

**MINUTES OF THE
ENVIRONMENTAL PROTECTION COMMISSION
MEETING**

December 15, 2020

Video and Teleconference

Approved by the Commission January 20, 2021

RECORD COPY

File Name Admin 01-05

Sender's Initials jzs

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Meeting Minutes

CALL TO ORDER

The meeting of the Environmental Protection Commission (Commission or EPC) was called to order by Chairperson Ralph Lents at 9:30 a.m. on December 15, 2020 via video and teleconference. A verbal roll call was conducted for Commissioners, DNR staff, and members of the public. Jerah Sheets, Board Administrator, provided a tutorial of the Google Meet features.

COMMISSIONERS PRESENT

Rebecca Dostal
Stephanie Dykshorn
Amy Echard
Rebecca Guinn
Howard Hill
Harold Hommes
Ralph Lents
Bob Sinclair

COMMISSIONERS ABSENT

Lisa Gochenour

Tamara McIntosh, DNR General Counsel, stated that the Commission is hosting this meeting via teleconference consistent with Iowa Code section 21.8, which authorizes electronic meetings when meeting in person is impossible or impractical. The impractical standard was satisfied due to COVID-19-based medical directives to physically distance.

OFFICIAL MEETINGS OPEN TO PUBLIC (OPEN MEETINGS), § 21.8

Electronic meetings. 1. A governmental body may conduct a meeting by electronic means only in circumstances where such a meeting in person is impossible or impractical and only if the governmental body complies with all of the following: a. The governmental body provides public access to the conversation of the meeting to the extent reasonably possible. b. The governmental body complies with section 21.4. For the purpose of this paragraph, the place of the meeting is the place from which the communication originates or where public access is provided to the conversation. c. Minutes are kept of the meeting. The minutes shall include a statement explaining why a meeting in person was impossible or impractical. 2. A meeting conducted in compliance with this section shall not be considered in violation of this chapter. 3. A meeting by electronic means may be conducted without complying with paragraph "a" of subsection 1 if conducted in accordance with all of the requirements for a closed session contained in section 21.5.

APPROVAL OF AGENDA

Motion was made by Amy Echard to approve the agenda as presented. Seconded by Bob Sinclair. The Chairperson asked for the Commissioners to approve the agenda by saying aye. There were no nay votes. Motion passes.

AGENDA APPROVED AS PRESENTED

APPROVAL OF MINUTES

Motion was made by Howard Hill to approve the November 17, 2020 EPC minutes as presented. Seconded by Amy Echard.

Bob Sinclair-aye, Lisa Gochenour-absent, Howard Hill-aye, Rebecca Guinn-aye, Stephanie Dykshorn-aye, Amy Echard-aye, Harold Hommes-aye, Rebecca Dostal-aye, and Ralph Lents-aye.

Motion passes.

APPROVED AS PRESENTED

MONTHLY REPORTS

- Division Administrator Ed Tormey wished the Commission and their families a safe and happy holiday. Jim Gulliford, EPA Region 7 Regional Administrator and former Iowa Department of Agriculture and Land Stewardship employee, announced his upcoming retirement in January 2021. The DNR is currently accepting public comments on the 303(d) list (referenced often as the “impaired waters list”). DNR anticipates presenting on the list during the January 2021 Joint NRC and EPC meeting.
- The monthly reports have been posted on the DNR’s website under the appropriate meeting month: <http://www.iowadnr.gov/About-DNR/Boards-Commissions>

INFORMATION

DIRECTOR’S REMARKS

- Director Kayla Lyon shared with the Commission a summary of the recent EPA/Four States meeting at which the Director noted that staff continue to effectively telework while maintaining, and in some instances improving, turnaround times, among other success metrics. At this time the DNR does not have a sense of urgency to return team members to the office. The legislative session will begin in January and the DNR does not have any proposed legislative bills.

INFORMATION

CLEAN WATER AND DRINKING WATER STATE REVOLVING LOAN FUND (SRF) – FY 2021 INTENDED USE PLAN THIRD QUARTER UPDATE

Theresa Enright presented the updated Intended Use Plan of the SRF program. She shared that the program reviews each loan’s interest rate after 10 years and adjusts the interest rate down to the lowest available for the remainder of the loan period.

Public Comments – None

Written Comments – None

Motion was made by Bob Sinclair to approve the agenda item as presented. Seconded by Amy Echard.

Bob Sinclair-aye, Lisa Gochenour-absent, Howard Hill-aye, Rebecca Guinn-aye, Stephanie Dykshorn-aye, Amy Echard-aye, Harold Hommes-aye, Rebecca Dostal-aye, and Ralph Lents-aye.

Motion passes.

APPROVED AS PRESENTED

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) PROGRAM FISCAL YEAR 2020 ANNUAL REPORT

Laurie Rasmus presented an overview of the EMS program. She discussed a few examples of recently-completed grant projects and summarized a few active grants too. She also provided a summary of how waste disposal agencies accept recyclable materials and discussed the secondary markets that exist for them. She provided a summary of the differences between the required Comprehensive Solid Waste Management Plan and voluntary EMS program.

Public Comments – None**Written Comments – None****INFORMATION****CONTRACT WITH THE UNIVERSITY OF IOWA**

Roger Bruner presented a contract for water monitoring. He provided a visual map of the different aquifers in Iowa and a summary of how water recharges the aquifers.

Public Comments – None**Written Comments – None**

Motion was made by Bob Sinclair to approve the agenda item as presented. Seconded by Stephanie Dykshorn.

Bob Sinclair-aye, Lisa Gochenour-absent, Howard Hill-aye, Rebecca Guinn-aye, Stephanie Dykshorn-aye, Amy Echard-aye, Harold Hommes-aye, Rebecca Dostal-aye, and Ralph Lents-aye.

Motion passes.

APPROVED AS PRESENTED**CONTRACT WITH IOWA STATE UNIVERSITY**

Roger Bruner presented a contract for water monitoring. He provided a summary of the various laboratories that address different water quality monitoring efforts.

Public Comments – None**Written Comments – None**

Motion was made by Howard Hill to approve the agenda item as presented. Seconded by Bob Sinclair.

Bob Sinclair-aye, Lisa Gochenour-absent, Howard Hill-aye, Rebecca Guinn-aye, Stephanie Dykshorn-aye, Amy Echard-aye, Harold Hommes-aye, Rebecca Dostal-aye, and Ralph Lents-aye.

Motion passes.

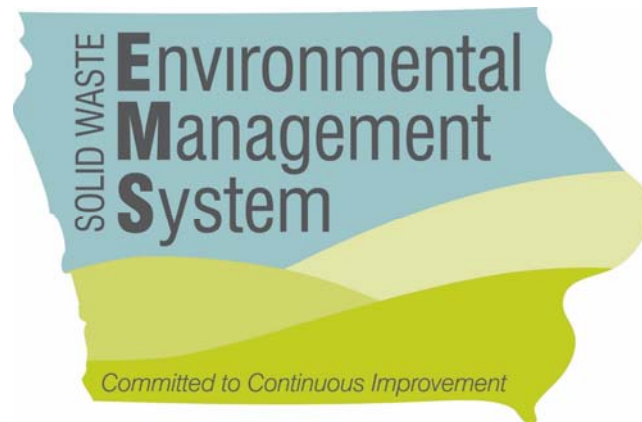
APPROVED AS PRESENTED**GENERAL DISCUSSION**

- Roger Bruner summarized public comments submitted thus far for the draft 2020 303(d) list.
- Jerah Sheets announced the visual presentations from the meeting would be added to the EPC website with the meeting agenda and packet.
- Jerah Sheets provided a summary of the logistics for the upcoming January Joint NRC and EPC meeting along with the EPC business meeting.

ADJOURN

Chairperson Lents thanked the Commission and DNR for their efforts. The Chairperson adjourned the Environmental Protection Commission video and teleconference meeting at 10:30 a.m. on December 15, 2020.

ADJOURNED



FY2020 Annual Report
Environmental Protection Commission
December 15, 2020

1

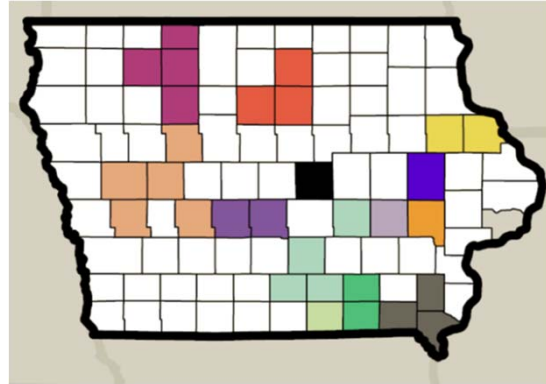


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EMS Participants - Current

- Cedar Rapids Linn Solid Waste Agency
- Dubuque Metropol. Area Solid Waste Agency
- Great River Regional Waste Authority
- Iowa City Landfill & Recycling Center
- Iowa County Reg. Env. Improvement Comm.
- Landfill of North Iowa
- Metro Waste Authority
- Northern Plains Regional Planning Area
- Ottumwa/Wapello County Solid Waste Comm.
- Rathbun Area Solid Waste Management Comm.
- Solid Waste Management Comm. of Marshall County
- South Central Iowa Solid Waste Agency
- Waste Commission of Scott County
- West Central Iowa Solid Waste Management Assoc.

(2009 Pilot Program participants noted in blue)



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DNR IOWA DEPARTMENT OF
NATURAL RESOURCES

SOLID WASTE Environmental
Management
System
Committed to Continuous Improvement

4



Grant Projects that Concluded in FY2020

Grant	EMS	Project	DNR	Match	Total
18 G550 01	CRLCSWA	Energy efficient semi tractor	\$24,999	\$43,901	\$68,900
18 G550 02	Iowa City	High dump bucket/pad/promo	\$12,866	\$4,289	\$17,154
18 G550 05	MWA	Skid steer/grapple	\$24,999	\$29,387	\$54,386
18 G550 06	RASWC	Grant program	\$24,973	\$20,939	\$45,913
18 G550 07	REIC (IA Co)	Recycling building	\$39,514	\$13,172	\$52,687
18 G550 08	SCISWA	Solar powered landfill gas flare	\$24,324	\$8,993	\$33,318
18 G550 09	WCISWMA	LED sign/Recycling trailer	\$21,913	\$7,304	\$29,217
18 G550 10	WCSC	LED retrofit/silt Fence Installer	\$23,160	\$10,772	\$33,932
18 G550 12	RASWC	Centerville LED retrofit	\$32,455	\$31,106	\$63,561
19 G550 22	DMASWA	Web update, pilot marketing proj.	\$23,324	\$6,043	\$29,367
Total for Grants Closed in FY2020			\$252,527	\$175,907	\$428,434

Grant Project that Concluded in FY2020

Project: Skid-loader for recycling cardboard

EMS: Metro Waste Authority

Impact: **Increased diversion** of cardboard by more than 3-fold.
Reduced loads from transfer station to landfill by 16%.



18-G550-05EMS

DNR Award	\$24,999
Contractor Match	\$29,387
Project Total Cost	\$54,386



Grant Project that Concluded in FY2020

Project: Solar powered landfill gas flare

EMS: South Central Iowa Solid Waste Agency

Impact: **Reduced emissions** by destroying 22.8 tonnes of methane in 4 weeks.
Knowledge transfer to 59 Central College students who gathered data and participated as partners on the project.



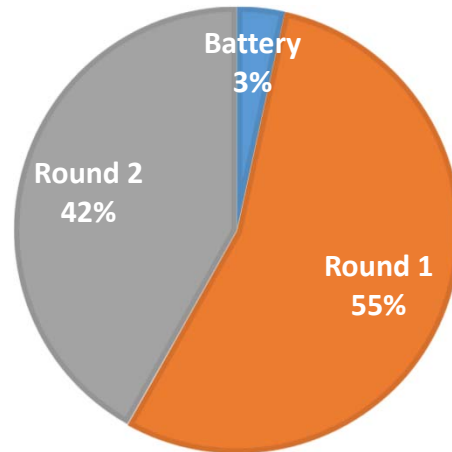
18-G550-08EMS

DNR Award	\$24,324
Contractor Match	\$8,993
Project Total Cost	\$33,318

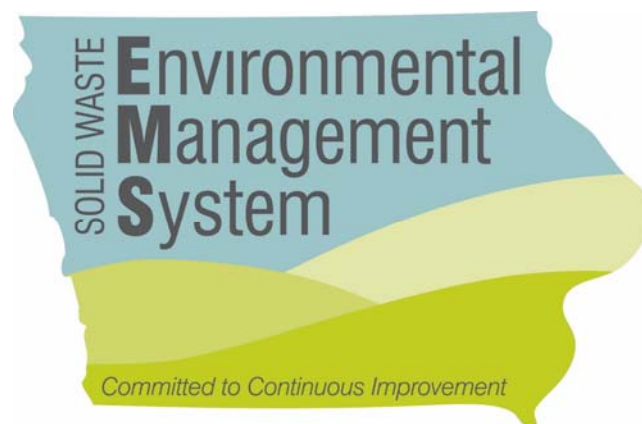


FY2020 Grant Awards = \$290,526 (63.6% of Total Project Costs)

- Take Charge Battery Campaign
 - Maximum financial assistance \$3,500
 - 4 awards, totaling \$10,011
- Round 1 – Fall 2019
 - Maximum financial assistance \$24,999
 - Non-competitive
 - 9 awards, totaling \$158,985
- Round 2 – Spring 2020
 - No limit on amount requested (within available funds)
 - Competitive
 - 3 awards, totaling \$121,530



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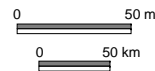
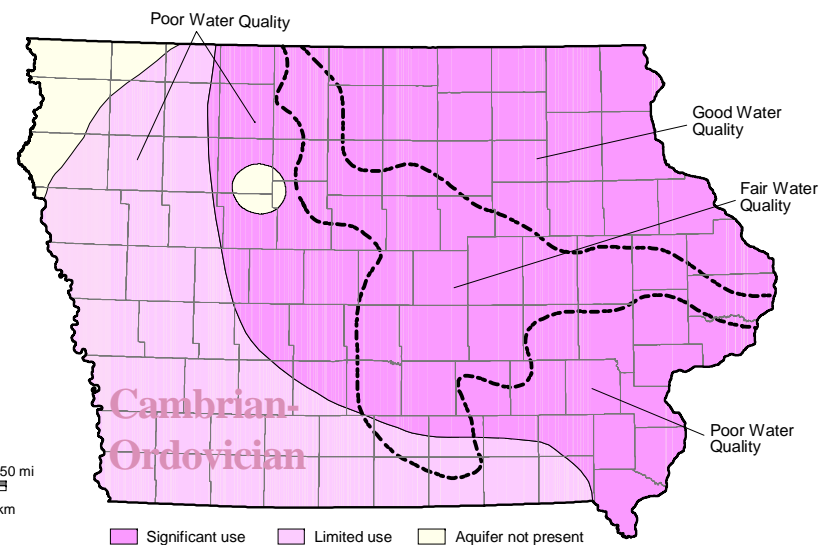
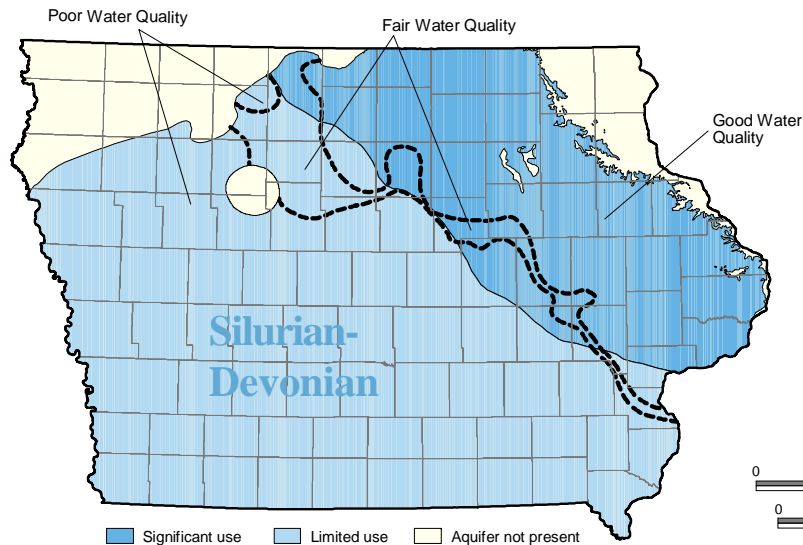
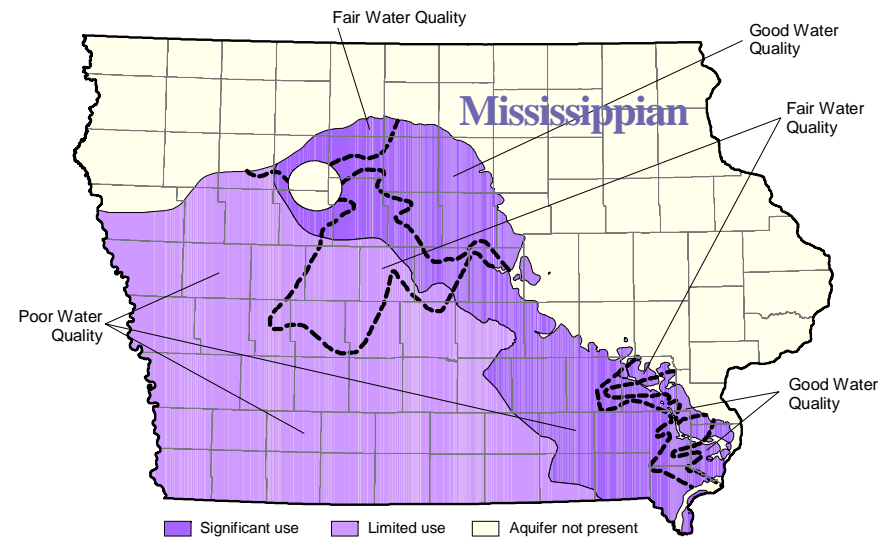
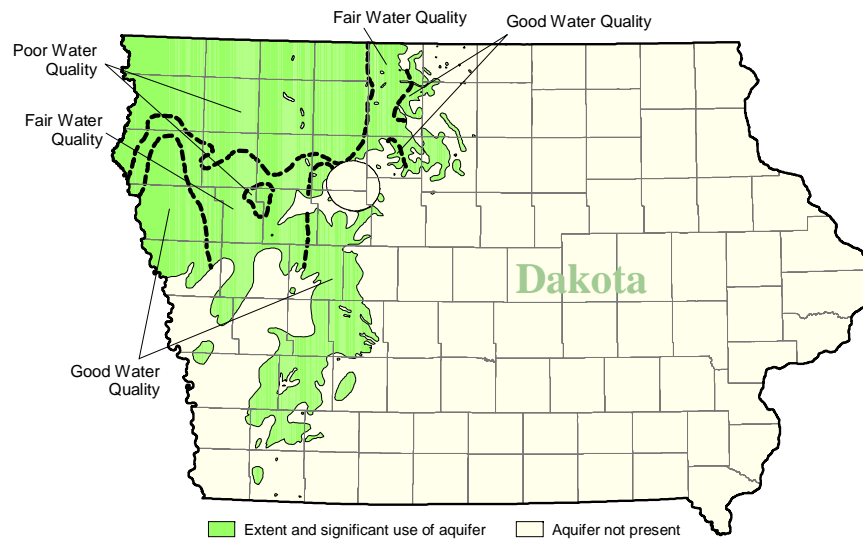


<https://www.iowadnr.gov/Environmental-Protection/Land-Quality/Waste-Planning-Recycling/Solid-Waste-EMS>

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BEDROCK AQUIFERS OF IOWA

2004



Water Quality Regions based on Total Dissolved Solids: Good = < 500 mg/L; Fair = 500 - 1,000 mg/L; Poor = >1,000 mg/L



Iowa Department of Natural Resources
Geological Survey • 109 Trowbridge Hall • Iowa City, Iowa 52242-1319

BEDROCK AQUIFERS

Bedrock aquifers occur in sedimentary rock layers composed of limestone and dolomite (carbonate rocks) and sandstone, which originated as deposits in seas and rivers that occupied Iowa from 75 to 550 million years ago (Cretaceous to Cambrian age). Total thickness of these rocks ranges from 5,200 feet in southwest Iowa to about 800 feet in northeast Iowa.

Of the state's sedimentary rocks, sandstones and carbonates make the best aquifers, as they can store and transmit water easily. Sandstones have interconnected spaces between sand grains, allowing groundwater to move through the rock. However, mineral cement can diminish a sandstone's ability to transmit water. Carbonate rocks are finer grained, and groundwater flows through vertical fractures and thin partings that separate rock layers. The dissolving action of groundwater enlarges the openings to crevices or caves. Dissolution of fossils and fracturing also adds to openings in rocks.

Aquifers below the Cretaceous-age Dakota gradually slope to the southwest, so that aquifer depth increases in southwestern Iowa. The region of greatest use of an aquifer coincides with the area where it is at or near the land surface. This is where the aquifer receives the fastest recharge and has a better natural water quality. Where aquifers are deeper, the water has been in contact with minerals longer, making the natural water quality poorer.

The **Dakota aquifer**, composed of riverine sandstone deposits 200 to 300 feet thick, generally yields 100 to 500 gallons per minute (gpm) of fair to poor quality water. The aquifer is confined by 200 to 400 feet of glacial till and younger Cretaceous-age strata. Recharge is by downward percolation through confining units. Regional flow in the Dakota is from north to south and it discharges to the lower reaches of major rivers in western Iowa.

The **Mississippian aquifer** consists of limestone and dolomite, with thinner deposits of sandstone and gypsum. It is used mainly in north-central Iowa where water quality is generally good, and produces much smaller yields of

poorer quality water in central and southeastern Iowa. Along the outcrop belt, it is overlain by alluvium, loess, and glacial drift and elsewhere is overlain by Pennsylvanian-age shales and sandstones. Regional flow in the aquifer is southerly, and it discharges into the Des Moines and Skunk rivers.

The **Silurian-Devonian aquifer** is mainly Silurian dolomites and Devonian limestones, which have similar hydrogeologic properties and are hydraulically connected. In eastern and northern Iowa, the aquifer is 200 to 400 feet thick and yields 150 to 400 gpm. In some areas, differences in rock types cause the Silurian and Devonian to behave as separate aquifers. The water quality rapidly deteriorates as the aquifer thickens toward the west and southwest. Where the aquifer is deeper, well-developed fractures found in the eastern subcrop area are fewer and yields are smaller. Regional groundwater flow in the aquifer is to the southeast. Discharge from the aquifer towards valleys provides baseflow to many northeastern Iowa streams.

The **Cambrian-Ordovician aquifer** consists of multiple bedrock formations, including (in ascending order) the Jordan Sandstone, the dolomite and sandstone of the Prairie du Chien Group, and the St. Peter Sandstone. High capacity wells typically use the full thickness of the aquifer, while other wells may penetrate only the upper strata. Often called the "Jordan aquifer," much of the groundwater flow also comes from the Prairie du Chien, thus "Cambrian-Ordovician aquifer" is a more accurate name. Well depths range from 300 to 2,000 feet, and yields vary from several hundred to over 1,000 gpm. The best water quality is found in northeast Iowa, nearest the areas of outcrop and recharge. In western and southwestern Iowa, depth to the aquifer increases and dissolved mineral content increases to undesirable levels. The main area of recharge is in southern Minnesota and northern Iowa, via vertical leakage from overlying aquifers. Subsurface flow is to the southeast, with discharge to the Mississippi Valley.

For further information: Iowa's Groundwater Basics by Jean C. Prior and others, 2003, Iowa Dept. of Natural Resources, Iowa Geological Survey Educational Series 6, 83 pages.

Agenda

Environmental Protection Commission

Tuesday, December 15, 2020

Teleconference: (216) 505-9946 and PIN: 208540651#

Video Conference: <https://meet.google.com/rqw-nksu-aak>

Tuesday, December 15, 2020

9:30 AM – EPC Business Meeting

If you are unable to attend the business meeting, comments may be submitted to Jerah Sheets at Jerah.Sheets@dnr.iowa.gov or 502 East 9th St, Des Moines IA 50319 up to one day prior to the business meeting for the public record.

