

NOTICE OF MEETING

DES MOINES WASTEWATER RECLAMATION AUTHORITY TECHNICAL COMMITTEE

Des Moines Wastewater Reclamation Facility
3000 Vandalia Road
Des Moines, Iowa

May 9, 2023
1:30 p.m.

AGENDA

- ITEM 1: Call to Order
- ITEM 2: Roll Call
- ITEM 3: Minutes for the April 11, 2023 meeting - Approval
- ITEM 4: WRF Fuel System Improvements – Contract Recommendation
- ITEM 5: Industrial Waste Ordinance – Information
- ITEM 6: Contract Status Update – Information
- ITEM 7: Other Business
- ITEM 8: Adjourn

DES MOINES WASTEWATER RECLAMATION AUTHORITY
TECHNICAL COMMITTEE

Des Moines Wastewater Reclamation Facility
3000 Vandalia Road
Des Moines, Iowa

April 11, 2023
1:30 p.m.

DRAFT MINUTES

ITEM 1: Call to Order

Shane Kinsey, Committee Chair, called the meeting to order at 1:30 p.m.

ITEM 2: Roll Call

Members in Attendance

Dan Scott, Altoona
Don Clark, Ankeny*
Jeff May, Clive
Rita Connor, Cumming*
Eugene Schmitt, Des Moines
Matt Ahrens, Grimes*
Shane Kinsey, Johnston
Bret VandeLune, Polk County
John Larson, Urbandale
Tim Royer, Waukee
Brian Hemesath, West Des Moines
Larry Hare, WRF*

Others in Attendance

Scott Hutchens, Operating Contractor
James Beck, Operating Contractor
Lisa Etnyre, Operating Contractor
Melissa Schlickbernd, Operating Contractor
Patrick Brown, Operating Contractor
Roxane Vaughan, Operating Contractor
Ben Warren, Operating Contractor
Charlie Stevens, Operating Contractor
Brett Paige, Snyder & Associates
Wes Ferrand, Snyder & Associates
Mike Roth, HR Green

* Participated in the meeting remotely due to the fact that it was impractical or impossible to participate in the meeting in person due to proximity to meeting location

ITEM 3: Minutes for the March 14, 2023 meeting - Approval

Brian Hemesath made a motion for recommendation. John Larson seconded the motion. All in favor. The motion carried.

- ITEM 4: Professional Services Agreement for the WRA Common Trunk and Joint Trunk Improvements with Snyder & Associates, Inc., in an Amount Not to Exceed \$2,476,713.30 – Recommendation

James Beck explained that the WRA Common Trunk and Joint Trunk are improvements that have been identified in the WRA Facility Plan – 2004 and the WRA Facility Plan – 2014. The projects were included in the FY 2023 Capital Improvement Plan and includes evaluation and design of all three segments of sewers with the estimated construction of the New Joint Trunk West to be completed in 2025-2026, the construction of New Joint Trunk East to be completed in 2026-2027, and the construction of New Common Trunk to be completed in 2028-2030.

Requests for proposals for the WRA Common Trunk and Joint Trunk Improvements were sent to multiple firms on August 31, 2022 and were required to be submitted by October 28, 2022. The WRA received five proposals and the Consultant Selection Committee met on December 13, 2022 to discuss the proposals. They elected to recommend the selection of Snyder and Associates, Inc.

Jeff May made a motion for recommendation. Tim Royer seconded that motion. All in favor. The motion carried.

- ITEM 5: Professional Services Agreement for Design and Bidding Services for the WRF Waste Activated Sludge Thickening Improvements with HR Green, Inc., in an Amount Not to Exceed \$252,600.00 - Recommendation

James Beck explained that the Solids Processing Building houses sludge and digested biosolids processing equipment and ancillary systems. Waste activated sludge from the secondary clarifiers is thickened ahead of digestion using three rotary drum thickeners (RDTs). The current single-drum style Parkson RDT units were installed in 2004 and are at the end of their useful life. Significant rehabilitation is needed for continued use of the RDT units and current sludge loadings also meet peak firm capacity of the existing RDT units. Ancillary support systems, specifically existing wash water and polymer system's need replacement due to the age and condition. Supporting electrical equipment is located in the adjacent Building 75 electrical room, and the RDT motor control centers require replacement as well due to their age and condition.

An agreement for professional services has been negotiated with HR Green, Inc. for Design and Bidding Phase Services associated with the WRF Waste Activated Sludge Thickening Improvements in an amount not to exceed \$252,600.00.

Brian Hemesath made a motion for recommendation. Eugene Schmitt seconded that motion. All in favor. The motion carried.

