



PROPOSAL #WG04320\_R5

VISALIA, CA - PRIMARY CLARIFIER UPGRADE

June 29, 2021

Attn: Brian Villacorta  
 The Coombs-Hopkins Company  
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 USA  
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Re: Visalia, CA - Primary Clarifier Upgrade  
 Polychem™ Chain and Flight Sludge Collection System

#### BID PROPOSAL

Brentwood Industries, Polychem Brand, proposes to supply all materials and services as an Approved manufacturer and in general accordance with the following plans and specifications and subject to the terms and conditions stated herein.

**TECHNICAL SPECIFICATION(S):** N/A

**SECTION(S):** N/A

**ADDENDA RECEIVED:** N/A

#### BRENTWOOD PROPOSES TO FURNISH POLYCHEM CHAIN AND FLIGHT EQUIPMENT AS FOLLOWS:

Two ( 2 ) Primary Longitudinal Collector Mechanisms, Approximately  
 166 FT Long x 14.5 FT Wide x 10 FT AWD, 4 Shaft System  
 and  
 One ( 1 ) Primary Cross Collector Mechanism, Approximately  
 24 FT Long x 4 FT Wide x 10 FT AWD, 3 Shaft System



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 500 Spring Ridge Dr., Reading PA 19610  
 brentwoodindustries.com

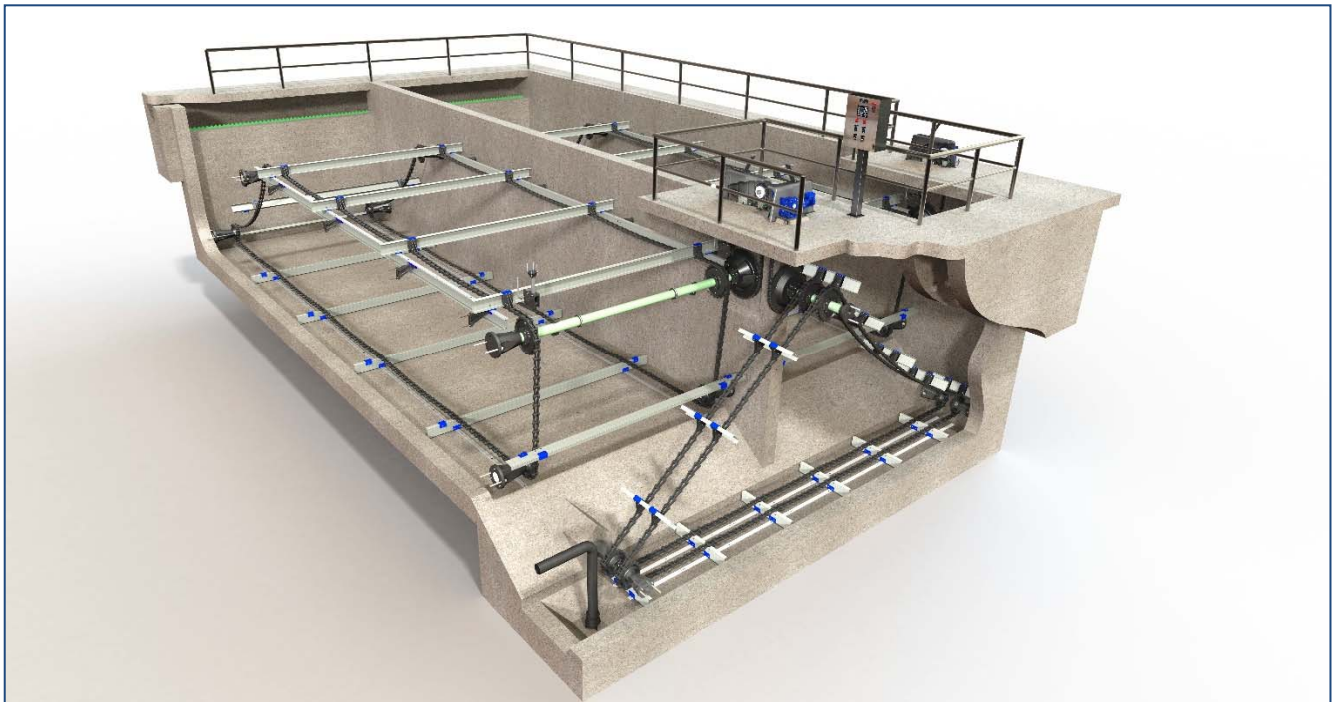
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**\*COMPONENTS INCLUDED:**