- | | | |
|----|----------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1 | Approval of Agenda | |
| 2 | Approval of the Minutes (Packet Page 3) | |
| 3 | Monthly Reports (Packet Page 8) | Ed Tormey
(Information) |
| 4 | Director's Remarks | Kayla Lyon
(Information) |
| 5 | Clean Water and Drinking Water State Revolving Loan Fund – FY 2021 Intended Use Plan Third Quarter Update (Packet Page 23) | Theresa Enright
(Decision) |
| 6 | Environmental Management System Program Fiscal Year 2020 Annual Report (Packet Page 101) | Laurie Rasmus
(Information) |
| 7 | Contract with THE UNIVERSITY OF IOWA (Packet Page 103) | Roger Bruner
(Decision) |
| 8 | Contract with IOWA STATE UNIVERSITY (Packet Page 112) | Roger Bruner
(Decision) |
| 9 | General Discussion | |
| 10 | Items for Next Month's Meeting | |
| | • Wednesday, January 20, 2021 at 10 AM – NRC & EPC Joint Commission Meeting | |
| | • Wednesday, January 20, 2021 at 1 PM – EPC Business Meeting | |
| | • Tuesday, February 16, 2021 – EPC Business Meeting | |

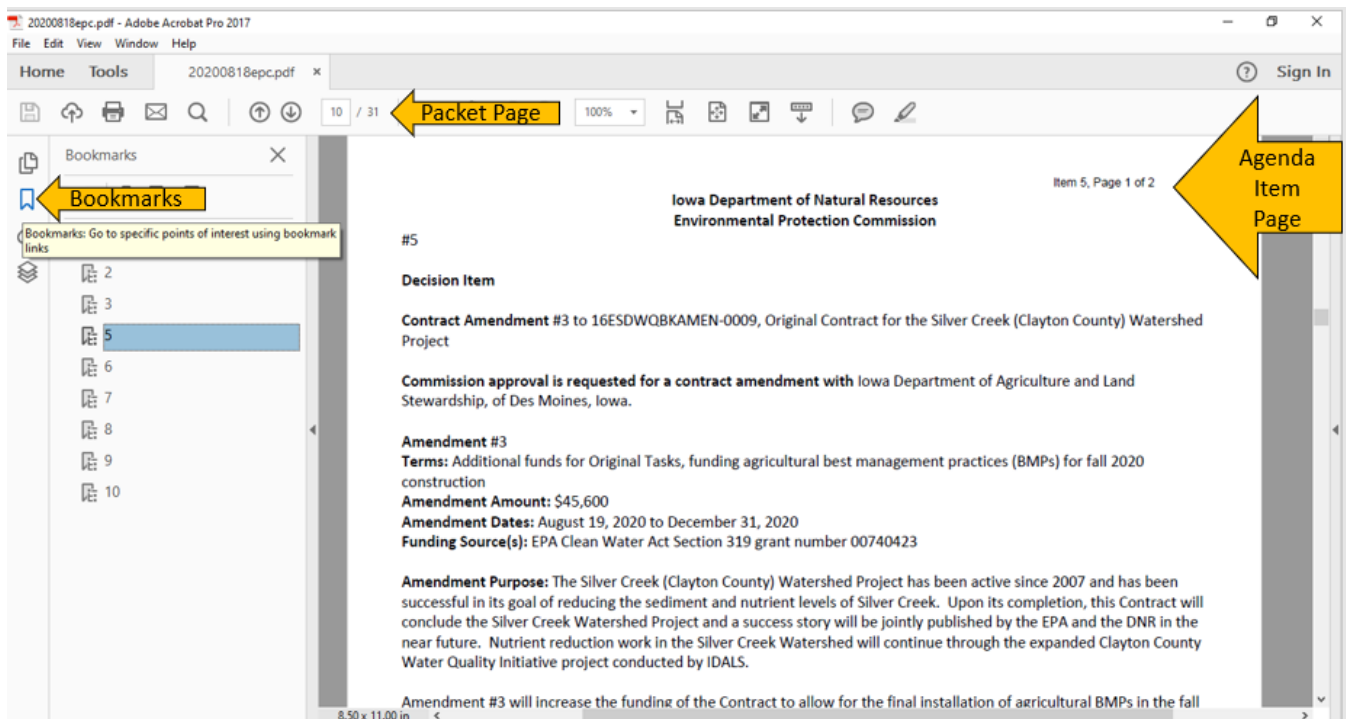
For details on the EPC meeting schedule, visit <http://www.iowadnr.gov/About-DNR/Boards-Commissions>

¹Comments during the public participation period regarding proposed rules or notices of intended action are not included in the official comments for that rule package unless they are submitted as required in the Notice of Intended Action.

Any person attending the public meeting and has special requirements such as those related to mobility or hearing impairments should contact the DNR or ADA Coordinator at 515-725-8200, Relay Iowa TTY Service 800-735-7942, or Webmaster@dnr.iowa.gov, and advise of specific needs.

Utilize bookmarks to transition between agenda items or progress forwards and backwards in the packet page by page with the Packet Page number on the agenda.

The upper right-hand corner will indicate the Agenda Item Number and the page of the agenda item.



**MINUTES OF THE
ENVIRONMENTAL PROTECTION COMMISSION
MEETING**

November 17, 2020

Video and Teleconference

Approved by the Commission **TBD**

RECORD COPY

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Adjourned	4

Meeting Minutes

CALL TO ORDER

The meeting of the Environmental Protection Commission (Commission or EPC) was called to order by Chairperson Ralph Lents at 9:30 a.m. on November 17, 2020 via video and teleconference. A verbal roll call was conducted for Commissioners, DNR staff, and members of the public. Jerah Sheets, Board Administrator, provided a tutorial of the Google Meet features.

COMMISSIONERS PRESENT

Rebecca Dostal
Stephanie Dykshorn
Amy Echard (audio difficulties were experienced during roll call but fixed for the remainder of the meeting)
Lisa Gochenour
Rebecca Guinn
Howard Hill
Harold Hommes
Ralph Lents
Bob Sinclair

COMMISSIONERS ABSENT

None

Tamara McIntosh, DNR General Counsel, stated that the Commission is hosting this meeting via teleconference consistent with Iowa Code section 21.8, which authorizes electronic meetings when meeting in person is impossible or impractical. The impractical standard was satisfied due to COVID-19-based medical directives to physically distance.

OFFICIAL MEETINGS OPEN TO PUBLIC (OPEN MEETINGS), § 21.8

Electronic meetings. 1. A governmental body may conduct a meeting by electronic means only in circumstances where such a meeting in person is impossible or impractical and only if the governmental body complies with all of the following: a. The governmental body provides public access to the conversation of the meeting to the extent reasonably possible. b. The governmental body complies with section 21.4. For the purpose of this paragraph, the place of the meeting is the place from which the communication originates or where public access is provided to the conversation. c. Minutes are kept of the meeting. The minutes shall include a statement explaining why a meeting in person was impossible or impractical. 2. A meeting conducted in compliance with this section shall not be considered in violation of this chapter. 3. A meeting by electronic means may be conducted without complying with paragraph "a" of subsection 1 if conducted in accordance with all of the requirements for a closed session contained in section 21.5.

APPROVAL OF AGENDA

Motion was made by Stephanie Dykshorn to approve the agenda as presented. Seconded by Amy Echard. The Chairperson asked for the Commissioners to approve the agenda by saying aye. There were no nay votes. Motion passes.

AGENDA APPROVED AS PRESENTED

APPROVAL OF MINUTES

Motion was made by Lisa Gochenour to approve the October 20, 2020 EPC minutes as presented. Seconded by Bob Sinclair.

Bob Sinclair-aye, Lisa Gochenour-aye, Howard Hill-aye, Rebecca Guinn-aye, Stephanie Dykshorn-aye, Amy Echard-aye, Harold Hommes-aye, Rebecca Dostal-aye, and Ralph Lents-aye.

Motion passes.

APPROVED AS PRESENTED

MONTHLY REPORTS

- Division Administrator Ed Tormey wished the Commission and their families a safe and happy holiday break. The past year has not been a normal year, with storm damages from a derecho, continued 2019 flood recovery efforts, COVID-19 distancing and remote work, drought impacts, and more. Nonetheless, the agency has been able to meet the majority of its commitments to the Environmental Protection Agency (EPA). The few commitments that are off schedule have a catch-up plan. Inspections continue following the state's COVID-19 safety guidelines and any applicable facility policies and procedures. Commissioner Hill commented on a recent facility inspection he participated in. He noted that the inspectors were conscientious of the site owner's safety policies and they followed all the appropriate safety guidelines.
- The monthly reports have been posted on the DNR's website under the appropriate meeting month: <http://www.iowadnr.gov/About-DNR/Boards-Commissions>

INFORMATION

DIRECTOR'S REMARKS

- Director Kayla Lyon shared with the Commission an update on COVID-19 related processes and protocols at the various DNR offices across the state. The Director summarized two educational tours with the Governor that highlighted wildlife habitat, water quality, and associated partnerships. The Director provided an update on derecho storm damage across the state, efforts for tree risk surveys, donations of trees for planting, and other education and outreach efforts. The Director and Governor participated in the Governor's Pheasant Hunt, which adhered to social distancing protocols.

INFORMATION

NOTICE OF INTENDED ACTION/ADOPTED AND FILED – CHAPTER 134 UNDERGROUND STORAGE TANK LICENSING AND CERTIFICATION PROGRAMS, CHAPTER 135 TECHNICAL STANDARDS AND CORRECTIVE ACTION REQUIREMENTS FOR OWNERS AND OPERATORS OF UNDERGROUND STORAGE TANKS, AND CHAPTER 136 FINANCIAL RESPONSIBILITY FOR UNDERGROUND STORAGE TANKS

James Gastineau requested approval of the Notice of Intended Action to amend 567 Iowa Administrative Code (IAC) chapters 134, 135, and 136. Elaine Douskey shared with the Commission a summary of the rule chapters that are subject to EPA review and those that are not. Additionally, she explained the waiver process available to companies seeking limited exemptions from or modifications to the rules.

Public Comments

Todd Ferguson – Expressed concern with the two-year requirement for certain certifications.

Written Comments – None

Motion was made by Bob Sinclair to approve the agenda item as presented. Seconded by Howard Hill.

Bob Sinclair-aye, Lisa Gochenour-aye, Howard Hill-aye, Rebecca Guinn-aye, Stephanie Dykshorn-aye, Amy Echard-aye, Harold Hommes-aye, Rebecca Dostal-aye, and Ralph Lents-aye.
Motion passes.

APPROVED AS PRESENTED

CONTRACT AMENDMENT WITH ENFOTECH & CONSULTING, INC.

Wendy Walker presented a contract to extend maintenance and support services for the Iowa Environmental Application System (EASY Air). Catharine Fitzsimmons and Jim McGraw summarized the contracting process with soliciting vendors and negotiating prices to receive a valuable service.

Public Comments – None

Written Comments – None

Motion was made by Harold Hommes to approve the agenda item as presented. Seconded by Stephanie Dykshorn.

Bob Sinclair-aye, Lisa Gochenour-aye, Howard Hill-aye, Rebecca Guinn-aye, Stephanie Dykshorn-aye, Amy Echard-aye, Harold Hommes-aye, Rebecca Dostal-aye, and Ralph Lents-aye.

Motion passes.

APPROVED AS PRESENTED

2021 EPC MEETINGS

Jerah Sheets presented EPC meeting dates for the 2021 calendar.

Public Comments – None

Written Comments – None

Motion was made by Bob Sinclair to approve the agenda item as presented. Seconded by Lisa Gochenour.

Bob Sinclair-aye, Lisa Gochenour-aye, Howard Hill-aye, Rebecca Guinn-aye, Stephanie Dykshorn-aye, Amy Echard-aye, Harold Hommes-aye, Rebecca Dostal-aye, and Ralph Lents-aye.

Motion passes.

APPROVED AS PRESENTED

GENERAL DISCUSSION

- Jerah Sheets provided a summary of the upcoming December business meeting.

ADJOURN

Chairperson Lents thanked the Commission and DNR for their efforts.

Motion was made by Harold Hommes to adjourn. Seconded by Amy Echard.

The Chairperson asked for the Commissioners to adjourn by saying aye. There were no nay votes.

Motion passes.

The Environmental Protection Commission video and teleconference meeting adjourned at 10:30 a.m. on November 17, 2020.

ADJOURNED

**Monthly Waiver Report
November 2020**

Item #	DNR Reviewer	Facility/City	Program	Subject	Decision	Date	Agency
1	Michael Hermesen	Integrated Technologies	DNA Air Quality Construction Permit	Waiver of Initial Stack Test Requirement.	Approved	10.26.20	20aqv213
2	Terry Kirschenman	Pleasantville	CP	The City is proposing to employ diffusers in a design with two tanks for aerobic sludge digestion that cannot be removed without dewatering the tank.	Approved	10.28.20	20cpv214
3	Sara Smith	City of Iowa City	Water Supply Construction (WC)	Where the water main (WM) crosses 18" under existing storm sewer (STS), instead of replacing the STS with WM material, construct the WM with ductile iron (DI) and nitrile gaskets, 10 feet each side of the crossing.	Approved	10.23.20	20wcv215
4	John Curtin	Hillphoenix Specialty Products	Air Quality Construction Permit	Waiver of Initial Stack Test Requirement for a paint spray booth	Approved	11.2.20	20aqv216
5	Danjin Zulic	Tama Paperboard, LLC	Air Quality Construction Permit	Waiver of Initial Stack Test Requirement.	Approved	11.2.20	20aqv217
6	Karen Kuhn	Cobham Mission Systems	Air Quality Construction Permit	Waiver of Initial Stack Test Requirement.	Approved	11.4.20	20aqv218
7	Danjin Zulic	Hearth & Home Technologies, Inc.	Air Quality Construction Permit	Waiver of Initial Stack Test Requirement.	Approved	11.4.20	20aqv219
8	Julie Duke	CJ Bio America	AQ	Request to increase production rate prior to permit issuance	Approved	10.29.20	20aqv220
9	Julie Duke	NuStar Pipeline –Rock Rapids Terminal	AQ	Request to replace the primary seal in Internal Floating Roof Tank 3-1 prior to issuance of construction permit project 20-287.	Approved	10.20.20	20aqv221
10	Julie Duke	Valero Renewable Fuels	AQ	Request to begin construction of project 20-311and begin these operations prior to permit issuance.	Approved	11.5.20	20aqv222
11	Ashley Dvorak	Cemstone Concrete Materials - Sac City	Air Quality Construction Permit	Waiver of Initial Stack Test Requirement.	Approved	11.13.20	20aqv223

12	Robert Campbell	Spook Cave and Campground	Water Supply Construction (WC)	Request to vary from the requirement that a minimum 100 feet of separation from a septic tank, 200 feet of separation from a soli absorption field, and sewer of water main material between 25 and 75 feet to an existing well.	Approved	11.10.20	20wqv224
13	Matt Phoenix	WEST DES MOINES WATER WORKS	Water Supply Construction (WC)	A variance from requirements to construct conflicting storm sewers of water main material where sewer/water main separations cannot be obtained by instead constructing the water main of DIP w/ nitrile gaskets.	Approved	11.17.20	20wqv225
14	Matt Phoenix	WAUKEE WATER SUPPLY	Water Supply Construction (WC)	Convert an existing well to an Aquifer Storage and Recovery (ASR) well even though the well is located less than the required 200' from a cemetery.	Approved	11.12.20	20wqv226
15	Eric Wiklund	Delta Treatment Systems	NPDES	Delta requests that a blanket waiver to the requirements in 69.14(1) and 69.14(5) be applied across the state. This would allow all alternative treatment units (ATUs) to be installed without tertiary treatment.	Denied	11/18/20	20npv227
16	Thabit H. Hamoud	City of Ames-Steam Electric Plant	CP(Wastewater)	City of Ames-Steam Electric Plant is requesting a variance from the Iowa Wastewater Facilities Design Standards, Chapter 18C, regarding an influent structure installed prior to the entrance of the influent line into the pond.	Approved	11.9.20	20cpv228
17	Karen Lodden	Denison Municipal Utilities STP	CP(Wastewater)	Denison Municipal Utilities STP requests that proposed permit monitoring frequencies be reduced to current permit levels in order to keep laboratory staff and operational costs down.	Approved	11.20.20	20cpv229

18	Tara Naber	City of Le Mars	WC - Water Supply Construction	Locate power transformer containing oil 50 feet from water supply well, with use of spill containment system. Standards require above ground chemical storage to be located 100 feet away from water supply wells. Project W2012-0107, PWSID IA7450174.	Approved	11.20.20	20wcv230
19	Tara Naber	Rockwell City Water Supply	WC - Water Supply Construction	Request to conduct bacteria sampling of new water main every mile instead of every 1,200 feet, with the addition of a chlorine residual monitoring protocol and other protective measures for project W2018-0672 / permit 2019-0533W, PWSID IA 1376098.	Approved	11.3.20	20wcv231

**IOWA DEPARTMENT OF NATURAL RESOURCES
LEGAL SERVICES BUREAU**

DATE: December 2020
TO: Environmental Protection Commission
FROM: Tamara McIntosh
SUBJECT: Attorney General Referrals (August 25, 2020 – November 25, 2020)

Name, Location and Region Number	Program	Alleged Violation	DNR Action	Status	Date
Abatement Specialties, LLC Cedar Rapids (1)	Air Quality	Asbestos	Referred to Attorney General	Referred Petition Filed Discovery Requests Served on AS Settlement Agreement to enter into Consent Decree	2/16/16 7/18/19 10/16/19 8/5/20
City of Sioux City (3)	Wastewater		Referred to Attorney General	Referred	6/27/16
61 Park LLC Muscatine (6)	Wastewater Solid Waste	NPDES violations; Open Dumping	Referred to Attorney General	Referred	3/20/18
JB2 and Phoenix Newton (5)	Air Quality	Asbestos	Referred to Attorney General	Referred Petition Filed JB2 Services, JB2 Environmental, and Robert Peret served Consent Decree w/Phoenix Approved-\$75,000 civil penalty & Injunctive relief Answer filed by Robert Peret Application for Default filed against JB2 and JB2 Env. Default granted against JB2 and JB2 Env. Motion for Judgment on Default against JB2 and JB2 Env. Order for Judgment against JB2 and JB2 Env. (\$150,000 civil penalty; injunctive relief) Trial Sched Conf. w/Peret-continued; rescheduled	2/19/19 4/6/20 4/15/20 4/17/20 5/20/20 5/20/20 5/21/20 5/22/20 5/22/20 7/7/20 12/8/20
Steven Kerns Clearfield (4)	Animal Feeding Operation	Manure release; Composting dead animals	Referred to Attorney General	Referred Tolling Agreement through August 17, 2020 Consent Decree Approved - \$23,000 penalty and injunctive relief to be repaid over 2 years	10/15/19 9/4/20
John Goldsmith Sergeant Bluff (3)	Solid Waste	Open Burning; Open Dumping	Referred to Attorney General	Referred Petition Filed Defendant out of state/unable to be served Voluntary Motion to Dismiss by Plaintiff – to wait until Defendant returns Petition Filed	10/16/18 1/31/19 2/19/19 3/15/19 3/4/20

				Motion for Judgment on Default Granted Motion to Set Aside Judgment Hearing on Motion Default Judgment Set Aside Trial set for March 31, 2020	4/22/20 5/12/20 6/1/20
JDog and Justin Pollard Cambridge (5)	Solid Waste	Open Dumping; Open Burning	Referred to Attorney General	Referred Petition Filed Answer Court Ordered Stay due to Pollard filing for bankruptcy	6/16/20 10/1/20 10/14/20 11/3/20
Iowa Grocery Industry Association Des Moines (5)	Land Quality	Petition for Judicial Review Bottle/Can Redemption Rules	DNR Named Respondent	Petition Filed Answer Filed	10/27/20 11/09/20

**IOWA DEPARTMENT OF NATURAL RESOURCES
LEGAL SERVICES BUREAU**

DATE: December 2020
TO: Environmental Protection Commission
FROM: Tamara McIntosh
SUBJECT: Contested Cases (August 25, 2020 – November 25, 2020)

Date Received	Name Of Case	Action Appealed	Program	Assigned Attorney	Status
6/10/13	Mike Jahnke	Dam Application	FP	Schoenebaum	<p>Hearing held 7/30/14. ALJ upheld the permit issued by the Department. Mr. Jahnke appealed but on 11/3/14 he asked that his appeal be put on hold until April, 2015. For various reasons has asked that the appeal be postponed. Sept. 2017 – Mr. Jahnke called and asked that his appeal be put on hold until Spring 2018. September 2018 Mr. Jahnke called and asked that the matter be postponed to Spring '19. Jan. 2019 no changes, matter was postponed to Spring 2019.</p> <p>April 2019 – no change; matter postponed to Spring 2019.</p> <p>July 2019 – No changes.</p> <p>10/25/19 – Mr Jahnke has called many times to discuss his ongoing medical problems and his families' each time he asks for the matter not to be placed on the agenda and asks for a delay. He again asked for a delay until Spring.</p> <p>1/24/20 – Mr. Jahnke called again and explain ongoing medical problems and that he cannot be present for a winter meeting and asked that the matter continue to be delayed.</p> <p>5/25/20 – No changes</p> <p>11/18/20 – no changes</p>
6/27/16	Plum River Fault Line Golf Inc.; Meadowcrest Farms, Ltd.	Order/Penalty	WS	Schoenebaum	<p>Assigned to new attorney. negotiating. August 2017 - Settlement offers mailed. April 2018 – Dept sent an updated settlement offer. 1/24/20 – No changes since July 2019 (7/19 and 10/25/19)</p> <p>5/25/20 – No changes</p> <p>11/18/20 – No Changes (new referral forthcoming)</p>

4/27/16	City of Waterloo	Permit Issuance	WW	Poppelreiter (Crotty)	<p>Disputed permit limits were stayed on 5/18/16. DNR and city have agreed to delay setting a hearing while city completes facility improvements. Improvements expected to be completed 9/18. Then will re-evaluate if hearing is needed. DNR has agreed to postpone setting a hearing date until Waterloo has completed facility repairs which it believes will resolve the appeal. Repairs are expected to be complete by Spring 2019. Jan. 2019 - DNR agreed to postpone setting a hearing date .April 2019 – Facility repairs are complete, facility will evaluate efficacy of repairs in summer 2019, with a new permit to be issued. 10/25/19 – City completed repairs and conducted hydrological testing. Internal DNR review of the testing will result. Will discuss with Waterloo’s attorney after DNR review. 1/24/20 – Meeting between DNR and the City scheduled for February 4, 2020 to discuss their progress. 5/25/20 – No Changes</p> <p>11/18/2020 - Ongoing negotiations with the City. Hearing is set for January 11. However, after excellent discussions with the City/Mayor, anticipation is for the case to settle.</p>
11/9/17	IA Regional Utilities Association	Permit Issuance	WW	Poppelreiter (Crotty)	<p>10/25/18 –Negotiating before setting a hearing date. A final meeting with facility’s new director is expected before the end of 2018.</p> <p>01/24/19 –Negotiating before setting a hearing date. Meeting with permittee 1/24/19. Permittee must discuss options with Board. Decision from Permittee on whether to withdraw appeal or move forward with hearing is expected in Spring 2019. April 2019 – Waiting on permittee to decide whether to set a hearing or withdraw appeal. 10/25/19 – Permittee and DNR still in negotiations re: engineering proposals at the facility. No change in the appeal status. 1/24/20 – Finalizing the report on the progress they have made and will meet with DNR’s Wastewater staff in February to discuss settlement options.</p>

					<p>5/25/20 – No Changes</p> <p>11/18/2020 - Ongoing negotiations with IRUA. No hearing set as yet. Looking into alternative solutions.</p>
4/16/18	Global Masters Investments LLC dba Johnson's Dry Cleaners	Order/Penalty	AQ	Book	<p>10/25/18 Settlement negotiations still taking place. Jan. 2019 Continued negotiations. April 2019 – Continued negotiations (entity is out of country). July 2019 – Entity no longer operates the facility and does not live in the country. Attorney working on a settlement. 10/25/19 - Settlement offer sent to former responsible party August 2019, awaiting response. 1/24/20 – No change, unable to locate responsible party. 5/25/20 - No change, unable to locate responsible party. 8/21/20 – No change, unable to locate responsible party.</p> <p>11/17/20 – Order rescinded 8/25/20 because of inability to locate party and closure of business. Entry will be removed on next update.</p>
7/1/19	Vitalix Inc	Order/Penalty	WW	Poppelreiter	<p>July 2019 – Currently informal negotiations with Vitalix's attorney. Agreed to an arbitrary deadline of September 1 to conclude negotiations, after which will set for hearing. 10/25/19 – Opened a second referral against Vitalix for the same facility, also for wastewater discharges. Appeal on hold pending Vitalix's review of both cases. 1/24/20 – Reopened negotiations due to a second case against them. Negotiations have stalled and both cases will proceed as soon as the unilateral order for the second case is finalized. 5/25/20 – No Changes</p> <p>11/18/2020 - Case settled</p>

7/12/19	Carl DeJoode	Order/Penalty	SW	Scott	<p>July 2019 – Settlement negotiations commenced. Parties will reassess property on or about August 30 to determine if hearing is necessary or if Order can be rescinded due to substantial compliance. 10/25/19 – Contested case hearing set for 12/6/19. 1/24/20 – Hearing occurred 12/6/19. Post-hearing completed – awaiting proposed decision.</p> <p>5/25/20 – Proposed Decision upholding DNR Order received January 22, 2020. Further action has been delayed due to complications from Covid, however DNR may need to refer matter to Iowa AG</p> <p>8/18/20: DNR sent a payment demand letter to Mr. DeJoode pursuant to the Final Decision in the contested case. No response, so the matter will be referred for collection. DNR met with the county regarding county action to clean up the property, and the county supervisors will be considering this matter at their September meeting.</p> <p>DNR involvement in this matter is closed. County has taken over the enforcement process through its nuisance authority</p>
12/3/19	Dennis Grimm	Order/Penalty	AQ/SW	Scott	<p>Appeal received – 12/3/19</p> <p>1/24/20 – Hearing set for March. Working on settlement terms, but settlement appears unlikely at this point.</p> <p>2/12/20 – Default Judgement. Appeal denied and entity needs to comply with Original Order (will remove next report) DNR likely to seek referral to Iowa AG as party refuses to comply with Order</p> <p>8/18/20: Mr. Grimm and his attorney requested remediation benefits from the Iowa UST Fund Board in August. The Board is negotiating terms with Mr. Grimm's attorney to make the site eligible. Should this site become eligible, DNR will withdraw the contested case and consider decreasing or eliminating the</p>