- ITEM 6: Supplemental Agreement No. 1 to the Professional Services Agreement for the WRA Southern Tier Interceptor, Phase 10, Segment 23 project with Veenstra & Kimm, Inc., in an Amount Not to Exceed \$89,508.00 - Recommendation

ITEM 3

James Beck stated that on August 16, 2022 a professional services agreement with Veenstra & Kimm, Inc. was approved by the WRA Director for Design and Right-of-Way services associated with the WRA Southern Tier Interceptor, Phase 10, Segment 23 project in an amount not to exceed \$227,292.00. The Operating Contractor's Staff is currently working through the design of the WRA Sewer Lining – Phase 3 improvements which includes the lining of the Southside Des Moines River Interceptor. The estimated cost to line the existing 90-inch sewer from the location where the new WRA Southern Tier Interceptor, Phase 10, Segment 23 sewer will connect to the Des Moines river siphon is estimated to be around \$1,400 per linear foot due to the large bypass pumping requirements. The WRA is also currently undertaking a facility planning effort for the WRA conveyance system and the WRA treatment system and one of the recommendations is to increase the capacity of the Southside Des Moines River Interceptor and to relocate the river siphon to a new WRF headworks in the future. Staff has worked with Veenstra & Kimm, Inc. to develop a scope of services to add a portion of the Southside Des Moines River Interceptor which would allow for the abandonment of the existing 90-inch sewer which would also allow the WRA to avoid the cost of lining that reach of sewer. The proposal is for the WRA to construct a new 108-inch or 120-inch sewer in the same construction contract as the WRA Southern Tier Interceptor, Phase 10, Segment 23 project. Staff recommends that Supplemental Agreement No. 1 with Veenstra & Kimm, Inc. is for additional design phase services not to exceed \$89,508.00 be recommended to be approved.

Tim Royer made a motion for recommendation. Dan Scott seconded that motion. All in favor. The motion carried.

ITEM 7: Supplemental WRA Specifications Update & Revision – Recommendation

James Beck noted that the SUDAS Design Manual and SUDAS Standard Specifications are statewide standards for design and construction of urban public improvements in Iowa, which are the product of a joint effort by many local jurisdictions to ensure that public improvements will function adequately, reduce maintenance problems, are durable and safe, and most of all, cost effective to the public within each jurisdiction using these design standards and standard specifications.

Besides the changes to the date references in the first few paragraphs of the WRA Supplemental Specification, there is one additional change being made to Section 1040, 1.07 Change Orders, B. Written Orders. At the February 21, 2023, meeting the WRA Board approved the updated WRA Policy Regarding the Provision for Procurement of Design and Construction Services for WRA Improvement Projects which increased the WRA Director's authority to approve change orders from \$100,000 to \$160,000.

Brian Hemesath made a motion for recommendation. Eugene Schmitt seconded that motion. All in favor. The motion carried.

ITEM 8: Industrial Waste Ordinance – Information

James Beck noted 21 inspections were completed in West Des Moines and he noted two exceptions were received and approved in March.

ITEM 9: Contract Status Update – Information

James Beck noted that there was one new construction contract added for Goodwin Brothers Construction for the WRA Clarifier Improvements, Phase 2 project and no new consultant contracts were added in March 2023.

ITEM 10: Other Business

Scott Hutchens stated that both the WRA Conveyance Facility Plan Update and the WRA Treatment Facility Plan Update will be going to the Finance Meeting to be reviewed on June 1, 2023.

ITEM 11: Adjourn

Bret VandLune made a motion to adjourn. Jeff May seconded that motion. Meeting adjourned at 1:47 p.m.

MEMORANDUM

May 9, 2023

To: WRA Technical Committee
From: Operating Contractor Staff
Re: WRF Fuel System Improvements – Contract Recommendation

The WRF Fuel System Improvements is a project need identified several years ago when the WRF's fuel island was found to be nearing the end of its useful life. The improvement includes removal, replacement, and modifications to the existing below grade diesel and gasoline fuel storage and dispensing system, control and communications, sitework, and other incidental item all in accordance with the [plans](#) and contract documents. The project is located at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa.

The engineer's estimate for the project was \$1,138,000.00 and bids were received on May 2, 2023. Two bids were received and are tabulated below:

Unified Contracting Services (Des Moines, IA)	\$1,050,208.00
Evora Energy (West Des Moines, IA)	\$1,072,036.00

Unified Contracting Services is the apparent low bidder with a bid of \$1,050,208.00 which is 7.71% under the engineer's estimate. Unified Contracting Services visited the project site prior to bidding and was present for the pre-bid meeting in which the project requirements were discussed. The WRA has not had a contract with Unified Contracting Services but it appears that they specialize in underground petroleum storage tank construction and service.

With a recommendation from the WRA Technical Committee, the Operating Contractor anticipates having the item brought before the WRA Board at the May 21, 2023 WRA Board Meeting. The final completion date for the improvement is October 18, 2024, the project will be funded through project code WR106 (WRA Small CIP).

