

ATTACHMENT J3

General Mitchell Field ARS (440th AW) Wastewater Collection System

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J3 General Mitchell Field ARS (440th AW) Wastewater Collection System

J3.1 General Mitchell Field ARS (440th AW) Overview

The Air Force Reserve Station (ARS) at General Mitchell Field is home to the 440th Air Force Reserve Airlift Wing (AW). The installation is located about 7 miles south of the center of Milwaukee, and 3 miles west of Lake Michigan. The 440th AW's mission is to maintain operational readiness for the airlift of tactical units, airborne units, personnel, supplies and equipment into prepared or unprepared areas by landing or airdrop. The Wing's command is the Air Force Reserve Command and the aircraft currently assigned are C-130H Hercules transports. The resulting economic impact is over \$79.9 million on the surrounding Milwaukee area.

The 440th AW encompasses 102 acres of federally owned land in the southwestern portion of the General Mitchell International Airport. Construction of the base began in the 1950's, and has been expanded as the years passed.

The 440th AW has a total of 75 buildings, 47 industrial and 28 administrative, on the base totaling 418,000 square feet. There are no living quarters on the base. The 440th AW employs 1500 personnel, including 1,100 Reservists and 260 full time civilians. Future growth of the base is expected to be limited in the future with square footage additions generally offset by demolition of existing buildings.

J3.2.1 Wastewater Collection System Fixed Equipment Inventory

The General Mitchell Field ARS (440th AW) wastewater collection system consists of all appurtenances physically connected to the collection 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, and controls. 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.

Specifically excluded from the wastewater collection system privatization are:

- Oil Water Separators
- Grease Traps

J3.2.1.1 Description

Wastewater generated by the 440th AW discharges to the Milwaukee Metropolitan Sewerage District's (MMSD) sanitary sewer collection system at two MMSD manholes, one on Howell Avenue and one on College Avenue. The manhole on College Avenue serves the Air Force Recruiting Building (Building 207) while the manhole on Howell Avenue serves the remaining base. Sewage is not metered prior to entering the MMSD sanitary sewer system; instead the installation is billed for sewage treatment fees based upon 100 percent of its potable water consumption.

The 440th AW wastewater collection system consists of PVC pipe, cast iron pipe, and vitrified clay pipe. Pipes within the wastewater collection system are expected to range from 5 to 10 feet below the ground surface. However, there may be portions of the system with more or less soil cover. Manholes on base are precast concrete.

The collection system is made up of laterals, oil/water separators, and collector mains but the oil/water separators are not included in this contract. There are three lift stations, one is near Building 302, the second is near Building 209, and the third is at the Fire Training Pit area. The lift stations discharge to manholes that then drain by gravity to the discharge point on Howell Avenue. The Fire Training area lift station pumps into an 8" forced main that also collects wastewater from the 128th ARW Guard West area lift station. The 8" forced main joins the other 440th wastewater collection system lines on First Avenue where the 10-inch collection main exits the property at the northwest corner of the installation. The line travels a short distance west of the property line and discharges into a manhole, located within the paved portion of Howell Avenue.

J3.2.1.2 Inventory

Table 1 provides a general listing of the major wastewater collection system fixed assets for the General Mitchell Field ARS (440th AW) wastewater collection system included in the sale.

TABLE 1
Fixed Inventory
Wastewater Collection Utility System General Mitchell Field ARS (440th AW)

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
<u>Piping</u>				
PVC Pipe	6.0	250	LF	2001
PVC Pipe	4.0	694	LF	1995
PVC Pipe	6.0	5,735	LF	1995
PVC Pipe	8.0	73	LF	1995
Cast Iron Pipe	10.0	906	LF	1960
Vitrified Clay Pipe	6.0	787	LF	1960

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
Vitrified Clay Pipe	8.0	610	LF	1960
Vitrified Clay Pipe	10.0	664	LF	1960
<u>Pre-cast Concrete Manholes</u>				
Precast Manhole	48	13	EA	1960
Precast Manhole	48	13	EA	1995
Precast Manhole	48	1	EA	2001
<u>Lift Stations</u>				
Wastewater Lift/Pump Station Structure		1	EA	1995
Pumping and controls	2 - 2 HP pumps	1	EA	1995
Wastewater Lift/Pump Station Structure		1	EA	1990
Pumping and controls	2 - 1 ½ HP pumps	1	EA	1990
Wastewater Lift/Pump Station Structure		1	EA	1990
Pumping and controls	2 - 2 HP pumps	1	EA	1990

Notes:

PVC = Polyvinyl Chloride

LF = Linear Feet

EA = Each

HP= Horsepower

J3.2.2 Wastewater Collection 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

Wastewater Collection System General Mitchell Field ARS (440th AW)

Qty	Item	Make/Model	Description	Remarks
None	No spare parts exist to transfer with this system.			