					<p>pending administrative penalty if it will ensure that site is cleaned up.</p> <p>Matter closed. Grimm paid administrative penalty and reached agreement with the Iowa Tanks Fund to clean up the property.</p>
05/10/20	Drainage Ditch 37	Order/Penalty	FP	Scott	<p>Appeal received 05/10/20 Hearing set for 08/26/20</p> <p>10/28/20: Proposed decision issued by ALJ upholding DNR's permit issuance in its entirety. Appellant has 30 days to appeal to the EPC</p>
06/30/	Mike Giammetta	Order/Penalty	FP	Scott	<p>Appeal received 06/30/20 Hearing set for 09/15/20</p> <p>Matter closed due to appellant's death. DNR will address the Flood Plain matter with the subsequent owner once the Estate has been settled.</p>

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**IOWA DEPARTMENT OF NATURAL RESOURCES
LEGAL SERVICES BUREAU**

DATE: December 2020
TO: Environmental Protection Commission
FROM: Tamara McIntosh
SUBJECT: Enforcement Report Update (August 22, 2020 – November 20, 2020)

The following new enforcement actions were taken during this reporting period:

Individual/Entity (County)	Program	Alleged Violation	Type of Order/Action	Penalty Amount Due	Date
Scott Peterson	Water Supply	Operator Certification	Consent	No Penalty Assessed	8/25/20
GJL Real Estate	Animal Feeding Operations	Nutrient Management Plan	Consent	\$3,000.00	8/25/20
New Heaven Chemicals Iowa, LLC	Air Quality	Title V fees and Construction Permit fees	Consent	No Penalty Assessed	8/25/20
Global Masters Investment LLC dba Johnson's Dry Cleaners	Air Quality	N/A	Rescission	N/A	8/25/20
Cargill, Incorporated	Air Quality	Construction Permit Conditions	Consent	No Penalty Assessed	9/15/20
Kylee and Nick Massmann	Animal Feeding Operations	Separation Distance	Consent	No Penalty Assessed	9/25/20
Troy Budde	Underground Storage Tanks	N/A	Rescission	N/A	10/2/20
TCC Materials	Air Quality	Construction Permit Conditions and Excess Emissions	Consent	\$7,000.00	10/6/20
GW Development, L.C.	Wastewater	Permit Conditions	Consent	\$8,000.00	10/20/20
William Kimberley Development Corporation	Wastewater	Permit Conditions	Consent	\$8,000.00	10/20/20
Calderwood Farms, Inc.	Animal Feeding Operations	Water Quality Discharge	Consent	\$3,000.00	10/20/20
City of McGregor	Wastewater	Prohibited Discharge	Consent	No Penalty Assessed	10/26/20
Garrelts Livestock Feeders	Animal Feeding Operations	Manure Management Plan	Consent	\$2,000.00	10/27/20
Ag Partners, L.L.C.	Air Quality	Fugitive Dust	Consent	\$6,500.00	10/27/20
Vitalix, Inc. 2020-WW-11	Wastewater	Prohibited Discharge	Consent	\$5,500.00	10/27/20
Vitalix, Inc. 2020-WW-12	Wastewater	Prohibited Discharge	Consent	\$1,000.00	10/27/20
Vitalix, Inc. (2019-WW-06)	Wastewater	N/A	Rescission	N/A	10/30/20

Vitalix, Inc. (2020-WW-06)	Wastewater	N/A	Rescission	N/A	10/30/20
Larry Dolezal	Air Quality/Solid Waste	Open Burning and Improper Solid Waste Disposal	Consent	\$2,000.00	11/3/20
Galen Mehmen	Water Supply	Operator Certification	Consent	No Penalty Assessed	11/9/20
NEW Cooperative, Inc.	Air Quality/Solid Waste	Open Burning and Improper Solid Waste Disposal	Consent	\$10,000.00	11/10/20
Andrew Mehmen	Water Supply	Operator Certification	Consent	No Penalty Assessed	11/12/20
Mike Giammetta	Flood Plains	N/A	Rescission	N/A	11/12/20
CJ's Construction, Inc.	Wastewater	Permit Conditions	Consent	\$5,000.00	11/16/20
Grand Total			\$61,000.00		

**IOWA DEPARTMENT OF NATURAL RESOURCES
LEGAL SERVICES BUREAU**

Item 3, Page 13 of 15

DATE: December 2020
TO: Environmental Protection Commission
FROM: Tamara McIntosh
SUBJECT: Summary of Administrative Penalties (August 22, 2020 – November 20, 2020)

The following administrative penalties are being collected by DRF:

NAME/LOCATION	PROGRAM	AMOUNT (remaining)
Jon Knabel (Clinton Co.)	AQ/SW	\$1,187.33
Randy Wise; Wise Construction (Buena Vista Co.)	AQ/SW	\$2,081.32
Gary Eggers (Stacyville)	SW/WW	\$10,000.00
Dennis R. Phillips; Marty's Convenience Mart (Riverton)	UT	\$9,954.53
Frank Robak (Little Sioux)	UT	\$10,000.00
Randy Cates	AQ/SW	\$10,000.00
JS Properties LLC (Terry Anderson)	AQ	\$6,500.00
Jeff Gray dba Grayz Metal Recycling	AQ/SW	\$918.53
Keaven Faber	AQ/AFO	\$2,532.00
Jayson Schlafke	AFO	\$3,000.00
Jason Wernimont	AFO	\$948.00
Grand Total		\$57,121.71

The following administrative penalties are DUE (and being collected by DNR):

NAME/LOCATION	PROGRAM	AMOUNT (remaining)
Sport Wade, Inc. (Decatur Co)	UT	\$10,000.00
Recycling Services	WW/HC/SW	\$7,000.00
Carl DeJoode*	SW	\$10,000.00
Michael Pearson	WW	\$5,000.00
Lu Jen Farms	AFO	\$5,000.00
Strickler Farms	AFO	\$4,000.00
Blue Hyll Dairy Farm, LLC	AFO	\$6,500.00
Michael Matthews	AQ	\$4,630.00
Bar K Cattle, LLC	AFO	\$5,000.00
Robert Bryant	AFO	\$2,000.00
Amritdeep Kaur – Pari, Inc.	UT	\$7,000.00
Amritdeep Kaur – Cissy's II	UT	\$8,890.00
Ronald Stratton	FP	\$5,000.00
Jaymaharaj, L.L.C. and Monaj Desai	HC	\$7,000.00
Calcium Products	WW	\$6,700.00
Steven and Jane Hemmingstad	FP	\$10,000.00
Grand Total		\$103,720.00

*contested penalty – not due at this time

The following administrative penalties have been COLLECTED:

NAME/LOCATION	PROGRAM	AMOUNT (Collected)
Merlin Rozeboom	AFO	\$2,000.00
Fink Electric Inc.	AQ	\$780.00
Abatement Specialties	AQ/AG	\$10,000.00
Seabee Corporation	AQ	\$10,000.00
Oleg Sharpelyuk	AQ/SW	\$750.00
Lund-Ross Constructors	AQ	\$4,000.00
Bank of Iowa Corporation	AQ	\$4,000.00
GJL Real Estate, LLC	AFO	\$3,000.00
Richard Tompkins	AQ/SW	\$200.00
Chisagkumar Patel	WW	\$433.00
Jiya Food Mart	WW	\$1,000.00
Millard Elston III	AQ/SW/Rev	\$1,465.00
Keavan Faber	AQ/SW/Rev	\$718.00
Kenneth Grandstaff	AQ/SW/Rev	\$2,658.57
Sheryl Sovereign	WS/Rev	\$225.00
Dennis Kuehl	AFO	\$500.00
Chad Hansmann	AFO	\$750.00
Steven Kerns	AFO/AG	\$5,000.00
Calderwood Farms, Inc.	AFO	\$3,000.00
Garrelts Livestock Feeders	AFO	\$2,000.00
Buch Farms, LLC	AFO	\$750.00
TCC, Inc.	AQ	\$7,000.00
Kimberley Development Corp.	WW	\$8,000.00
GW Development LC	WW	\$8,000.00
Jon Knabel	AQ	\$221.65
Gaylon Rozeboom	AFO	\$500.00
Vitalix Inc.	WW	\$3,000.00
Vitalix, Inc.	WW	\$1,000.00
LCNJ Farms LLC	AFO	\$435.00
Dennis Grimm	UT	\$9,000.00
Grand Total		\$90,386.22

**IOWA DEPARTMENT OF NATURAL RESOURCES
LEGAL SERVICES BUREAU**

DATE: December 2020 (August 25, 2020 – November 25, 2020)

TO: Environmental Protection Commission

FROM: Tamara McIntosh

SUBJECT: Rulemaking Status Report

[illegible]

Iowa Department of Natural Resources Environmental Protection Commission

ITEM

5

DECISION**TOPIC**

**Clean Water and Drinking Water State Revolving Loan Fund – FY 2021
Intended Use Plan Third Quarter Update**

Commission approval is requested for the Clean Water State Revolving Fund (CWSRF) and Drinking Water State Revolving Fund (DWSRF) Intended Use Plan (IUP) updates for the third quarter of FY 2021 (July 1, 2020 – June 30, 2021).

The Iowa State Revolving Fund (SRF) programs are operated through a coordinated partnership between the Department of Natural Resources (DNR) and the Iowa Finance Authority (IFA). The DWSRF Program provides loans to public water supply systems for treatment, storage, distribution and transmission projects. The CWSRF Program finances publicly owned wastewater and sewer facilities, storm water management projects and nonpoint source control practices for water quality.

This IUP update includes an analysis of current and projected finances and an updated project priority list. This plan also includes the FY 2021 funding recommendations for the Sponsored Project Program in *Appendix D*. A summary of the new additions to the project priority list in this third quarter update are as follows:

- | | |
|-------------------------------------------------------|-------------------------|
| (6) CWSRF Planning & Design Loan applications | (totaling \$7,392,000) |
| (11) CWSRF IUP applications for construction projects | (totaling \$37,623,312) |
| (3) DWSRF Planning & Design Loan applications | (totaling \$830,750) |
| (8) DWSRF IUP applications for construction projects | (totaling \$19,309,510) |

The Sources and Uses tables for both CWSRF and DWSRF show that funds are available or obtainable to provide the anticipated disbursements.

This IUP update was released for public comment on the proposed updates and project lists. A public meeting was held via conference call on November 12, 2020 to receive comments. There were 3 attendees but no comments were taken for the record. The written comment period closed on November 19, 2020. No comments were received.

Theresa Enright, DNR SRF Coordinator
November 23, 2020

Project Name	DWSRF No.	Project Description	IUP Yr	Quarter	Project Categories	Priority Points	Population	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
Glidden	PD-DW-21-38	P&D for New Well and Watermain	2021	3	G	P&D	1146	P	\$ 150,000			\$ 150,000	
Remsen	PD-DW-21-43	P&D for Water Treatment Plant Improvements	2021	3	G	P&D	1621	P	\$ 430,000			\$ 430,000	
Henderson	PD-DW-21-45	Construction of New Well, Water Main and Water Meter Replacement	2021	3	G	P&D	166	P	\$ 250,750			\$ 250,750	
Huxley	FS-85-21-DWSRF-013	Water Treatment Plant Expansion	2021	3	B, E	45	3317	P	\$ 8,582,700			\$ 8,582,700	
Elkhart	FS-77-21-DWSRF-018	Water Treatment Facility Expansion	2021	3	B, E	45	683	P	\$ 1,658,250			\$ 1,658,250	
Anamosa	FS-52-21-DWSRF-019	Jordan Well	2021	3	B, E	45	5500	P	\$ 3,232,000			\$ 3,232,000	
Ventura	FS-17-21-DWSRF-016	Water Treatment Plant Construction	2021	3	A, B, E	45	717	P	\$ 2,613,000			\$ 2,613,000	
Thornton	FS-17-21-DWSRF-015	Water Main Replacement	2021	3	B, C, E	40	422	P	\$ 827,500			\$ 827,500	
Webster City	FS-40-21-DWSRF-017	Water Main Replacement	2021	3	B, C, E	40	8070	P	\$ 615,060			\$ 615,060	
Tama	FS-82-21-DWSRF-014	Water System Improvements	2021	3	B, E	25	2877	P	\$ 1,373,000			\$ 1,373,000	
Thor	FS-46-21-DWSRF-012	2021 Municipal Water Filtration Improvements	2021	3	B, E	25	186	P	\$ 408,000			\$ 408,000.00	
Creston	PD-DW-21-29	P&D for Water Treatment Plant Upgrade	2021	2	G	P&D	800	L	\$0.00		9/25/20	\$ 160,000	\$ 160,000
Lisbon	PD-DW-21-19	P&D for New Well, Chemical Feed Building, Generator and Main	2021	2	G	P&D	2152	R	\$ 480,000			\$ 480,000	
Mondamin	PD-DW-21-33	P&D for Construction of New Water Treatment Plant & Wells	2021	2	G	P&D	402	R	\$ 441,000			\$ 441,000	
Ruthven	PD-DW-21-35	P&D for Water Treatment System Improvements	2021	2	G	P&D	737	L	\$0.00		9/25/20	\$ 300,000	\$ 300,000
Lisbon	FS-57-21-DWSRF-011	Water Main Improvements	2021	2	B,C, E	55	2152	P	\$ 5,972,000			\$ 5,972,000.00	
Dyersville	FS-31-21-DWSRF-007	6th Avenue Water Main Replacement	2021	2	B,C, E	40	4058	P	\$ 415,000			\$ 415,000.00	
Creston	FS-88-21-DWSRF-006	Water Treatment Plant Upgrade	2021	2	B,C, E	35	7834	P	\$ 1,536,000			\$ 1,536,000.00	
Ankeny	FS-77-21-DWSRF-008	Irvinedale Drive Transmission Main and NW 36th Street & NW Weigel Drive Water Main	2021	2	B	20	54598	P	\$ 4,287,000			\$ 4,287,000.00	
Ames	FS-85-21-DWSRF-010	Water Treatment Plant Demolition	2021	2	B	15	58965	P	\$ 4,380,000			\$ 4,380,000.00	
Britt	FS-41-21-DWSRF-003	Water System Improvements	2021	1	A,E	60	2069	P	\$ 6,321,450			\$ 6,321,450	
Atkins	FS-06-21-DWSRF-001	Water Distribution Improvements	2021	1	B, C, E	40	1670	P	\$ 4,398,000			\$ 4,398,000	
Ames	FS-85-21-DWSRF-009	North River Valley Well field & Pipeline	2021	1	B	35	58965	P	\$ 6,108,000			\$ 4,380,000.00	
Waukee	FS-25-21-DWSRF-004	ASR Well	2021	1	B	35	17945	P	\$ 3,567,750			\$ 3,567,750	
Fort Dodge	FS-94-21-DWSRF-005	Northwest Regional Water Main Improvements	2021	1	B, C	30	25206	P	\$ 3,753,000			\$ 3,753,000	
Sioux City	FS-97-21-DWSRF-002	38th Street Booster Pumping Station	2021	1	B	20	82684	P	\$ 2,626,000			\$ 2,626,000	
Dedham	FS-14-20-DWSRF-026	Connection to West Central IA Rural Water Assoc.	2020	4	A,E	60	266	P	\$ 422,100	up to 75% of eligible costs		\$ 402,000	
Melvin	FS-72-20-DWSRF-033	Storage Tank Rehabilitation	2020	4	B,C,E	55	201	R	\$ 422,100			\$ 422,100	
Early	FS-81-20-DWSRF-025	Water System Improvements	2020	4	B,C,E	55	557	P	\$ 2,450,000			\$ 2,450,000	
Dayton	FS-94-20-DWSRF-031	Municipal Water Well Reconstruction and Water Main Repair	2020	4	B,C,E	55	837	P	\$ 685,000			\$ 685,000	
Westgate	FS-33-20-DWSRF-024	Connection to IRUA	2020	4	B,E	45	211	P	\$ 2,703,000			\$ 2,703,000	
Eastern Iowa Regional Utility Service System (EIRUSS) (formerly Bellevue)	FS-49-20-DWSRF-028	Droessler Subdivision Water Main Extension 2020	2020	4	A, E	45	421	P	\$ 1,700,000			\$ 1,700,000	
Rudd	FS-34-20-DWSRF-023	Water System Improvements	2020	4	B,C,E	35	368	P	\$ 721,000			\$ 721,000	
Cedar Rapids	FS-57-20-DWSRF-022	NW WTP Softener Capacity Improvement	2020	4	B	35	126326	P	\$ 18,400,000			\$ 18,400,000	
Prairie City	FS-50-20-DWSRF-034	Water System Improvements	2020	4	B,E	30	1727	P	\$ 804,000			\$ 804,000	
Carlisle	FS-91-20-DWSRF-032	Avon Lake Water Main Improvements	2020	4	B,E	30	4282	P	\$ 3,400,000			\$ 3,400,000	

Project Name	DWSRF No.	Project Description	IUP Yr	Quarter	Project Categories	Priority Points	Population	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
Plainfield	FS-09-20-DWSRF-030	South Loop Water Main Crossing	2020	4	B,E	30	436	L	\$0.00		8/28/20	\$ 171,000	\$ 240,000
Dunkerton	FS-07-20-DWSRF-035	Water System Improvements	2020	4	B,E	25	852	P	\$ 1,142,000			\$ 1,142,000	
Lyon & Sioux Rural Water	FS-60-20-DWSRF-029	Klondike Water Treatment	2020	4	B,E	25	4730	P	\$ 6,709,000			\$ 6,709,000	
Plainfield	PD-DW-20-33	Water Main Installation	2020	3	G	P&D	436	R	\$ 40,000			\$ 40,000	
Rock Valley	PD-DW-20-35	New Well Construction	2020	3	G	P&D	3730	L	\$0.00		9/18/20	\$ 922,300	\$ 922,300
MacBride Point Third Master Maintenance Association	FS-52-20-DWSRF-019	Water Supply Improvements	2020	3	A, E	60	100	P	\$ 178,000	up to 75% of eligible costs		\$ 178,000	
West Burlington	FS-29-20-DWSRF-014	EST, Booster Station & Water Main Extension	2020	3	B, E	45	3064	R	\$ 3,570,000			\$ 3,570,000	
Eagle Grove	FS-99-20-DWSRF-018	Water Distribution System Improvements	2020	3	B, C, E	40	3583	P	\$ 503,000			\$ 503,000.00	
Worthington	FS-31-20-DWSRF-020	3rd Street West Court Water Main Replacement	2020	3	B, C, E	40	401	R	\$ 208,000			\$ 208,000	
Jamaica	FS-39-20-DWSRF-017	Water System Improvements	2020	3	B, C, E	35	224	P	\$ 1,213,000			\$ 1,213,000	
Dunlap	FS-43-20-DWSRF-016	Water Distribution System Improvements	2020	3	B, E	30	1042	P	\$ 444,000			\$ 444,000	
Lockridge	FS-51-20-DWSRF-015	Water Main Extension & Replacement	2020	3	B, E	30	268	R	\$ 124,000			\$ 124,000.00	
New Vienna	FS-31-20-DWSRF-021	Well House, Booster Pump Station & Chemical Treatment	2020	3	B, E	30	426	L	\$0.00		10/23/20	\$ 339,000	\$ 385,000
Bagley	FS-39-20-DWSRF-013	City of Bagley Connection to the Xenia Rural Water System	2020	2	A, C, E	80	303	R	\$ 545,000	up to 75% of eligible costs		\$ 545,000	
Garwin	FS-86-20-DWSRF-008	2018 Water Distribution System Improvements	2020	2	B,C,E	55	527	R	\$ 800,000			\$ 800,000	
Iowa-American Water - Davenport	FS-82-20-DWSRF-007	East River Station WTP UV	2020	2	A	45	143000	R	\$ 7,689,300			\$ 7,689,300	
Park View Water & Sanitary District	FS-82-20-DWSRF-006	WTP #2 Improvements	2020	2	B, E	45	2389	L	\$ 839,000		7/10/20	\$ 2,509,000	\$ 1,670,000
Rock Valley	FS-84-20-DWSRF-010	Rock Valley Water System Phases I and II	2020	2	B, E	45	3730	P	\$ 2,009,000			\$ 2,009,000	
Tipton	FS-16-20-DWSRF-009	Water Main Replacement 0 20th Street to North Street	2020	2	B,C,E	40	3220	P	\$ 407,000			\$ 407,000	
Dakota City	FS-46-20-DWSRF-012	WTP Upgrade	2020	2	B, E	25	843	R	\$ 1,116,000			\$ 1,116,000	
Hiawatha	FS-57-20-DWSRF-004	Construct ground storage reservoir and booster station with generator	2020	1	B, E	60	7353	R	\$ 2,329,000			\$ 2,329,000	
Albion	FS-64-20-DWSRF-002	Construction of well to Mississippian formation and purchase of new water meters	2020	1	B,E	45	470	R	\$ 695,000	up to 50% of eligible costs		\$ 412,000	
Auburn	FS-81-20-DWSRF-003	Construction of new Dakota sandstone aquifer well and a new 50,000 gallon water tower	2020	1	B, E	45	315	R	\$ 1,447,000			\$ 1,447,000	
Guthrie Center	FS-39-19-DWSRF-026	Existing Ground Storage Facilities	2019	4	B, C, E	55	1569	L	\$0.00		7/31/20	\$ 1,491,000	\$ 1,205,000
Sanborn	FS-71-19-DWSRF-027	RO pilot protocol, New Water Treatment Plant Evaluation	2019	4	B, E	45	1384	L	\$ 4,102,000		6/5/20	\$ 8,502,000	\$ 4,400,000
Oelwein	FS-33-19-DWSRF-030	2019 Water Main Replacement	2019	4	B, C, E	40	6415	R	\$ 1,281,000			\$ 1,281,000	
Somers	FS-13-19-DWSRF-028	Municipal Water Filtration Improvements	2019	4	B, C, E	35	113	R	\$ 179,000			\$ 179,000	
Stacyville	FS-66-19-DWSRF-016	Water main replacement along Broad Street	2019	3	B,C,E	40	501	L	\$0.00		8/28/20	\$ 988,000	\$ 715,000
Thompson	FS-95-19-DWSRF-018	Install new water treatment plant and extend water main to existing system from new WTP	2019	3	B,C,E	40	517	L	\$0.00		10/16/20	\$ 577,000	\$ 963,000
Sioux City	FS-97-19-DWSRF-019	Airport Water Main Replacement	2019	3	A,B	35	82759	R	\$ 3,098,000			\$ 3,098,000	
Clarion	FS-99-19-DWSRF-020	Water Main Improvements	2019	3	B, E	30	2850	L	\$0.00		10/16/20	\$ 1,397,000	\$ 1,036,000
Bernard	FS-31-19-DWSRF-015	Replacement of ground storage tank, booster pumps	2019	3	B, E	25	112	L	\$0.00		8/28/20	\$ 185,000	\$ 200,000

Project Name	DWSRF No.	Project Description	IUP Yr	Quarter	Project Categories	Priority Points	Population	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
Albion	PD-DW-19-13	Construction of new water main connecting to Marshalltown Water Works	2019	2	G	P&D	505	R	\$ 55,000			\$ 55,000	
Bellevue	PD-DW-19-15	Construction of 2700 sf Radium Treatment Facility	2019	2	G	P&D	2191	R	\$ 285,000			\$ 285,000	
Osceola Rural Water System-North	FS-72-19-DWSRF-012	A new 1,800 gpm RO expansion including wells, water storage and pipeline	2019	2	B, E	40	4495	P	\$ 8,341,000			\$ 17,709,000	
Osceola Co Rural Water	PD-DW-19-03	Construction of 2400 gpm water treatment plant expansion	2019	1	G	P&D	4495	L	\$0.00		5/15/20	\$ 700,000	\$ 700,000
Iowa Lakes Regional Water	FS-21-18-DWSRF-019	Addition of solar panels at six booster stations and water towers to reduce operational cost and improve resiliency	2018	4	B	15	14,600	R	\$ 260,000			\$ 260,000	
Vail	PD-DW-18-30	Plan for new water source and water treatment options	2018	3	G	P&D	436	R	\$ 50,000			\$ 50,000	
Pocahontas	FS-76-18-DWSRF-012	Install new well	2018	2	B,E	45	1789	R	\$ 547,000			\$ 547,000	
Cleghorn	FS-18-18-DWSRF-006	Replace aging water tower, install water mains to tower, add emergency generator at water treatment plant	2018	2	B,E	45	247	L	\$ 200,000		3/8/19	\$ 1,024,000	\$ 557,000
Lehigh	FS-94-18-DWSRF-008	Improvements to water filtration system	2018	2	B,C,E	35	416	L	\$0.00		7/31/20	\$ 553,554	\$ 609,000
Sioux City (Grandview Reservoirs)	FS-97-18-DWSRF-007	Demolish and replace South and North Grandview reservoirs which were built in 1941 in order to improve capacity in the Grandview pressure zone	2018	2	B	35	82759	P	\$ 9,620,000			\$ 6,535,937	
Dedham	PD-DW-18-01	Construction of a new well at alternative location to provide city with backup water supply	2018	1	G	P&D	266	R	\$ 50,000			\$ 50,000	
Truro	FS-61-17-DWSRF-016	Replace all AC water distribution piping, increading size of water mains being replaced, and modifying the height of the existing EST to improve distribution system pressure.	2017	3	A,B,E	45	485	R	\$ 866,000			\$ 866,000	
Washington (supplemental)	FS-92-17-DWSRF-007(2)	Construct new treatment plant modifications	2017	2	F	25	7266	L	\$0.00		10/23/20	\$ 220,000.00	\$ 219,000
Rathbun Regional Water (RRWA)	FS-04-17-DWSRF-010	Replacement of of aging water meters with a new advanced/smart metering system.	2017	2	C,D	15	28215	R	\$ 2,902,945	30% of cost of water meter equipment and installation		\$ 2,902,945	
Sioux City (Zenith Water Treatment Plant)	FS-97-17-DWSRF-013	Add standby generator to Riverside Collector and improvements to the chemical feed systems	2017	2	B	15	82759	R	\$ 1,797,267			\$ 1,797,267	
Farmington	FS-89-16-DWSRF-006	Replace old cast iron water man and underground storage tank with above ground tank	2016	2	B,C,E	40	664	L	\$0.00		7/17/20	\$ 312,000	\$ 473,000
Farmington	FS-89-16-DWSRF-006 (2)	Water meter replacement	2016	2	B,C,E	40	664	R	\$ 117,000			\$ 117,000	
Van Meter	FS-25-15-DWSRF-020	New Water Treatment Plant	2015	4	B,E	45	1054	R	\$ 4,608,000			\$ 4,608,000	
Ruthven	FS-74-15-DWSRF-006	New well to replace Well #1, aeralator rehab, control panel replacement, water main replacement to improve pressure and add new valves and hydrants	2015	2	B,C,E	55	779	P	\$ 1,316,550			\$ 1,316,550	
De Soto	FS-25-14-DWSRF-011	New water treatment facility	2014	3	B,E	25	1050	R	\$ 4,020,000			\$ 4,020,000	
Stanwood	FS-16-13-DWSRF-021	Construction of approx 2700 lineal feet of new 6 inch PVC pipe, including new valves, hydrants.	2013	4	B,C,E	40	684	L	\$ 384,841		5/8/20	\$ 786,841	\$ 402,000