TABULATED BY: N. SMITH

APPROVED BY



CHECKED BY: N. SMITH

CONTRACTOR'S BID TABULATION

PROJECT: WRF Fuel System Improvements

-----ESTIMATE-----

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
1	WRF Fuel System Improvements, Complete as Specified and Described in the Contract Documents	1 LS	\$1,138,000.00	\$1,138,000.00
TOTAL CONSTRUCTION COST				\$1,138,000.00
PERCENT OF ENGINEER'S ESTIMATE				

Unified Contracting Services
Des Moines, IA

BID SECURITY
10% Bid Bond
BID PRICE

<u>UNIT PRICE</u>	<u>AMOUNT</u>
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\$1,050,208.00	\$1,050,208.00
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\$1,050,208.00	
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-7.71%

Evora Energy
West Des Moines, IA

BID SECURITY
10% Bid Bond
BID PRICE

<u>UNIT PRICE</u>	<u>AMOUNT</u>
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\$1,072,036.00	\$1,072,036.00
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\$1,072,036.00	
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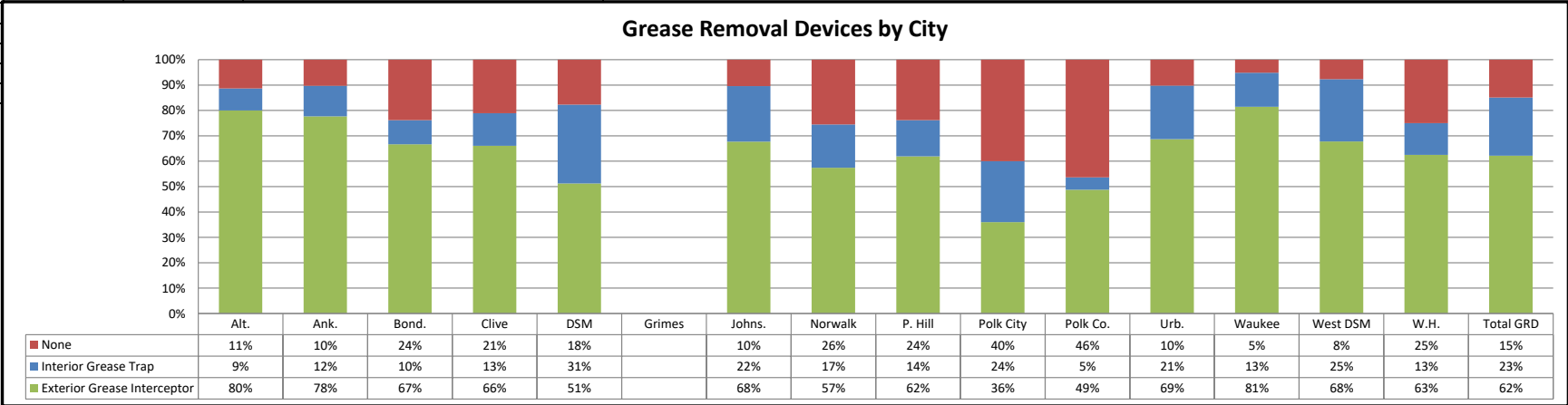
-5.80%

(Apparent Low Bidder)

Progress Report

Month	Annual Inspections	Follow-Up Inspections	Area of Concentration
January-22	32	4	DSM (E 14th), Johnston, WDM
February-22	35	3	DSM, WDM (JC mall)
March-22	28	6	Ankeny, DSM, Urbandale, WDM
April-22	20	15	Urbandale, WDM
May-22	21	0	Urbandale, Johnston
June-22	25	10	DSM, Urbandale, Waukee
July-22	22	8	Johnston, Urbandale, Waukee
August-22	49	4	Urbandale, Waukee, WDM
September-22	30	6	Des Moines, Urbandale, WDM
October-22	10	1	P. Hill, Johnston, Urbandale
November-22	40	5	Altoona, DSM, P. Hill, Urbandale, Waukee
December-22	31	14	Altoona, DSM, Urb. schools, Joh. schools
January-23	27	11	DSM, Waukee
February-23	22	3	Ankeny, DSM, Grimes complaint
March-23	21	0	West Des Moines
April-22	32	0	DSM, West Des Moines

April Exceptions			
Food Service Establishment	Type of Appeal	Municipality	Approval (Y/N)
Downtown Marriott, 700 Grand Avenue	Physical Constraint	Des Moines	Y