COMPONENT	DESCRIPTION / MATERIAL
Drive Chain	NH78, Reinforced Nylon Resin w/ 303 SS Pins
Collector Chain Pins and Retainer Clips	Glass Reinforced Nylon Pins w/ Acetal Retainer Clips
Collector Chain Links	NCS-720-S, Reinforced Thermoplastic Polyester Resin
Chain/Flight Attachment Links	NCS-720-S, Reinforced Thermoplastic Polyester Resin, F-22-8
Flights - Longitudinal Collector(s)	3x8 nominal C-Channel w/ Integral Lip, Fiberglass Reinforced Plastic, spaced at 10 Ft ( 3.05 m ) intervals
Flights - Cross Collector(s)	3x8 nominal C-Channel w/ Integral Lip, Fiberglass Reinforced Plastic, spaced at 5 Ft ( 1.52 m ) intervals
Wear Shoes	Nylon 6-6
Hardware	316 SS
Fillerblocks	Polypropylene
Headshaft Spindles	Cast Nylon-6
Headshaft(s)	Biaxially Wrapped Fiberglass Epoxy Tube(s) w/ Internal UHMW-PE Tubular Bearings
Driven Sprocket(s)	NH78, 40T, Cast Nylon-6, w/integral teeth
Collector Sprockets for Headshaft(s)	NCS-720-S, 23T, Cast Nylon-6
Set Collars	Split, Cast Nylon-6, w/ 316 SS Clamping Band
Headshaft Keys	Nylon 6-6
Collector Sprockets for Stub Shafts	NCS-720-S, 17T, Cast Nylon-6
Idler Stub Shafts	Cast Nylon-6 w/UHMW-PE Outer Journal Bearing
Retainer Plate for Stub Shaft	Polycarbonate
Wall Bracket Supports for Return Track	Nylon 6-6
Run Shoe to Splice Wall Bracket to Return Track	Nylon 6-6



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**\*COMPONENTS INCLUDED (Continued):**

COMPONENT	DESCRIPTION / MATERIAL
Return Track	3 x 3 x 3/8 Angle, Fiberglass Reinforced Plastic
Wear Strip	UHMW-PE - 3/8" thick x 2-5/8" wide
Chain Tightener(s) for Drive Chain	Nylon 6-6 7T Sprocket w/ Cast Nylon-6 Arm and FRP Adjustable Mounting Bracket
Limit Switch (Primary)	DPDT, Square D, Alum., NEMA 1,2,4,6,6P,12,13 / Class 1 Div 1 B/C/D, SS Arm
Drive Sprocket Shear pin Assembly	11T Nylon Sprocket Mounted to SS Shear Pin Hub
Shear pin Kit(s)	Aluminum
Drive Unit Output Shaft	304 SS
Drive Unit(s) w/Motor and Reducer	SEW Eurodrive Helical-Bevel Gearmotor, 1/2 HP, 3 Ph, 60 Hz, 230/460 V
Base Plate for Drive Unit(s)	304 SS
Chain Guard for Drive Chain	304 SS
Pillow Block Bearing and Support (if required)	Cast Iron Bearing with Stainless Steel Support
Defector Rail (if required by equipment layout)	FRP Angle Rail w/UHMW-PE Wear Strip and Nylon 6-6 Wall Support Brackets
Anchor System	316 SS
Adhesive for Anchors w/ Dispenser	Hilti
*	Above Component Descriptions/Materials may vary slightly after engineering and consultant review.



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ITEMS SPECIFICALLY NOT INCLUDED

- 1 Flight Monitoring System
- 2 Rotating Scum Troughs or Helical Skimmers
- 3 Control Panel(s)
- 4 Effluent Troughs, Weirs, Baffles
- 5 Spare Parts
- 6 PE Stamp / Seismic Calculatations



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**AMERICAN IRON AND STEEL ACT:**

Per Implementation of American Iron and Steel provisions of P.L. 113-76, Consolidated Appropriations Act, 2014, Brentwood's Polychem brand clarifier System and accessories is considered a mechanical system and is not considered construction material or structural steel subject to AIS requirements. The referenced document can be found at the following link:

<https://www.epa.gov/sites/production/files/2015-09/documents/ais-final-guidance-3-20-14.pdf>

See question and answer #22 in the above referenced pdf link which specifically states that clarifier and clarifier mechanisms are NOT considered a "construction material".



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**SUBMITTALS:**

Shop drawing and submittal preparation will be in accordance with specification or customer requirements.