Project Name	DWSRF No.	Project Description	IUP Yr	Quarter	Project Categories	Priority Points	Population	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
Cedar Falls Utilities	FS-07-12-DWSRF-028	Water main extension to connect homes with nitrate contaminated private wells	2012	4	A	35	39260	P	\$ 1,380,670	75%		\$ 1,380,670	
Albia	FS-68-12-DWSRF-008	Water main replacement	2012	2	B,C,E	40	3706	P	\$ 350,000			\$ 350,000	
									\$ 129,978,523			\$ 149,383,213.50	\$ 14,696,300

Project Name	DWSRF No.	Project Description	IUP Yr	Quarter	Project Categories	Priority Points	Population	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
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Project Status

Dropped -- D

Ready for Loan -- R

Loan Signed -- L

Planning Stage -- P

Project Type

A = Water Quality and Human Health Risk-Related Criteria

B = Infrastructure and Engineering-Related Improvement

C = Affordability Criteria

D = Special Category Improvements

E = Project Serves Population less than 10,000

F = Supplemental Loan for Previously Approved Project

G = Planning and Design Loan

Abbreviations

N/A = Not Applicable

Not used = No loan forgiveness assistance utilized for project

TBD = To Be Determined

Water and Energy Efficiency

Emergency Generators

Disadvantaged Communities

Public Health Projects

Project Name	NPDES No.	Project Number	CWSRF No.	Project Description	IUP Yr	Needs Category	Priority Points	Quarter	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
Cedar Rapids	5715001	N/A	PD-CW-21-40	P&D for Construction of Digesters, Compression Systems and Nutrient Removal System	2021	P&D	P&D	3	P	\$ 5,500,000			\$ 5,500,000	
Wayland	4490001	N/A	PD-CW-21-37	P&D for WWTF Improvements	2021	P&D	P&D	3	P	\$ 170,000			\$ 170,000	
Clinton	2326001	N/A	PD-CW-21-41	P&D for WWTF Improvements	2021	P&D	P&D	3	P	\$ 242,000			\$ 242,000	
Sac City	8150001	N/A	PD-CW-21-39	P&D for Sewer Rehab	2021	P&D	P&D	3	P	\$ 370,000			\$ 370,000	
Corydon	69334004	N/A	PD-CW-21-42	P&D for WWTF Improvements	2021	P&D	P&D	3	P	\$ 410,000			\$ 410,000	
Jefferson	3742001	N/A	PD-CW-21-44	P&D for WWTF Improvements	2021	P&D	P&D	3	P	\$ 700,000			\$ 700,000	
Maquoketa	4950001	W2020-0203A	CS1920988 01	BNR Addition to Existing Plant	2021	II	275	3	P	\$ 11,930,355			\$ 11,930,355	
Jesup	1044002	W2020-0018A	CS1920997 01	SBR with UV	2021	I, II	264	3	P	\$ 8,955,000			\$ 8,955,000	
Traer	8681001	W2018-0376A	CS1920999 01	Sewer Rehab, UV and Relocation of Outfall	2021	II, III-B	259	3	P	\$ 1,805,000			\$ 1,805,000	
Clinton	2326001	W2020-0394A	CS1920992 01	UV Disinfection and Septic Receiving Station	2021	II	257	3	P	\$ 6,387,540			\$ 6,387,540	
Dougherty	1722001	S2017-0251A	CS1920993 01	Low Pressure Collection System with 3-Cell Lagoon	2021	I, IV-A	232	3	P	\$ 865,000			\$ 865,000	
Chariton	5903001	S2018-0461A	CS1920990 01	UV Disinfection and Various Upgrades	2021	II	224	3	P	\$ 3,578,000			\$ 3,578,000	
Pleasantville	6377001	S2013-0174	CS1920989 01	Digester Addition and Sludge Improvements	2021	I	164	3	P	\$ 728,700			\$ 728,700	
Hartley	7128001	W2020-0430A	CS1920994 01	Lift Station and Force Main Replacement	2021	III-B	147	3	P	\$ 1,161,780			\$ 1,161,780	
Peterson	2154002	W2019-0338A	CS1920998 01	I&I Work	2021	III-A	139	3	P	\$ 1,294,000			\$ 1,294,000	
Webster City	4063001	W2021-0081A	CS1920996 01	Sanitary Sewer Replacement	2021	III-B	139	3	P	\$ 548,730			\$ 548,730	
Correctionville	9721001	W2021-0041A	CS1920995 01	Force Main Replacement Due to Age	2021	IV-B	124	3	P	\$ 369,207			\$ 369,207	
Albia	6803001	N/A	PD-CW-21-14	P&D for WWTF Improvements	2021	P&D	P&D	2	L	\$0.00		9/25/20	\$ 200,000	\$ 200,000
Boyden	8409001	N/A	PD-CW-21-26	P&D for WWTF Improvements	2021	P&D	P&D	2	L	\$0.00		10/2/20	\$ 190,000	\$ 190,000
Chariton	5903001	N/A	PD-CW-21-27	P&D for Sewage Treatment Plant Improvements	2021	P&D	P&D	2	L	\$0.00		9/25/20	\$ 220,000	\$ 220,000
Clinton	2326001	N/A	PD-CW-21-16	P&D for New WWTF Construction	2021	P&D	P&D	2	L	\$0.00		9/18/20	\$ 252,000	\$ 252,000
Correctionville	9721001	N/A	PD-CW-21-28	P&D for Construction of New Sanitary Force Main	2021	P&D	P&D	2	L	\$0.00		10/2/20	\$ 60,000	\$ 60,000
Dougherty	1722001	N/A	PD-CW-21-17	P&D for WW Collection System & Discharge Lagoon	2021	P&D	P&D	2	L	\$0.00		10/9/20	\$ 180,700	\$ 180,700
Galva	4715001	N/A	PD-CW-21-30	P&D for New WWTP Construction	2021	P&D	P&D	2	L	\$0.00		10/2/20	\$ 480,000	\$ 480,000
Hartley	7128001	N/A	PD-CW-21-31	P&D for Sanitary Sewer Force Main Replacement	2021	P&D	P&D	2	L	\$0.00		10/9/20	\$ 155,000	\$ 155,000
Johnston	7740002	N/A	PD-CW-21-32	P&D for NW Area Sanitary Sewer Extension	2021	P&D	P&D	2	L	\$0.00		10/23/20	\$ 600,000	\$ 600,000
Keokuk	5640001	N/A	PD-CW-21-18	P&D for Combined Sewer Separation Project	2021	P&D	P&D	2	L	\$0.00		9/18/20	\$ 2,790,000	\$ 2,790,000
Lovilia	6858001	N/A	PD-CW-21-20	P&D for Lift Station Rehab Project	2021	P&D	P&D	2	L	\$0.00		9/18/20	\$ 33,700	\$ 33,700
Moravia	467001	N/A	PD-CW-21-21	P&D for Collection System Lining & Manhole Rehab for I/I Reduction	2021	P&D	P&D	2	L	\$0.00		10/9/20	\$ 112,000	\$ 112,000
Oxford	5260001	N/A	PD-CW-21-22	P&D for WWTF Improvements	2021	P&D	P&D	2	R	\$ 300,000			\$ 300,000	

Project Name	NPDES No.	Project Number	CWSRF No.	Project Description	IUP Yr	Needs Category	Priority Points	Quarter	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
Peosta	3150000	N/A	PD-CW-21-23	P&D for Hwy 20 Lift Station Reconstruction	2021	P&D	P&D	2	L	\$0.00		9/18/20	\$ 440,000	\$ 440,000
Randolph	3649001	N/A	PD-CW-21-34	P&D for Collection and Treatment System Project	2021	P&D	P&D	2	L	\$0.00		9/18/20	\$ 292,000	\$ 292,000
State Center	6484001	N/A	PD-CW-21-24	P&D for WWTF Improvements	2021	P&D	P&D	2	L	\$0.00		10/9/20	\$ 370,000	\$ 370,000
Wheatland	2394001	N/A	PD-CW-21-25	P&D for WWTF Improvements	2021	P&D	P&D	2	L	\$0.00		10/2/20	\$ 115,000	\$ 115,000
Centerville	407003	W2019-0235A	CS1920978 01	WW Tx Improvements	2021	I, II	277	2	P	\$ 11,354,000			\$ 8,582,100	
West Branch	1694001	W2018-0227A	CS1920982 01	WW Tx Improvements 2021	2021	II	230	2	P	\$ 7,187,000			\$ 7,187,000	
Lidderdale	1453001	W2019-0267A	CS1920983 01	WW System Improvements	2021	II	227	2	P	\$ 1,548,000			\$ 1,548,000	
Mount Ayr	805501	W2020-0412A	CS192084 01	WW System Improvements	2021	I, III-B	195	2	P	\$ 380,000			\$ 380,000	
Anamosa	5307001	W2020-0202A	CS1920985 01	WWTP Flow Equalization Basin	2021	VI	155	2	P	\$ 2,802,000			\$ 2,802,000	
Dyersville	313001	W2020-0384A	CS1920980 01	Westlinden Lift Station	2021	IV-B	150	2	P	\$ 2,764,000			\$ 2,764,000	
Coon Rapids	3927002	W2020-0387	cs1920979 01	Sanitary Sewer Rehabilitation	2021	III-A	142	2	P	\$ 2,250,000			\$ 2,250,000	
Slater	8580001	W2019-0383A	CS1920981 01	Water & Sewer Utility Extension Improvements - Weeks Property	2021	IV-A	109	2	P	\$ 1,100,000			\$ 1,100,000	
Farragut	3615001	N/A	PD-CS-20-02	Flow monitoring ops to prep for WW facility plan improvements	2021	P&D	P&D	1	R	\$ 665,000			\$ 665,000	
Lovilia	6858001	N/A	PD-CW-21-04	P&D for construction of WW TX facility	2021	P&D	P&D	1	R	\$ 154,000			\$ 154,000	
Ridgeway	9680001	N/A	PD-CW-21-07	NPDES compliance activities	2021	P&D	P&D	1	L	\$0.00		7/24/20	\$ 40,000	\$ 40,000
Runnells	7774001	N/A	PD-CW-21-08	P&D for retrofit of existing ww tx facility	2021	P&D	P&D	1	L	\$0.00		7/10/20	\$ 220,000	\$ 220,000
Terrace Hill	3500900	N/A	PD-CW-21-09	Compliance ops to meet effluent limits	2021	P&D	P&D	1	L	\$0.00		7/24/20	\$ 189,000	\$ 189,000
Raymond (with Elk Run Heights)	721001	W2017-0093A	CS1920973 01	WWTF Improvements	2021	I & II	294	1	P	\$ 5,130,000			\$ 5,130,000	
Elk Run Heights (with Raymond)	721001	W2017-0093A	CS1920963 01	WWTF Improvements	2021	I & II	294	1	P	\$ 4,728,525			\$ 4,728,525	
Lake Park	3045001	W2018-0379A	CS1920971 01	Wastewater SyStem Improvements, 2019 WWTP	2021	I & II	267	1	P	\$ 6,030,000			\$ 6,030,000	
Miles	4953001	S2019-0420A	CS1920966 01	WWTF Improvements	2021	I & IV-B	232	1	P	\$ 2,080,000			\$ 2,080,000	
Conrad	3809001	S2017-0457A	CS1920961 01	WWTF Improvements	2021	II	229	1	L	\$0.00		8/28/20	\$ 718,575	\$ 700,000
Grimes	7763001	W2017-0143A	CS1920975 01	Construct Trunk Sewer, Lift Station & Force Main to Connect to DM WRA	2021	IV-B	227	1	P	\$ 22,839,000			\$ 22,839,000	
Walford	069001	W2019-0421A	CS1920970 01	WWTP Improvements	2021	II	224	1	P	\$ 1,081,000			\$ 1,081,000	
Ottumwa	58611	2019-0263A	CS1920972 01	Blake's Branch Sewer Separation Phase 8, Divisio 2, 3A, 3B, 3C, 3D	2021	V	205	1	P	\$ 40,000,000			\$ 40,000,000	
Harpers Ferry	330001	2018-0426A	CS1920962 01	WWTP Improvements	2021	II	182	1	P	\$ 1,898,000			\$ 1,898,000	
McGregor	2258001	W2020-0140A	CS1920974 01	Main Street Utility Upgrades	2021	III-A	162	1	P	\$ 4,654,000			\$ 4,654,000	
Wayland	4490001	S2017-0271A	CS1920968 01	Sewer Rehab & Lagoon Upgrade	2021	III-A	154	1	L	\$ 317,000		9/4/20	\$ 1,000,000	\$ 683,000
Vinton	688001	W2018-0031A	CS1920969 01	WWTP Upgrades	2021	II	145	1	P	\$ 7,393,000			\$ 7,393,000	
Casey	3914001	W2020-0227A	CS1920976 01	Wastewater Collection System Rehabilitation	2021	III-A	134	1	P	\$ 302,000			\$ 302,000	
West Burlington	2985001	W2018-0503A	CS1920965 01	South Lift Station Replacement	2021	IV-B	119	1	L	\$0.00		10/23/20	\$ 898,000	\$ 1,189,000
Templeton	1479001	W2020-0247A	CS1920967 01	Outfall Sanitary Sewer Rehabilitation	2021	IV-B	119	1	P	\$ 231,000			\$ 231,000	
Des Moines - WRA Birdland	Not Listed on Application	N/A	PD-CW-20-44	Birdland Pump Station Improvements	2020	P&D	P&D	4	L	\$0.00		9/11/2020	\$ 800,000	\$ 800,000

Project Name	NPDES No.	Project Number	CWSRF No.	Project Description	IUP Yr	Needs Category	Priority Points	Quarter	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
Dow City	2427001	N/A	PD-CW-20-47	Wastewater Facility Upgrade	2020	P&D	P&D	4	L	\$0.00		3/20/2020	\$ 150,000	\$ 150,000
Lidderdale	1453001	N/A	PD-CW-21-11	Wastewater System Review for Compliance	2020	P&D	P&D	4	L	\$0.00		8/28/2020	\$ 200,000	\$ 200,000
McGregor	2258001	N/A	PD-CW-21-12	P&D FOR Main Street Utility Upgrades	2020	P&D	P&D	4	L	\$0.00		7/10/2020	\$ 452,000	\$ 452,000
Dickinson County	N/A	N/A	GNS - 20-03	Francis Sites Wetland Project	2020	VI	N/A	4	R	\$ 500,000			\$ 500,000	
Perry	2561001	2019-0057A	CS1920954 01	2018 Perry Wastewater Treatment Facility Plan and Improvements	2020	I, II, IIIA, IIIB	284	4	P	\$ 16,157,000			\$ 16,157,000	
WRA	7727001	S2020-0142A	CS1920955 01	WRA Ingersoll Run Outlet Sewer in Des Moines	2020	V	197	4	P	\$ 26,934,000			\$ 26,934,000	
Oxford Junction	5361001	2020-0126A	CS1920958 01	Sanitary Sewer Rehabilitation	2020	III-A	155	4	P	\$ 1,099,000			\$ 1,099,000	
Toledo	8676001	2020-0162A	CS1920957 01	Sanitary Sewer Improvements	2020	III-A	154	4	P	\$ 633,000			\$ 633,000	
Cushing	9725001	2020-0159A	CS1920959 01	Wastewater System Improvements	2020	III-B	129	4	P	\$ 567,000			\$ 567,000	
Storm Lake	Not Listed on Application	S2019-0384A	CS1920960 01	Memorial Lift Station Project	2020	III-B	129	4	P	\$ 1,331,625			\$ 1,331,625	
Rickardsville	3175001	2020-0158A	CS1920956 01	Sanitary Sewer Collection System Improvements 2020	2020	IV-A	114	4	P	\$ 1,032,000			\$ 1,032,000	
Williamsburg	4884001	W2019-0417A	1920946 01	WWTP & Sewer Improvements	2020	I, II, IIIA, IIIB	324	3	P	\$ 12,273,000			\$ 12,273,000	
Center Point	5713001	W2018-0172A	1920947 01	Wastewater Treatment Plant Improvements	2020	I, II, IVB	315	3	P	\$ 11,300,000			\$ 9,650,000	
Janesville	0732001	D2018-0460A	1920948 01	WWTF Improvements	2020	I	245	3	R	\$ 927,000			\$ 927,000	
Nevada	8562001	W3029-0233A	1920945 01	Wastewater Treatment Facility Improvements	2020	I, II, IVB	234	3	P	\$ 48,727,000			\$ 48,727,000	
Eagle Grove	9926001	W2020-0080A	1920952 01	Sanitary Sewer Collection System Improvements	2020	IIIA	145	3	R	\$ 930,000			\$ 930,000	
Cherokee	1811002	W2020-0078A	1920950 01	Sanitary Sewer Collection System Improvements	2020	IIIA	139	3	P	\$ 724,000			\$ 724,000	
Lockridge	5157001	W2020-0052A	1920953 01	Sanitary Sewer Improvements - I/I Reduction	2020	IIIA	139	3	R	\$ 125,000			\$ 125,000	
Pomeroy	1363001	W2020-0084A	1920951 01	Sanitary Sewer System Improvements	2020	IIIA	134	3	R	\$ 1,980,000			\$ 1,980,000	
Farmersburg	2228001	S2018-0188A	1920949 01	Sewage Lift Station & WWTF Evaluation	2020	IVB	130	3	P	\$ 457,000			\$ 457,000	
Nevada	8562001	N/A	PD-CW-20-20	Construction of new sanitary sewer interceptor and treatment plant	2020	P&D	P&D	2	R	\$ 2,885,000			\$ 2,885,000	
Melcher-Dallas	6352001	2018-0333a	1920940 01	Wastewater Treatment Facility Improvements	2020	I, II	282	2	P	\$ 3,055,000			\$ 2,477,000	
Runnels	7774001	S2017-0330A	1920943 01	Wastewater Treatment Facility Expansion	2020	I, II	282	2	P	\$ 1,889,000			\$ 1,889,000	
Rockwell City	1376001	W2018-0350	1920932 01	Water Reclamation Facility Rehabilitation	2020	I, II	267	2	P	\$ 8,240,000			\$ 8,240,000	
Dysart	862700	W2018-0132A	1920936 01	Sewage Treatment Plant Improvements	2020	I, II	264	2	P	\$ 4,158,690			\$ 4,158,690	
Mechanicsville	1667001	W2017-0296A	1920937 01	WWTP improvements to address e. coli and ammonia removal requirements	2020	I, II	264	2	P	\$ 3,176,000			\$ 3,176,000	
Des Moines	7727001	S2019-0198A	1920944 01	Western Ingersoll Run Sewer Separation	2020	V	205	2	P	\$ 19,139,699			\$ 19,139,699	
WRA	7727001	2019-0363A	1920934 01	WRA Sewer Lining	2020	III-B	170	2	L	\$ 31,441,125		12/20/19	\$ 43,441,125	\$ 12,000,000
Waterloo (Wastewater Treatment Plant Biosolids Modifications)	0790001	2017-0342A	1920941 01	Wastewater Treatment Plant Biosolids Modifications	2020	I	170	2	L	\$0.00		9/4/20	\$ 16,341,000	\$ 19,186,000
Pierson	9766002	2019-0290	1920933 01	Fourth Street Sewer Replacement	2020	III-A	142	2	R	\$ 493,000			\$ 493,000	

Project Name	NPDES No.	Project Number	CWSRF No.	Project Description	IUP Yr	Needs Category	Priority Points	Quarter	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
Rembrandt	1170001	2019-0282A	1920938 01	Cured in-place pipe will line existing sewer main and reduce infiltration and inflow	2020	III-A	142	2	R	\$ 268,000			\$ 268,000	
Waterloo (Titus Lift Station and Force Main)	0790001	2019-0352A	1920935 01	New Titus lift station and force main	2020	IV-A	140	2	P	\$ 5,170,000			\$ 5,170,000	
Tipton	1689001	2019-0415A	1920939 01	Sewer Rehabilitation Phase 1 - NW Area	2020	III-A	127	2	P	\$ 419,000			\$ 419,000	
Solon	5282001	2019-0293A	1920942 01	North Trunk Sewer	2020	IV-B	119	2	P	\$ 1,247,000			\$ 1,247,000	
Rockwell City	1376001	W2018-0350	PD-CW-20-09	Planning construction of new WWTP	2020	P&D	P&D	1	R	\$ 677,500			\$ 677,500	
Bettendorf	N/A	N/A	GNS20-02	FMA Property Acquisition to mitigate flood damage and water pollution	2020	VII-K	GNS	1	R	\$ 445,000			\$ 2,100,886	
Johnston	N/A	N/A	GNS-20-01	Saylorville Sediment and Erosion Reduction	2020	VII-K	GNS	1	P	\$ 1,750,000			\$ 400,000	
Indianola	9133001	S2015-0386	1920927 01	WWTP Replacement	2020	I, II	295	1	L	\$ 37,918,000		4/17/20	\$ 54,977,000	\$ 17,059,000
Auburn	8104076	W2018-0247	1920931 01	Lagoon Facility Improvements	2020	I	245	1	R	\$ 271,000			\$ 227,000	
Park View Water & Sanitary District	8200902	S2018-0348	1920925 01	Wastewater System Improvements	2020	II	245	1	L	\$0.00		9/11/2020	\$ 5,558,000	\$ 5,859,000
Saint Olaf	2277002	S2018-0159	1920926 01	Wastewater system improvements	2020	II	240	1	L	\$0.00		10/9/20	\$ 250,000	\$ 257,000
Fontanelle	0135001	S2019-0094	1920922 01	Wastewater System Improvements	2020	II	237	1	R	\$ 3,498,000			\$ 2,520,000	
Bloomfield	2613001	S2019-0054	1920921 01	Wastewater system improvements for compliance.	2020	II	235	1	L	\$0.00		8/7/20	\$ 6,870,000	\$ 8,004,000
Tipton	1689001, 1689002	S2017-0094	1920928 01	Wastewater Treatment Plan Improvements 2016	2020	II	232	1	L	\$0.00		7/24/20	\$ 5,648,000	\$ 8,439,000
Glidden	1438001	2016-0396	1920929 01	Wastewater Treatment Plant Improvements	2020	II	224	1	R	\$ 3,980,000			\$ 3,980,000	
Wellsburg	3890001	S2014-0285	1920923 01	Wastewater System Improvements	2020	II	224	1	P	\$ 1,739,000			\$ 1,739,000	
Guttenberg	2242001	S2019-0196	1920924 01	Inflow & Infiltration Improvements	2020	V	172	1	L	\$0.00		8/28/20	\$ 517,000	\$ 500,000
Grundy Center	3833001	2019-0287	1920930 01	2019 Sanitary Sewer Improvements	2020	III-A	145	1	R	\$ 2,407,000			\$ 2,407,000	
Bloomfield	2613001	N/A	PD-CW-19-52	Wastewater Treatment Facility Improvements	2019	P&D	N/A	4	R	\$ 381,100			\$ 381,100	
Mt Pleasant	4453001	S2015-0081	1920919 01	abandon lagoon and pump to main plant. Eliminates a discharge. Add nutrient removal to existing plant and UV disinfection.	2019	I, II & IV-B	324	4	P	\$ 4,020,000			\$ 4,020,000	
Columbus Junction	5815001	S2016-0171	1920913 01	UV disinfection and change outfall location to meet limits in compliance schedule	2019	II	270	4	P	\$ 302,000			\$ 302,000	
Peosta	3150000	S2016-0180	1920912 01	New mechanical plant, activated sludge, nutrient removal, disinfection, sludge handling	2019	I & II	264	4	L	\$0.00		10/9/20	\$ 8,184,000	\$ 6,500,000
Ladora	4840001	S2017-0239	1920911 01	New pumping station, disinfection for the WWTP, and aeration system replacement	2019	II & IV-B	244	4	P	\$ 1,051,000			\$ 1,051,000	
Preston	4965001	S2018-0180	1920910 01	Add Nitrox MBBR to existing lagoons and disinfection	2019	II	224	4	R	\$ 1,427,000			\$ 1,427,000	
Wastewater Reclamation Authority	7727001	S2019-0006	1920914 01	Primary and Final Clarifier rotating mechanism replacements	2019	I	180	4	R	\$ 30,486,675			\$ 30,486,675	