MAY 2023 - WRA CONTRACT STATUS SHEET - CONSTRUCTION CONTRACTS

WRF Grit Removal Improvements	(WR111)	SRF FUNDED	General Contractor	Dean Snyder Construction
The improvement includes infrastructure modifications to the existing grit removal system, including phased demolition of the existing aerated grit removal tanks, modifications to existing buildings No. 12 and No. 14 and construction of new building No. 10. The major modifications in buildings 12 and 14 include removal and replacement of existing grit washing and handling equipment, pipe work and blower installation. The new building 10 work includes installation of a primary influent bypass channel, stacked tray grit removal system, new grit pump room, electrical room and grit conveyance piping, site work, and utility relocation. All areas will include HVAC, plumbing and electrical improvements, including all necessary materials, equipment, labor, miscellaneous associated work, and cleanup located at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa				
			Contract Amount	\$12,515,000.00
			Change Orders to Date	\$1,057,842.10
			Completed to Date	\$13,560,542.10
			Percent Complete	99.9%
WRA Sugar Creek Sponsored Project Improvements - Phase 1	(WR117)	SRF FUNDED	General Contractor	RW Excavating, LC
The improvement includes restoration and stabilization of approximately 3,300 feet of streambank including earthwork, stone rip-rap, seeding, erosion control, storm sewer adjustments, surface restoration, and necessary materials, equipment, labor, miscellaneous association work, and cleanup; all in accordance with the contract document. The project is located along Sugar Creek between Booneville Road and Stagecoach Road in West Des Moines, Iowa				
			Contract Amount	\$1,973,926.00
			Change Orders to Date	\$0.00
			Completed to Date	\$1,755,501.55
			Percent Complete	88.9%
WRF Clarifier Improvements - Phase 1	(WR115)	SRF FUNDED	General Contractor	Williams Brothers Construction
The improvement includes phased removal and replacement of six primary clarifier mechanisms and rehabilitation of Primary Sludge Pump Buildings No. 20 and 21, including new pumps, piping, HVAC, electrical, controls and associated work. Phased repairs to the existing primary influent channel and removal and replacement of HVAC equipment and primary scum pump controls for Primary Scum Pump Station Buildings No. 26, 27 and 28 are also included. All areas will include HVAC, plumbing and electrical improvements, including all necessary materials, equipment, labor, miscellaneous associated work, and cleanup; all in accordance with the contract documents.				
			Contract Amount	\$9,330,000.00
			Change Orders to Date	\$280,091.00
			Completed to Date	\$8,956,408.26
			Percent Complete	93.2%
WRF Flood Improvements	(WR105)	FLOOD MITIGATION GRANT FUNDED	General Contractor	Williams Brothers Construction
The improvement includes phased removal and replacement of existing plant electrical switchgear, construction of a floodwall and new electrical gear around existing Building No. 05, and construction of new Building No. 73. Major modifications around Building No. 05 include utility relocations, electrical transformer replacement and installation of a floodwall with vehicle access gates around the building. New Building No. 73 includes a new pre-engineered metal building to house plant electrical switchgear, natural gas-powered engine electrical generators and new parking lots. The project also includes HVAC, plumbing and electrical improvements, including all necessary materials, equipment, labor, miscellaneous associated work.				
			Contract Amount	\$15,980,000.00
			Change Orders to Date	\$1,354,801.00
			Completed to Date	\$16,512,506.92
			Percent Complete	95.3%
WRF Primary Sludge Piping Replacement	(WR110)	SMALL CIP FUNDED	General Contractor	Shank Constructors, Inc.
The improvement includes replacement and modifications of existing primary sludge piping, sludge grinders, and concrete hydro-demolition and repair for pump wetwell wall pipes, and other incidental items all in accordance with the contract documents.				
			Contract Amount	\$674,900.00
			Change Orders to Date	\$44,386.09
			Completed to Date	\$675,880.00
			Percent Complete	94.0%
WRF Aeration Basin Sensor Improvements	(WR068)	SMALL CIP FUNDED	General Contractor	Baker Mechanical, Inc.
The improvement includes replacement and modifications of existing aeration sensors, controls and associated supports, equipment, conduit and wiring, and other incidental items; all in accordance with the contract documents, including Plan File No. 630-183/240, located at the aeration basins and Buildings 41, 42 and 43 at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa				
			Contract Amount	\$1,530,000.00
			Change Orders to Date	\$24,625.00
			Completed to Date	\$1,496,346.25
			Percent Complete	96.3%
WRA Southwest Equalization Basin Mechanical Repairs	(WR116)	SMALL CIP FUNDED	General Contractor	Woodruff Construction, LLC
The improvement includes furnishing and installing all labor, materials, and equipment for the construction of repairs at the SW Equalization (EQ) Basin site, including but not limited to: drain pump and piping demolition and replacement, clean and repair EQ sluice gates, replace EQ hoist, removal and replacement of sluice gate at Special Structure 2, demolition of sluice gates at Special Structure 5, removal and replacement of well pump, miscellaneous site piping and repairs, rerouting of 16 inch W3 piping from the Control Building to the EQ Tank, removal and replacement of odor control media, electrical rewiring to Valve Room equipment and well pump, radio telemetry from SW Diversion Control Building to Special Structure 2, Valve Room lighting, together with related subsidiary and incidental work, including cleanup, all in accordance with the contract documents and located at 5641 Winona Avenue, City of Des Moines, Polk County, Iowa				
			Contract Amount	\$1,057,300.00
			Change Orders to Date	\$18,566.42
			Completed to Date	\$846,571.18
			Percent Complete	78.7%
WRA Southern Tier Interceptor, Phase 10, Segment 24	(WR107)	SRF FUNDED	General Contractor	Rognes Corporation
This improvement includes construction of sanitary sewer, including all labor, materials and equipment necessary for excavation and backfill of approximately 6,987 feet of 42-inch sanitary sewer with open cut, manholes, steel sheeting, erosion control and miscellaneous associated work, including cleanup; all in accordance with the contract documents. The project is located partially in the City of Des Moines, Warren County, Iowa and partially in unincorporated Warren County, north of the 1200 block of E. Border Street in Des Moines and south of the 10900 block of Beardsley Street in Warren County				
			Contract Amount	\$3,231,000.00
			Change Orders to Date	\$108,000.00
			Completed to Date	\$2,465,775.77
			Percent Complete	73.8%
WRA Ingersoll Run Outlet, Phase 28, Segment 3	(WR088)	SRF FUNDED	General Contractor	Minger Construction Companies
This improvement includes construction of sanitary sewer and paving, including all labor, materials and equipment necessary for excavation and backfill of approximately 1,154 feet of 60-inch through 66-inch sanitary sewer in open cut construction, 999 feet of 60-inch and 66-inch sanitary sewer in trenchless construction, manholes, paving removal and replacement, traffic control, erosion control and miscellaneous associated work, including cleanup; all in accordance with the contract documents. The project is located along Ingersoll Avenue from 18th Street to 19th Street, 19th Street from Ingersoll Avenue to High Street, and High Street from 19th Street to 22nd Street in Des Moines, Iowa				
			Contract Amount	\$4,388,521.00
			Change Orders to Date	\$141,742.00
			Completed to Date	\$2,971,202.14
			Percent Complete	65.6%
WRA Birdland Pump Station Improvements	(WR122)	SRF FUNDED	General Contractor	Williams Brothers Construction
The improvement includes all labor, materials and equipment for the construction of improvements for the Birdland Pump Station, including site work, yard piping, demolition, excavation, cast-in-place concrete, structure and building construction, equipment installation, process piping, mechanical, electrical and controls, rehabilitation and miscellaneous associated work, including cleanup. The project is ocated near Pennsylvania Avenue and North Union Street, Des Moines, Iowa				
			Contract Amount	\$19,480,000.00
			Change Orders to Date	\$21,411.00
			Completed to Date	\$4,502,066.05
			Percent Complete	23.1%
WRA Sewer Lining - Phase 2	(WR113)	SRF FUNDED	General Contractor	Ace Pipe Cleaning, Inc.
The improvement includes all labor, materials and equipment for the construction of improvements for the Birdland Pump Station, including site work, yard piping, demolition, excavation, cast-in-place concrete, structure and building construction, equipment installation, process piping, mechanical, electrical and controls, rehabilitation and miscellaneous associated work, including cleanup. The project is ocated near Pennsylvania Avenue and North Union Street, Des Moines, Iowa				
			Contract Amount	\$3,985,609.50
			Change Orders to Date	-\$288,004.65
			Completed to Date	\$3,538,693.93
			Percent Complete	95.7%
WRF Digester Repairs and Improvemnets	(WR074)	PARTIAL INSURANCE FUNDED AND PARTIAL SMALL CIP FUNDED	General Contractor	Construction Leaders Company
The improvement includes hydro-demolition and replacement of a portion of the concrete lid for anaerobic digester No. 3, pre-cast concrete panel and joint repairs and cleaning to the exterior of anaerobic digesters No. 1-6, concrete crack repairs to the lid of anaerobic digesters No. 2-6, installation of new water level sensors and associated work for anaerobic digesters No. 2-6, and all other associated work and incidental items. The work is located at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa				
			Contract Amount	\$1,280,350.00
			Change Orders to Date	\$0.00
			Completed to Date	\$241,159.87
			Percent Complete	18.8%

