type="checkbox"/> Upon Completion * From _____ to _____ <input type="checkbox"/> Upon Delivery * _____ Days A.R.O. (after Receipt of Order)
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Special Conditions:	<input checked="" type="checkbox"/> Insurance Type 01 <input type="checkbox"/> Performance/Payment Bond <input type="checkbox"/> Certificate of Competency <input type="checkbox"/> Living Wage Applies
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SBE <input checked="" type="checkbox"/> None Measures: <input type="checkbox"/> Set Aside <input type="checkbox"/> SBE <input type="checkbox"/> Micro Enterprise <input type="checkbox"/> Bid Preference <input type="checkbox"/> SBE <input type="checkbox"/> Micro Enterprise <input type="checkbox"/> Goal <input type="checkbox"/> SBE <input type="checkbox"/> Micro Enterprise	Review Committee Date: _____ Item #: _____
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▶ Number of Price Quotation(s): Requested: 1 Received: _____

Awarded To Low Bidder: * YES NO, If "NO", provide explanation in the Comments section

Vendor: Kemira Water Solutions	Vendor: _____
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Contract Value: \$500,000

Did Local Preference affect the outcome of the Award?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO, if "YES", provide detailed explanation in the "Comments" section
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UAP Included: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<ul style="list-style-type: none"> • Will CITT Funds be used? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO • Will Federal Funds be used? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO • If UAP is not included, Attach written approval to waive UAP and provide an explanation in the "Comments" section
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**SECTION #3
EMERGENCY PURCHASES**

► **Signature(s):**

Gregory Hicks, CPPB
Contact Person

10/27/11
Date

(786) 552-8049
Telephone

Gregory Hicks 10/27/11

John W. Reid
Department Director Approval

10-27-11
Date

Department of Procurement Management Use Only

Signatures(s):

Heiman Ramsey
Procurement Agent

10-31-2011
Date

Procurement Supervisor

Date

Procurement Manager

Date

Division Director

Date

Vendor Assistance Section

Date

SECTION #3
EMERGENCY PURCHASES

► **EMERGENCY PURCHASES**

Comments:

WASD submitted RQWS11000010 waiver of formal bid to DPM on 5/10/11 to allow for uninterrupted application and treatment coverage while a competitive solicitation for the Ferric Sulfate and Ferric Chloride could be processed by DPM.

Neither the bid waiver nor competitive bid has been completed as of October 27th, 2011 which requires the WASD Department Director to declare an emergency situation to assure that the continued purchases are not considered as confirmations, and that the vendor can be paid in a timely manner.

During the 2010 calendar year, the Miami-Dade Water and Sewer Department experienced significant operational problems at the Central District Wastewater Treatment Plant (CDWWTP) associated with unprecedented formation of a material known as "Struvite" which clogs valves, pipes, pumps, and centrifuges. Because the problems in the treatment process were causing operating permit violations, WASD Department Director John Renfrow declared an emergency situation and directed Wastewater Treatment Operations and WASD staff take whatever actions were required to address the situation.

The corrective action determined to possess the greatest potential was the injection of iron chloride (Ferric Chloride) or iron sulfate (Ferric Sulfate) at several points in the treatment process. Ferric Chloride was added to the digested sludge being fed to the centrifuges with the expectation that the centrifuge operation will improve. Hence the concentration of centrate total suspended solids (TSS) will decline and the effluent TSS will improve. The result of these actions would remediate the conditions and allow CDWWTP process to return to permit compliance.

Ferric Chloride was also applied to the raw sludge in the digesters which retards the formation of struvite and also removes struvite from the critical valves piping, and pumps. An emergency purchase order was issued in August 2010 to facilitate the pilot process and to determine if the proposed actions would be the long term solution. After about six months, it became clear that the process was working and represented a long term answer.

Kemira Water Solutions, a major manufacturer of iron salts, agreed to continue to supply ferric chloride at \$500.00 per ton and ferric sulfate at \$300.00 per ton. The company also agreed to continue to furnish, at no additional cost, the equipment necessary to inject the chemicals into the treatment process. The equipment includes storage tanks, pumps, gauges, valves, piping, and all other supplies and incidentals required.

Background/Need to Know: The formation and buildup of struvite at the CDWWTP was unexpected and unprecedented creating significant operational problems and issues. The treatment plant began operating very inefficiently and failure to maintain normal operating and treatment standards resulted in effluent permit violations. The application of ferric sulfate and ferric chloride has proved to be a viable long term solution to control the excessive buildup of struvite. Department previously submitted a Bid Waiver on 5/10/11 to provide coverage and allow sufficient time for the product to be competitively bid by DPM.

