

# Truax Field Wastewater Collection System

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# J8 Truax Field Wastewater Collection System

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## J8.1 Truax Field Overview

Truax Field is located at the Dane County Regional Airport, just on the northeast side of Madison, Wisconsin. Truax Field was established in 1942 and is currently home to the 115<sup>th</sup> Fighter Wing, which flies the F-16 aircraft. Truax Field is approximately 130 acres in size and has 44,57 buildings with a square foot total of approximately 400,000,736,295. The weekday workforce is approximately 350 persons and increases to about 1000 persons on a Unit Training Assembly weekend.

The 115<sup>th</sup> Fighter Wing has two distinct missions:

### **Federal**

Staff and train flying and support units to augment Air Combat Command general purpose fighter forces to effectively and rapidly project F-16 combat power anywhere in the world to perform wartime or peacetime missions as well as operations other than war. 115 FW will maintain mobilization readiness and conduct training in support of Total Force capabilities as directed by our gaining commands.

### **State**

Provide trained and equipped units to protect life and property and to preserve peace, order, and public safety as directed by the Governor of Wisconsin

## J8.2 Wastewater Collection System Description

### J8.2.1 Wastewater Collection System Fixed Equipment Inventory

The Truax Field 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, controls, 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.

Specifically excluded from the Wastewater Collection System privatization are:

1. Five oil water separators located near buildings 056, 400, 409, 414, and 1216
2. Four Settling Pits located at buildings 406(1), 414(2), 400(1) and associated settling control valves
3. Outdoor wash rack at facility #409

### J8.2.1.1 Description

Truax's wastewater collection system was originally installed in 1942. It contains two lift stations and one 3-inch forced main at lift station #2. Age of the system components ranges from 1942 to 1999 with (approximately) 39% of system being installed within the last 7 years, 35% being over 40 years old and 26% about 15 years old. All the pipes were installed with greater than minimum slope and the overall condition of the collection system is considered to be average. There is no history of sewer line cleaning, smoke testing, and no overflows nor pipe failures were recorded within the last five years. There are no known line sags.

The system consists of approximately 7700 linear feet of active piping ranging between 3 to 8 inches in diameter with an average buried depth of eight feet. The types of pipe include PVC, vitrified clay, concrete, and cast iron. In 1994 1954, approximately 180 feet of 3-inch Schedule 40 PVC forced main was installed in an existing 8-inch VCP and, in 1993, and the 8-inch VCP was filled with pea gravel (around the 3-inch schedule 40 pipe). There is approximately 2500 feet of abandoned vitrified clay pipe in the system. This abandoned pipe is not included as part of this privatization effort. There are 30 manholes adequately located with depths ranging from 4 to 14 feet. The majority of manholes are pre-cast concrete and the remaining are brick.

The two lift stations are in-ground packages installed in 1982 and 1994 with automatic controls incorporating audible/visual local alarms. Conditions of the two lift stations are good and excellent respectively. There are three pumps; two are 3-hp and the other is 2-hp with rated flows of 175 gpm and 50 gpm respectively. In the last 5 years, one lift station malfunction and one over flow condition were recorded.

Points of demarcation are at the six connection points where piping exits the base and connects to the city owned pipe. The locations of these six points are as follows: point number one is 100 feet Southeast of the Southeast corner of Bldg #510 (Base Supply); point number two is 100 feet East of the Northeast corner of Bldg #500 (Operations and Training); point # 3 is 50 feet Northeast of the Northeast corner of Bldg #307 (Readiness Training); point #4 is 150 feet East Northeast of the Northeast corner of Bldg #305 (Base Exchange); point #5 is 150 feet East Northeast of the Northeast corner of Bldg. #1215 (Petroleum Operations); and point #6 is 150 feet East of facility #1218 (Petroleum storage tank #2). The wastewater collection system includes lines up-to the clean-outs at serviced facilities or up to the facility when no clean-out is available, or to the point of connection on oil water separators.