MAY 2023 - WRA CONTRACT STATUS SHEET - CONSTRUCTION CONTRACTS

WRF Blended Sludge Tank Mixer Replacement The improvement includes hydro-demolition and replacement of a portion of the concrete lid for anaerobic digester No. 3, pre-cast concrete panel and joint repairs and cleaning to the exterior of anaerobic digesters No. 1-6, concrete crack repairs to the lid of anaerobic digesters No. 2-6, installation of new water level sensors and associated work for anaerobic digesters No. 2-6, and all other associated work and incidental items. The work is located at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa	(WR110) SMALL CIP FUNDED	General Contractor Contract Amount Change Orders to Date Completed to Date Percent Complete	Woodruff Construction, Inc. \$1,727,300.00 \$0.00 \$41,884.60 2.4%
WRA Ingersoll Run Outlet, Phase 28, Segment 1 This improvement includes construction of sanitary sewer and paving, including all labor, materials and equipment necessary for excavation and backfill of approximately 5,150 feet of 60-inch sanitary sewer in open cut, 985 feet of 42-inch, 54-inch and 60-inch sanitary sewer in trenchless construction, manholes, paving removal and replacement, traffic control, erosion control, cleanup, and miscellaneous associated work; all in accordance with the contract documents, including Plan File No. 642-033/128 located generally along Martin Luther King Jr. Parkway from S.W. 2nd Street to S.W. 16th Street in Des Moines, Iowa	(WR088) SRF FUNDED	General Contractor Contract Amount Change Orders to Date Completed to Date Percent Complete	Rognes Corporation \$17,804,480.00 \$0.00 \$519,117.81 2.9%
WRF Belt Filter Press Improvements The improvement includes refurbishment of three existing belt filter presses, removal and replacement of existing water pressure booster pumps, interior piping replacement and modifications, and associated work and incidental items; all in accordance with the contract documents located in Building 70 at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa	(WR136) SMALL CIP FUNDED	General Contractor Contract Amount Change Orders to Date Completed to Date Percent Complete	Shank Constructors \$1,991,800.00 \$0.00 \$0.00 0.0%
WRF Building 05 Electrical Room HVAC Improvements The improvement includes removal and replacement of existing HVAC equipment, controls, and associated work and incidental items; all in accordance with the contract documents located in Building 05 at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa	(WR118) SMALL CIP FUNDED	General Contractor Contract Amount Change Orders to Date Completed to Date Percent Complete	Air-Con Mechanical Corporation \$293,345.00 \$0.00 \$0.00 0.0%
WRF Clarifier Improvements - Phase 2 The improvement includes phased removal and replacement of twelve (12) secondary clarifier mechanisms, installation of clarifier launder and effluent channel covers, and removal and replacement of flow control gates at the Wastewater Reclamation Facility, 3000 Vandalia Road, Des Moines, Iowa	(WR115) SRF FUNDED	General Contractor Contract Amount Change Orders to Date Completed to Date Percent Complete	Goodwin Bros. Construction Co. \$29,100,000.00 \$0.00 \$0.00 0.0%