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Spencer	2171004	W2020-0067A	1920920 01	rehab clarifer, add another final clarifier	2019	I	149	4	P	\$ 2,960,000			\$ 2,960,000	
Sumner	0970001	S2019-0180	1920916 01	Sewer relocation and new pumping sstation	2019	III-B & IV-B	149	4	P	\$ 296,000			\$ 296,000	
Mitchellville	7751001	S2018-0295	1920915 01	Replace existing pumping station in collection system	2019	IV-B	137	4	R	\$ 1,603,000			\$ 1,603,000	
Underwood	7869001	S2013-0176B	1920917 01	Pumping Station upgrades to two existing stations	2019	IV-B	132	4	L	\$0.00		7/31/20	\$ 727,000	\$ 727,000
Davenport	8222003	S2018-0145	1920896 01	UV Disinfection	2019	II	260	3	L	\$0.00		8/28/20	\$ 8,490,000	\$ 8,249,000
Cambridge	8509001	S2016-0380	1920902 01	New diffuser to meet ammonia limits and UV disinfection	2019	II	255	3	P	\$ 633,000			\$ 633,000	
Maxwell	8557001	S2017-0135	1920901 01	Lemna system and UV disinfection	2019	II	250	3	R	\$ 3,009,000			\$ 3,009,000	
Eldon	9053001	S2016-0240A	1920903 01	CIPP lining for I&I	2019	IIIA	235	3	R	\$ 1,005,000			\$ 1,005,000	
Tripoli	0975001	S2017-0155	1920900 01	New discharge to Wapsi River, UV disinfection, new raw wastewater pumps	2019	II	232	3	L	\$0.00		10/9/20	\$ 2,010,000	\$ 1,656,000
Bayard	3907001	S2017-0231	1920909 01	Construction of new 3 Cell controlled discharge lagoon system	2019	II	229	3	P	\$ 2,673,000			\$ 2,673,000	
Schleswig	2446001	S2017-0450	1920899 01	New lift station, lemna syste, UV disinfectin, new outfall, and emergency generator	2019	II	224	3	L	\$0.00		9/11/20	\$ 3,748,000	\$ 3,657,000
Fort Dodge	9433003	S2015-0080	1920908 01	Sanitary Sewer Rehabilitation Phase 2	2019	IIIA, IIIB	190	3	R	\$ 15,533,999			\$ 15,533,999	
Ottumwa	9083001	N/A	PD-CW-19-29	Construction of new separate sanitary sewer throughout Blake's Branch Basin	2019	P&D	P&D	2	R	\$ 3,900,000			\$ 3,900,000	
Blairstown	0607001	S2017-0311	1920889 01	Aerated Lagoon with Disinfection	2019	I, II	282	2	R	\$ 1,173,000			\$ 1,173,000	
Lake Mills	9545001	S2017-0385	1920894 01	WWTF Improvements (SAGR)	2019	I, II	277	2	P	\$ 1,799,000			\$ 1,799,000	
Waverly	0990001	S2018-0335	1920892 01	WWTP Improvements	2019	IV-B	205	2	P	\$ 9,132,000			\$ 9,132,435	
Waterloo	0790001	S2017-0196	1920893 01	New Interceptor Sewer	2019	IV-B	175	2	P	\$ 5,771,000			\$ 5,771,000	
Hartford	9128001	S2017-0245	1920877 01	Removal of biosolids from existing lagoons, construction of covered aerated lagoon system with polishing reactor, conversion of existing lagoon into equalization basin, instation of UV disinfection, and addition of emergency generator	2019	I , II	285	1	P	\$ 2,381,000			\$ 2,381,000	
Lone Tree	5240001	S2016-0010	1920883 01	EQ, new WWTP and disinfection	2019	I, II	279	1	L	\$ 2,320,000		6/19/20	\$ 5,862,000	\$ 2,700,000
Osceola	2038002	S2016-0112	1920878 01	Construction of new activated sludge treatment plant, addition of UV disinfection, cogeneration of power from methane digester	2019	I, II	277	1	R	\$ 25,554,000			\$ 25,554,000	
Waterloo (Sanitary Gatewell Repairs	0790001	S2018-0100	1920884 01	new gate wells and sanitary sewer	2019	III-B	185	1	R	\$ 3,581,000			\$ 3,581,000	
Waukee (SW Area Trunk Sewer-Phase 2)	2573001	S2018-0083	1920882 01	extend trunk sewer to provide service to SW area of the city	2019	IV-B	145	1	P	\$ 1,690,000			\$ 1,690,000	
Zwingle	4998001	N/A	PD-CW-18-42	Address permit limits on bacteria and ammonia	2018	II	P&D	4	R	\$ 125,000			\$ 125,000	

Project Name	NPDES No.	Project Number	CWSRF No.	Project Description	IUP Yr	Needs Category	Priority Points	Quarter	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
New Albin	0370001	S2013-0348	1920871 01	Construct new wastewater treatment plant to meet effluent limits, replace aging facilities, and provide redundant operation	2018	I, II	264	4	P	\$ 1,860,000			\$ 1,860,000	
Waukon	398001	S2017-0205A	1920875 01	Construct new wastewater treatment plant to address effluent violations and add UV disinfection and nutrient reduction	2018	I, II	264	4	L	\$ 2,525,000		4/19/19	\$ 12,525,000	\$ 10,000,000
Charles City	3405001	S2016-0468	1920876 G1	Construct major upgrades to wastewater treatment facility to replace aging equipment and accommodate increases from industrial sources	2018	I, II	245	4	L	\$0.00		12/6/19	\$ 16,484,000	\$ 3,000,000
Charles City	3405001	S2016-0468	1920876 R1	Construct major upgrades to wastewater treatment facility to replace aging equipment and accommodate increases from industrial sources	2018	I, II	245	4	L	\$0.00		10/9/20	\$ 14,575,000	\$ 14,575,000
Sigourney	547002	S2016-0181	1920870 01	Installation of submerged growth activated reactor (SAGR) system after existing aerated lagoons to meet requirement of new NPDES permit	2018	II	224	4	R	\$ 5,070,225			\$ 5,070,225	
Ely	5728001	S2018-0133	1920865 01	Extend sanitary sewers to areas currently on individual septic systems and increase sewer capacity in other areas	2018	IVA, IVB	184	4	P	\$ 1,779,000			\$ 1,779,000	
Keokuk	5604001	S2018-0212	1920872 01	Next phase of combined sewer separation under Long Term Control Plan - construct outlet to Mississippi River	2018	V	167	4	P	\$ 14,171,000			\$ 14,171,000	
Nora Springs	3423001	S2016-0216A	CS1920857 G1	New activated sludge wastewater treatment facility to meet effluent limits	2018	II	295	2	L	\$0.00		7/26/19	\$ 242,000	\$ 600,000
Estherville	3218002	S2016-0265	1920849 01	Construction of an activated sludge basin, new blower building, new wastewater and air piping. Abandonment of existing tricking filters. New NPDES permit requires upgrades.	2018	II	237	2	P	\$ 15,926,000			\$ 15,926,000	
Glidden	1438001	N/A	PD-CW-18-07	Construction of a new aerated lagoon facility	2018	I	P&D	1	R	\$ 215,000			\$ 215,000	
Scranton	3759001	S2016-0048	1920847 01	Convert existing aerated lagoon to an enhanced one with the addition of a SAGR system	2018	I, II	290	1	L	\$0.00		1/24/20	\$ 2,137,133	\$ 1,300,000
Scranton	3759001	S2016-0048	1920847 G1	Convert existing aerated lagoon to an enhanced one with the addition of a SAGR system	2018	I, II	290	1	L	\$0.00		7/31/20	\$ 755,000	\$ 770,000

Project Name	NPDES No.	Project Number	CWSRF No.	Project Description	IUP Yr	Needs Category	Priority Points	Quarter	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
Oskaloosa	6273001	S2017-0294	1920845 01	Address inflow and infiltration to prevent bypassing through manhole rehabilitation, sewer replacement, and sewer lining	2018	IIIA	142	1	L	\$0.00		5/25/18	\$ 8,268,000	\$ 3,822,000
Oskaloosa	6273001	S2017-0294	1920845 02	Address inflow and infiltration to prevent bypassing through manhole rehabilitation, sewer replacement, and sewer lining	2018	IIIA	142	1	L	\$0.00		5/10/19	\$ 4,446,000	\$ 3,176,000
Oskaloosa	6273001	S2017-0294	1920845 03	Address inflow and infiltration to prevent bypassing through manhole rehabilitation, sewer replacement, and sewer lining	2018	IIIA	142	1	L	\$0.00		5/1/20	\$ 1,270,000	\$ 1,269,000
Slater	8580001	S2016-0070	1920820 01	Wastewater Treatment Facility Improvements	2017	I,II	267	4	P	\$ 6,322,000			\$ 6,650,000	
Modale	Unknown	N/A	PD-CW-17-30	Lagoon Rehabilitation	2017	I	P&D	3	R	\$ 60,500			\$ 60,500	
Corydon	9334004	S2014-0043	1920815 01	Wastewater Treatment Facility Improvements	2017	II	237	3	P	\$ 3,304,000			\$ 3,304,000	
Hubbard	425001	S2017-0079	1920817 01	Sanitary Sewer Construction and Rehabilitation	2017	IIIA	152	3	L	\$ 1,399,000		12/29/17	\$ 2,176,000	\$ 777,000
Sioux City	9778001	S2016-0389	1920813 01	Improve various treatment plant equipment to renew initial capacity, improve performance, improve reliability and generate biogas.	2017	I,II	217	2	R	\$ 31,983,398			\$ 31,983,398	
Waterloo (CIPP Phase III)	0790001	S2016-0285	1920811 01	Excavating and repairing pipe using traditional methods. Rehabilitate sanitary sewers and rehabilitate manholes that have deteriorated.	2017	III-A	185	2	L	\$ 898,000		5/18/18	\$ 2,498,000	\$ 1,600,000
Waterloo (CIPP Phase III)	0790001	S2016-0285	1920811 02	Excavating and repairing pipe using traditional methods. Rehabilitate sanitary sewers and rehabilitate manholes that have deteriorated.	2017	III-A	185	2	L	\$0.00		9/4/20	\$ 898,000	\$ 1,128,000
Waterloo (Dry Run Creek Interceptor)	0790001	S2015-0280	1920807 01	New lift station, force main and gravity sewer are proposed	2017	IV-B	150	2	L	\$0.00		9/4/20	\$ 4,337,000	\$ 5,138,000
Algona	5502001	S2016-0239	PD-CW-17-04	Rehabilitation and reconstruction of the sanitary sewer collection system	2017	IIIB	P&D	1	R	\$ 130,000			\$ 130,000	
Oelwein	3353001	N/A	PD-CW-16-40	Installation of new sanitary sewer	2016	IVA	P&D	4	R	\$ 33,500			\$ 33,500	
Ames	8503001	S2013-0327	1920741 02	Address Infiltration and inflow into the City's sanitary sewer system utilizing a variety of rehabilitation techniques.	2016	IIIA	145	4	R	\$ 19,421,625			\$ 19,421,625	
Mapleton	6727001	S2015-0440	PD-CW-16-30	Wastewater Treatment Improvements to comply with ammonia nitrogen limits, maintain TSS limits, and meet new NPDES standards	2016	I	P&D	3	R	\$ 225,000			\$ 225,000	

Project Name	NPDES No.	Project Number	CWSRF No.	Project Description	IUP Yr	Needs Category	Priority Points	Quarter	Project Status	Current Requests	Loan Forgiveness	Date Loan Signed	Original Request	Loan Amount
Fort Atkinson	9641001	S2015-0087	1920770 01	Construct a larger Lagoon that will only discharge once a year. Also includes an ultra violet disinfection system.	2016	I, II	290	3	P	\$ 1,249,000			\$ 1,249,000	
Keokuk	5640001	S2015-0088	1920732 01	Sewer Rehabilitation - Phase 1	2015	IIIA	237	4	R	\$ 1,484,700			\$ 1,484,700	
Wastewater Reclamation Authority (supplemental)	7727001	S2009-0219	1920499 02 (Phase 17, Segment 7)	New Main Outfall, Phase 17 Segment 7 final costs	2015	IVB	160	1	R	\$ 10,400,000			\$ 10,400,000	
Ames	8503001	S2013-0326	1920686 01	WPCF Biosolids Storage Tank	2014	II	180	3	R	\$ 1,885,400			\$ 1,885,400	
Dyersville	3130001	S2013-0342	1920690 01	SE Lift Station & Collection System Improvements	2014	IVB	127	3	L	\$0.00		10/9/2020	\$ 1,476,620	\$ 2,800,000
Patterson	6151001	S2011-0078	1920659 01	Upgrade pump station capacity, reduce inflow/infiltration, install new force main with goal of reducing sewer backups	2013	IIIB	165	3	R	\$ 54,540			\$ 54,540	
La Porte City	0743001	S2009-0187	1920620 01	Wastewater treatment plant improvements	2012	I,II	220	2	R	\$ 917,822			\$ 917,822	
Coralville	N/A	N/A	GNS10-4	Green infrastructure practices at the Iowa River Landing	2010	VIIK	120	4	R	\$ 2,950,000	30%		\$ 2,950,000	
										\$ 679,237,960			\$ 842,901,109	\$ 155,861,400
Project Status			Project Needs Categories											
Dropped -- D			I	Secondary Treatment										
Ready for Loan-- R			II	Treatment more stringent than secondary										
Loan Signed -- L			IIIA	Infiltration/Inflow rehabilitation										
Planning Stage -- P			IIIB	Major sewer system rehabilitation										
Green Projects			IVA	New collectors and appurtenances										
Add Subs			IVB	New interceptors and appurtenances										
			V	Correction of combined sewers										
			VI	Stormwater management programs										
			VII	Non-point source control projects;										
			Non-point Source Project Subcategories											
			VIIA	Agricultural cropland sources										
			VIIIB	Animal sources										
			VIIIC	Silviculture										
			VIIID	Urban sources										
			VIIIE	Groundwater protection (unknown sources)										
			VIIIF	Marinas										
			VIIIG	Resource extraction										
			VIIIH	Brownfields										
			VIIII	Storage tanks										
			VIIJ	Landfills										
			VIIK	Hydromodification										
			XII	Decentralized septic systems										

INVESTING IN IOWA'S WATER

FY 2021 INTENDED USE PLANS

Clean Water State Revolving Fund
Drinking Water State Revolving Fund



Approved by the Environmental Protection Commission (EPC) on June 16, 2020. Second Quarter update approved on September 15, 2020. **Third Quarter update approved on December 15, 2020.**

FY 2021 INTENDED USE PLANS
Clean Water State Revolving Fund
Drinking Water State Revolving Fund



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FY 2021 INTENDED USE PLANS

Overview



The Intended Use Plans (IUPs) following this introduction provide a roadmap to the policies and procedures of the SRF programs, along with the lists of projects and activities to be funded. The IUPs outline the proposed management of the Clean Water SRF and the Drinking Water SRF during State Fiscal Year 2021 (July 1, 2020 – June 30, 2021). The IUPs are developed and updated quarterly, in June, September, December, and March or more often as needed. With the SFY 2021 Intended Use Plan and future program plans, Iowa's SRF will continue to help Iowans protect public health and the environment through investing in Iowa's water.

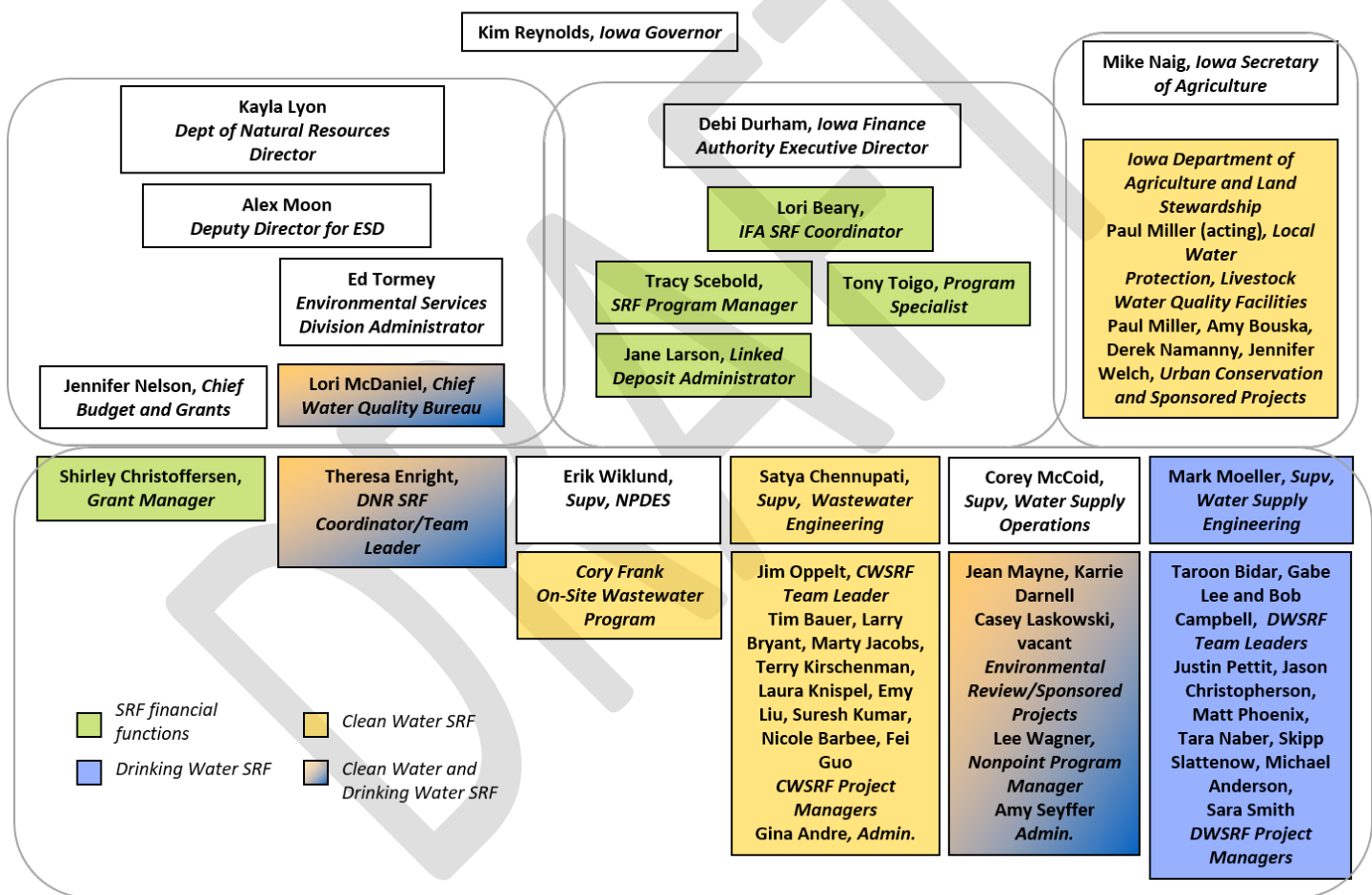
Since 1988, the Iowa State Revolving Fund (SRF) has remained a reliable funding source for Iowans in their pursuit to improve water quality and protect public health. In fact, Iowa's SRF has been recognized for offering some of the most innovative and far-reaching financing programs in the United States. Here are some of the highlights:

- ✓ In the last 30 years, Iowa's SRF has provided more than **\$3.8 billion** in loans for water and wastewater infrastructure, agricultural best management practices, and other water quality projects.
- ✓ Cities, counties, rural water systems, sanitary districts, farmers, livestock producers, homeowners, watershed organizations and others across the state utilize existing SRF programs. Many borrowers come back to the SRF multiple times to finance their ongoing capital improvement projects.
- ✓ Iowa's SRF listens to stakeholders to create programs and financing tools that meet their needs. For example, program innovations such as sponsored projects and loans to farmers and livestock producers are providing effective financing tools for voluntary practices to address nonpoint source pollution control.
- ✓ SRF loans can be used as stand-alone financing or in combination with a wide variety of grants, including other federal water and wastewater assistance programs, state and federal agricultural cost-share, and local sources, along with private investment.
- ✓ Iowa's SRF is based on federal legislation that created the programs as revolving loan funds to provide a dependable, ongoing source of financing. Several sources of money are used to make loans, including federal Capitalization (CAP) Grants, bonds, and loan repayments with interest. No state general funds are provided.
- ✓ Iowa's SRF programs are highly rated in financial markets, giving the programs strong leveraging capacity to keep up with demand for loans.
- ✓ The SRF programs accept applications throughout the year to allow borrowers to apply when their project is ready to proceed. All eligible projects can be funded.

- ✓ Transparency and accountability are commitments the Iowa SRF staff has made to stakeholders. All program plans are issued for public review and comment, with approval quarterly by the Iowa Environmental Protection Commission. Annual reports, IUP's and application requirements are posted on both DNR's and SRF's websites. Email listservs are used to inform stakeholders of program updates.

The unique partnership between the Iowa Department of Natural Resources, the Iowa Finance Authority, and the Iowa Department of Agriculture and Land Stewardship is the foundation for the success of the SRF programs. These agencies work together to deliver streamlined programs and good customer service.

State Revolving Fund Organizational Structure -- Iowa



Iowa's SRF also relies on partnerships with Soil and Water Conservation Districts, county environmental health agencies, watershed and land trust organizations, and lending institutions across the state to implement program and financial goals.

The anticipated use of the SRF programs is steady and even increasing. Several factors will create need for investment in the years to come: higher regulatory standards, aging infrastructure, increased emphasis on

environmental protection, and growth and expansion. In May of 2019, a Memorandum of Understanding (MOU) was signed regarding coordination between EPA and FEMA. The MOU established a framework for the EPA funded State Revolving Fund (SRF) programs to assist and collaborate with FEMA disaster assistance grant programs.

The SRF is not a very flexible tool for emergency response, but the Iowa SRF team is working with communities on a case-by-case basis to provide assistance addressing public health threats related to drinking water and wastewater. Some of the ways the SRF can help include:

- Restructure existing SRF loans. Communities with current financial difficulties may request an extension on the loan term or to delay principal payments. Under certain circumstances, it may be possible to reduce or eliminate interest and fee payments for a period of time.
- Use SRF loans as match for FEMA grants. FEMA funds will generally pay for 75% for the replacement costs for public water and wastewater systems. The SRF can be used for the required 25% match.
- Use SRF funds as short-term loans to be repaid with FEMA grants. There may be times when a public facility has been approved for a FEMA grant but there is a delay in receiving the funds. In those situations, a SRF loan could be used to finance the repairs and then be repaid with FEMA money. When all other requirements are met, loans may be made and then shown on the next quarterly IUP update.
- SRF loans can be used to pay for emergency repairs. The SRF team will work with communities to expedite the normal SRF procedures to the extent possible. While the required environmental review process cannot be waived, the SRF team will use categorical exclusions wherever possible to shorten the review period. When all other requirements are met, emergency loans may be made and then shown on the next quarterly IUP update.

The attached Intended Use Plans (IUPs) outline goals and strategies to be used in managing the Iowa SRF programs during fiscal year 2021. The IUPs will continue to be amended quarterly, with projects added and funding amounts adjusted as needed. While the plans of action outlined in these SFY 2021 IUPs may be amended in subsequent quarters, they are intended to lay out the general direction and goals of the Clean Water and Drinking Water SRF programs.

FY 2021 INTENDED USE PLANS

Clean Water State Revolving Fund



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FY 2021 INTENDED USE PLANS

Clean Water State Revolving Fund



I. STATE FISCAL YEAR 2021 PLAN OF ACTION

The plan is based on anticipated use of new and revolved funds available in the CWSRF for funding water quality protection needs, including both publicly owned wastewater infrastructure and nonpoint source water protection projects.

The CWSRF loan program consists of three main program areas:

- The purchase of debt obligations for wastewater and some storm water projects is provided through the CWSRF to publicly owned facilities
- Direct loans, loan participation and linked deposit financing approaches address nonpoint source programs
- Water Resource Restoration Sponsor Program (Sponsored Projects) addresses nonpoint source problems via interest rate reductions on wastewater loans

The SFY 2021 Plan of Action covers the following areas:

- CWSRF goals and objectives
- Current and projected financial capacity of the CWSRF
- Financial management strategies
- Plan for the SFY 2021 Project Priority List
- Plan for Nonpoint Source Assistance Programs
- Plan for use of administrative accounts

CWSRF Goals and Objectives

The primary long-term goal of the Iowa CWSRF is to protect the environment and public health and welfare through a perpetual financial assistance program. While there have been changes to the CWSRF in recent years due to federal legislation, no major program updates are anticipated in SFY 2021.

