

SCOPE OF WORK

ANNUAL CONTRACT FOR TRAVELING SCREEN SERVICE AND REPAIR

(All work is to be turn-key)

The purpose of this project is to provide comprehensive inspection, maintenance, repair, replacement, emergency service, and technical support for traveling screens and associated equipment utilized at various water and wastewater treatment facilities. These services are necessary to ensure the continuous and efficient operation of screening systems that remove debris and protect downstream equipment and treatment processes.

- **Barscreen:** A mechanical screening device used to remove large debris from wastewater or intake water sources.
- **Traveling Screen:** A mechanical filtration system that continuously removes debris from water intake points.
- **Preventative Maintenance (Inspections/Repair)**
- **Corrective Maintenance**
- **Qualifications**
- **Repair**
- **Purchase**

DESCRIPTIONS – TRAVELING SCREENS

Traveling Water Screens: (4) Model REX 4 post design, 6'- 0" basket width x 59'- 0" sprocket centers. Screens 1-4. (4) Model REX 4 post design, 10'- 0" basket width x 59'- 0" sprocket centers.

Screens 5-8

1.0 PREVENTIVE MAINTENANCE

A. TOP SIDE INSPECTION (EVERY 3 MONTHS)

1. Inspect chain tension and adjust if necessary
2. Inspect chain for wear and tighten bolts if necessary
3. Inspect spray nozzles and flush as necessary
4. Inspect head shaft tooth inserts on shaft sprockets
5. Inspect take-up bearing housings
6. Inspect and adjust drive chain
7. Inspect driven sprocket for wear
8. Inspect drive sprocket for wear
9. Inspect motor reducer
10. Inspect and grease drive chain
11. Inspect shear pin hub device
12. Inspect all baskets

B. INSPECTIONS/REPAIR (EVERY 6 MONTHS):

1. This inspection includes the 12 steps of the topside inspection plus:

- a. Inspect all "x" bracing
- b. Inspect chain guides for wear
- c. Inspect foot shaft
- d. Inspect set collars on foot shaft
- e. Inspect clearances between boot plate and basket rails
- f. Inspect foot sprockets for wear
- g. Inspect foot shaft brackets
- h. Inspect extension shoes or angles
- i. Inspect boot section frame
- j. Inspect boot plate
- k. Inspect track and filler bars or boot castings
- l. Inspect for debris buildup in boot section

Note: All Preventive maintenance must be in accordance with operations scheduling.

C. CUSTOMER SUPPLIES:

1. 110-volt and 440-volt power.
2. Any permits required.
3. Acetylene and oxygen for cutting.
4. Welding equipment.
5. Any electrical disconnection required along with reconnection.
6. All required lubricants.
7. Roll off dumpster for metal and trash.

2.0 REBUILD (Traveling Water Screens)

A. SCOPE:

1. Remove the screen from the well and load on a truck supplied by the contractor for shipment to the contractor's rebuild facility.
2. The screen will be completely disassembled, sandblasted and inspected. Contractor will advise the City of Atlanta of any additional work needed, if any, to complete the rebuild. At that point, the City of Atlanta is entitled to review the screen and approve any additional work that is found. If the City cannot be present, then contractor will provide narrated videotape and UPS the videotape to the City of Atlanta's office for review. No additional work will be done without approval.
3. New front and rear chain guides will be installed in the main frame.
4. New track and filler bars will be installed in the boot section.
5. New extension shoes will be installed in the boot section.
6. The entire frame assembly will be reassembled with new stainless steel hardware and coated to the manufacturer's specification with 670 HS immersion service rated epoxy paint.

7. The head-shaft assembly will be disassembled and the following new parts installed.
 - a. New 410 stainless steel tooth inserts and new stainless steel hardware.
 - b. New bronze bushings installed in the existing take-up housings
 - c. New thrust bearings in capstans.
 - d. New keys and new 18-8 stainless steel hardware.
8. The foot-shaft assembly will be disassembled and the following new parts installed.
 - a. New bronze foot-shaft bushings will be installed.
 - b. New set collars and keys.
 - c. New 18-8 stainless steel hardware.
9. The existing carrier chain will be cleaned and reinstalled.
10. The existing baskets will be reinstalled with new 18-8 stainless steel hardware.
11. The existing spray headers will be cleaned and reinstalled.
12. The existing motor and reducer will be visually inspected, test run, painted and reinstalled on the screen.
13. The screen will be shipped back to the City of Atlanta as assembled as possible for installation in the well. Contractor's service crew will reinstall traveling water screen back in the well.
14. The Contractor will ensure the correct operation of the unit after the installation.