MAY 2023 - WRA CONTRACT STATUS SHEET - CONSULTANT CONTRACTS

WRA Ingersoll Run Outlet Sewer	(WR088)	Consultant	Veenstra & Kimm
	Original Agreement	Design Tasks	\$ 724,064.00
	Original Agreement	Right-of-Way Tasks	\$ 84,860.00
	Supplemental Agreement No. 1	Additional Design and Construction Phase Services	\$ 2,113,711.00
		Completed to Date	\$ 1,174,832.57
		Percent Complete	40.2%
WRF Phosphorus Recovery Facility	(WR112)	Consultant	HDR Engineering
	Original Agreement	Study and Design Tasks	\$ 1,684,245.00
	Supplemental Agreement No. 1	Aeration Evaluation Tasks	\$ 66,800.00
	Supplemental Agreement No. 2	Confidentiality Terms	\$ -
	Supplemental Agreement No. 3	Additional Design Tasks	\$ 914,600.00
		Completed to Date	\$ 2,606,466.76
		Percent Complete	97.8%
WRF Clarifier Improvements	(WR115)	Consultant	HDR Engineering
	Original Agreement	Design Tasks	\$ 585,500.00
	Supplemental Agreement No. 1	Additional Design Tasks	\$ 76,695.00
	Supplemental Agreement No. 2	Additional Design, Bidding, and Construction Tasks	\$ 562,000.00
	Supplemental Agreement No. 3	Additional Design, Bidding, and Construction Tasks	\$ 484,880.00
		Completed to Date	\$ 1,264,662.83
		Percent Complete	74.0%
WRA Sugar Creek Sponsored Project Improvements - Phase 1	(WR117)	Consultant	Snyder & Associates
	Original Agreement	Design, ROW, Bidding, and Construction Tasks	\$ 249,900.00
	Supplemental Agreement No. 1	Additional Design and Construction Services	\$ 89,091.00
		Completed to Date	\$ 338,065.14
		Percent Complete	99.7%
WRA Fourmile Creek Streambank Stabilization Sponsored Projec	(WR109)	Consultant	Snyder & Associates
	Original Agreement	Design, ROW, Bidding, and Construction Tasks	\$ 220,950.00
	Supplemental Agreement No. 1	Additional Design and Construction Services	\$ 395,400.00
	Supplemental Agreement No. 2	Additional Design Services	\$ 40,400.00
		Completed to Date	\$ 577,050.73
		Percent Complete	87.9%
WRA Birdland Pump Station Improvement:	(WR122)	Consultant	HR Green Inc.
	Original Agreement	Investigation and Conceptual Design	\$ 175,000.00
	Supplemental Agreement No. 1	Design and Bidding Services	\$ 826,300.00
	Supplemental Agreement No. 2	Construction Services	\$ 1,222,000.00
		Completed to Date	\$ 1,520,812.98
		Percent Complete	68.4%
WRF Site Access and Security Improvements	(WR121)	Consultant	HDR Engineering
	Original Agreement	Design	\$ 504,650.00
	Supplemental Agreement No. 1	Additional Design and Bidding Services	\$ 326,940.00
	Supplemental Agreement No. 2	Additional Design Services for Water Main	\$ 42,595.00
		Completed to Date	\$ 831,588.36
		Percent Complete	95.1%
WRF Flood Improvements	(WR105)	Consultant	HDR Engineering
	Original Agreement	Alternatives Development	\$ 212,354.00
	Supplemental Agreement No. 1	Design Services	\$ 776,700.00
	Supplemental Agreement No. 2	Additional Design Services	\$ 99,947.00
	Supplemental Agreement No. 3	Bidding and Construction Services	\$ 1,089,362.00
	Supplemental Agreement No. 4	Additional Construction Services	\$ 516,000.00
		Completed to Date	\$ 2,584,724.30
		Percent Complete	95.9%