**FIELD SERVICE:**

Field Service is not included in pricing or this proposal. Additional field services can be provided at the per diem rate of \$1782 U.S. per day plus travel expenses, and would be limited to inspection, startup, and operator training. The Field Service per diem rate does not include installation assistance. Field service requires a minimum 2 week notice and is based on technician availability. Less notice may be accommodated at an additional rate to account for short notice travel costs.

**FREIGHT:**

Freight allowed, best way, point of manufacture to job site. Requests for specific methods of shipment will be at requestors' expense. On-site transportation, unloading, and storage costs by others.

**TIME AND DELIVERY:**

1. Brentwood will furnish initial submittal drawings approximately eleven to thirteen (11-13) weeks after receipt of executed purchase order and necessary structural information.
2. Estimated Review: Brentwood estimates a four (4) week review period by consultant or customer.
3. We further propose to furnish the equipment approximately thirteen (13) weeks after receipt of final engineering approval and returned submittal drawings and release to manufacturing.

**SCHEDULE OF VALUES & PAYMENT TERMS:**

1. 15% with Shop drawing and submittal transmission; 35% with approved submittals and/or release to manufacture; 50% on material shipment. All payments 100% Net 30 days from invoice date. Payment terms subject to credit approval.
2. These terms are not contingent upon or in conjunction with any agreement purchaser has with other parties.
3. For Brentwood **Water & Wastewater Standard Terms and Conditions** visit: [www.brentwoodindustries.com/terms](http://www.brentwoodindustries.com/terms)

**TAXES:**

Pricing does not include any States' sales tax if applicable, unless otherwise stated.

**WARRANTY:**

Brentwood warrants material supplied on this project to be free from defects in workmanship or materials for a period of twelve (12) months from date of certification by an authorized Brentwood representative or eighteen (18) months from date of shipment, whichever shall occur first. Warranty excludes labor to install or remove parts. System is designed for continuous operation, and intermittent operation is not recommended due to potential for excess sludge build up. Damage resulting from intermittent operation is not covered under this warranty.



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#### VALIDITY:

This proposal is valid for a period not to exceed 90 days from latest date shown above unless extended by Brentwood in writing. Pricing on this project is based upon shipment schedule as shown above. Extensions to delivery timelines may require renegotiation of pricing.

#### ESCALATION:

The prices quoted are subject to adjustment to reflect changes in stainless steel and plastic prices should these changes in price exceed 3%. It is understood and agreed that it will be Brentwood's option whether to invoke escalation, should the price exceed this amount.

#### OPERATION AND MAINTENANCE MANUALS:

Unless otherwise specified, one (1) digital copy of our O&M manual and installation and layout drawings will be furnished. Digital copy can be downloaded from our FTP site or finished on a disc. Digital copy of O&M shall be in Adobe pdf format and be locked and uneditable.

#### PAINTING AND COATINGS:

Unless otherwise specified, all ferrous components will be provided with a surface preparation of SSPC-SP10 Near White Metal and a shop primer 1 coat of Sherwin Williams Dura-Plate 235 Multi-Purpose Epoxy @ 4 Mils D.F.T. It is the responsibility of the contractor to ensure finish paint is compatible with specified primer. Any adhesion issues between coats are not the responsibility of Brentwood. The top coat must be applied within 6 months of the prime coat, otherwise the assembly surface will need to be abraded or the primer will need to be removed and surface preparation redone prior to application of the top coat, by others. Drive units shall be furnished with manufacturer's standard paint.

#### GENERAL EXCLUSIONS: (unless below items are listed as included elsewhere in this proposal, they are excluded)

1. Successful contractor shall be responsible for field verification of all dimensions.
2. Foundations, supports for Polychem equipment (diaphragm plates) or special mounting plates.
3. Bid, performance, supply, or maintenance bonds.
4. Installation of equipment and anchor systems, concrete, sealing compounds, shim stock or grout.
5. Grouting behind idler stub shafts, head shaft spindles, & return track wall brackets is not included, but is required for these systems.
6. Tools or spare parts (unless listed elsewhere in this proposal).
7. All reducer oil, bearing grease, or other lubricants.
8. Field paint, touch-up, finish painting, or finish coatings.
9. Unloading, hauling, erection, and storage of equipment.
10. Grease line piping (unless listed elsewhere in this proposal) or grease guns.
11. Any electrical components or controls not shown in component included section of this proposal.
12. All control panels (unless listed elsewhere within this proposal), unistrut supports / mounting for control panels, electrical conduit, wires, or wiring, wire fittings, or boxes.
13. Wall Sleeves for scum troughs, weirs, baffles, overflow weirs, effluent troughs (unless listed elsewhere within this proposal).
14. Any component shown or described on a drawing and not included in the Components Included section of this Proposal, or any component or service not shown in this proposal.



