

AGENDA ITEM

TO: Tim Vandall, City Administrator
FROM: Anthony J. Zell, Jr., Wastewater Utility Director 
DATE: January 14, 2022
SUBJECT: Contract for Services – Aeration Basin Cleaning/Dewatering

This fall, one of the three aeration basins at the treatment plant needed to be taken offline due to a gearbox malfunction. Staff and a contractor pumped the contents of the aeration basin (designated D1) into aeration basin D2. Upon completion of the pumping operation, approximately one foot of solids and inorganic material remained at the bottom of the tank and associated chambers.

Staff solicited bids from two local contractors who specialize in this type of material remediation. Crews will work with small skid steer loaders and vacuum trucks to remove the remaining material. The majority of the organic material will be reintroduced to the facility for further treatment and processing. The remaining inorganic material (rocks, gravel, eggshells, etc.) will be vacuumed into dewatering boxes, which will allow the free water to drain. Once the boxes have drained sufficiently to pass the requirements of the landfill, the boxes will be taken to the landfill and properly disposed of.

In order to get the best pricing for the work, a daily or hourly rate for the cleaning was sought. Hydro-Klean bid an hourly rate of \$750, while Environmental Works submitted a daily rate of \$9,054 (\$1,132/hr.) It is estimated that this project will take approximately 5 days to complete. The actual disposal costs will be paid directly to the landfill to reduce pass-through costs. One bidder (HydroKlean) did not include costs for the containers for material storage or transport costs to the landfill. The complete bid, from Environmental Works, has a higher rate, but includes all costs and fees for storage and transport. Staff has also worked with Environmental Works during the last basin dewatering project in 2006.

Included with this memo are copies of both bid estimates and some photographs of basin D1.

Policy Consideration: N/A

Financial Consideration: Funds for this are available in the Utility's base budget.

Action: A motion to approve the bid estimate from Environmental Works for cleaning and dewatering the aeration basin at a rate of \$9,054/day.

AGENDA ITEM

December 21, 2021

Mr. Anthony Zell
Wastewater Utility Director
City of Lansing, KS.
800 First Terrace
Lansing, KS. 66043

Submitted via email: azell@lansingks.org

RE: Basin cleaning

Dear Mr. Zell,

Environmental Works, Inc. (EWI) is pleased to offer this proposal to clean the aeration basin located at the City of Lansing Wastewater facility.

The specific Scope of Work includes:

- **Using a vacuum truck EWI will pump all free liquids from basin and off-load into plants head works for processing.**
- **EWI will use 2 Dingo skid steers to pile remaining grit to be vacuumed out using a Guzzler vacuum truck and vacuum boxes.**
- **EWI will utilize the same Guzzler and vacuum boxes to pump the grit, solids from the 6 vaults.**
- **Vacuum boxes will be set on pad for dewatering before shipment to the landfill.**
- **A special waste permit will need to be submitted and approved with the Johnson County Landfill prior to shipment.**
- **Once grit and solids are removed EWI will power wash the floor of the basin then the wash water will be vacuum out using the liquid vacuum truck to be off loaded into the plants head works.**
- **Work is estimated to take approximately 5 days**

EWI can complete the cleaning of the basin for a daily rate of \$9,054.00 using the time and materials rates below, estimated time to complete the project is 5 days.

Field Supervisor	\$85/hour	Field Trucks	\$25 / per hour each
3-Technician	\$65/hour per person	2 operators	\$75 / per hour
Level C PPE	\$25/day level D each	Power Washer	\$55.00 / per hour

Vacuum Truck	\$95 / hour	Guzzler	\$145 / hour
(2) Dingo skid steers	\$905/ week each	(6) Vacuum Boxes	\$50 / day
Roll-off truck	\$95 / hour	Solid's disposal	\$65.50 / ton

Final invoice will be for actual time and materials spent to complete the project.

Disposal of grit as a Special Waste will require analysis for TCLP VOC's, metals, PCB's, Flash. Landfill disposal charge will be for actual tonnage received at the landfill.

Quote is valid for 90 days, will have to update actual rates within 90 days of project.

If you have any questions or comments regarding this proposal, feel free to contact me at (816) 605-8977. If this proposal is acceptable to you, please sign the attached Environmental Services Agreement and return the signature page to my attention at mdale@environmentalworks.com

Michael Dale
Client Manager



Hydro-Klean, LLC
 333 NW 49th Place
 Des Moines, IA, 50313
 Phone: 515-283-0500

Quote

Quote Nbr.: Q002954
 Order Date: 12/17/2021
 Valid Until:
 Sales Person: Tameka Kueser
 Customer ID: 100450
 Payment Terms: Net 30 Days

Job Site:
 City of Lansing, KS
 800 First Terrace
 Lansing KS 66043
 United States of America

Bill to:
 City of Lansing, KS
 800 First Terrace
 Lansing KS 66043
 United States of America

*** This Quote has not been approved by Hydro-Klean Management! ***

Job Description

Projected probable project cost to perform the following tasks on a unit cost basis: Variations in the work scope will require execution of a change order.
 HK Solutions will use industrial vacuum truck to remove grit from basins and place into roll-off containers. Following removal of grit, organic materials will be pumped into adjacent basin.

