

**ATTACHMENT J4**

# Youngstown ARS Industrial Wastewater Pretreatment System

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# J4 Youngstown ARS Industrial Wastewater Pretreatment System

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## J4.1 Youngstown ARS Overview

Youngstown ARS is located at the Youngstown-Warren Regional Airport in Trumbull County, in northeastern Ohio. Its primary mission is to serve as home of the 910th Airlift Wing, an Air Force Reserve C-130H unit with two flying squadrons and a total of 16 aircraft. A portion of the Wing is devoted to its aerial spray mission. The Wing has nearly 1,300 drilling Air Force Reservists. The installation also hosts a Navy-Marine Corps Reserve Center that is home to nearly 400 Naval and Marine Corps Reservists.

The installation has 59 operational buildings, primarily aviation maintenance, training and administrative facilities. While there are dormitories for temporary lodging, there is no permanent housing on the installation. The Western Reserve Port Authority (a joint venture of Mahoning and Trumbull Counties and the cities of Warren and Youngstown) operates the airport itself, including its three runways, while the Air Force provides full-time fire protection for the entire airport. The Federal Aviation Administration's control tower is located on the installation. The installation also operates an additional assault runway on leased property parallel to the airport's main runway. This assault strip is not contiguous to the installation, has no industrial wastewater connection, and is not considered in this solicitation.

## J4.2 Industrial Wastewater Pretreatment System Description

### J4.2.1 Industrial Wastewater Pretreatment System Fixed Equipment Inventory

The Youngstown ARS industrial wastewater pretreatment system consists of all appurtenances physically connected to the pretreatment system from the point of demarcation defined by the Right of Way. The system may include, but is not limited to, pipelines, manholes, lift stations, valves, controls, oil/water separators, treatment plants, and meters. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

#### J4.2.1.1 Description

The industrial wastewater pretreatment collection and pretreatment sub-system consists of approximately 6,300 feet of collection main, two 20 KGAL treatment tanks, and a pretreatment plant in Building 309. The installation will add two more 20 KGAL tanks to the system, to come on line in 2001. This system is separate and distinct from the sanitary

wastewater collection system, as it collects only industrial wastewater from the aircraft maintenance hangars along the flightline and the installation vehicle motor pool. It discharges into the installation's sanitary wastewater collection system. The installation operates the plant under a pretreatment permit from the Trumbull County Sanitary Engineer.

The industrial wastewater pretreatment plant and western end of the collection system was installed in 1996. The eastern end of the collection system was installed in 1998. The pipes are double-walled PVC, with six-inch pipes inside ten-inch pipes. Building 309, containing the pretreatment plant, was also constructed in 1996. The industrial wastewater pretreatment system includes its discharge pipe from Building 309 to the first manhole of the sanitary wastewater collection system.

A Military Construction Program project, ZQEL 99-9003, to build an aircraft deicing pad is under construction with completion anticipated in 2001. The effluent from the pad will be discharged to the industrial wastewater pretreatment plant when aircraft are being deiced. Offerors should include treatment of the anticipated demand from the deicing pad effluent in their plans and costs for operation of the pretreatment facility.

#### J4.2.1.2 Inventory

**Table 1** provides a general listing of the major industrial wastewater pretreatment system fixed assets for the Youngstown ARS industrial wastewater pretreatment system included in the sale.

TABLE 1  
Fixed Inventory  
*Industrial Wastewater Pretreatment System Youngstown ARS*

| Item   | Size (in.) | Quantity | Unit | Approximate Year of Construction |
|--|------------|----------|------|----------------------------------|
| PVC Pipe, High Strength                        | 6 inch     | 6,578    | LF   | 1996-1998                        |
| Vitrified Clay Pipe                            | N/A        | N/A      | N/A  | N/A                              |
| ACP, Concrete                                  | N/A        | N/A      | N/A  | N/A                              |
| Standard Sanitary Sewer Manhole                | -----      | 25       | EA   | 1996-1998                        |
| Industrial Wastewater Lift/Pump Station        | 50 gpm     | 1        | EA   | 1997                             |
| RPIE Emergency Generators for Sewage Equipment | N/A        | N/A      | N/A  | N/A                              |
| Industrial Wastewater Pretreatment Facility    | 40,000 gal | 1        | EA   | 1996                             |
| Wastewater Holding Tank                        | 20,000 gal | 2        | EA   | 2001                             |
| Oil/Water Separator B 301                      | 600 gal    | 1        | EA   | 1998                             |
| Oil/Water Separator B 302                      | 600 gal    | 1        | EA   | 1998                             |
| Oil/Water Separator B 305                      | 1500 gal   | 2        | EA   | 1993                             |
| Oil/Water Separator B 515                      | 500 gal    | 1        | EA   | 1996                             |

| Item                      | Size (in.) | Quantity | Unit | Approximate Year of Construction |
|---------------------------|------------|----------|------|----------------------------------|
| Oil/Water Separator B 517 | 500 gal    | 1        | EA   | 1996                             |
| Oil/Water Separator B 518 | 1000 gal   | 1        | EA   | 1996                             |