There are not any wastewater collection system Operations and Maintenance projects nor Military Construction Projects in planning, awaiting bids or under construction at Truax Field. There are no unique points of demarcation in this system. There is no wastewater treatment or laboratory facility on Truax Field.

### J8.2.1.2 Inventory

Table 1 provides a general listing of the major Wastewater Collection System fixed assets for the Truax Field Wastewater Collection System included in the sale.

**TABLE 1**  
Fixed Inventory  
Wastewater Utility System Truax Field

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
PVC Pipe	3	500	LF	1993

<b>Item</b>	<b>Size (in.)</b>	<b>Quantity</b>	<b>Unit</b>	<b>Approximate Year of Construction</b>
	4	480	LF	1995
	4	250	LF	1992
	4	220	LF	1997
	6	230	LF	1992
	6	390	LF	1998
	6	680	LF	1999
	8	290	LF	1995
<b>Cast Iron Pipe</b>	4	70	LF	1986
	4	65	LF	1987
	8	500	LF	1986
<b>Vitrified Clay Pipe</b>	4	85	LF	1983
	6	1585	LF	1952
	6	110	LF	1953
	8	575	LF	1948
	8	730	LF	1954
	8	60	LF	1967
	8	155	LF	1942
<b>ACP, Concrete</b>	8	660	LF	1982
	8	80	LF	1980
<b>Standard Sanitary Sewer Manhole</b>	4 FT BRICK	3	EA	1952
	6 FT BRICK	3	EA	1948
	8 FT BRICK	2	EA	1954
	10 FT BRICK	1	EA	1954
	14 FT BRICK	1	EA	1954
	4 FT PRE-CAST	3	EA	1997
	4 FT PRE-CAST	3	EA	1992
	6 FT PRE-CAST	5	EA	1982
	8 FT PRE-CAST	4	EA	1984
	10 FT PRE-CAST	3	EA	1983
	11 FT PRE-CAST	2	EA	1986
<b>Wastewater Lift/Pump Station</b>	3 IN FORCED MAIN	1	EA	1982
	3 IN MAIN	1	EA	1994
<b>Lift Station Pump</b>	3hp	2	EA	1982
	2hp	1	EA	1994

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
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Notes:

PVC = Polyvinyl Chloride

LF = Linear Feet

EA = Each

## J8.2.2 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 Truax Field

Qty	Item	Make/Model	Description	Remarks
	None			

**TABLE 3**

Specialized Vehicles and Tools

Wastewater Collection System Truax Field

Description	Quantity	Location	Maker
None			

## J8.2.3 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 Truax Field

Qty	Item	Description	Remarks
1	1	AutoCAD Utility Map File Ver 14	Provide one file copy on Diskette
1	2	Lift station Manual for Lift Station #1	Paper copy
1	3	Lift station Manual for Lift Station #2	Paper copy
1	4	Historical drawings of base sanitary sewer system	Paper copy

## **J8.3 Specific Service Requirements**

The service requirements for the Truax Field Wastewater Collection System are as defined in the Section C, *Description/Specifications/Work Statement*.

## **J8.4 Current Service Arrangement**

- The City of Madison, WI, provides current collection.
- The Average Output is 2,135 Hundreds of Cubic Feet (CCF) per year
- Annual Output Fluctuation is approximately 100 CCF's
- There are no existing commitments or special service agreements with the City of Madison.

## **J8.5 Secondary Metering**

None.

## **J8.6 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 the person identified at time of contract award.
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 the person identified at time of contract award.
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 the person identified at time of contract award.

## **J8.7 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.

NONE

## **J8.8 Service Area**

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

## J8.9 Off-Installation Sites

No off-installation sites are included in the sale of the Truax Field Wastewater Collection System.

## J8.10 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  
Wastewater Collection System Truax Field

Location	Description
<i>NONE</i>	

## J8.11 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 Truax Field 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 6**  
System Deficiencies  
*Wastewater Collection System Truax Field*

Project Location	Project Description
None	