B. Customer Supplies:

1. 110-volt and 440-volt power.
2. Any permits required.
3. Acetylene and oxygen for cutting.
4. Welding equipment.
5. Any electrical disconnection required along with reconnection.
6. All required lubricants.
7. Roll off dumpster for metal and trash.

3.0 CORRECTIVE MAINTENANCE (Traveling Water Screens)

A. SCOPE:

1. Contractor must be able to respond and supply all necessary labor, materials, tools and equipment needed, within 24 hours, should an emergency threatening the City's water supply arise.
2. Contractor must be able to respond and supply all necessary labor, materials, tools and equipment needed, within 14 days after receipt of a corrective maintenance request.
3. Contractor will submit all travel charges for performing corrective and emergency response maintenance.

4. Contractor will submit a per-day rate for each service crew needed to perform the corrective maintenance.
5. Contractor will state any additional charges that may be incurred should any delays arise their control.
6. Contractor will submit the percentage above invoice price charged for materials.

B. CUSTOMER SUPPLIES:

1. 110-volt and 440-volt power.
2. Any permits required.
3. Acetylene and oxygen for cutting.
4. Welding equipment.
5. Any electrical disconnection required along with reconnection.
6. All required lubricants.
7. Roll off dumpster for metal and trash.

4.0 TRAVERSING BRACKETT BOSKER WEED SCREEN CLEANER (RAKE):(1) MOD: FC-6806-97

A. Preventive Maintenance ANNUALLY (To be scheduled with Operations)

1. Lubricate the four drive chains.
2. Check the condition of the drive wheels.
3. Check the oil level in the hoist gearboxes.
4. Change the hydraulic oil.
5. Change the return oil filter.
6. Fully inspect both gripper-hoisting ropes.
7. Check the operation of all limit switches.
8. Check the operation of the hand controls.
9. Check emergency stop.
10. Change the oil in the gripper-hoist, hoist gearboxes, hopper actuator, trolley and traverse drives.

B. Customer Supplies:

1. 110-volt and 440-volt power.
2. Any permits required.
3. Acetylene and oxygen for cutting.
4. Welding equipment.
5. Any electrical disconnection required along with reconnection.
6. All required lubricants.
7. Roll off dumpster for metal and trash.

5.0 CORRECTIVE MAINTENANCE (Weed Screen Cleaner/Rake)

A. SCOPE:

1. Contractor must be able to respond and supply all necessary labor, materials, tools and equipment needed, within 24 hours, should an emergency threatening the City's water supply arise.
2. Contractor must be able to respond and supply all necessary labor, materials, tools and equipment needed, within 14 days after receipt of a corrective maintenance request.
3. Contractor will submit all travel charges for performing corrective and emergency response maintenance.
4. Contractor will submit a per-day rate for each service crew needed to perform the corrective maintenance.
5. Contractor will state any additional charges that may be incurred should any delays arise beyond their control.
6. Contractor will submit the percentage above invoice price charged for materials.

B. Customer Supplies:

1. 110-volt and 440-volt power.
2. Any permits required.
3. Acetylene and oxygen for cutting.
4. Welding equipment.
5. Any electrical disconnection required along with reconnection.
6. All required lubricants.
7. Roll off dumpster for metal and trash.

DESCRIPTIONS – BARSCREENS

Huber Technology Multi-Rake Barscreen, Screening Compactor Parts
Bidder must be Huber Technology manufacturer-certified representative or distributor and manufacturer authorized service provider for the Huber Technology equipment bid upon.

The bidder on Huber Technology parts and accessories or equivalent must be supplied as stated on pricing lines. Any substitutions must be clearly listed, approved for used with Huber Technology unit specified, 'drop in' ready for service with no modifications required to the City's system for installation. A complete specification sheet must be provided with any substitutions.

All Huber Technology parts supplied must be Huber Technology manufacturer-certified and meet factory warranty requirements for Huber Technology equipment.

Suez/Infilco Degremont Climber Screen Mechanically Cleaned Barscreen Parts

Bidder must be Suez/Infilco Degremont Climber Screen manufacturer-certified or distributor and manufacturer authorized service provider for the Suez/Infilco Degremont Climber Screen equipment upon bid.