The SFY 2021 short-term goals and objectives are as follows:

- Goal: Commit loan funds to as many recipients as possible in accordance with the state priority rating system, the IUP, staff resources, and available funding, in order to assist in the construction of projects with the highest water quality impacts. *Objective: During SFY 2021, quarterly updates to the IUP will be prepared to add projects and update program financial information. Sponsored project applications will be taken and added to the IUP twice per year. Projects approved under the Nonpoint Source Assistance Programs will be funded on a continuous basis from the funds reserved for those programs.*
- Goal: Require applicants to engage a registered Municipal Advisor (MA). *Objective: During SFY 2021, all applicants submitting an Intended Use Plan application must demonstrate that they have hired an MA to assist with cash flows, rate setting, debt service coverage, and other financial aspects of their wastewater utility. The SRF program will reimburse up to \$4,000 of the MA fee to the borrowers.*

- Goal: Implement the “Use of American Iron and Steel (AIS)” requirements enacted by Congress on January 17, 2014. *Objective: During SFY 2021, SRF staff will help applicants determine eligibility for the exemptions and waivers provided for in the Act and EPA guidance. SRF staff will provide information to those applicants required to comply on necessary documentation and inspection procedures. SRF will engage DNR Field Office staff to conduct site visits and provide technical assistance.*
- Goal: Fund green projects to meet the requirements of the Green Project Reserve (10% of Cap Grant). *Objective: During SFY 2021, the Iowa SRF plans to fund green projects as required in the FFY 2018, 2019 and 2020 Capitalization Grants. Iowa has already complied with the GPR requirements of previous Capitalization Grants.*
- Goal: Develop plans for allocating loan forgiveness required in FFY 2018, 2019 and 2020 Capitalization Grants (20% of Cap Grant). *Objective: During SFY 2021, SRF staff plans to approve plans and specifications and execute loans or loan amendments with loan forgiveness for the amounts required in the FFY 2017, 2018, 2019 and 2020 Capitalization Grants. Iowa has complied with the additional subsidization requirements for all previous Capitalization Grants.*
- Goal: Comply with grant reporting conditions. *Objective: During SFY 2021, the Iowa SRF plans to enter data into the CWSRF National Information Management System (NIMS) and the CWSRF Benefits Reporting (CBR) system.*
- Goal: Comply with EPA guidance on reporting under the Federal Funding Accountability and Transparency Act (FFATA). *Objective: In the Annual Report, SRF staff will list loans that met the several requirements of FFATA for open CAPITALIZATION Grants. Grants may not be closed out until equivalency amounts can be reported. Loans reported for FFATA will meet equivalency requirements for the following:*
 - *Section 602(b) (14) of the Clean Water Act: “A contract to be carried out using funds directly made available by a Capitalization Grant...for program management, construction management, feasibility studies, preliminary engineering, design, engineering, surveying, mapping, or architectural related services shall be negotiated in the same manner as a contract for architectural and engineering services is negotiated under Chapter 11 of title 40, United States Code...”*
 - *Federal socioeconomic cross-cutters*
 - *Federal environmental cross-cutters*
 - *EPA signage guidance*
 - *Single audit requirements*
- Goal: Comply with EPA guidance on cost and effectiveness requirements under Section 602(b)(13) of the Clean Water Act, which states: “Beginning in (federal) fiscal year 2016, the State will require as a condition of providing assistance...that the recipient of such assistance certify...that the recipient – A) has studied and evaluated the cost and effectiveness of the processes, materials, techniques, and technologies for carrying out the proposed project...; and B) has selected, to the maximum extent practicable, a project or activity that maximizes the potential for efficient water use, reuse, recapture, and conservation, and energy conservation, taking into account – i) the cost of constructing the project or activity; ii) the cost of operating the project or activity over the life of the project or activity; and iii) the cost of replacing the project or activity.” *Objective: During SFY 2021 CWSRF will require applicants*

whose project requests were placed on the IUP after October 1, 2015 to submit a self-certification form indicating compliance with this requirement.

- Goal: Promote and identify sustainable practices in projects proposed for funding. *Objective: During SFY 2021 SRF staff will provide information on the EPA's Sustainability Policy to applicants and include sustainability features in project descriptions.*
- Goal: Continue to implement the Water Resource Restoration Sponsor Program authorized in Iowa Code 384.84. *Objective: During SFY 2021, SRF staff will receive applications twice per year for Sponsored Project funding. Application deadlines will be in September and March. In conjunction with watershed coordinators, Iowa Department of Agriculture and Land Stewardship urban conservationists, and others, SRF staff will evaluate the applications and prepare a list of proposed projects for the IUP.*
- Goal: Comply with the EPA Signage Guidance. *Objective: During SFY 2021 SRF staff and recipients will notify the public in the most effective ways possible about assistance agreements and benefits of the CWSRF program in order to enhance public awareness of EPA assistance agreements nationwide. The Iowa SRF program sends out press releases listing all SRF loans that have closed and borrower contact information.*

Additional long-term goals include:

- Goal: Work with other state and federal agencies to coordinate water quality funding. *Objective: During SFY 2021, SRF staff will meet regularly with staff from the Community Development Block Grant program, and USDA Rural Development. SRF staff will also coordinate funding with new state Water Quality Initiative grants for nonpoint source projects.*
- Goal: Apply program requirements that are simple and understandable and do not add unnecessary burdens to applicants or recipients. *Objectives: During SFY 2021 SRF staff will continue to assist applicants with completing the federal cross-cutting requirements for environmental and historical review. Staff will not be responsible for Davis-Bacon compliance but will advise borrowers as needed. Borrowers will be responsible for compliance and may hire outside consultants to assist.*
- Goal: Continue the option of extended financing terms for CWSRF infrastructure projects. *Objective: During SFY 2021 this option will be offered to current and new projects on the project priority list. Applicants seeking extended financing must complete a worksheet outlining the anticipated life of the project components, which can be averaged to determine the extended term.*
- Goal: Maintain mechanisms for funding the on-going administration of the program if federal funding is reduced or eliminated. *Objective: During SFY 2021 initiation and servicing fees will be collected on CWSRF loans for deposit to administrative accounts. SRF staff will develop short and long-term plans for administrative budgets.*
- Goal: Manage the CWSRF to maximize its use and impact through sound financial management. *Objective: During SFY 2021 SRF staff and financial advisors will continue to conduct financial analysis and develop innovative approaches to financial management.*

- Goal: Implement programs that effectively address water quality needs and target appropriate audiences. *Objective: During SFY 2021 SRF staff will continue to educate users and potential users about the program offerings through presentations, displays, program materials, and the IowaSRF.com website.*
- Goal: Update the CWSRF Operating Agreement. *Objective: In the future, SRF staff will work with EPA Region 7 to update or dissolve the Clean Water SRF Operating Agreement between DNR and EPA. The agreement has not been updated since 2007 and the EPA is evaluating the future use of Operating Agreements in Region 7 states. A draft letter was shared with Iowa last fiscal year which proposes the elimination of the Operating Agreement between Region 7 states and EPA. That letter is awaiting final approval by EPA.*

Current and Projected Financial Capacity of the CWSRF

Appendix A, the Estimated Sources and Uses table, shows that funds are available to fund current requests. The leveraging capacity of the CWSRF is robust due to the maturity of the fund and the current loan portfolio. SRF staff has analyzed the future financial capacity of the CWSRF in light of the discussion over water quality standards and other future wastewater needs. Assuming continued Capitalization Grants, 10% loan forgiveness and the same interest rates, it is projected that the CWSRF could loan an average of \$290 million per year over the next 10 years, or a total of \$2.9 billion. If we assume no additional Capitalization Grants but keep the same interest rates, the CWSRF could loan an average of \$231 million per year over the next 10 years. Those amounts would increase if we were to increase the interest rate.

Financial Management Strategies

The CWSRF Project Priority List (attached) show total loan requests for wastewater projects. Because many of these projects are in the planning phase, they are not expected to sign a binding loan commitment during this fiscal year. The projected timing and demand for loan draws is reflected in the sources and uses table (Appendix A). Other uses for CWSRF program funds in SFY 2021 include \$22.8 million reserved for the Nonpoint Source Assistance Programs.

The cash draw procedure used is the direct loan method. The Iowa CWSRF program uses its equity fund to originate loans. When a sufficient number of loans have been made, the SRF program issues bonds and uses the bond proceeds to replenish the equity fund. Iowa's bonds are cross-collateralized across both the Clean Water and Drinking Water SRF accounts. State match bonds are issued at the same time that leveraged bond issues are done for greater cost effectiveness. State match is fully disbursed prior to drawing EPA Capitalization Grant funds. The EPA Capitalization Grant funds will be drawn at a 100% proportionality ratio.

Iowa was awarded the FFY 2020 Capitalization Grant in May 2020. The Iowa SRF program issued bonds in February 2019 which included the state match for FFY 2019 and FFY 2020 Capitalization Grants. The program issued bonds in February 2020 which included the estimated state match for future Capitalization Grants.

SFY 2021 Project Priority List

The management of the CWSRF program includes a priority list of projects for loan assistance, which has been developed according to DNR rules 567 IAC 92 (455B).

With the available CWSRF funds, this IUP provides a projection of loan funding assistance for applications in priority order determined by point source rating criteria defined in 567 IAC 91 (455B). This priority list will be

amended on a quarterly basis during SFY 2021. Attachment 1 constitutes the project priority list.

Due to the project workload and for planning purposes, the CWSRF staff may evaluate projects that have been on the IUP list for more than three years. A notification will be sent to the applicants that their project may be dropped if there is no progress in the six months following the notice. If a project is dropped, the applicant may reapply when the project is ready to move ahead.

For program planning purposes, the fundable projects are further identified as “R – ready for loan” (indicating that the construction permit and environmental review have been completed), and “P – in planning.”

The following categories of projects will be included for funding during SFY 2021 and are included on Attachment 1:

Unfunded Prior Years’ Section 212 Projects: These are loan requests remaining on the project priority list from previous years’ IUPs. It is Iowa’s intention to make CWSRF loans to these projects during SFY 2021 if they are ready for a binding loan commitment.

Segments of Previously Funded Section 212 Projects. State rules provide that subsequent segments of a project, which has previously received funding priority or assistance, be placed on the project priority list ahead of new projects. Segmented projects will be added to the SFY 2021 project priority list as received.

New Section 212 Projects. New applications for assistance during SFY 2021 will be added to the project priority list. Applications will be accepted on a continuous basis during SFY 2021 with quarterly updates completed as needed. Intended Use Plan applications can be found on the SRF website at www.iowasrf.com and on the DNR Wastewater Construction Permit website at <https://www.iowadnr.gov/Environmental-Protection/Water-Quality/Wastewater-Construction/Construction-Permits> and submitted to srf-iup@dnr.iowa.gov.

Supplemental Financing. Supplemental financing for projects listed in previously approved IUPs are added to the IUP as they are requested unless the additional funds will be used for improvements that would significantly change the scope of the project. Additional environmental review may be required. Supplemental loans will not be provided for changes that are ineligible for funding.

Planning and Design Loans. Planning and design loans are provided at 0% interest for up to three years to cover the costs of preparing facility plans and project specifications. The loans will be rolled into CWSRF construction loans or repaid by another source of permanent financing. Planning & Design Loan applications can be found on the SRF website at http://www.iowasrf.com/program/planning_design_loans/.

Water Resource Restoration Sponsor Program

The project category called water resource restoration or “sponsored projects” provides wastewater utilities with the opportunity to fund locally directed, watershed-based, nonpoint source projects that address water quality issues.

Iowa Code chapter 384.84 authorizes these projects to be financed with sewer revenues. On a typical CWSRF loan, the utility borrows principal and repays principal plus interest. On a CWSRF loan with a sponsored project, the utility borrows for both the wastewater improvement project and the sponsored project. The overall interest rate on the total amount of principal borrowed is reduced so that the utility’s ratepayers do not pay any more than they would have for just the wastewater improvements. Instead, two water quality projects are accomplished for the cost of one.

- For loans up to 20 years, the interest rate on the combined infrastructure/sponsored project loan will be reduced to not lower than 0.75%. The maximum amount allowed for eligible sponsored project costs is \$100,000 per \$1 million borrowed.
- The amount of funds reserved in SFY 2021 for Water Resource Restoration Sponsor Program interest rate reductions is \$10 million. In order to fund all eligible applications, the DNR reserves the right to cap individual application funding awards at a percentage of the total amount allocated for Sponsored Projects.

Applications will be taken during SFY 2021 on September 15, 2020 and March 1, 2021. Communities or wastewater utilities interested in applying for an SRF Water Resource Restoration Sponsored Project should note the upcoming deadlines:

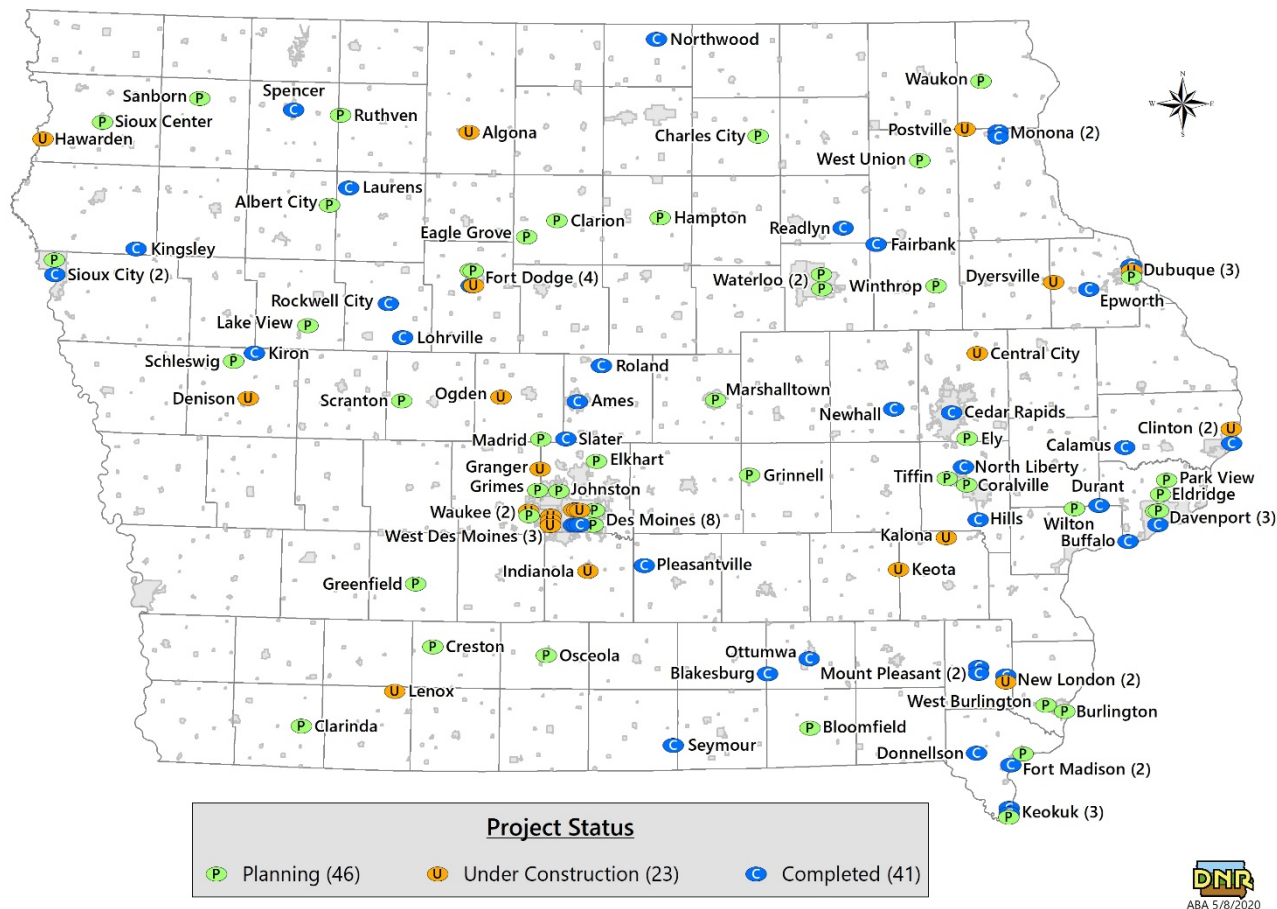
December 18, 2020: Deadline to hold a pre-application conference call with DNR. The call is mandatory with the purpose of discussing potential projects, getting technical advisors involved early and going over the application requirements.

March 1, 2021: Deadline to submit a sponsored project application. The Sponsored Project application for the March 2021 application deadline ~~will be is now available. after September 1, 2020.~~

Explanations of eligible applicants and projects, as well as specific application requirements, are outlined in the SFY 2021 Sponsored Project Application (see Attachment 2). This information is also available online at: http://www.iowasrf.com/about_srf/sponsored_projects_home_page.cfm

The applications proposed for funding in SFY 2021 are listed in Appendix D. The map below shows the project locations for approved sponsored projects through the end of SFY 2020.

WATER RESOURCE RESTORATION SPONSORED PROJECTS, SFY2020



Plan for Nonpoint Source Assistance Programs

Iowa authorizing legislation and state administrative rules allow the use of CWSRF program funds for nonpoint source pollution control projects. Four Nonpoint Source Assistance Programs have been established which target areas of need allowed under federal guidance and identified in the state Nonpoint Source Water Quality Management Plan:

- The On-Site Wastewater Systems Assistance Program (OSWAP), provides loans to homeowners to replace inadequate septic systems. New systems are certified by county sanitarians.
- The Local Water Protection (LWP) Program, addresses soil, sediment, and nutrient control practices on agricultural land. DNR contracts with the Iowa Department of Agriculture and Land Stewardship, which operates the program through local Soil and Water Conservation Districts.
- The Livestock Water Quality Facilities (LWQ) Program, assists livestock producers with manure management plans, structures, and equipment. Facilities with fewer than 1,000 animal unit capacity are eligible. DNR contracts with the Iowa Department of Agriculture and Land Stewardship, which operates the program through local Soil and Water Conservation Districts.

- The General Nonpoint Source (GNS) Program, supports a wide variety of other water quality protection efforts. Projects include habitat and wetland restoration, landfill closure, lake restoration, and watershed planning. Funding for Storm Water Best Management Practices loans is also included in this program. Projects that involve purchase of land require separate approval by the EPC. These projects are listed in Appendix E.

Loans for these four Nonpoint Source Assistance Programs are made through participating lenders through either a linked deposit arrangement or loan participation. For linked deposits, SRF funds are deposited with a participating lender and are used to reduce the interest rate on the loan. For loan participations, SRF funds are used to purchase an existing loan from a lender.

The table below outlines the current and proposed allocations planned for the four programs. These allocations may be amended based on need and the financial capacity of the CWSRF.

Nonpoint Source Assistance Programs	Proposed SFY 2021 Amount
Onsite Wastewater Assistance Program (OSWAP)	\$1.8 million
Local Water Protection Program (LWPP)	\$5.0 million
Livestock Water Quality Facilities Program (LWQ)	\$6.0 million
General Nonpoint Source Program (GNS)*	\$10.0 million
TOTAL	\$22.8 million

**GNS projects that receive a direct loan are not included in this allocation and are listed individually on the CWSRF project priority list (Attachment 1).*

Plan for Use of Administrative Accounts

There are three distinct funding sources for CWSRF administrative expenses:

- The CWSRF administrative Capitalization Grant set-aside. Iowa intends to take or reserve 4% of the federal Capitalization Grant funds for program administration.
- Loan initiation fees. A 0.5% loan origination fee will be charged on new CWSRF loans. The maximum amount charged is \$100,000. Under EPA rules, because Iowa's origination fees are financed through the loans, the proceeds are considered program income. Program income can only be used for the purposes of administering the CWSRF program or for making new loans.
- Loan servicing fees. A servicing fee of 0.25% on the outstanding principal is charged on CWSRF loans. Under EPA rules, only servicing fees received from loans made above and beyond the amount of the Capitalization Grant and after the Capitalization Grant under which the loan was made has been closed are considered Non-Program Income. Non-Program Income can be used to administer the program or for other water quality purposes. The uses of Non-Program Income are discussed below.

Program Income. It is estimated that Program Income collected in SFY 2021 will be approximately \$1 million dollars and will be used for administering the SRF Program. Program Income is replenished throughout the fiscal year by funds received from loan initiation fees as described above.

Non-Program Income. There is approximately \$11.8 million available in funds considered Non-Program Income.

Planned Expenses. CWSRF expenses for administering the SRF Program are estimated to be approximately \$3 million this fiscal year. This includes the work of wastewater engineering section project managers, specialists in

environmental review, nonpoint source program administrators, financial officers, loan coordinators, and program managers. It also covers expenses for financial and legal advisors. These program expenses will first be paid out of Program Income and then Non-Program Income once Program Income has been fully expended.

DNR intends to use a portion of Non-Program Income funds during SFY 2021 to support staffing to the Field Services Bureau for wastewater compliance activities including inspections, investigations and technical assistance and to support staffing in the Water Quality Bureau for construction permitting, National Pollution Discharge Elimination System permitting, and other programmatic staffing needs.

II. INFORMATION ON THE CWSRF ACTIVITIES TO BE SUPPORTED

Allocation of Funds

Allocation of funds to eligible projects was based on a four-step process:

1. The amount of financial assistance needed for each application was estimated.
2. The sources and allowable uses of all CWSRF funds were identified.
3. The CWSRF funds were allocated among the projects, consistent with the amount available and the financial assistance needed.
4. A designated amount was reserved for each Nonpoint Source Assistance Program based on past funding and expected future needs.

Information pertinent to each CWSRF project is contained in Attachment 1, pursuant to Section 606(c) (3) of the Clean Water Act.

Sources and Uses of Available CWSRF Funds

FFY 2019 Capitalization Grant was awarded in the amount of \$21,505,000. In March 2020, the Iowa SRF Program applied for the FFY 2020 Capitalization Grant in the amount of \$21,508,000. Those funds were awarded in May 2020. Appendix A to the Intended Use Plan illustrates potential sources and uses of funds in the CWSRF for SFY 2021. As shown, all pending loan requests and program administration needs can be funded. Projects will draw on their funding at different intervals based on their construction cycles. These differences are used to estimate cash needs throughout the year. Appendix A will be updated quarterly as needed to provide an ongoing view of the financial plan for meeting loan requests.

Iowa's SRF program issues bonds as needed. These bond issues include the state match for the next federal Capitalization Grants (see Appendix F). On February 27, 2020, IFA issued \$201,825,000 of SRF bonds. Of that amount, \$10,000,000 for Clean Water state match and \$8,000,000 for Drinking Water state match was deposited in the respective state match accounts. After the bonds are issued, the state match is spent first so the Capitalization Grant can be drawn down at 100% when it is received. All state match funds have been disbursed to loan recipients.

Section 212 Projects Program Policies

Project Scope. The scope of the project must be outlined on the Intended Use Plan application and in the facility plan. Changes to the scope are allowed prior to loan closing. Significant changes in scope may cause delays if additional work is required by the project manager or environmental review specialist. Once a loan is signed, only minor changes to the scope are allowed and only if the changes do not require additional technical or environmental review.

Loan Interest Rates. Interest rates for CWSRF planning and design loans are 0% for up to three years.

The interest rates for construction loans made from the CWSRF are as follows:

Loan Term	Applicant Type	Interest Rate	Servicing Fee	Total
Standard (up to 20 years)	All	1.75%	0.25%	2.00%
Extended (21 to 30 years based on useful life)	Disadvantaged*	1.75%	0.25%	2.00%
Extended (21 to 30 years based on useful life)	Non-Disadvantaged	2.75%	0.25%	3.00%

*Communities must be determined to be disadvantaged based on criteria in Iowa Code section 455B.199B, Disadvantaged Communities Variance, as amended by Senate File 407 on April 28, 2011. These criteria include income and unemployment data. SRF staff will also consider population trends, providing 1 point for communities with projected increases or decreases in population. Population trends are also reviewed as part of the construction permitting process as required in Iowa Administrative Code 567 Chapter 64.2(9).

Loan Fees. A 0.5% origination fee is charged on the full loan amount for new CWSRF construction loans, with a maximum amount of \$100,000. No origination fees are charged on planning and design loans. A .25% servicing fee is charged on construction loans. Payment of the loan servicing fee is semi-annual with interest payments for all new SRF loans. Loan servicing fees are charged on the outstanding principal balance.

Financing Term. Loan terms can be up to 30 years. Any project may request an extended term. The length of the term is based on a calculation of the average useful life of the entire project, determined by the applicant's consulting engineer and approved by DNR.

Maximum Financing. There is no maximum financing amount.

Project Readiness. Applicants cannot be offered assistance until they meet program requirements. More information can be found in the Wastewater Engineering Construction Permitting Process Manual at <https://www.iowadnr.gov/Environmental-Protection/Water-Quality/Wastewater-Construction/Construction-Permits>.

Funding Limitations. Pending loans identified in this IUP do not exceed funds obtainable for the CWSRF program.

Plan for Efficient and Timely Use of CWSRF Funds

The State of Iowa's Clean Water State SRF uses federal Capitalization Grant funds as expeditiously as possible. Iowa has been able to use its federal Capitalization Grant funds in a timely way due to a robust and sustained demand for loans. A number of program features have spurred the growth in loan demand. These include:

- Improvements and streamlining in the wastewater construction permitting process, which reduced timelines for project review and approval

- Allowing applicants to pursue phased approach for projects to enable individual phased projects proceed timely to construction instead of waiting on approval on a large project
- Planning and design loans at 0% interest for three years to provide upfront capital to get projects started and ready for construction and loan closing
- Year-round application process with quarterly updates to the Intended Use Plan, which keeps projects in the loan pipeline on a continual basis
- Expansion of nonpoint source and green infrastructure programs to include loans for farmers, livestock producers, watershed organizations, and others
- Extended term financing, based on project useful life, which allows more utilities to benefit from the CWSRF
- Environmental review services to complete assessments of impacts to natural and cultural resources, reducing costs and barriers to participating in the loan program
- Focus on marketing, customer and consultant education, and coordination with other funders

When Capitalization Grants are awarded, those funds are drawn down first based on guidance from the U.S. EPA. Loan disbursements are made weekly. In 2019, Iowa's CWSRF disbursements averaged \$14 million per month.