MAY 2023 - WRA CONTRACT STATUS SHEET - CONSULTANT CONTRACTS

WRA Southern Tier Interceptor, Phase 10, Segment 24	(WR107)	Consultant		Veenstra & Kimm
	Original Agreement	Design, Right-of-Way, and Construction Services	\$	247,000.00
		Completed to Date	\$	218,877.69
		Percent Complete		88.6%
WRF Clarifier Phase 1 Improvements - Special Inspection Services	(WR115)	Consultant		Terracon
	Original Agreement	Special Inspections	\$	20,000.00
		Completed to Date	\$	12,787.25
		Percent Complete		63.9%
WRF Flood Improvements - Special Inspection Services	(WR105)	Consultant		Terracon
	Original Agreement	Special Inspections	\$	65,000.00
	Supplemental Agreement No. 1	Additional Special Inspection	\$	30,000.00
	Supplemental Agreement No. 2	Additional Special Inspection	\$	30,000.00
	Supplemental Agreement No. 3	Additional Special Inspection	\$	30,000.00
		Completed to Date	\$	140,563.25
		Percent Complete		90.7%
WRF Digester Repairs and Improvements	(WR074)	Consultant		HDR Engineering
	Original Agreement	Structural Evaluation	\$	24,071.00
	Supplemental Agreement No. 1	Design and Bidding Services	\$	106,706.00
	Supplemental Agreement No. 2	Construction Services	\$	136,814.00
		Completed to Date	\$	125,308.68
		Percent Complete		46.8%
WRF Air Permitting Assistance Fiscal Year 2021-2022	(WR069)	Consultant		Trinity Consultants
	Original Agreement	Air Permitting Assistance	\$	75,000.00
		Completed to Date	\$	51,450.02
		Percent Complete		68.6%
WRF Engineering Assistance Fiscal Year 2021-2022	(WR116)	Consultant		HR Green
	Original Agreement	Multi-Disipline Engineering Assistance	\$	95,000.00
		Completed to Date	\$	68,147.13
		Percent Complete		71.7%
WRF Building 05 Raw Pump Study	(WR091)	Consultant		HDR Engineering
	Original Agreement	Main Pump Study	\$	69,715.00
		Completed to Date	\$	50,886.29
		Percent Complete		73.0%
WRF Blended Sludge Mixer Improvements	(WR110)	Consultant		HR Green
	Original Agreement	Design and Bidding Services	\$	77,715.00
	Supplemental Agreement No. 1	Additional Design Services	\$	22,200.00
	Supplemental Agreement No. 2	Construction Phase Services	\$	153,875.00
		Completed to Date	\$	147,966.21
		Percent Complete		58.3%
WRF Aeration Basin Sensor Improvements	(WR068)	Consultant		HR Green
	Original Agreement	Design and Bidding Services	\$	78,000.00
	Supplemental Agreement No. 1	Construction Phase Services	\$	115,650.00
		Completed to Date	\$	144,207.82
		Percent Complete		74.5%

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WRA Conveyance Facility Plan Update - 2024	(WR069)	Consultant		Veenstra & Kimm
	Original Agreement	Facility Plan Study	\$	411,000.00
		Completed to Date	\$	385,828.17
		Percent Complete		93.9%
WRA Sewer Lining - Phase 2	(WR113)	Consultant		Snyder & Associates
	Original Agreement	Design Tasks	\$	124,224.00
	Supplemental Agreement No. 1	Construction Phase Services	\$	307,200.00
		Completed to Date	\$	299,209.88
		Percent Complete		69.4%
WRA Southwest Equalization Basin Mechanical Repair	(WR116)	Consultant		HR Green, Inc.
	Original Agreement	Design Tasks	\$	87,300.00
	Supplemental Agreement No. 1	Construction Phase Services	\$	72,200.00
		Completed to Date	\$	151,814.83
		Percent Complete		95.2%
WRA Sugar Creek Sponsored Project Improvements - Phase 2	(WR117)	Consultant		Snyder & Associates
	Original Agreement	Design Tasks	\$	580,300.00
		Completed to Date	\$	387,753.16
		Percent Complete		66.8%
WRA Renewable Natural Gas Pipeline Assistance	(WR102)	Consultant		Black & Veatch
	Original Agreement	Pipeline Assistance	\$	50,000.00
		Completed to Date	\$	4,516.25
		Percent Complete		9.0%
WRF Building 02 Variable Frequency Drive and HVAC Study	(WR091)	Consultant		HDR Engineering
	Original Agreement	Study	\$	31,096.00
		Additional Design, Bidding, and Construction Services	\$	36,081.00
		Completed to Date	\$	33,982.45
		Percent Complete		50.6%
WRF Solar Power Feasibility Study	(WR124)	Consultant		HDR Engineering
	Original Agreement	Design & Bidding Services	\$	31,236.00
		Completed to Date	\$	26,822.01
		Percent Complete		85.9%
WRF Effluent Pumping Improvement	(WR124)	Consultant		Black & Veatch
	Original Agreement	Design & Bidding Services	\$	1,279,901.00
		Additional Design Services	\$	85,800.00
		Completed to Date	\$	800,369.34
		Percent Complete		58.6%
WRA Conveyance Engineering Assistance 2022	(WR116)	Consultant		Snyder & Associates
	Original Agreement	Conveyance Engineering Assistance	\$	95,000.00
		Completed to Date	\$	54,319.30
		Percent Complete		57.2%
WRF Building 96 HVAC Improvements	(WR116)	Consultant		HR Green
	Original Agreement	Multi-Disipline Engineering Assistance	\$	35,600.00
		Completed to Date	\$	27,902.21
		Percent Complete		78.4%