The bid on Suez/Infilco Degremont Climber Screen parts and accessories or equivalent must be supplied as stated on pricing lines. Any substitutions must be clearly listed, as approved for used with Suez/Infilco Degremont Climber Screen unit specified, 'drop in' ready for service with no modifications required to the City's system for installation. A complete specification sheet must be provided with any substitutions.

All Suez/Infilco Degremont Climber Screen parts supplied must be Suez/Infilco Degremont Climber Screen manufacturer-certified and meet factory warranty requirements for Suez/Infilco Degremont Climber Screen equipment.

6.0 INFILCO DEGREMONT INC. (CLIMBER SCREEN®/ BAR SCREEN)

A. PREVENTATIVE MAINTENANCE ANNUALLY (To be scheduled with Operations)

1. Pin Racks: Grease (Use Texas Refinery Corp. No. 880 Crown & Chassis or Equal)
2. Drive shaft- Permalube cartridge: (Check and replace as required.)
3. Follower shaft- Permalube cartridge: (Check and replace as required.)
4. Cam Tracks: Grease (Use Texas Refinery Corp. No. 880 Crown & Chassis or Equal)
5. Gear Box- (Leak check, level check and oil change.)
6. Cam Follower rollers: (Exchange)
7. Fasteners- Check Torque: (Pin Rack Bolts, Latch Bolts, Pillow block to Rack Arm, Spring Nuts and Threaded Rod.)
8. Check Wear: (Rollers and Bushings, Sprockets, Cam Followers, Latch and Wiper Blade.)

6.1 HEADWORK INC.

A. PREVENTATIVE MAINTENANCE ANNUALLY

Headworks Barscreens Model No: MS1 MFG Date August 2020 Rated Cap: 30MGD Bar Spacing 0.75 Inch

1. Bar screen chain and sprockets inspection and adjustment
2. Check gear boxes 3 or more oil levels add or change if contaminated adjust gear boxes (tension)
3. Inspection of conveyer belt and all rollers replace or grease
4. Inspect rake arms for wear and advise for repair or replacement
5. Check all electrical connections for wear and tear
6. Check all scrapers and Wiper blades bar screen and conveyer
7. Check for software updates

8. Inspect relay panel and VFDs

7.0 CORRECTIVE MAINTENANCE (Climber Screen®/Bar Screen)

A. SCOPE:

1. Contractor must be able to respond and supply all necessary labor, materials, tools and equipment needed, within 24 hours, should an emergency threatening the City's water supply arise.
2. Contractor must be able to respond and supply all necessary labor, materials, tools and equipment needed, within 14 days after receipt of a corrective maintenance request.
3. Contractor will submit all travel charges for performing corrective and emergency response maintenance.
4. Contractor will submit a per-day rate for each service crew needed to perform the corrective maintenance.
5. Contractor will state any additional charges that may be incurred should any delays arise beyond their control.
6. Contractor will submit the percentage above invoice price charged for materials.

B. Customer Supplies:

1. 110-volt and 440-volt power.
2. Any permits required.
3. Acetylene and oxygen for cutting.
4. Welding equipment.
5. Any electrical disconnection required along with reconnection.
6. All required lubricants.
7. Roll off dumpster for metal and trash.

QUALIFICATIONS

The Contractor shall provide all labor, materials, technical capability, tools, equipment, and demonstrate the experience and supervision necessary for the procurement, delivery, installation, and repair of barscreens as required by the Office of Water Treatment and Reclamation. Contractor shall meet the following qualifications and services which shall include, but are not limited to:

- Supply and delivery of new barscreens compatible with existing traveling screens systems.
- Removal and disposal of damaged or non-functional barscreens.
- Installation and testing of new barscreens to ensure proper integration with the existing system.

- Routine and emergency repair services for existing barscreens to ensure uninterrupted operation.
- Demonstrate successful completion of at least three (3) similar projects within the past five (5) years involving traveling screen systems of comparable size and complexity.
- Maintain adequate staffing, tools, equipment, and resources necessary to perform services safely, efficiently, and without interruption to facility operations.
- Demonstrate knowledge of applicable OSHA safety standards, confined space entry requirements, lockout/tagout procedures, and all applicable environmental and regulatory requirements related to water and wastewater facilities.
- Have a minimum of five (5) years of experience providing maintenance, repair, inspection, and replacement services for traveling screens and related equipment within water and wastewater facilities.

