



Agenda Commentary

Item Title/ Subject: Request Authorization to repair Wastewater Treatment Plant Bar Screen.

Staff Source: Gene McCullough, Public Works Director
Robert Stewart, Project Manager, Inframark

Date: January 15, 2025

History/Background Information: Wikipedia describes the bar screen as:

A mechanical filter used to remove large objects, such as rags and plastics, from wastewater. It is part of the primary filtration flow and typically is the first, or preliminary, level of filtration, being installed at the influent to a wastewater treatment plant. They typically consist of a series of vertical steel bars spaced between 1 and 3 inches apart.

Bar screens come in many designs. Some employ automatic cleaning mechanisms using electric motors and chains, some must be cleaned manually by means of a heavy rake. Items removed from the influent are called screenings and are collected in dumpsters and disposed of in landfills. As a bar screen collects objects, the water level will rise, and so they must be cleared regularly to prevent overflow.

Clinton's, a model constructed by the Huber corporation, is requiring repairs to the motor and shafts that provide the clearing of the debris function. Huber's Oklahoma representative is Environmental Improvements, Inc., of Southlake, TX.

We are currently removing debris manually as we can, however, some debris, mostly rags, has been able to pass through and requires additional clearing and is causing more damage downstream.

Recommendation: Authorize the repair of the Huber Bar Screen at the Wastewater Treatment Plant.

Price/Cost: \$141,787.40

environmental **EI²** improvements, inc.

2805 Market Loop, Suite 180, Southlake, Tx 76092
t. 972-436-2536

QUOTE

QUOTE #: EI2Q102316

DATE: 10/16/24

BILL TO	SHIP TO	SALES CONTACT
City of Clinton WWTP 2200 East Commerce St. Clinton, OK 73601 Phone: Fax:	City of Clinton WWTP 2200 East Commerce St. Clinton, OK 73601 Mobile: Phone: Email:	Jimmy Carnes jcarnes@ei2water.com 972-829-0341

SHIP VIA	PAYMENT TERMS	ESTIMATED SHIP DATE	EXPIRATION DATE
Best Way - Pre Pay & Add	Net 30		Nov 7, 2024

QTY	PART #	MFR	DESCRIPTION	UNIT PRICE	EXT. PRICE
1	10464631	Huber	26-005-075 OIU, PV800, 4", NEMA 4X, Programmed **RakeMax**	\$2,217.09	\$2,217.09
30.72	10063962	Huber	chain DIN 8167 M 56 p160 D60 b1 24	\$927.43	\$28,490.65
1	51272758	Huber	rake beam M56 L 700 **lead time 5-6 weeks**	\$5,983.19	\$5,983.19
2	52104532	Huber	chain wheel M56 D60 d210 z8 p160 t21,6 6xbo13	\$5,508.26	\$11,016.52
2	10082906	Huber	chain wheel split M56 D60 d210 z8 p160 t21,6 6xbo13	\$4,969.97	\$9,939.94
1	10499813	Huber	Non-Standard Rake/EscaMax Lower Bearing	\$6,912.00	\$6,912.00
2	503997	Huber	journal pin 35/35 L130 D 24,5	\$349.17	\$698.34
12	702425	Huber	washer DIN 125 A10,5	\$0.60	\$7.20
4	703103	Huber	washer DIN 9021 A10,5	\$1.01	\$4.04
4	702669	Huber	hexagon bolt DIN 933 M10x 40	\$2.66	\$10.64
4	702992	Huber	hexagon nut DIN 985 M10	\$1.57	\$6.28
1	51268219	Huber	plate t=6 82x672	\$100.20	\$100.20
4	713169	HUber	flange bearing UCFC210 ZP d50 bo110 BC138 RAL 5015	\$141.09	\$564.36
40	706203	Huber	hexagon bolt DIN 933 M12x 45	\$2.61	\$104.40