With a return of \$4.18 for every dollar of federal investment (compared to the national average of \$2.84), Iowa's CWSRF is an efficient and effective delivery mechanism for water infrastructure funding.

The practices described above are currently working well for Iowa and will be continued through SFY 2021.

Water Quality Management Planning

A reserve for water quality management planning as required by Title VI of the Clean Water Act will be set aside from Iowa's Title VI allotments and granted to the state for this purpose separately from the CWSRF. This reserve does not appear in this IUP as it has been already deducted from Iowa's allotment and taken into account in projecting Iowa's available Capitalization Grant.

SEE Salary Funds Deducted from Capitalization Grant

These positions are filled by EPA Region 7 and assigned to the DNR's Wastewater Engineering section to provide technical and administrative assistance to the CWSRF projects and program. The SEE enrollees help provide staffing at Iowa DNR to maintain the CWSRF program and keep up with the increasing CWSRF project technical and administrative work load. Authorized under the Environmental Programs Assistance Act of 1984 (PL 98- 313), the SEE program is intended "to utilize the talents of older Americans in programs authorized by other provisions of law administered by the Administrator in providing technical assistance to Federal, State, and local environmental agencies for projects of pollution prevention, abatement, and control."

III. ASSURANCES AND SPECIFIC PROPOSALS

Iowa will provide the necessary assurances and certifications according to the Operating Agreement between the State of Iowa and the U.S. EPA.

IV. CRITERIA AND METHOD FOR DISTRIBUTION OF FUNDS

Section 212 Infrastructure Projects

The following approach was used to develop Iowa's proposed distribution of CWSRF funds for Section 212 infrastructure projects: (1) analysis of the priority of communities applying and financial assistance needed; (2) identification of the sources and spending limits of available funds; (3) allocation of funds among projects; (4) development of a payment schedule which will provide for making timely binding commitments to the projects selected for CWSRF assistance; and (5) development of a disbursement schedule to pay the project costs as incurred.

Allocation of Funds Among Projects. All projects listed in the CWSRF Project Priority List (attached) are eligible for assistance and may be funded from the CWSRF subject to available funds.

All projects scheduled for funding with Iowa's CWSRF will be reviewed for consistency with appropriate plans developed under sections' 205(j), 208, 303(e), 319 and 320 of the Clean Water Act, as amended. Evidence of this review and finding of consistency will be documented in each CWSRF project file.

Priority of Communities and Financial Assistance Needed. Iowa law provides only for loan assistance. Additional subsidization required by federal Capitalization Grant conditions will be through forgivable loans. The state's CWSRF rules identify the priority rating system used to establish priorities for loan assistance.

Capitalization Grant Requirements. The FFY 2016 - 2020 Capitalization Grants include requirements for minimum and maximum percentages of the funds to be allocated for additional subsidization and/or green projects. Iowa will comply with these requirements. The specific projects that have received add subs or been counted for the GPR are listed in Appendix C. Iowa will satisfy the amounts required in the FFY 2018 and 2019 Capitalization Grants. Time limits may be established on loan forgiveness awards.

FFY 2020 Capitalization Grant was awarded in May 2020. Iowa will comply with additional subsidization and/or green project allocation requirements and will identify recipients of those funds during this fiscal year.

	Add Subs Rqd.	Add Subs Actual	%	GPR Req'd.	GPR Actual	%
2017	\$ 1,794,400	\$ 1,794,400	100%	\$ 1,794,400	\$ 21,236,103	1183%
2018	\$ 2,172,300	\$ 1,982,400	91%	\$ 2,172,300		0%
2019	\$ 2,150,500		0%	\$ 2,150,500		0%
2020	\$ 2,150,800		0%	\$ 2,150,800		0%

Nonpoint Source Assistance Programs

Nonpoint Source Assistance Programs include funds reserved for the Onsite Wastewater Assistance Program (OSWAP), Livestock Water Quality Facilities (LWQ), Local Water Protection (LWP) and General Nonpoint Source (GNS). These funds implement the intent of Iowa statute to use CWSRF funds to improve residential wastewater systems, to assist owners of existing animal feeding operations to meet state and federal requirements, for local water protection projects that will provide water quality improvement or protection and for general nonpoint source projects that will provide water quality improvements or water quality protection. These systems are addressed as a need by Iowa's State Nonpoint Source Management Plan. Individual loan applicants for all Nonpoint Source Assistance Programs operated as linked deposit and loan participation are not identified in this IUP. Only GNS projects with a direct loan will be listed on the project priority list.

V. METHOD OF AMENDMENT OF THE INTENDED USE PLAN

This IUP will be followed by the State in administering CWSRF funds in SFY 2021. Federal and state law requires, and Iowa welcomes, opportunity for public participation in the development of the IUP. Any revisions of the goals, policies and method of distribution of funds, must be addressed by a revision of the IUP, including opportunity for public participation. Updates to the IUP to add projects to the priority list, to make program changes, or to adjust dollar amounts reserved for Nonpoint Source Assistance Programs, will be made quarterly as needed. Minor adjustments in funding schedules and loan amounts are allowed by the procedures of this IUP and state rules for administration of the CWSRF without public notification.

VI. PUBLIC REVIEW AND COMMENT

A public meeting to allow input to Iowa's SFY 2021 IUP and Project Priority List was held May 14, 2020, 10:00 a.m. via conference call. This meeting was announced in a notice provided to stakeholder organizations representing city officials, consulting engineers, county governments, councils of government, area planning agencies, and other groups which might have an interest. There were no attendees. The public comment period was open until May 21, 2020. There were no written comments received but a correction to loan forgiveness and updates to program maps and grant awards were incorporated into this document during the comment period.

A public meeting to allow input to Iowa's SFY 2021 Q2 IUP and Project Priority List was held August 13, 2020, 10:00 a.m. via conference call. This meeting was announced in a notice provided to stakeholder organizations representing city officials, consulting engineers, county governments, councils of government, area planning agencies, and other groups which might have an interest. There were no attendees. The public comment period was open until August 20, 2020. There were no written comments received.

A public meeting to allow input to Iowa's SFY 2021 Q2 IUP and Project Priority List was held November 12, 2020, 10:00 a.m. via conference call. This meeting was announced in a notice provided to stakeholder organizations representing city officials, consulting engineers, county governments, councils of government, area planning agencies, and other groups which might have an interest. There were 3 attendees but no comments were taken for the record. The public comment period was open until November 19, 2020. There were no written comments received.

VII. PROJECT PRIORITY LIST

Attachment 1, the CWSRF Project Priority List, is included in a separate, sortable Excel file.

VIII. SPONSORED PROJECT APPLICATION PACKET

Attachment 2, contains the CWSRF Sponsored Project Application Instructions and Application Form which includes program guidelines, specific application requirements and forms, and provides explanations of eligible applicants and projects.

APPENDIX A

Iowa CWSRF State Fiscal Year 2021 Q3
 Estimated Funding Sources and Funding Uses
 As of 10/20/20

Funding Sources

Funds Available in Equity Fund, Bond Proceeds and Program Accounts	\$228,510,000	*
FFY 2020 Capitalization Grant	\$0	
FFY 2021 Capitalization Grant	\$21,508,000	**
State Match Bond Proceeds for FFY 2019/20 Capitalization Grants	\$0	
State Match Bond Proceeds for FFY 2021/22 Capitalization Grants	\$0	
Issuance of Leveraged Bonds (Next Bond Issue Expected SFY21)	\$0	**
Equity Fund and Program Interest Earnings	\$330,000	
Loan Repayments	\$110,566,000	
Total Funding Sources	\$360,914,000	

Funding Uses

Undisbursed Amounts Committed to Existing Loans (50% disbursement rate)	\$130,366,000
Section 212 Project Requests (FNSI/CX issued; 25% disbursement rate)	\$48,597,000
Section 212 Project Requests (FNSI/CX not issued; 15% disbursement rate)	\$59,112,000
Planning & Design Requests (50% disbursement rate)	\$8,572,000
Non-Point Source Program Assistance	\$21,218,000
Principal Payments on Outstanding Bonds	\$44,820,000
Interest Payments on Outstanding Bonds	\$48,229,000
Program Administration From FFY20 Capitalization Grant	\$0
Program Administration From FFY 21 Capitalization Grant	\$0
Total Funding Uses	\$360,914,000

* Funds Available for disbursements as of 10/20/20

** Estimated only

*** Loan disbursement rates are estimated based on previous experience with project pace. For projects that currently have not had a Finding of No Significant Impact or Categorical Exclusion issued, it is expected that up to 15% of the total project amounts may be disbursed once environmental review is completed, construction permit issued, and binding loan commitment signed. For those projects with FNSI/CX clearance, the disbursement rate is estimated at 25% of the loan request amount.

All amounts are rounded to the nearest \$1,000

APPENDIX B-1

PROCEDURES TO DETERMINE SECTION 212 PROJECT PRIORITY LIST

Project rankings were determined by the following procedures:

Cost eligibility of projects was determined as per 567 IAC 92.7(6) (455B). Applications were evaluated using the priority point system in 567 IAC 91.8(455B).

The final project priority list for a fiscal year's project pool is compiled in the following manner: subsequent segments of projects funded by CWSRF loan programs of previous years will be ranked at the top; projects ranked in the current year application group will then be added.

Projects on the project priority list will be given contingency status should the total amount of needs exceed the year's CWSRF staff resources capability and loan funding or if the projects have not met the fundable criteria described in 567 IAC 92.6(2)(455B). Projects will be funded from the top down in the ranking order of the project priority list. Projects are ranked similarly in the contingency project list. The top project in the contingency list can be moved to the funding list when funds are available or it has met the fundable criteria. Funds can be made available due to a number of reasons including project bypasses, loan application withdrawal of other projects, reduction in loan amount requests, an increase in available funds, or progress in meeting program requirements.

APPENDIX B-2

CRITERIA TO DETERMINE PROJECT PRIORITY LIST

In April 2010 Iowa adopted revised rules for the Clean Water State Revolving Fund (CWSRF). 567 IAC 91 provides the criteria for scoring and ranking CWSRF projects. The new system uses an integrated approach which allows comparison of Section 212 POTW (publicly owned wastewater treatment works) projects as well as nonpoint source pollution control projects. The goal of the new system is gain the highest water quality benefits for the funding available.

Currently Iowa is able to fund all projects that are eligible, but the priority system will be available to use in the case that demand for CWSRF loans exceeds supply of funds.

Section 212 POTW Projects

The rating criteria consider the use classification of the receiving waters, water quality of the receiving waters, groundwater protection, project type, project purpose, and a tiebreaker; defined in 567 IAC 91.8 (455B). Priority ranking for the projects shall be based on the total points awarded for all the categories; the greater the total number of points, the higher the ranking. The ranking will be done at the time the IUP is prepared and will not be updated during the year. The tie breaker category will be used when necessary.

Nonpoint Source Assistance Programs

The rating criteria consider the use classification of the receiving waters, water quality of the receiving waters, groundwater protection, project type, project purpose, and a tiebreaker; defined in 567 IAC 91.8 (455B). Priority ranking for the projects is based on the total points awarded for all the categories; the greater the total number of points, the higher the ranking. The priority system for Nonpoint Source Assistance Programs projects will not be implemented until 90 percent of the funds reserved for that program have been allocated and no additional funds are available. If that occurs, ranking will be done at the time that a new project application is received.

APPENDIX C**BORROWERS RECEIVING ADDITIONAL SUBSIDIZATION OR COUNTED FOR GREEN PROJECT RESERVE (GPR)**

For FFY 2017-2018 Capitalization Grants, some GPR projects received additional subsidization. Other projects received add subs based on their disadvantaged community status. Time limits may be established for loan commitments in order to apply loan forgiveness awards from these grants.

For FFY 2019 and FFY2020 Capitalization Grants, loan forgiveness of up to 30% may be offered to eligible Disadvantaged Community (DC) status projects. Beginning in FFY 2020, eligible projects from unsewered communities with an approved Disadvantaged Unsewered Community (DUC) status may receive up to 50% loan forgiveness.

Construction must begin within 24 months of the loan forgiveness offer or the loan forgiveness offer may be withdrawn or reassigned.

Project	Loan Amount	Amount Green Project Reserve	Amount Add Sub*	Grant Year Reported
INHF	1,958,400	1,958,400		2017
INHF	3,046,703	3,046,703		2017
Epworth WRR14-013	334,000	334,000		2017
North Liberty WRR15-005	1,426,000	1,426,000		2017
Storm Lake	1,755,000	1,755,000		2017
Storm Lake	1,500,000	1,500,000		2017
Storm Lake	750,000	750,000		2017
Storm Lake	574,000	574,000		2017
NPS	920,000	920,000		2017
NPS	370,000	370,000		2017
NPS	450,000	450,000		2017
Blakesburg WRR	28,000	28,000		2017
Sioux City WRR	474,000	474,000		2017
Keokuk WRR	245,000	245,000		2017
Fort Dodge WRR	108,000	108,000		2017
Epworth WRR14-013	55,000	55,000		2017
WRA WRR	144,000	144,000		2017
WRA WRR	780,000	780,000		2017
Fort Madison	324,000	324,000		2017
Keokuk WRR	583,000	583,000		2017
Rockwell City WRR	94,000	94,000		2017
Durant WRR	558,000	558,000		2017
Fairbank WRR	325,000	325,000		2017
Johnston	4,434,000	4,434,000		2017
Calamus	1,969,000		590,700	2017
Deloit	516,000		154,800	2017
Calmar	2,977,000		893,100	2017

Project	Loan Amount**	Amount Green Project Reserve	Amount Additional Subsidization*	Grant Year Reported
Lake View	6,700,000		155,800	2017
Lake View	6,700,000		844,200	2018
St Donatus	842,000		252,600	2018
Coralville	2,952,000		885,600	2018

INHF = Iowa Natural Heritage Foundation

WRA = Wastewater Reclamation Authority

* Up to 30% and cap of \$1 million (through 2018)

** Until a loan is signed, this amount may reflect the IUP award amount

APPENDIX D
SFY 2021 Sponsored Project Funding Recommendations

Sponsored Project loan amendments must be executed prior to the second principal payment on the sponsoring CWSRF loan or the Sponsored Project award will be withdrawn.

Applicant	Proposed Watershed and Project Description	Proposed Partners	Date Approved
City of Indianola	Stormwater best management practices to address urban stormwater runoff from highly impervious areas around town in the Felters Branch- Middle River watershed. Practices include permeable pavers as part of a four-block downtown redevelopment project to capture and treat stormwater runoff from the business district and heavily traveled transportation corridor. Other potential practices include bioretention basins and detention basin retrofits.	Warren SWCD, Simpson College, Indianola Chamber of Commerce	6/16/2020
City of Peosta	Restoration practices in Kelly Oaks including ravine stabilization, timber stand improvement, and oak savanna/ native prairie restoration to reduce sediment and nutrient loading in the South Catfish Creek Watershed. Stormwater BMPs including regional detention (wet detention or stormwater wetlands) in the Whitewater Creek watershed.	Dubuque SWCD, NRCS, Catfish Creek WMA, Maquoketa River WMA	6/16/2020
City of Perry	Stormwater wetlands to address both urban and agricultural stormwater runoff within the Frog Creek and Beaver Creek watersheds.	IDALS- DSCWQ	6/16/2020
City of Preston	BMPs including a vegetative swale, wet detention/ stormwater wetland, bioswale, and SQR in order to treat agricultural runoff to Deep Creek.	IDALS- DSCWQ	6/16/2020
City of Rockwell City	Various water quality practices including restoration opportunities, treatment wetlands, permeable pavement areas, and bioswales and bioretention areas, as a second phase in their ongoing efforts to address urban stormwater concerns and improve water quality in Lake Creek.	IDALS- DSCWQ	6/16/2020
City of Spencer	Urban stormwater best management practices at Quality Refrigerated Services and Iowa Lakes Community College to treat stormwater in the Little Sioux River watersheds & Muddy Creek.	Iowa Lake Community College, Quality Refrigerated Services	6/16/2020

City of Underwood	Urban stormwater best management practices including bioswales and bioretention cells in the Charles Creek watershed.	West Pottawattamie SWCD	6/16/2020
City of Williamsburg	Treatment of stormwater runoff, establishment of buffer zones, reduction of erosion, restoration of stream function, and restoration of soil quality through a variety of BMPs to treat/ reduce urban and agricultural runoff and streambank erosion in the Old Man's Creek watershed.	NRCS, IDALS	6/16/2020
City of Ames	Perform stream restoration to stabilize highly eroding stream banks and restore riparian buffers along portions of Squaw Creek and Skunk river to reduce sediment and nutrient loading and provide a more natural and sustainable river corridor.	IDALS- DCSWQ Urban Conservation, Squaw Creek WMA, Story County SWCD, Prairie Rivers of Iowa, Friends of Brookside Park	12/15/2020
City of Center Point	Implement a combination of stormwater BMP's including: stormwater wetlands, bioswales, permeable pavers, native plantings, soil quality restoration to reduce nutrients and sediment loading to the Apple Creek and East Branch of Blue Creek Watersheds.	IDALS- DCSWQ Urban Conservation, Linn SWCD, Northeast Iowa RC&D Middle Cedar WMA	12/15/2020
City of Centerville	Install urban stormwater BMP's to reduce and treat urban stormwater runoff from highly impervious areas around town in order to reduce nitrogen, phosphorus, and sediment loadings to the Cooper Creek- Chariton River and Hickory Creek- Chariton River Watersheds.	IDALS- DCSWQ Urban Conservation, Appanoose SWCD, Appanoose County Conservation, Main Street Centerville	12/15/2020
City of Lake Park	Implement recommended practices from the Silver Lake WMP to reduce sediment and nutrient loading to Silver Lake which could include shoreline restoration/stabilization, water and sediment control basins, grade stabilization structures, wetland creation/restoration, sediment control practices, and filter strips.	IDALS- DCSWQ Urban Conservation, Dickinson CCB, IDALS Regional Coordinator, Dickinson County Clean Water Alliance	12/15/2020
City of Nevada	Implement projects to reduce loading and improve water quality in West Indian Creek and East Indian Creek in and around Nevada. Potential projects to improve water quality fall into five main categories: treatment of stormwater runoff, establishment of	IDALS- DCSWQ Urban Conservation, Prairie Rivers of Iowa, Story	12/15/2020

	buffer zones, reduction of erosion, restoration of stream function, and restoration of soil quality.	County Conservation	
City of Waverly	Construct a nutrient reduction wetland to reduce nutrient loadings to the Cedar River.	IDALS, Upper Cedar WMA, Bremer County SWCD	12/15/2020

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APPENDIX E

General Nonpoint Source Assistance Projects for Approval of Land Purchase

Iowa Code 455B.291 and 455B.295 set forth the conditions by which land acquisition is eligible under this Nonpoint Source Assistance Program.

Per Iowa Administrative Code 567 Chapter 93.7(5) Ineligible costs. Costs for the purchase of land are not eligible costs unless specifically approved by the commission.

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APPENDIX F

State Match

FY19	Cap grant Amount	State Match Needed	Excess State match
CW State Match from			
Feb 2019 Bond Issue		\$9,208,600	
excess state match		\$0	
repay non-program income		-\$408,600	
Total CW State match Available		\$8,800,000	
FY19 CW cap grant	\$21,505,000	\$4,301,000	\$4,499,000
DW State Match from			
Feb 2019 Bond Issue		\$7,667,200	
excess state match		\$0	
repay non-program income		-\$467,200	
Total DW State match Available		\$7,200,000	
FY19 DW cap grant	\$17,432,000	\$3,486,400	\$3,713,600
FY20	Cap grant Amount	State Match Needed	Excess State match
Remaining CW State Match from			
Feb 2019 Bond Issue		\$4,499,000	
excess state match		\$0	
Total CW State match Available		\$4,499,000	
FY20 CW cap grant	\$21,508,000	\$4,301,600	\$197,400
Remaining DW State Match from			
Feb 2019 Bond Issue		\$3,713,600	
excess state match		\$0	
Total DW State match Available		\$3,713,600	
FY20 DW cap grant	\$17,443,000	\$3,488,600	\$225,000
FY21	Cap grant Amount	State Match Needed	Excess State match
CW State Match from			
Feb 2020 Bond Issue		\$10,000,000	
excess state match		\$197,400	
Total CW State match Available		\$10,197,400	
FY21 CW cap grant		\$0	
Remaining DW State Match from			
Feb 2019 Bond Issue		\$8,000,000	
excess state match		\$225,000	
Total DW State match Available		\$8,225,000	
FY21 DW cap grant		\$0	

ATTACHMENT 1, the CWSRF Project Priority List, is included in a separate, sortable Excel file.



Clean Water SRF

WATER RESOURCE RESTORATION

Sponsored Project Application Process and Guidelines

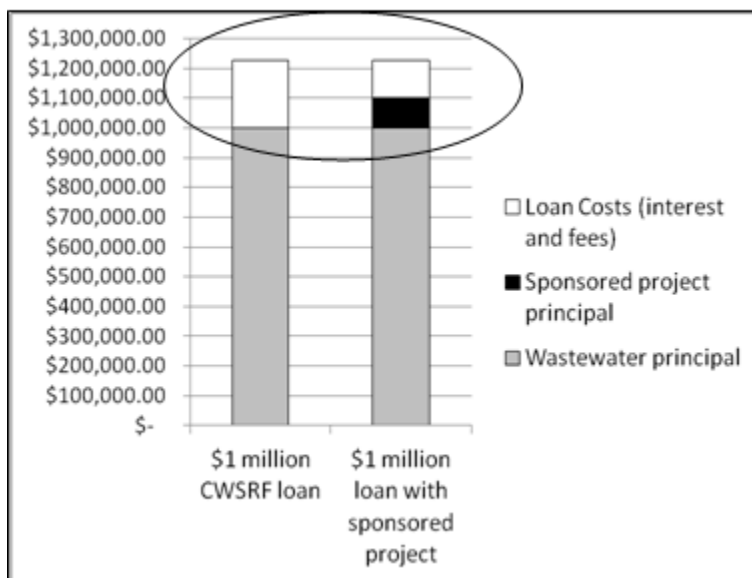
Background

During the 2009 Iowa General Assembly session, legislation was passed to allow a new method for funding water quality protection. SF 339 amended the Iowa Code to add a new category of projects that can be financed with sewer revenues. This new category, called “water resource restoration sponsored projects,” includes locally directed, watershed-based projects to address water quality problems.

Previously, in Iowa Code 384.80, utility revenues could only be used for construction and improvements for the wastewater system itself. With this legislation, wastewater utilities can also finance and pay for projects, within or outside the corporate limits, that cover best management practices for nonpoint source pollution control.

This program has been implemented through the Clean Water State Revolving Fund (CWSRF), a loan program for construction of water quality facilities and practices.

On a typical CWSRF loan, the utility borrows principal and repays principal plus interest and fees. As shown, on a CWSRF loan with a sponsored project, the utility borrows for both the wastewater improvement project and the sponsored project. However, through an overall interest rate reduction, the utility's ratepayers do not pay any more than they would have for just the wastewater improvements. Instead, two water quality projects are completed for the cost of one.



Next deadline: March 1, 2021

Please read the information carefully, use the application process checklist, and provide complete application materials.

Eligible Applicants

Eligible applicants include the following only:

1. Applicants submitting sponsored project applications at the same time as their wastewater infrastructure Intended Use Plan application. The wastewater IUP application must be complete and eligible to be placed on the fundable list. Deadline for both applications: [March 1, 2021](#).
2. Applicants with wastewater projects already included on the fundable list of the CWSRF Intended Use Plan which are still in the “Planning” phase. Deadline for sponsored project application: [March 1, 2021](#).

The following will disqualify an applicant for pursuing a sponsored project:

- The sponsored project application is submitted with an incomplete wastewater IUP application. The wastewater IUP application packet includes a checklist for determining a project’s readiness to be placed on the Intended Use Plan. Sponsored project applications submitted with incomplete wastewater IUP applications will not be considered.
- The applicant’s wastewater project has reached the “Ready for Loan” milestones as of [March 1, 2021](#). This classification indicates that construction permits have been issued, environmental review is complete, and in some cases, that the project has gone out to bid. Applicants may not delay their wastewater project construction or financing in order to apply for a sponsored project.
- The wastewater loan has already been executed.

Requirement and Deadline for Pre-Application Consultation

Wastewater utilities interested in applying for a sponsored project must participate in a pre-application consultation with SRF staff. The purpose of the consultation is to discuss sponsored project program and application requirements, project planning, and potential issues before the utility commits to preparing an application.

Along with this consultation, a site visit conducted with the conservation organization with which the utility plans to work is required.

Potential applicants must **hold** a pre-application conference call with the DNR by [December 18, 2020](#). Schedule a conference by e-mailing Lee Wagner at lee.wagner@dnr.iowa.gov. Contact DNR well ahead to provide enough time to schedule the conference call and to prepare an application.

The pre-application consultation will be conducted by conference call and will cover the following agenda:

1. Applicant eligibility based on status of CWSRF infrastructure loan
2. Water resource proposed for protection or restoration
3. Watershed assessment requirements
4. Project partners, including required participation of a conservation organization
5. Eligibility of potential practices
6. Approximate project schedule and budget
7. New requirement for communication plan
8. Maintenance requirements for life of practice

Requirement for Watershed Approach

The project must improve water quality in the watershed in which the publicly owned wastewater utility is located. A watershed is the area of land that drains into a lake or specific location on a stream. Water traveling over the surface or through groundwater may pick up contaminants like sediment, chemicals and waste and deposit them in a body of water.