Potential Issues: Failure to adequately remove and control the struvite will compromise the plant treatment efficiency to unsustainable levels and cause extensive damage throughout the plant infrastructure.

Justification/Inpud Document for "Bid Waiver"

Title: Ferric Chloride and Ferrous Sulfate

ITB # _____

It is the policy of Miami-Dade County, to consistently purchase goods and services using full and open competition. The citizens of Miami-Dade County are best served when we make sound business decisions based on competitive bids or proposals. Early acquisition planning that includes DPM can help to avoid delays and to facilitate effective market research. However, there may be instances when other than full and open competition may be justified. When a user department(s) determines that other than full and open competition is necessary or in the best interest of the County, appropriate justification for that course of action must be submitted to the CA Office for approval and execution in order to waive the competitive bid/proposal process.

Please provide the information requested below to support the need and feasibility for waiving the competitive bid/proposal process.

Est. Value: \$500,000.00

Purchase Requisition No. ROMS1100010

Contract #:

Date Required: May-11

Comm. #: 885-60

Proposed Vendor: Kernia Water Solutions

Previous Contract #: N/A

Estimated Cost: \$500,000.00

BOC Date: N/A

The Miami-Dade Water and Sewer Department (WASD) Wastewater Division continues to purchase ferric (iron) chloride and ferrous (iron) sulfate for the Central District Wastewater Treatment Plant to control the buildup of struvite, a mineral compound, which clogs the valves, pipes, pumps and dewatering equipment. The struvite formation causes the plant to operate inefficiently and fails to maintain the normal operating treatment standards creating wastewater effluent violations under the County's operational permit. Injecting these chemicals at various points during the dewatering process reduces the total suspended solids and allows the plant to remain in compliance with the County's operational permit.

The initial request to purchase these chemicals was to address an immediate need for struvite control at the Central District Wastewater Treatment Plant. The addition of ferric chloride and ferrous sulfate to the digested sludge, during the dewatering process, removes struvite and prevents the formation of struvite in the valves, pipes, pumps, and dewatering equipment. In order to continue to control the struvite formation and allow the operation and treatment process to function efficiently, the department needs to continue to add ferric chloride and ferrous sulfate to the operational system.

The department checked with South Florida Co-Op and the City of Ft. Lauderdale but no contracts were available from these entities. Kernia Water Solutions, Inc. is an established vendor with the County who has previously provided large quantities of chemicals to the department when a County contract was previously established for Water Production. Since Water Production changed their process, the chemical Ferric Sulfate that was provided by Kernia was no longer needed. Kernion Companies and Eaglebrook were the two bidders on the contract at that time with Kernion Companies ultimately being awarded the contract. Kernia is providing the equipment necessary to inject the chemicals into the treatment process which includes storage tanks, pumps, gauges, valves, piping, and all incidentals and supplies required at no initial charge to the County.

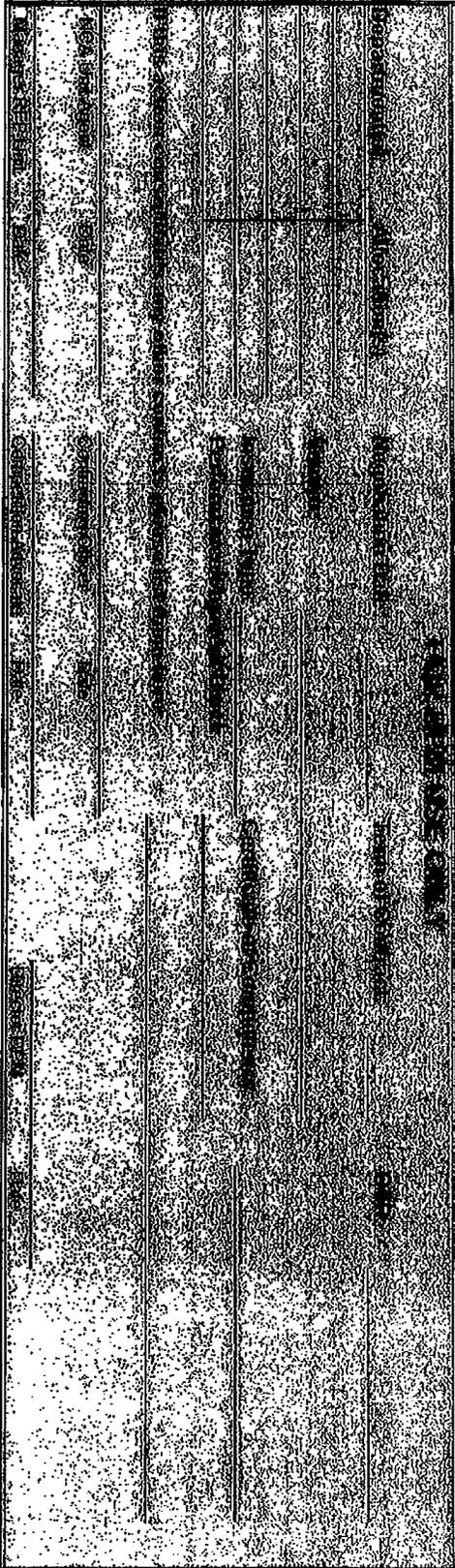
The main focus is to keep the struvite under control until a new competitively bid contract can be established. With the results of utilizing these two chemicals, the department is in the process of establishing specifications for a new contract simultaneously so services can continue without interruption. Upon solicitation and award of a new contract, this Bid Waiver can be cancelled.

