ATTACHMENT J3

Tobyhanna Army Depot Wastewater Collection System

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J3.1 Tobyhanna Army Depot Overview

Tobyhanna Army Depot (Depot or TYAD) is located in northeastern Pennsylvania, near the town of Stroudsburg and covers 1,300 acres, 400 of which are allocated to the industrial complex. TYAD is the largest full-service communications-electronics maintenance complex in the Department of Defense. The Depot's mission includes the design, manufacture, repair and overhaul of hundreds of communications and electronics systems. System categories supported by TYAD include communications, command and control, surveillance and target acquisition, airborne electronics, intelligence and electronic warfare electronics support equipment and power systems.

J3.2 Wastewater System Description

J3.2.1 Wastewater System Fixed Equipment Inventory

The Tobyhanna Army Depot wastewater system consists of all appurtenances physically connected to the collection system as defined by the points of demarcation beginning at the connection to the treatment provider and ending at each end use facility. The system may include, but is not limited to, treatment plants, pipelines, manholes, lift stations, valves, controls, and meters. The actual inventory of items sold will be conveyed to the Contractor using the Bill of Sale shown in Attachment J42 to the RFP 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 collection and treatment systems. The description and inventory were developed based on best available data.

The Offeror shall base its proposal on site inspections, information in the technical library, and other pertinent information, as well as the following description and inventory. If after award the Offeror identifies additional inventory not listed in Paragraph J3.2.1.4, the Offeror may submit to the Contracting Officer a request for an equitable adjustment. If the Offeror determines that the inventory listed in Paragraph J3.2.1.4 is overstated, the Offeror shall report the extent of the overstatement to the Contracting Officer, who will determine an equitable adjustment.

J3.2.1.1 System Description

The wastewater system at Tobyhanna was initially constructed in the 1950s and consists of a network of collection lines, manholes, lift stations and a treatment plant. Average influent is 240,000 gallons per day.

Wastewater Treatment Plant

The wastewater treatment plant (WWTP) is designed to treat 802,000 gallons per day. Average influent is 240,000 gallons per day, approximately 30 percent of the design capacity. Effluent is discharged into Hummler Run, a stream that starts on the Depot. Approximately 8 percent of the

influent is industrial-related. Pretreatment plants (not included in the privatization action) located in the facilities that generate these industrial waste streams remove heavy metals and other constituents that could adversely affect the treatment processes of the WWTP. As a result the WWTP exceeds the parameters of its discharge permit if these plants were not present.

The WWTP has undergone two major upgrades since its initial installation. Additional equipment installed to improve screening, secondary treatment, and solids handling were installed in 1981. Ultraviolet disinfecting and denitrification systems were installed in 1997 to enable the WWTP to meet NPDES water requirements as set by the state's environmental agency. Process control units at the WWTP are monitored and controlled by a SCADA system.

Currently the sludge generated at the WWTP is landfilled. The existing sludge press is operated three days per week for eight hours. At this level of operation a mobile dredging contractor is required for one to two weeks to handle solids in the primary settling tanks.

Lift Stations

The following table details the eight lift stations at TYAD:

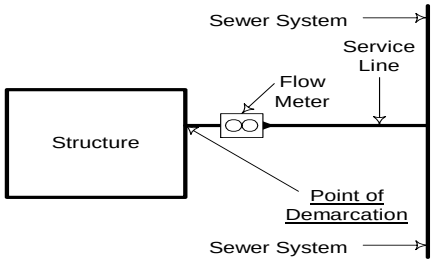
TABLE 1
Lift Stations
Wastewater Collection System – Tobyhanna Army Depot, Pennsylvania

Lift Station	Description	Wetwell Dimensions	Measured Pump 1 Output	Measured Pump 2 Output	Measured Pump 1 & 2 Output	Year Installed
1	Submersible	10' x 9' x 20' Deep	Not Op.	281 gpm		1955
2	Submersible	4' Dia. x 12.5' Deep	169 gpm	132 gpm	207 gpm	1976
3	Drywell/Wetwell	5' x 10' x 12' Deep	254 gpm	216 gpm	262 gpm	1955
4	Submersible	5' Dia. x 13' Deep	100 gpm	168 gpm	250 gpm	1955
5	Submersible	10' x 9' x 17' Deep	233 gpm	233 gpm	233 gpm	1978
6	Submersible	5' Dia. x 15' Deep	203 gpm	Not Op.		1997
7	Submersible	6' Dia. x 18' Deep	45 gpm	48 gpm	85 gpm	1997
8	Submersible	5' Dia. x 18' Deep	Not Op.	132 gpm		1997

J3.2.1.2 Points of Demarcation

The Tobyhanna Army Depot wastewater collection and treatment system being studied consists of all components from the point where wastewater is collected from individual facilities to the points where the Post discharges wastewater to permitted discharge points. The point of demarcation for each end-user is defined as the point or component on the collection system where ownership changes from building owner to the utility owner. In all cases the point of demarcation for the users is the point at which the collection line exits the structure. **Table 2** identifies the type of service and general location of the point of demarcation with respect to each building served by the collection system.