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WRF Building 05 Electrical Room HVAC Improvements	(WR116)	Consultant		HR Green
	Original Agreement	Multi-Disipline Engineering Assistance	\$	35,600.00
		Completed to Date	\$	26,178.64
		Percent Complete		73.5%
WRA Materials Testing Services - Ingersoll Run	(WR116)	Consultant		Team Services
	Original Agreement	Materials Testing Services	\$	74,789.00
		Completed to Date	\$	4,886.45
		Percent Complete		6.5%
WRA Treatment Facility Plan Update - 2024	(WR069)	Consultant		HDR Engineering
	Original Agreement	Facility Plan Study	\$	504,900.00
		Completed to Date	\$	395,896.73
		Percent Complete		78.4%
WRA Materials Testing Services - SW EQ Mechanical Repairs	(WR116)	Consultant		Terracon
	Original Agreement	Materials Testing	\$	15,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
WRA Birdland Pump Station Improvements - Special Inspections	(WR122)	Consultant		Terracon
	Original Agreement	Materials Testing	\$	99,840.00
		Completed to Date	\$	18,758.00
		Percent Complete		18.8%
WRF Fuel System Improvements	(WR106)	Consultant		CDM Smith
	Original Agreement	Design and Bidding Services	\$	134,975.00
		Completed to Date	\$	132,953.75
		Percent Complete		98.5%
WRF Building 12 Transformer and Switchgear	(WR131)	Consultant		HDR Engineering, Inc.
	Original Agreement	Study, Design, and Bidding Services	\$	191,918.00
		Completed to Date	\$	51,658.44
		Percent Complete		26.9%
WRA Southern Tier Interceptor, Phase 10, Segment 23	(WR127)	Consultant		Veenstra & Kimm, Inc.
	Original Agreement	Design and Right-of-way Services	\$	227,292.00
		Additional Design Phase Services	\$	89,508.00
		Completed to Date	\$	115,153.58
		Percent Complete		36.3%
WRF Building 70 and 75 Transformer Improvement:	(WR131)	Consultant		HDR Engineering, Inc.
	Original Agreement	Study, Design, and Bidding Services	\$	168,838.00
		Completed to Date	\$	17,375.87
		Percent Complete		10.3%
WRA Southern Tier, Phase 10, Segment 24 - Special Inspection Services	(WR107)	Consultant		Terracon
	Original Agreement	Special Inspection Services	\$	20,000.00
		Completed to Date	\$	8,413.25
		Percent Complete		42.1%
WRA Ingersoll Run Outlet Sewer - Vibration Monitoring Services	(WR088)	Consultant		Terracon
	Original Agreement	Vibration Monitoring Services	\$	90,000.00
		Completed to Date	\$	11,469.50
		Percent Complete		12.7%

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WRF Blended Sludge Tank Mixer - Special Inspection Services	(WR110)	Consultant		Terracon
	Original Agreement	Special Inspection Services	\$	8,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
WRF Digester Repairs and Improvements - Special Inspection Service	(WR074)	Consultant		Terracon
	Original Agreement	Special Inspection Services	\$	10,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
WRF Utilities Mapping 2023 Update	(WR069)	Consultant		HR Green
	Original Agreement	Utility Mapping	\$	90,000.00
		Completed to Date	\$	16,495.88
		Percent Complete		18.3%
WRA General Facility Planning Services - FY 23/24	(WR069)	Consultant		Veenstra & Kimm
	Original Agreement	Design and Bidding Services	\$	95,000.00
		Completed to Date	\$	27,885.16
		Percent Complete		29.4%
WRF Renewable Natural Gas Feed Compressor Analysis	(WR102)	Consultant		AVS Engineering LLC
	Original Agreement	Design and Bidding Services	\$	32,000.00
		Completed to Date	\$	-
		Percent Complete		0.0%
WRA Ingersoll Run Outlet, Phase 28, Segment 1 Archaeology Services	(WR088)	Consultant		Wapsi Valley Archaeology
	Original Agreement	Archaeology Services	\$	2,901,147.44
		Completed to Date	\$	10,802.94
		Percent Complete		0.4%
WRA Joint & Common Trunk Sewer Improvement	(WR135)	Consultant		Snyder & Associates
	Original Agreement	Design Phase Services	\$	2,476,713.30
		Completed to Date	\$	-
		Percent Complete		0.0%
WRF Wsate Activated Sludge Thickening Improvement	(WR137)	Consultant		HR Green
	Original Agreement	Design and Bidding Phase Services	\$	252,600.00
		Completed to Date	\$	-
		Percent Complete		0.0%