Lydia Manners, W&S Purchasing Specialist 786-552-8054
Contact Person and Phone # L. Manners

[Signature]
Department Director's Approval

[Signature]
Date Approved

Justification Continued



May 3, 2011

Mr. Greg Lane
Administrative Officer
Miami-Dade Water & Sewer Department

Re: Use of ferric chloride / ferric sulfate - Central Plant Sludge Conditioning

Dear Mr. Lane,

As per your request, please find attached an overview of the ferric chloride / ferric sulfate treatment program at the Central Wastewater Treatment Plant:

Scope: Use of ferric chloride to aid in sludge conditioning, introduced to the treatment process prior to the centrifuges. At M-D WASH's discretion, ferric sulfate is used as an alternative to ferric chloride for the aforementioned application. Dosage rates are as per M-D WASH personnel.

Equipment and Detail: Kemira will continue to provide all the needed pumps, injection quills, hoses, trial trailer and containment until a permanent installation is constructed on the site.

1-2 spotted storage trailers to be used for temporary ferric chloride storage

Necessary containment for trial trailers

1-5 gpm pump, 1- smaller rate pump (size TBD), outfitted with calibration column

Sufficient hoses and extension cords needed to operate and flush pump

One injection quill, installed by MD-WASH staff into 8in sludge main prior to centrifuges.

Service Detail: Kemira Water Solutions, Inc. field services personnel will visit the Central WWTP on a regular basis to perform feed and storage system maintenance on the KWS owned and supplied equipment. KWS field services personnel also make unscheduled site visits when required.

Kemira Water Solutions, Inc.

3211 Clinton Pkwy Ct.
Lawrence, KS 66047

Tel: 800-897-6353
Fax: 785-842-2629

www.kemira.com

Costs:

Kemira is willing to provide all necessary equipment and field services for free of charge to MD-WASD

The cost for material is as follows:

Product: Ferric Chloride Solution

Price: \$500.00 per dry ton, FOB M-D WASD Central WWTP, shipment via full bulk truckload (approximately 7.3 dry tons) quantities.

Product: Ferric Sulfate Solution

Price: \$300.00 per dry ton, FOB M-D WASD Central WWTP, shipment via full bulk truckload (approximately 16 dry tons) quantities.

Please do not hesitate to contact me at any time if I can be of further service.

Best regards,

Richard B. Waterous

Richard Waterous
Senior Account Manager
Kemira Water Solutions, Inc.

410-935-2032 (cell)
Richard.waterous@kemira.com

DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

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Continued on another page (s): <input type="checkbox"/> YES <input checked="" type="checkbox"/> x			
<u>RECOMMENDATIONS</u>			
	Set-aside	Sub-contractor goal	Bid preference
<u>SBE</u>			
<u>Basis of recommendation:</u>			
Signed: <i>Herman Ramsey</i>		Date sent to DBD: 10/31/11	
		Date returned to DPM:	

Walters, Vivian (SBD)

From: Ramsey, Herman (ISD)
Sent: Monday, October 31, 2011 12:57 PM
To: Walters, Vivian (SBD)
Cc: Porter, Albert (SBD)
Subject: RQWS1200003: Ferric Chloride and Sulfate



Emergency Input Document.pdf



DBD DEPARTMENT
INPUTa.pdf

Good afternoon,

Attachments are the input documents for the above referenced emergency acquisition. We need a response from SBD within four hours in receipt of documents.

If you have questions, please contact me at (305) 375-2851.

Thank you.

Herman Ramsey

Herman Ramsey
Procurement Contracting Officer 1
Internal Services Department
111 NW 1st Street, Suite 1300
Miami, Florida 33128
Phone: (305) 375-2851
Fax: (305) 375-4407
E-Mail: hramsey@miamidade.gov