Notes:

- ACP = Asbestos Cement Pipe
- GAL = Gallons
- GPM = Gallons Per Minute
- PVC = Polyvinyl Chloride
- LF = Linear Feet
- EA = Each

### J4.2.2 Industrial Wastewater Pretreatment System Non-Fixed Equipment and Specialized Tools

**Table 2** lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2  
Spare Parts  
*Industrial Wastewater Pretreatment System Youngstown ARS*

| Qty  | Item | Make/Model | Description | Remarks |
|------|------|------------|-------------|---------|
| None |      |            |             |         |

TABLE 3  
Specialized Vehicles and Tools  
*Industrial Wastewater Pretreatment System Youngstown ARS*

| Description | Quantity | Location | Maker |
|-------------|----------|----------|-------|
| None        |          |          |       |

### J4.2.3 Industrial Wastewater Pretreatment System Manuals, Drawings, and Records

**Table 4** lists the manuals, drawings, and records that will be transferred with the system.

TABLE 4  
Manuals, Drawings, and Records  
*Industrial Wastewater Pretreatment System Youngstown ARS*

| Qty   | Item               | Description                               | Remarks |
|-------|--------------------|---|---------|
| 1 Set | Drawings & Manuals | Industrial Wastewater Pretreatment System | AutoCad |

### J4.3 Specific Service Requirements

The service requirements for the Youngstown ARS industrial wastewater pretreatment system are as defined in the Section C, *Description/Specifications/Work Statement*. The following requirements are specific to the Youngstown ARS industrial wastewater pretreatment system and are in addition to those found in Section C. If there is a conflict between requirements described below and Section C, the requirements listed below take precedence over those found in Section C.

There are no additional requirements beyond those listed in Section C.

### J4.4 Current Service Arrangement

Industrial wastewater is collected in a separate sub-system and is subjected to a pretreatment process to remove heavy metals and other contaminants. The pretreatment effluent is then discharged into the installation's sanitary wastewater collection treatment system for eventual treatment by Trumbull County and discharged into the Mosquito Creek Sewer District. As required by this contract, the Contractor shall demonstrate the ability to meet and shall establish the requirements to provide industrial wastewater pretreatment service to Youngstown ARS.

### J4.5 Secondary Metering

There are no secondary metering requirements for industrial wastewater users. The new owner shall meter each batch as it is processed through the plant. However, a secondary meter for electric is required at the following locations:

| Location | Description  |
|----------|--|
| Bldg 309 | New owner shall be responsible for having an exterior electric meter installed between the building and the pad mounted transformer located across the street. |

### J4.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

1. Invoice (IAW G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25<sup>th</sup> of each month for the previous month. Invoices shall be submitted to:

910<sup>th</sup> AW/LG/LGC  
Attn: Phyllis Delgros

Youngstown Air Reserve Station, Unit 25  
 3976 King Graves Rd  
 Vienna, Ohio 44473-5925

2. Outage Report. The Contractor's monthly outage report (blockage and overflow information) will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25<sup>th</sup> of each month for the previous month. Outage reports shall be submitted to:

910<sup>th</sup> SPTG/CE  
 Attn: Base Civil Engineer  
 3976 King Graves Road, Unit 37  
 Vienna, Ohio 44473-5937  
 (330) 609-1060

3. Infiltration and Inflow Report. If required by Paragraph C.3, the Contractor shall submit an Infiltration and Inflow report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25<sup>th</sup> of each month for the previous month. System efficiency reports shall be submitted to:

910<sup>th</sup> SPTG/CE  
 Attn: Base Civil Engineer  
 3976 King Graves Road, Unit 37  
 Vienna, Ohio 44473-5937  
 (330) 609-1060

## J4.7 Infiltration and Inflow (I&I) Projects

IAW Paragraph C.3, Utility Service Requirement, no projects have been implemented by the Government for managing and monitoring I&I.

## J4.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the Youngstown ARS boundaries.

## J4.9 Off-Installation Sites

No off-installation sites are included in the sale of the Youngstown ARS industrial wastewater pretreatment system.

## J4.10 Specific Transition Requirements

IAW Paragraph C.13, Transition Plan, **Table 5** provides a listing of service connections and disconnections required upon transfer.

TABLE 5

Service Connections and Disconnections  
*Industrial Wastewater Pretreatment System Youngstown ARS*

| Location | Description |
|----------|-------------|
| None     |             |

## J4.11 Government Recognized System Deficiencies

**Table 6** provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Youngstown ARS industrial wastewater pretreatment system. If the utility system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewal and Replacement Plan process and will be recovered through [Schedule L-2](#). Renewal and Replacement projects will be recovered through [Sub-CLIN AB](#).

**TABLE 6**  
 System Deficiencies  
*Industrial Wastewater Pretreatment System Youngstown ARS*

| Project Location     | Project Description  |
|----------------------|--|
| Outside Building 309 | Two additional 20,000 gal holding tanks to be installed by the government in 2001. |