

CITY OF GRAND JUNCTION

SOLE SOURCE JUSTIFICATION FORM

Date: 5/9/2024 Requested By: Ashley Firl
 Department: Wastewater Division: Utilites
 Vendor Name: Unison Solutions, Inc Net Cost Delivered: \$ 53,876.75

Provide G/L Account where funds are budgeted: _____
 Project code, if applicable _____

SOLE SOURCE JUSTIFICATION

(INITIAL ALL ENTRIES THAT APPLY)

Material/Service Description: FerroSorp and Siloxane Media for CNG Process.

1. X - Uniqueness: Is unique and unavailable from any other source due to proprietary rights, patents, copyrights, secret processes, or monopoly control;
2. _____ - Compatibility: There is a need for compatibility with existing equipment, technologies, or processes, and only a specific product or service can satisfy that need;
3. _____ - Urgency: Delay would lead to serious injury, death, or significant financial loss;
4. _____ - Expertise: The vendor has unique experience, expertise, or capabilities unavailable elsewhere;
5. _____ - Standardization: There is a need to standardize specific equipment or supplies to reduce training, inventory, or maintenance costs, and only one vendor can meet this need;
6. _____ - Written demonstration and justification is available which reasonably and practicably establishes that the selection of a sole source vendor is in the best interest of the City.

**Attach Justification Memo and Pricing Documentation, then proceed with signatures below.
 After Dept Head approval, forward to Purchasing.**

Department Director Approval:

I recommend that competitive procurement be waived and that the service or material described herein be purchased as a sole source.

Signed: Randi Kim - Utilities Director, 5/10/2024
DocuSigned by: F3B7E9047688412... Date

Purchasing Approval:

Based on the above and attached documents, I have determined this to be a sole source with no other vendor practicably available.

Signed: Jay Valentine, 5/10/2024
DocuSigned by: 09BA36D53ED04B7... ing Manager Signature Date

Final Authorization

City Manager Approval Required (\$25K to \$50K)

yes / no

Signed: Andrea Phillips, 5/10/2024
DocuSigned by: 5149500A919B4AB... Signature Date

City Council Approval Required (over \$50K)

yes / no



Date: May 9, 2024

To: Randi Kim, Utilities Director
Jay Valentine, General Services Director
Andrea Phillips, Interim City Manager

From: Ashley Firl, Operations Support Engineer

Subject: Sole Source Request – FerroSorp and Siloxane Media for CNG Process

The Persigo Wastewater Plant operates a BioCNG process that pulls methane from the anaerobic digestion phase of wastewater treatment and refines it to the standard required to fuel vehicles at the Compressed Natural Gas (CNG) station located at City Shops.

To maintain operational status the process equipment requires industry specific filtrate media that removes impurities including moisture, siloxane, and hydrogen sulfide gas. This media is effective for roughly 4-6 months, depending on gas flows. At the end of the useful life it has to be replaced and disposed of.

Due to the specialized nature of the process and equipment, the appropriate materials are proprietary formulas with detailed performance conditions. Unison Solutions, Inc. is the sole provider for the UNI-H2SD (H2S removal media) and the UNI-CL3E (siloxane removal media) products that Persigo requires for the BioCNG process.

We would not be able to purchase other media because those products would not produce CNG at the necessary quality due to incompatible parameters. For example, other media may require extensive re-engineering and investments into our current process to allow for more surface area, lower flow rates, or additional substrates to achieve the same CNG purity we are currently experiencing.

This purchase request satisfies the criteria in the City of Grand Junction's "**Purchasing Policy and Procedure Manual**", Chapter 8: Sole Source Procurement, Sole Source Approval Criteria;

- (1) Uniqueness: Is unique and unavailable from any other source due to proprietary rights, patents, copyrights, secret processes, or monopoly control.



Date: 04/11/2024

Expires: 05/10/2024

Attn: Jay Vancil

Location: Grand Junction, CO 81505

Proposal Number: PM-224.1919

Proposal Name: Grand Junction Media and Parts

Dear Jay,

Unison Solutions, Inc. is pleased to provide you with the following quote per your request for replacement media and parts.

Description	Quantity	Unit Cost	Total
H2S Removal Media			
Unison Part Number UNI-H2SD	28,000.00 lbs.	\$ 1.45 /lb.	\$ 40,600.00
Estimated Shipping	1.00	\$ 6,175.00 each	\$ 6,175.00
Siloxane Removal Media			
Unison Part Number UNI-CL3E	1,045.00 lbs.	\$ 5.15 /lb.	\$ 5,381.75
Estimated Shipping	1.00	\$ 1,050.00 each	\$ 1,050.00
Parts			
GASKET-2027 - 36" Gasket for Top Manway	4.00	\$ 85.00 each	\$ 340.00
GASKET-1014 - 12" 150# 1/16 Gasket	3.00	\$ 15.00 each	\$ 45.00
FLT-1008 - Particulate Filter (Carbon)	1.00	\$ 235.00 each	\$ 235.00
Estimated Shipping	1.00	\$ 50.00 each	\$ 50.00
All costs noted above for shipping are estimates only. Actual cost of shipping will be determined at time of shipment.			Grand Total: \$ 53,876.75

MEDIA: PRICING SUMMARY

- Prices do not reflect any taxes that may be applicable and are valid for 30 days.
- Price does not include the following: labor for unloading media from the truck, disposal of spent media or labor for loading new media into vessels.
- Estimated delivery upon order receipt is 7- 21 days depending on availability

PAYMENT SCHEDULE

- 100% upon order acceptance. Net 30 days on all payments.