TABLE 2
Points of Demarcation
Wastewater Collection System - Tobyhanna Army Depot, Pennsylvania

Point of Demarcation	Applicable Scenario	Sketch
Point where the service line exits the structure.	Regardless of flow meter or cleanout, the service line exiting the structure.	

J3.2.1.3 Condition Assessment

The pipes and manholes constructed in the 1950s have exceeded their design lives and will require replacement or refurbishing in the early years of the privatization contract. Components requiring immediate attention are detailed in Section J3.11. Other reports describing the system condition in more detail will be available for review in the bidders' Technical Data Library.

J3.2.1.4 Inventory

Table 3 identifies the inventory of the Tobyhanna Army Depot wastewater collection system. When not specifically identified by system drawings, the size and type of system components were estimated, generally based on the size of the piping the component was connected to. Additionally, when the year of construction was not known, it was estimated based on the age of the piping or the age of the facility served. The system will be sold in a "as is, where is" condition without any warranty, representation, or obligation on the part of Government to make any alterations, repairs, or improvements. Ancillary equipment attached to, and necessary for, operating the system, though not specifically mentioned herein, is considered part of the purchased utility**.**

TABLE 3
Fixed Inventory
Wastewater Collection System - Tobyhanna Army Depot, Pennsylvania

Component	Size	Quantity	Unit	Approximate Year of Construction/Upgrade
MAIN BASE				
Pipe	4”	575	LF	1950
	6”	2,725	LF	1950
	6”	4,550	LF	1980
	8”	6,025	LF	1950
	8”	7,575	LF	1980
	10”	2,225	LF	1980
	12”	1,250	LF	1950
	12”	1,200	LF	1980
	14”	3,050	LF	1950
	Total Pipe	**29,175**		
Manholes		80	EA	1950
		56	EA	1980
	Total MH	**136**		
Treatment Plant		1	EA	1968 1998-upgrade
Lift Stations		See Table 1		

Notes:
EA = each LF = linear feet

J3.2.2 Wastewater System Non-Fixed Equipment and Specialized Tools

Table 4 lists other ancillary equipment (spare parts), and **Table 5** 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 4
Spare Parts
Wastewater Collection System - Tobyhanna Army Depot, Pennsylvania

Quantity	Item	Make/Model	Description	Remarks
Tobyhanna Army Depot maintains an inventory of spare parts for the wastewater system. Contents of the inventory vary as items are used and/or purchased. Availability of this inventory to the new owner will be negotiated before or during the transition period.				

TABLE 5
Specialized Vehicles and Tools
Wastewater Collection System - Tobyhanna Army Depot, Pennsylvania

Quantity	Item	Make/Model	Description	Remarks
No specialized tools or vehicles are included with the Tobyhanna Army Depot wastewater system.				

J3.2.3 Wastewater System Manuals, Drawings, and Records

Table 6 lists the manuals, drawings, and records that will be transferred with the system.

TABLE 6
Manuals, Drawings, and Records
Wastewater Collection System - Tobyhanna Army Depot, Pennsylvania

Quantity	Item	Description	Remarks
Manuals, drawings, records, and reports included with the Tobyhanna Army Depot wastewater system are included in the bidders' Technical Library			

J3.3 Specific Service Requirements

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

J3.3.1 Digging Permits

J3.3.1.1 Contractor-Provided Permits

Contractor shall participate in the Tobyhanna Army Depot Department of Public Works (DPW) digging permit process. The Contractor shall complete the section of the application that may impact on the integrity of his Utility Systems and the safety of the requestors and return it to the Tobyhanna Army Depot DPW within 3 working days of receipt of the digging request. As part of this process, the Contractor shall routinely accept and process digging permit requests from

Government work force; military units; RCI partnership; maintenance, construction, and Army operations contractors; cable and phone maintenance and installation companies; fence rental companies; individual residents, and additional entities as identified by Contracting Officer to have a valid need for a digging permit. Contractor shall identify methodology of accepting, processing, approving, and listing reason(s) for disapproval. Contractor shall be responsible for all repairs, costs, and damages due to excavations by others for which he did not properly mark his utilities as part of the DPW digging permit process.

J3.3.1.2 Tobyhanna Army Depot-Provided Permits

The Contractor shall first obtain digging permits directly from DPW for utilities owned by the Government before any drilling, digging, or excavation is undertaken. The Contractor shall provide a completed permit application to the DPW for each permit. Applications shall be submitted not earlier than 15 days and not later than 5 days prior to the requested digging date. A digging permit for a specified area of excavation expires 30 days after the issue date; Contractor must re-apply for a new permit to perform excavation in the area if the excavation was not started within the 30-day period. Permits will identify all underground utilities within 1.5 m (5 feet) of the designated area. Contractor shall be responsible for all repairs, costs, and damages due to his excavations that fail to comply with the DPW digging permit process, including excavations extending beyond areas that have been cleared for excavation.