QTY	PART #	MFR	DESCRIPTION	UNIT PRICE	EXT. PRICE
40	702426	Huber	washer DIN 125 A13,0	\$0.83	\$33.20
3	704568	Huber	proximity switch 7 M12 IP67 t<18 NF500A	\$158.71	\$476.13
1	51272648	Huber	drive shaft 50h7/45h7 L 1218 BF40 **lead time 4-5 weeks**	\$12,298.76	\$12,298.76
1	10000001	Huber	30503679 GearMotor BK40Z-74VHW-C/NEMA145TC **lead time 6-8 weeks** **WASH PRESS**	\$6,744.83	\$6,744.83
1	10118447	Huber	WAP1-4 Bearing/Seal Kit (not SL)	\$1,658.96	\$1,658.96
6	510109	Huber	wear bar 30/ 6x 370 1x60° 6xM10	\$381.89	\$2,291.34
36	706429	Huber	hexagon bolt DIN 933 M10x 12	\$1.56	\$56.16
36	710649	Huber	washer DIN 125 A10,5 1x 1,5x45°	\$2.19	\$78.84
36	710658	Huber	o-ring d 9,00x 2,00	\$1.17	\$42.12
3	704093	Huber	strip brush D 222 d 170 d0,60 W 8 h10 BL16 H26	\$107.47	\$322.41
3	510089	Huber	ring segment 156/ 196x 4 358° S150	\$72.13	\$216.39
24	702502	Huber	set screw DIN 914 M 8x 8	\$2.04	\$48.96
2	10065405	Huber	Rebuild Kit Valve Body 5282 DN 25	\$135.00	\$270.00
4.5	703533	Huber	edge protection profile s 8 t2,0-5,0	\$34.74	\$156.33
1	702845	Huber	feather key DIN 6885 A18x11x250	\$26.46	\$26.46
1.4	711469	Huber	edge protection profile s14 t1,0-4,0	\$36.39	\$50.95
1	10349028	Huber	30494245 BK60-24V WAP geared motor **lead time 4-5 weeks**	\$10,602.14	\$10,602.14
1	10000002	Huber	Freight & Intl. Transit	\$2,678.57	\$2,678.57
1	10000002	Huber	Huber Service Visit (32/14)	\$14,151.43	\$14,151.43
92	EI2 Labor	EI2	Service 2 Tech Labor Labor Charged Per Tech Hour	\$150.00	\$13,800.00
1			Hotel and Per-diem	\$3,000.00	\$3,000.00
1			Crane 2 days 1 day to pull 1 day to set back	\$6,728.57	\$6,728.57

QTY	PART #	MFR	DESCRIPTION	UNIT PRICE	EXT. PRICE
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ALL CONFINED SPACE WORK WILL NEED TO BE PERFORMED BY OTHERS NOT EI2 OR HUBER

SUBTOTAL	\$141,787.40
TAX	\$0.00
TOTAL	\$141,787.40

IF AN ORDER IS PLACED, PLEASE VERIFY THAT THE "BILL TO" AND "SHIP TO" ADDRESSES LISTED ABOVE ARE CORRECT. ENVIRONMENTAL IMPROVEMENTS, INC. MUST HAVE A NAME AND PHONE NUMBER OF A JOB SITE CONTACT THAT WILL ACCEPT THE SHIPMENT; IN ADDITION TO 1 OF 3 OPTIONS LISTED BELOW BEFORE THE ORDER CAN BE PROCESSED.

1. CREDIT CARD ORDER - CREDIT CARD PAYMENTS WILL INCUR A 3.5% PROCESSING FEE ADDED. CUSTOMER MUST SUPPLY CARD NUMBER, SECURITY CODE ON BACK OF CARD, EXPIRATION DATE, NAME ON CARD, BILLING ADDRESS, PHONE NUMBER AND EMAIL. CUSTOMER MUST SIGN AND DATE QUOTE THEN RETURN FOR PROCESSING.
2. VERBAL PURCHASE ORDER - CUSTOMER MUST SIGN AND DATE QUOTE THEN RETURN FOR PROCESSING.
3. PURCHASE ORDER NUMBER - CUSTOMER MUST SUPPLY SIGNED AND DATED HARD COPY OF PURCHASE ORDER OR WRITE PURCHASE

Acknowledged By

Date