Thank you for giving Unison Solutions the opportunity to propose our services. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,
 Emma Hoefer
 Unison Solutions, Inc.
 563-585-0967



Specification Sheet

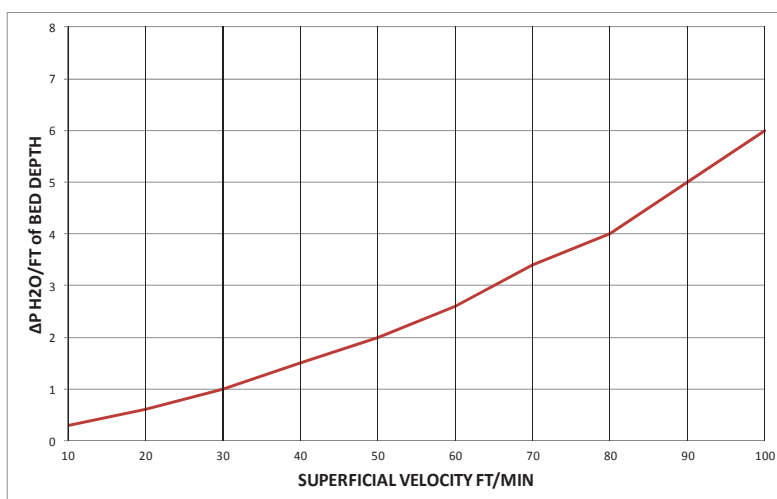
Siloxane Removal Media

Product Description:

UNI-CL3E is a highly active Granular Activated Carbon that has been pelletized and acid washed to minimize residual ash. It provides high surface area, fine pore structure, high density and superior hardness with reduced pressure drop as shown below.



PRESSURE DROP



TYPICAL PHYSICAL PROPERTIES/SPECIFICATIONS

Apparent Density (ASTM D-2854), g/cc	0.48-0.52
Density, lb/ft ³	30-32.5
Hardness, Min. (ASTM D-3802)	98.5
Ash, Max	8%
Standard packaging	55 lb bag 1,100 Supersack

This information is offered solely for consideration. It has been gathered from reference materials and/or test procedures and is believed to be true and accurate. None of this information shall constitute a warranty or representation, expressed or implied for which Unison Solutions assumes legal responsibility. This information does not assume suitability for any particular use either alone or in combination with other goods or processes.



Specification Sheet

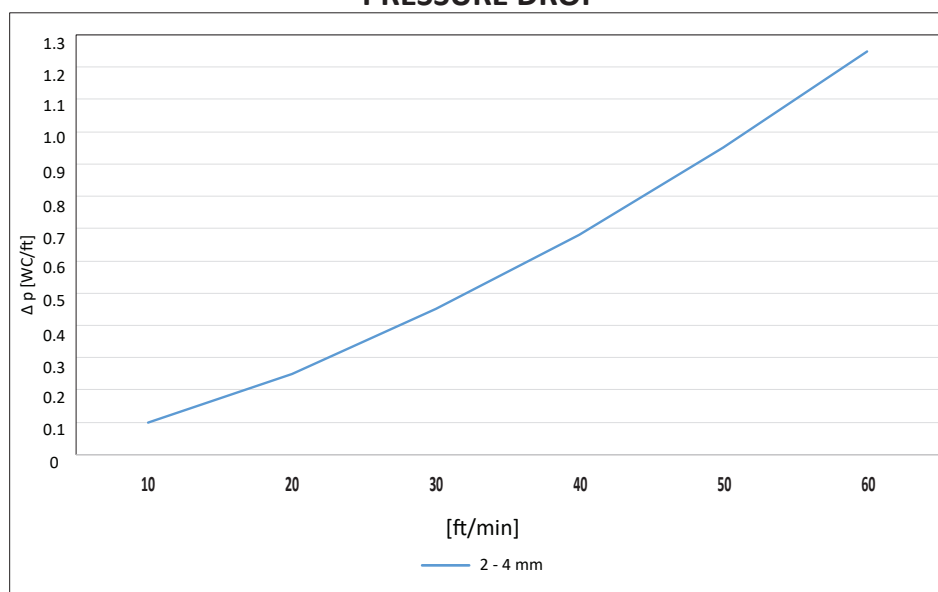
Hydrogen Sulfide Removal Media

UNI-H2SD



UNI-H2SD Unison's H₂S removal media is an iron hydroxide base combined with alkalizing compounds, binding substances, and porosity inducing substances. It is a highly effective adsorption compound used in fixed bed vessels for the removal of hydrogen sulfide compounds in biogas.

PRESSURE DROP



TYPICAL PHYSICAL PROPERTIES/SPECIFICATIONS

Pellet Size	2-4 mm
Appearance	Variable shaped, light brown
Sulfur Loading Capacity	20-40% weight
Minimum Gas Moisture	30% R.H.
Maximum Gas Moisture	80% R.H with no free moisture present
Maximum Gas Temperature	180 °F
Density, lb/ft ³	35 lb/ft ³
Standard packaging	2,000 lb Super sacks

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January 1, 2024

Re: Part numbers UNI-CC5V, UNI-CVOC, UNI-Z100, UNI-CL15E, UNI-CL2E, UNI-CL15V, UNI-CL2V, UNI-CL15X, UNI-CL2X, UNI-CL3X, UNI-CL3E and UNI-CL3V

To whom it may concern:

This letter is to confirm that siloxane removal media is a sole source product, sold and distributed exclusively by Unison Solutions, Inc. to meet the requirements of their biogas conditioning system. This product must be purchased directly by institutions from Unison Solutions, Inc. at the following address:

Unison Solutions, Inc.
5451 Chavenelle Rd.
Dubuque, IA 52002

If you desire additional information, please feel free to contact us at 563-585-0967 or visit our website at www.unisonsolutions.com. Thank you for your interest in our products.

Sincerely,

Kim Murdock-Timmerman, After Market Sales and Service Manager
Unison Solutions, Inc.