J3.3.2 Fire Control and Safety

The Contractor shall abide by Tobyhanna Army Depot fire protection requirements. The utility system purchased by the Contractor may include facilities. These facilities may or may not include fire alarm systems. Where required by federal, state or local regulation, the Contractor shall maintain the fire alarm system for all facilities owned and operated by the Contractor. The Contractor shall permit Fire Department personnel access to their facilities to perform fire inspections and emergency response.

J3.3.3 Emergency Response

The Contractor shall respond with a knowledgeable individual to emergency problems within 15 minutes of notification during duty hours and within one hour during non-duty hours. Additionally, repair crews must be on scene within one hour during duty hours and within two hours during non-duty hours. Duty hours are defined as the hours from 0730 until 1630.

J3.3.4 Crisis Situations

IAW Paragraph C.9.8, *Exercises and Crisis Situations Requiring Utility Support*, the Contractor shall provide support as directed by Tobyhanna Army Depot DPW or equivalent agency for exercises and crisis situations. Contractor shall submit Emergency Response Plans for approval by the Government for all Exercise and Crisis situations IAW C.9.8.

J3.4 Current Service Arrangement

The Army currently provides wastewater collection, pretreatment and treatment of the Depots industrial and domestic wastewater. Recent expansion of the industrial processes at the Depot has resulted in additional pressures on the WWTP to meet environmental requirements.

The existing SCADA system monitors utility systems as well as other critical Depot equipment. The Contractor will be required to sever ties with the Depot system without impacting the portion of the system service non-utility functions.

J3.5 Secondary Metering

There are currently no secondary meters included with the utility system being privatized and no requirements for secondary metering of wastewater at Tobyhanna Army Depot facilities included in this contract. Any future wastewater secondary metering requested by the Government will be IAW Paragraph C.3.3, *Metering*.

J3.6 Monthly Submittals

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

1. **Invoice** (IAW Paragraph G.2, *Submission and Payment of Invoices*). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. The Contractor's monthly invoice shall include segregated costs IAW with each CLIN. Costs shall be segregated into two categories: costs associated with Housing areas and costs associated with non-Housing areas. The Contractor shall provide sufficient supporting documentation with each monthly invoice to substantiate all costs included in the invoice for each CLIN as approved by the Contracting officer. The proposed system of accounts shall be made available in electronic format as directed by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to:

   Name: DIRECTORATE OF PUBLIC WORKS
   ATTN: AMSEL-TY (Mr. John Billack)
   Address: 11 Hap Arnold Blvd.
   Tobyhanna Army Depot, Pennsylvania 18466-5078
   Phone number: (570) 895-9045

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: DIRECTORATE OF PUBLIC WORKS
   ATTN: AMSEL-TY (Mr. John Billack)
   Address: 11 Hap Arnold Blvd.
   Tobyhanna Army Depot, Pennsylvania 18466-5078
   Phone number: (570) 895-9045

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

IAW Paragraph C.3.4, *Energy and Water Efficiency and Conservation*, the following projects have been implemented by the Government for managing and monitoring I&I.

- There are no current/active infiltration and inflow projects associated with the utility system being privatized.

J3.8 Service Area

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

J3.9 Off-Installation Sites

There are no off-Installation sites included in the wastewater privatization.

J3.10 Specific Transition Requirements

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

TABLE 7
Service Connections and Disconnections
Wastewater Collection System - Tobyhanna Army Depot, Pennsylvania

Location	Description
There are no service connections or disconnections required upon transfer of the Tobyhanna Army Depot wastewater system.	

J3.11 Government Recognized System Deficiencies

The table below identifies the Government recognized system deficiencies. Information in the Technical Library will supplement the deficiencies listed.

If any deficiency remedy requires a capital upgrade project, the capital upgrade project shall be proposed according to the following:

- Capital upgrade projects required to bring the system to standard shall be proposed under Schedule 3 – Initial Capital Upgrade(s)/Connection Charge(s).
- Capital upgrade projects required to replace system components shall be proposed in the first years of Schedule 2 – Renewals and Replacements – 50-Year Schedule, and the cost factored into Schedule 1 – Fixed Monthly Charge, for Renewals and Replacements as part of CLIN AA.
- Transition costs shall be proposed as a one-time cost and shall be treated similar to a capital project and included in Schedule 3 – Initial Capital Upgrade(s)/Connection Charge(s).
- Improvements proposed in the operational component of the work shall be included in Schedule 1 – Fixed Monthly Charge as part of CLIN AA.

TABLE 8
System Deficiencies
Wastewater Collection System - Tobyhanna Army Depot, Pennsylvania

System Component	Deficiency Description	Type of Project
Manholes	Manholes within the collection system have recently been evaluated and many are in need of immediate repair. The Technical Library identifies the specific manholes requiring replacement or refurbishment.	Initial Capital Upgrade
Lift Stations	Pump 1 at Lift Stations 1 and 8 are not operational. These will need to be replaced or repaired.	Initial Capital Upgrade
Pretreatment	The industrial area has the potential for introducing contamination into the wastewater streams. Currently the Depot is controlling much of the potential contamination without the use of pretreatment facilities; however, the control measures have not been 100 percent successful. Additional pretreatment equipment needs to be identified and installed.	Initial Capital Upgrade