6.1 Delivery

The Contractor shall ensure that all barscreens supplied meet the technical specifications provided by the Contracting Entity. Delivery must be completed within the agreed-upon timeframe and in compliance with applicable safety and environmental regulations.

6.2 Installation Requirements

The Contractor shall install barscreens in accordance with industry best practices and manufacturer recommendations. The installation shall include proper alignment, securing, and functional testing.

6.3 Repair and Maintenance

The Contractor shall provide both scheduled maintenance and on-call repair services for barscreens. This includes:

- Inspecting barscreens for structural integrity and operational efficiency.
- Conducting necessary repairs, including welding, component replacement, and cleaning.
- Emergency response services within a maximum of 24 hours from notification by the Contracting Entity.

Majority of work will be at the following water treatment plant and water reclamations centers.

FACILITY	ADDRESS	PHONE
Hemphill WTP (HW)	650 17 TH Street NW. 30318	(404) 546-3663 or (404) 509-9691
Chattahoochee WTP (CW)	2532 Bolton Rd, NW 30318	(404) 546-3545 or (404) 908-6425
Utoy Creek WRC (UT)	805 Selig Dr. SW 30336	(404) 215-5642 or (678) 538-7275

South River WRC (SR)	955 South River Industrial Blvd. 30315	(770) 560-6450 or (404) 546-0672
RM Clayton WRC (RM)	2440 Bolton Rd, NW Atlanta, GA 30318	(404) 546-0683 or (404) 565-8903
Intrenchment Creek WRC (IC)	1510 Key Rd. SE Atlanta, GA 30316	(404) 546-3758 or (678) 643-1385
Pumping Station/System Control (SC)	650 17 TH Street NW. 30318	(404) 546-0449 or (770) 294-1813

Travel Screens Service and Repair Bid Schedule

Item	Address/ Location	Manufacturer	Model#	Qty	Quarterly	Semi- Annual	Annual
1	Chatt Raw Water Pump Sta 2566 Coronet Way	Rex Traveling screens (4 post)	H91901-1	Three (3)			
		Rex Traveling screens (2 post)	H91901-1	Five (5)			
2	Chatt River Intake 2630 Ridgewood Road	Traversing Bracket Bosker Weed Screen Cleaner	Fe-6806-97	One (1)			
3	Hemphill Complex (Div 1) 650 17 th Street	Infilco Degremont Inc Climber Screen/Bar Screen	IIS Duty "S" Type	Two (2)			
4	Utoy Creek WRC 805 Selig Drive	Infilco Degremont Inc Climber Screen/Bar Screen	IIS Duty "S" Type	Three (3)			
5	South River WRC 4201 S River Ind Blvd	Infilco Degremont Inc Climber Screen/Bar Screen	IIS Duty "S" Type	Four (4)			
6	RM Clayton WRC 2440 Bolton Road	HUBER Multi-Rake Bar Screen Rake Max	ID# 13003423	Four (4)			
		HUBER Wash & Press with Launder WAP L Size 12	ID# 13003423	Three (3)			
7	Bolton Road PS 1725 Northwest Drive	Infilco Degremont Inc Climber Screen/Bar Screen	IIS Duty "S" Type	Two (2)			
8	Phillip Lee PS 5225 Phillip Drive	Infilco Degremont Inc Climber Screen/Bar Screen	IIS Duty "S" Type	Two (2)			
9	Custer Ave CSO 780 Custer Ave	Infilco Degremont Inc Climber Screen/Bar Screen	Model#111BS	Two (2)			
10	Tanyard Creek CSO 155 Loring Drive	Infilco Degremont Inc Climber Screen/Bar Screen	Model#111BS	Two (2)			
11	Clear Creek CSO 1320 Monroe Drive	Infilco Degremont Inc Climber Screen/Bar Screen	Model#111BS	Six (6)			

12	North Avenue CSO 120 North Ave NW	Infilco Degremont Inc Climber Screen/Bar Screen	Model#111BS	Two (2)			
13	Intrenchment Creek WRC 150 Key Rd SE	Infilco Degremont Inc Climber Screen/Bar Screen	IIS Duty "S" Type	Two (2)			
14	Greensferry Screening Fac 175 Stafford St	Infilco Degremont Inc Climber Screen/Bar Screen	Model#111BS	Two (2)			
15	McDaniel St Screening Fac 400 Manford Road	Caternary Bar Screen Caternary Bar Screen	Coarse ME-A1 Fine ME- A1	One (1) One (1)			

DRAFT