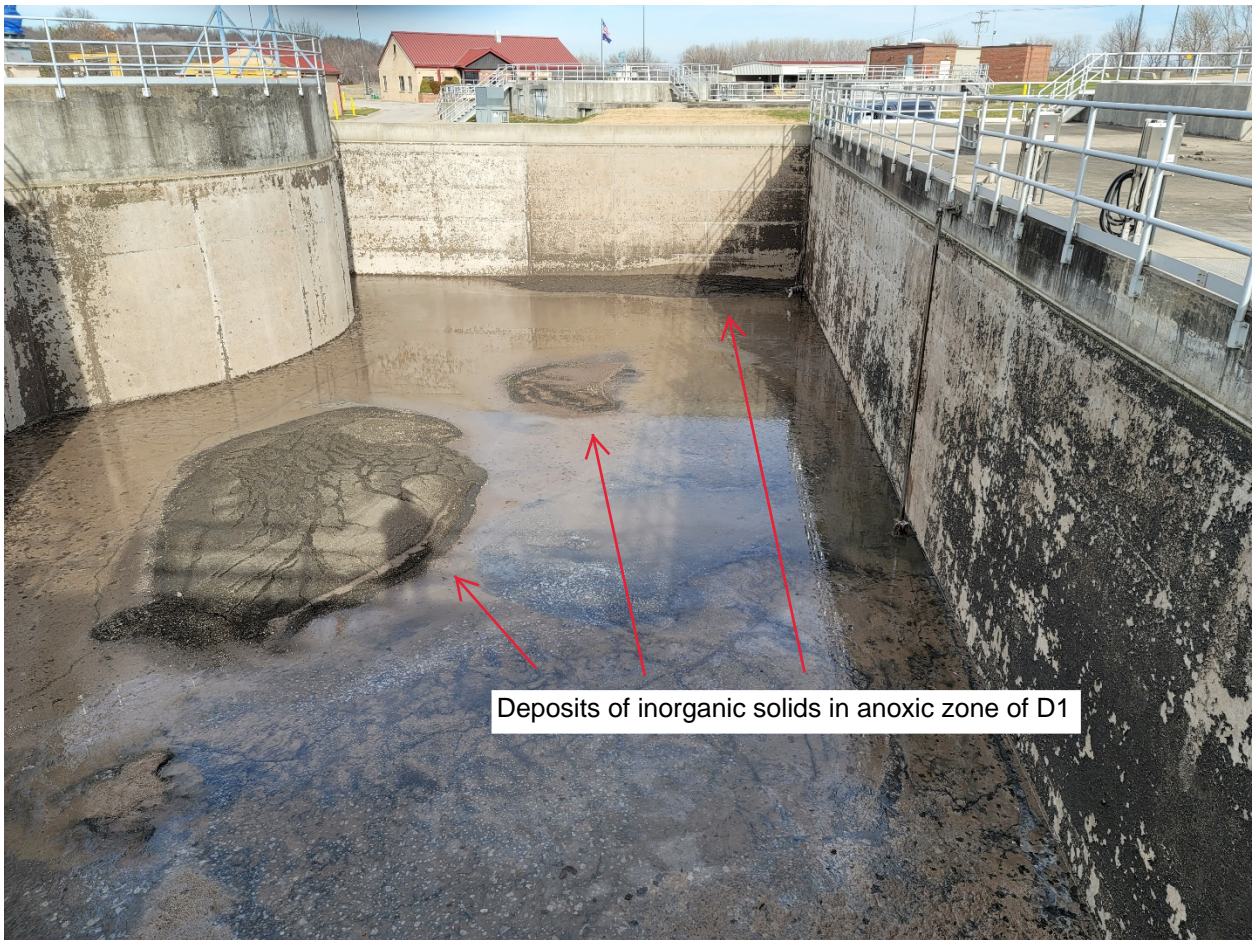
Proposal does not include roll-off containers, transportation or disposal. Waste transportation will be calculated port-to-port and provided at a later date.

NO.	ITEM	QTY.	UOM	PRICE	Amount
1	Vac and Pump Grit from Basins and 3 Cells	1.0000	HOUR	750.0000	750.00

***NOTE: Quote does not include any applicable taxes**

Prepared By: Tameka Kueser Accepted By: _____ *Quote Total: 750.00
 Approved By: Wade Anderson Date: _____
 PO#: _____

Three 6" transfer pumps draining basin D1 (left) into D2 (right)



Deposits of inorganic solids in anoxic zone of D1



Inorganic solids in aeration zone



Inorganic solids in anoxic zone