TABLE 3

Specialized Vehicles and Tools

Wastewater Collection System General Mitchell Field ARS (440th AW)

Description	Quantity	Location	Maker
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Description	Quantity	Location	Maker
No Vehicles or Tools exist to be transferred with this system.			

J3.2.3 Wastewater Collection 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
Wastewater Collection System General Mitchell Field ARS (440th AW)

Qty	Item	Description	Remarks
1	Maps	Wastewater Collection System Lines	AUTOCADD, maps of installation and utility system will be provided at the time of the pre-proposal meeting
1 set	Various Documents	Various electrical distribution system manuals, drawings, and records files.	The items included in the transfer of ownership are located in the Technical Library.

J3.3 Specific Service Requirements

The service requirements for the General Mitchell Field ARS (440th AW) wastewater collection system are as defined in the Section C, *Description/Specifications/Work Statement*. The following requirements are specific to the General Mitchell Field ARS (440th AW) wastewater collection 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.

- GMIAP-ARS applied for general coverage under the Wisconsin Department of Natural Resources (WDNR) General Permit for Bypass and Overflows from Sewage Collection Systems, WPDES Permit No. WI-0047341-3. This was by direction from Mr Theodore Boshe, WDNR Regional Wastewater Coordinator. The service provider will need to update the owner/operator of the GMIAP-ARS system, maintain coverage under the general permit, and ensure requirements and best management practices of the general permit are followed and executed. To date, no response from the WDNR has been received as to whether GMIAP-ARS will fall under the general permit for coverage and compliance. However, based on the historical record of no sewer overflow and bypass events, coverage under the general permit is expected.
- Provide marks on the ground to show locations of wastewater collection lines on an as needed basis as other entities request. Mark utilities in the field to show location and depth.

J3.4 Current Service Arrangement

The Milwaukee Metropolitan Sewerage District (MMSD) treats the 440th AW's wastewater. The 440th AW sewer discharge is billed based on 100 percent of the Base's water usage. The FY 2002 annual usage was 5425 kgal. The average monthly discharge was 452 kgal with a maximum occurring in August 2002 with 1300 kgal and the minimum occurring in November 2001 with 196 kgal.

J3.5 Secondary Metering

J3.5.1 Existing Secondary Meters

Table 5 provides a listing of the existing (at the time of contract award) secondary meters that will be transferred to the Contractor. The Contractor shall provide meter readings for all secondary meters IAW Paragraph C.3 and J3.6 below.

TABLE 5
Existing Secondary Meters
Water Distribution System General Mitchell Field ARS (440th AW)

Meter Location	Meter Description (Type)
None.	

J3.5.2 Required New Secondary Meters

The Contractor shall install and calibrate new secondary meters as listed in **Table 6**. New secondary meters shall be installed IAW Paragraph C.13, Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Paragraphs C.3 and J6.6 below.

TABLE 6
New Secondary Meters

Water Distribution System Wisconsin ANG 128th ARW

Meter Location	Meter Description
None	

J3.6 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 25th of each month for the previous month. Invoices shall be submitted to:

Name: Waheed Farooki, 440TH MSG/CEC

Address: 300 E College Ave, Milwaukee, WI 53207-6299

Phone number: (414) 482-5606

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 25th of each month for the previous month. Outage reports shall be submitted to:

Name: Waheed Farooki, 440TH MSG/CEC

Address: Gen Mitchell ARS, 300 E College Ave, Milwaukee, WI 53207-6299

Phone number: (414) 482-5606

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 25th of each month for the previous month. System efficiency reports shall be submitted to:

Name: Waheed Farooki, 440TH MSG/CEC

Address: Gen Mitchell ARS, 300 E College Ave, Milwaukee, WI 53207-6299

Phone number: (414) 482-5606

J3.7 Infiltration and Inflow (I&I) Projects

IAW Paragraph C.3, Utility Service Requirement, the following projects have been implemented by the Government for managing and monitoring I&I.

- No infiltration and inflow projects have been performed.

J3.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the General Mitchell Field ARS (440th AW) boundaries.

J3.9 Off-Installation Sites

No off-installation sites are included in the sale of the General Mitchell Field ARS (440th AW) wastewater collection system.

J3.10 Specific Transition Requirements

IAW Paragraph C.13, Transition Plan, **Table 7** provides a listing of service connections and disconnections required upon transfer.

TABLE 7
Service Connections and Disconnections
Wastewater Collection System General Mitchell Field ARS (440th AW)

Location	Description
None	No new connections or disconnections are anticipated upon the transfer of ownership

J3.11 Government Recognized System Deficiencies

Table 8 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the General Mitchell Field ARS (440th AW) wastewater collection 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-3](#). Renewal and Replacement projects will be recovered through [Sub-CLIN AC](#).

TABLE 8
System Deficiencies
Wastewater Collection System General Mitchell Field ARS (440th AW)

Project Location	Project Description
None Identified	