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PRICING SUMMARY:

SUBMITTALS &amp; I&amp;L DRAWINGS: \$24,075.00

FLIGHTS &amp; CHAINS (DRIVE, COLLECTOR CHAIN, FLIGHTS, SHOES, FB, HDWR): \$38,141.35

SPROCKETS &amp; SHAFTS (23T, 40T, HEAD SHAFTS, STUB SHAFTS, 17T, ANCHORS, HDWR): \$48,842.85

MOTORS &amp; DRIVES (+ DRIVE SHAFT, BASEPLATE, JC, LIMIT SWITCH, CHAINGUARD, 7T): \$30,250.54

RETURN TRACK (RETURN TRACK, WALL BRACKETS, WEAR STRIP, ANCHORS & HDWR): \$19,190.26**LUMP SUM TOTAL BASE PRICE: \$160,500.00**ADDERS TO BASE OFFERING:

LUMP SUM ADDER FOR SPROCKET MOTION MONITORING , WITH MONITORING ONLY PANEL: \$18,650.00

LUMP SUM ADDER FOR 301SS GRITSHIELD CHAIN PROTECTION : \$9,400.00

LUMP SUM ADDER FOR H2S RESISTANT COLLECTOR CHAIN: \$3,110.00

LUMP SUM ADDER FOR FIELD SERVICE TECH FOR TANK MEASUREMENT (1 TRIP, 1 MAN-DAY): \$4,800.00

LUMP SUM ADDER FOR STARTUP (1 TRIP, 2 MAN-DAYS ON SITE: \$6,400.00

Proposal Submitted By:

*Christopher S. Fredericks*

Christopher S. Fredericks, Senior Product Manager  
 Brentwood Industries, Polychem Brand  
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## FIELD SERVICE RATES

EFFECTIVE  
2021 - 2024



### DOMESTIC DAILY RATES PER 8 HOUR DAY

SERVICE SPECIALIST	2021	2022	2023	2024
Straight Time	\$1,782.00	\$1,835.00	\$1,890.00	\$1,947.00
OT and Saturday	\$2,674.00	\$2,754.00	\$2,837.00	\$2,922.00
Sunday and Holiday	\$3,564.00	\$3,670.00	\$3,780.00	\$3,893.00

### INTERNATIONAL DAILY RATES PER 8 HOUR DAY

SERVICE SPECIALIST	2021	2022	2023	2024
Straight Time	\$2,138.00	\$2,202.00	\$2,268.00	\$2,336.00
OT and Saturday	\$3,207.00	\$3,303.00	\$3,402.00	\$3,504.00
Sunday and Holiday	\$4,278.00	\$4,406.00	\$4,538.00	\$4,674.00

### Definition of Labor Rates

Straight time applies to first eight (8) hours worked and traveled Monday through Friday. Any time worked over 8 hours, up to four (4) hours worked and traveled past eight (8) on Monday through Friday, first twelve (12) hours worked on Saturday will be charged at overtime rate. Standby time will be charged at the applicable rate. In case of long-term assignments, Field Service personnel will be rotated at Buyer's expense.

### Expenses

Meals, lodging, and incidental expenses will be billed at cost + 15%. Employee travel expenses will be charged at cost +15% for airfare, rental vehicles, taxis and freight. Mileage rate is \$0.95 per mile. Rental of lifting or other special equipment, outside inspection services, additional sub contracted services, etc. will be cost +15%.

### Notes:

- All prices in US dollars.
- Any "site-specific" training required will be billed as time worked.
- Customer to furnish water, oils, solvents and will dispose of same. Customer will also furnish power and air, parts, ladders, access to job-site, overhead crane upon request, and all necessary work permits.
- Rates are "Portal-to-Portal". Travel time, to and from the site, will be considered hours worked and billed at the applicable rate.
- Stand-by time will be considered hours worked and billed at the applicable rates according to the following:
  - Stand-by from home base – 8 hours per day.
  - Stand-by while mobilized and in the field – 8 hours per day
- A 4-hour minimum will apply to all service work.
- Rates quoted are subject to adjustment without notice to conform to Seller's published rates in effect at the time service is performed.
- This offer is subject to Buyer's acceptance of the Conditions above.
- This offer and any work performed as a result are exclusively governed by our Terms and Conditions attached. Any additional or conflicting terms contained in any document or purchase order issued authorizing work are expressly objected to in advance and shall not apply, except with the express written consent from Brentwood Industries.



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