The watershed within an incorporated city may all eventually drain into the same river or lake. However, each storm drain outfall or discharge point into the waterbody also has its own smaller, sub-watershed. Water quality enhancement practices are designed and engineered at this sub-watershed scale. Cities also often have drainage passing through them from upstream watershed areas. While these upstream watersheds also can influence water quality conditions within a city the watershed area is typically outside the municipal jurisdiction. Upstream watersheds provide unique opportunities for cities to gain partners and additional resources in tackling water quality concerns.

The specific water quality concern to be addressed, waterbody, and watershed must be clearly defined. The wastewater utility's governing board will select the watershed or sub-watershed selected for this water resource restoration project application. The board will also select the water quality aspect the project focuses on, such as reducing sediment in stormwater or limiting nutrient enrichment. Projects can be located within a sub-watershed entirely inside municipal boundaries or in an upstream watershed.

Once selected, the watershed or sub-watershed requires assessment and planning to develop a quantifiable water quality enhancement plan. All assessments and planning methods use established methods that quantify land cover, contaminant inputs, and delivery mechanisms. The applicant may use existing assessment data identifying and quantifying the water quality problems to be addressed in the project, including data from the impacted waterbody as well as the upstream watershed or sub-watershed.

This plan for enhancing water quality in a sub-watershed can be as complex or as simple as needed to make a quantifiable water quality improvement in the targeted waterbody. Watershed planning, regardless of the scale of the watershed and the complexity or simplicity of the approach, involves the following nine elements, and creates a road map for identifying and implementing the most effective and appropriate water quality practices to address the identified water quality concern within the defined watershed.

These elements are explained in detail in the “Watershed Project Planning Protocol Technical Guide” located at:

http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_007659.pdf.

1. Identify the water quality concern
2. Determine reasonable objectives
3. Inventory watershed
4. Analyze watershed data
5. Formulate alternatives
6. Evaluate alternatives
7. Make decisions and complete the plan
8. Implement the plan
9. Evaluate the plan

While the sponsored project included in an application may not have a complete watershed management plan accompanying it, the project should be aligned with reaching goals that would be consistent in an overall watershed management plan.

In some areas of Iowa, watershed management plans have already been developed and could be used as the basis for sponsored projects. A map of the areas and the plans are posted at: <http://www.iowadnr.gov/Environment/WaterQuality/WatershedImprovement/WatershedPlanning/ManagementPlans.aspx>.

In other areas, watershed organizations are still developing plans or seeking funding. For more information on watershed planning areas, contact Steve Hopkins at Stephen.hopkins@dnr.iowa.gov.

Note: Stream restoration projects are required to use the [Iowa River Restoration Toolbox decision tool and guidance in performing the stream assessment and the design of restoration practices](#).

Requirement for Watershed Organization Involvement in Project Planning

Wastewater utilities are required to include Soil and Water Conservation Districts and/or local watershed organizations, Watershed Management Authorities, and County Conservation Boards in project development and planning and design. These organizations provide technical assistance and expertise for water quality projects.

The applicant must identify the organization or organizations that will be involved with the planning and project development and design.

Before approving an application, DNR will contact the organization or organizations for confirmation of involvement, how the proposed project fits in with other organizational or watershed efforts, and the organization’s support for the project concept and approach.

A map and directory of the Soil and Water Conservation Districts, which are located in each county, can be found at <https://idals.iowa.gov/FARMS/index.php/districtMap>.

If the project involves urban stormwater issues and practices, the applicant must involve one of the urban conservationists from the Iowa Department of Agriculture and Land Stewardship:

- Paul Miller, Wallace Building, Des Moines; 515-281-5833; Paul.Miller@iowaagriculture.gov
- Derek Namanny, Wallace Building, Des Moines; 515-725-0150; Derek.Namanny@iowaagriculture.gov
- Jennifer Welch, Ankeny; 515-964-1883 ext. 3; Jennifer.Welch@ia.nacdnet.net
- Amy Bouska, Iowa City; 319-337-2322 ext. 3; Amy.Bouska@ia.nacdnet.net

Eligible Projects

Eligible projects include the following categories of projects that are eligible for the Clean Water SRF under the Section 319 (nonpoint source) Clean Water Act authority:

- Category VI-C. Green infrastructure. This category includes costs to address the storm water management program activities associated with the planning, design, and construction of low impact development and green infrastructure, such as bioretention, constructed wetlands, permeable pavement, rain gardens, green roofs, cisterns, rain barrels, vegetated swales, and restoration of riparian buffers and flood plains. Projects in this category can be both publicly owned and privately owned.
- Category VII-A. Nonpoint source (NPS) control: agriculture (cropland). This category includes costs to address NPS pollution control needs associated with agricultural activities related to croplands, such as plowing, pesticide spraying, irrigation, fertilizing, planting, and harvesting.
- Category VII-B. NPS control: agriculture (animals). This category includes costs that address NPS pollution control needs associated with agricultural activities related to animal production, such as confined animal facilities, open feedlots, and grazing.
- Category VII-C. NPS control: silviculture. This category includes costs that address NPS pollution control needs associated with forestry activities such as removal of streamside vegetation, road construction and use, timber harvesting, and mechanical preparation for the planting of trees.
- Category VII-E. NPS control: groundwater protection (unknown source). This category includes costs that address groundwater protection NPS pollution control needs such as wellhead and recharge protection activities.
- Category VII-F. NPS control: marinas. This category includes costs that address NPS pollution control needs associated with boating and marinas, such as poorly flushed waterways, boat maintenance activities, discharge of sewage from boats, and the physical alteration of shoreline, wetlands, and aquatic habitat during the construction and operation of marinas.
- Category VII-G. NPS control: resource extraction. This category includes costs that address NPS pollution control needs associated with mining and quarrying activities.
- Category VII-H. NPS control: brownfields. This category includes costs that address NPS pollution control needs associated with abandoned industrial sites which might have residual contamination (brownfields).

- Category VII–I. NPS control: storage tanks. This category includes costs that address NPS pollution control needs associated with tanks designed to hold gasoline, other petroleum products, or chemicals. The tanks may be located above or below ground level.
- Category VII–J. NPS control: landfills. This category includes costs that address NPS pollution control needs associated with sanitary landfills.
- Category VII–K. NPS control: hydromodification. This category includes costs to address the degradation of water resources as a result of altering the hydrological characteristics of noncoastal waters, including channelization and channel modification, dam, and streambank and shoreline erosion. Work involving wetland or riparian area protection or restoration is included in this category.

Land or easements cannot be acquired through condemnation.

Ineligible projects or practices include: passive recreation activities and trails including bike trails, playgrounds, sports fields, picnic tables, and picnic grounds; diverse habitat creation contrary to the botanical history of the area; planting of nonnative plant species; dredging; and supplemental environmental projects required as a part of a consent decree.

Sponsored Project Application

Wastewater utilities interested in conducting a sponsored project will use the standard CWSRF Intended Use Plan application for the infrastructure project. The separate CWSRF sponsored project application must also be completed and submitted, along with the following attachments:

- Authorizing resolution passed by the wastewater utility's governing board for the sponsored project application;
- Identification of any third-party entity involved and the potential need for a 28E agreement between the utility and the qualified entity;
- Identification of water quality organization and any other parties involved in the project, including a description of their expected involvement and contribution to funding, planning, design, selection, and/or implementation;
- Letters of support from project partners including a description of their involvement or contribution to the project;
- Letter from the wastewater utility's bond counsel indicating concurrence with the sponsored project concept;
- Project conceptual plans, including:
 - Clearly identified waterbody and water quality concern that are the focus of the application as well as the clearly identified watershed within which the project will be located;
 - Assessment of the impacted waterbody and the entire contributing watershed identified as the focus of the application. Include water quality data, maps, and other documentation that evaluates land use, topography, soils, hydrology, etc. adequately to identify the water quality concern being addressed, sources of the water quality concern, and priority areas contributing to the identified water quality;
 - Discussion of specific project goals and objectives for addressing the identified water quality concern and the impacted waterbody;

- Evaluation of priority areas identified by the watershed assessment and the possible water quality practices that could be implemented, considering the unique demographic, topographic, hydrologic, and institutional characteristics of the planning area. Include discussion of how the potential project areas were selected and prioritized based on the contributions to the water quality concern identified in the assessment and other factors that were considered in the prioritization process;
- Description of potential practices to be implemented with the expected water quality outcomes. Include drainage area and water quality volume, pollutant inputs and load reductions estimates or calculations, as applicable, for the areas where practices are proposed in the project;
- Discussion of project locations, land ownership, and any plans for acquiring properties or easements. Proposed projects not on City owned land will need to provide a letter of support from the land owner;
- Proposed project schedule for the associated CWSRF project and proposed sponsored project with major milestones, along with a discussion of how the sponsored project construction schedule coordinates with the infrastructure project schedule;
- Proposed evaluation procedures and measures that will be utilized to determine the water quality improvement and overall success of the project;
- Explanation of the proposed budget, including identification of all other potential or secured funding sources and amounts, discussion of how the project could be adjusted according to final amount available through sponsored project mechanism and other funding sources;
- Discussion of plans to maintain the practices and how maintenance will be funded for the life of the practice.
- Preliminary communication plan indicating how information about the proposed project will be communicated to and from key audiences, such as community residents, neighbors, city council or other decision-makers, and other stakeholder groups.

Funding Limitations

For loans up to 20 years, the interest rate on the combined infrastructure/sponsored project loan may be reduced to a rate to fund the nonpoint source project equivalent of up to 1% of forgone interest. This equals approximately \$100,000 per \$1 million CWSRF loan.

On a typical \$1 million, 20-year CWSRF loan at the current interest rate and fees, the utility would repay \$1,227,000, which equals the principal plus approximately \$227,000 in loan costs. With the addition of \$100,000 in principal borrowed for the sponsored project and a reduction in the overall interest rate, the amount repaid is still \$1,227,000. The final interest rate will not be less than 0.75%.

Thirty- year terms will be allowed but the amount of interest allowed for sponsored projects will remain approximately \$100,000 per million.

The amount available for the sponsored project will be a maximum of the lowest of the following amounts:

- The amount requested by the applicant on the sponsored project application.
- 10% of the requested wastewater loan amount on the most current Intended Use Plan.

- 10% of the final amount drawn on the wastewater loan.

Example 1: Wastewater IUP amount = \$1,000,000. Sponsored project amount requested = \$100,000. Final amount drawn = \$900,000.

Maximum sponsored project funding available = \$90,000.

Example 2: Wastewater IUP amount = \$1,000,000. Sponsored project amount requested = \$100,000. Executed loan and final amount drawn = \$1,200,000.

Maximum sponsored project funding available = \$100,000.

The amount available for the sponsored project may also be affected by the construction schedules of both projects and the need for additional bond counsel fees.

The amount allocated for Water Resource Restoration Sponsored Projects in SFY 2021 is \$10 million. This amount is based on the amount of lost program income the CWSRF can afford to lose as a result of interest rate reductions for Sponsored Projects. In order to fund all eligible applications, the DNR reserves the right to cap individual application funding awards at a percentage of the total amount allocated for Sponsored Projects.

Application Evaluation and Scoring

The DNR will review all applications received. Only complete applications will be considered for funding. A complete application includes a completed application form and attachments containing the required information described in the Sponsored Project Application Section. Those that score the highest (see the CWSRF priority ranking below) will be listed on the next quarterly IUP update for approval by the Iowa Environmental Protection Commission. Lower-scoring projects may be listed as contingency projects or the DNR may choose not to use the total amount set aside for the funding period.

Points Scoring

The existing project priority ranking system in Iowa Administrative Code 567 – 91.8 will be used to score the sponsored project applications if complete application requests exceed the amount of funding available. The priority score of the wastewater infrastructure project will not be considered in the evaluation of the sponsored project.

The rating criteria consider the use classification of the receiving waters, water quality of the receiving waters, groundwater protection, project type, project purpose, and a tiebreaker. Priority ranking for the projects shall be based on the total points awarded for all the categories; the greater the total number of points, the higher the ranking. The tiebreaker category will be used when necessary.

Sponsored Project Manual

Applicants that are approved for funding will be contacted after the EPC meeting to schedule a project initiation meeting and to begin the sponsored project review and approval process. All information about the review and approval process is included in the Sponsored Project Manual which is online on the SRF website at: http://www.iowasrf.com/about_srf/sponsored-project-manual/. Applicants should review the manual information to become familiar with the process.

Special Notes

Sponsors of approved projects will be required to follow project review and implementation guidelines established in the Water Resource Restoration Sponsored [Projects Milestone Checklist](#).

Water quality practices funded through sponsored projects must be maintained for the useful design life of the practice. Sponsored Project recipients will be required to develop and execute a maintenance plan for all practices, and agree to a [Water Resource Restoration Sponsored Project Performance Agreement](#) to ensure that the water quality practices being funded are constructed and maintained in a manner that will achieve, and continue to provide, the water quality improvement according to the approved design.

The waterbody, watershed, and water quality concern identified in the Water Resource Restoration Sponsored Project application cannot be changed after an application has been awarded funding.

For More Information

Contact Lee Wagner, SRF Nonpoint Source Program Manager, 515-725-0992 or lee.wagner@dnr.iowa.gov.



**Clean Water SRF
WATER RESOURCE RESTORATION
Sponsored Projects**

APPLICATION COMPLETENESS CHECKLIST

- ☐ Pre-application consultation held _____ (date – must be by **December 18, 2020**)
- ☐ Application and required attachments (in pdf format) submitted electronically via e-mail, sent by **4:00 p.m. on March 1, 2021**.
 - ☐ (If submitting application by mail, a hard copy with original signatures and media containing electronic files must be postmarked by **March 1, 2021**)
- ☐ Application signed by authorized official
- ☐ CWSRF wastewater project is eligible
- ☐ Acquisition of Property Form signed by authorized official
- ☐ Authorizing resolution passed by the wastewater utility's governing board for the sponsored project application
- ☐ Identification of any third-party entity involved and the potential need for a 28E agreement between the utility and the qualified entity
- ☐ Identification of water quality organization and any other parties and their expected contribution to the project
- ☐ Letters of support from project partners
- ☐ Letter from the wastewater utility's bond counsel indicating concurrence with the sponsored project concept
- ☐ Project Conceptual Plan including:
 - ☐ Identification of the waterbody, watershed, and water quality concern
 - ☐ Assessment of the impacted waterbody and its watershed
 - ☐ Discussion of project goals and objectives
 - ☐ Evaluation of priority areas identified in the watershed assessment and possible water quality practices that could be implemented
 - ☐ Description of potential practices to be implemented with the expected water quality outcomes
 - ☐ Discussion of project locations, land ownership, and any plans for acquiring properties or easements
 - ☐ Proposed project schedule with major milestones, and discussion of the associated infrastructure project schedule
 - ☐ Proposed evaluation procedures and measures
 - ☐ Explanation of the proposed budget
 - ☐ Discussion of maintenance for the life of the proposed practice(s)
- ☐ Preliminary communication plan



Clean Water SRF

WATER RESOURCE RESTORATION

Sponsored Project Application

Application Instructions:

- Review and follow the application requirements in the Sponsored Project Application Process and Guidelines.
- Please print or type the information on the form.
- Complete each section of the application form.
- Sign the application.
- Attach supporting documentation.
- Scan and submit the entire application, with attachments, in PDF form to lee.wagner@dnr.iowa.gov. OR, if attachments are too large to transmit, e-mail the application form only and mail the complete application per instructions below.

Application must be e-mailed by 4:00 p.m. on March 1, 2021

- **If submitting application by mail**, send the application form with original signatures, all attachments, and media storage device containing electronic files to the following address:

State Revolving Fund
Iowa Department of Natural Resources
Wallace State Office Building, 502 E. 9th Street
Des Moines, IA 50319-0034

Must be postmarked by March 1, 2021

Section 1: Applicant Information

(This information relates to the wastewater utility that will be the Clean Water SRF borrower.)

Applicant Name:	
Mailing Address:	
City, State, Zip + 4	
Authorized Representative:	
Signature:	
Title:	
Telephone Number:	
E-mail:	

Section 2: SRF Project Status

Choose One	<input type="checkbox"/> The project is on the CWSRF Intended Use Plan and is in the "Planning" phase, SRF Number CS1920
	<input type="checkbox"/> We are submitting this sponsored project application in conjunction with our CWSRF Intended Use Plan application for DNR Project Number S -

Section 3: Information on the Identified Watershed and Water Quality Issues

(Summarize the information here and expand or add documentation, maps, monitoring data, and other data in the project conceptual plan attached to this application as shown in Section 7.)

Name of Waterbody:	
HUC Number and Name (where both wastewater utility and waterbody are located):	
Uses for the Waterbody (e.g. recreation, drinking water, other):	
Water Quality Concerns (e.g. sediment, bacteria, nutrients):	
Sources of Water Quality Data (e.g. DNR water monitoring, IOWATER, US Geological Survey, utilities, other):	
Nonpoint Source Contributions to Water Quality Concerns (e.g. urban stormwater, soil erosion, livestock operations, other):	
Primary Water Quality Goal of the Sponsored Project:	

Section 4: Brief Summary of Proposed Water Resource Restoration Sponsored Project

Describe the scope of the proposed project (i.e., specific solution to the water quality problem). Summarize the process of analyzing and selecting the most appropriate nonpoint source practices relating to the unique issues and characteristics of the identified waterbody and planning area. Provide additional detail in the attachments to this application.

Section 5: Water Quality Organization(s) Involved in Project Planning

Organization	Contact Person	Email Address

Section 6: Qualified Entity Information

Is the applicant proposing to enter into an agreement with a qualified third party entity to implement the sponsored project?

<input type="checkbox"/> No		
<input type="checkbox"/> Yes	Organization:	

Section 7: Sponsored Project Cost

Cost Category	Total Estimated Project Costs	Costs to be Covered from Other Funds	Costs to be Allocated from Up to 1% of SRF Loan Interest
Land and Easements			
Relocation Expenses			
Professional Planning Fees			
Professional Design Fees			
Professional Construction Fees			
Construction			
Equipment			
Miscellaneous			
Bond Counsel Fees			
Contingencies			
TOTAL			

Section 8: Attachments

Attachments must be submitted with the application. Applications will not be considered complete unless all required attachments are submitted.

- Authorizing resolution passed by the wastewater utility's governing board for the sponsored project application;
- Identification of any third-party entity involved and the potential need for a 28E agreement between the utility and the qualified entity;
- Identification of water quality organization and any other parties involved in the project, including a description of their expected involvement and contribution to funding, planning, design, selection, and/or implementation;
- Letters of support from project partners including a description of their involvement or contribution to the project;
- Letter from the wastewater utility's bond counsel indicating concurrence with the sponsored project concept;
- Project conceptual plans, including:
 - Clearly identified waterbody and water quality concern that are the focus of the application as well as the clearly identified watershed within which the project will be located;
 - Assessment of the impacted waterbody and the entire contributing watershed identified as the focus of the application. Include water quality data, maps, and other documentation that evaluates land use, topography, soils, hydrology, etc. adequately to identify the water quality concern being addressed, sources of the water quality concern, and priority areas contributing to the identified water quality;
 - Discussion of specific project goals and objectives for addressing the identified water quality concern and the impacted waterbody;
 - Evaluation of priority areas identified by the watershed assessment and the possible water quality practices that could be implemented, considering the unique demographic, topographic, hydrologic, and institutional characteristics of the planning area. Include discussion of how the potential project areas were selected and prioritized based on the contributions to the water quality concern identified in the assessment and other factors that were considered in the prioritization process;
 - Description of potential practices to be implemented with the expected water quality outcomes. Include drainage area and water quality volume, pollutant inputs and load reductions estimates or calculations, as applicable, for the areas where practices are proposed in the project;
 - Discussion of project locations, land ownership, and any plans for acquiring properties or easements. Proposed projects not on City owned land will need to provide a letter of support from the land owner;
 - Proposed project schedule for the associated CWSRF project and proposed sponsored project with major milestones, along with a discussion of how the sponsored project construction schedule coordinates with the infrastructure project schedule;
 - Proposed evaluation procedures and measures that will be utilized to determine the water quality improvement and overall success of the project;
 - Explanation of the proposed budget, including identification of all other potential or secured funding sources and amounts, discussion of how the project could be adjusted according to final amount available through sponsored project mechanism and other funding sources;
 - Discussion of plans to maintain the practices and how maintenance will be funded for the life of the practice.
- Preliminary communication plan indicating how information about the proposed project will be communicated to and from key audiences, such as community residents, neighbors, city council or other decision-makers, and other stakeholder groups.

Section 9: Acquisition of Property – Required Form

U.S. ENVIRONMENTAL PROTECTION AGENCY ASSURANCE WITH RESPECT TO REAL PROPERTY ACQUISITION OF TITLE III OF THE UNIFORM RELOCATION ASSISTANCE AND REAL PROPERTY ACQUISITION POLICIES ACT OF 1970 AS AMENDED

The _____ (Applicant) hereby assures that it has authority under applicable State and local law to comply with Section 213 of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, Public Law 91-646, 84 Stat. 1894 (42 U.S.C. 4601) as amended by the Surface Transportation and Uniform Relocation Assistance Act of 1987, Title IV of Public Law 100-17, 101 Stat. 246-256 (42 U.S.C. 4601 note) and 49 CFR 1.48(cc); and certifies, assures and agrees that, notwithstanding any other provision set forth in the application.

1. For projects resulting in the displacement of any person:
 - a. It will adequately inform the public of the relocation payments and services which will be available as set forth in Subparts A, C, D and E of 49 CFR 24.
 - b. It will provide fair and reasonable relocation payments to displaced persons as required by Subparts D and E of 49 CFR 24.
 - c. It will provide a relocation assistance program for displaced persons offering services described in Subpart C of 49 CFR 24.
 - d. Comparable replacement dwellings will be available pursuant to Subpart F of 49 CFR 24, or provided if necessary, a reasonable period in advance of the time any person is displaced.
 - e. In acquiring real property, it will provide at least 90 days written notice to each lawful occupant of real property acquired, stating the date such occupant is required to move from a dwelling or to move his business or farm operation.
2. For projects resulting in the acquisition of real property:
 - a. It will fully comply with the requirements of Subpart B of 49 CFR 24.
 - b. It will adequately inform the public of the acquisition policies, requirements and payments which apply to the project.
 - c. It will make every effort to acquire real property expeditiously through negotiation.
 - d. Before the initiation of negotiations it will have the real property appraised and give the owner or his representative an opportunity to accompany the appraiser during inspection of the property, except as provided in 49 CFR 24.102(c)(2).
 - e. Before the initiation of negotiations it will establish an amount which it believes to be just compensation for the real property, and make a prompt offer to acquire the property for that amount; and at the same time it will provide the owner a written statement of the basis for such amount in accordance with 49 CFR 24.102.
 - f. Before requiring any owner to surrender possession of real property it will pay the agreed purchase price; or deposit with the court, for the benefit of the owner, an amount not less than the approved appraisal of the fair market value of the property; or pay the amount of the award of compensation in a condemnation proceeding for the property.
 - g. If interest in real property is to be acquired by exercise of the power of eminent domain, it will institute formal condemnation proceedings and not intentionally make it necessary for an owner to institute legal proceedings to prove the fact of the taking of this real property; and
 - h. It will offer to acquire the entire property, if acquisition of only part of a property would leave its owner with an uneconomic remnant.

References to 49 CFR are citations to Title 49, Code of Federal Regulations, Part 24, published in the Federal Register Vol. 54, No. 40, March 2, 1989.

This document is hereby made part of and incorporated in any contract or agreement, or any supplements and amendments thereto, relating to the above-identified application and shall be deemed to supersede any provision therein to the extent that such provisions conflict with the assurances or agreements provided therein.

(Legal Name of Applicant)

By _____
(Signature of Authorized Representative)

(Date)

FY 2021 INTENDED USE PLANS

Drinking Water State Revolving Fund



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FY 2021 INTENDED USE PLANS

Drinking Water State Revolving Fund



I. STATE FISCAL YEAR 2021 PLAN OF ACTION

The plan is based on anticipated use of new and revolved funds available in the DWSRF for construction of treatment plants or improvements to existing facilities, water storage facilities, wells, and source water protection efforts.

The SFY 2021 Plan of Action covers the following areas:

- DWSRF goals and objectives
- Current and projected financial capacity of the DWSRF
- Financial management strategies
- Plan for the SFY 2021 project priority list
- Plan for use of DWSRF set-aside funds
- Plan for use of administrative accounts

DWSRF Goals and Objectives

The primary long-term goal of the Iowa DWSRF is to support the protection of public health through a perpetual program of financial assistance for the purposes of ensuring the provision of an adequate quantity of safe drinking water to consumers of public water supplies, protecting source water for drinking water systems, and ensuring the long-term viability of existing and proposed water systems.

The SFY 2021 short-term goals and objectives are as follows:

- Goal: Commit loan funds to as many recipients as possible in accordance with the state priority rating system, the IUP, staff resources, and available funding. *Objective: During SFY 2021, quarterly updates to the IUP will be prepared to add projects and update program financial information.*
- Goal: Ensure that borrowers are able to provide safe drinking water at a reasonable cost for the foreseeable future. *Objectives: During SFY 2021, viability assessments will be completed by each applicant and reviewed by SRF staff prior to the signing of a loan agreement. Systems determined nonviable or systems with EPA's Enforcement Targeting Tool (ETT) scores above 11 will be provided with an enforceable compliance schedule listing all actions that must be completed to return the system to viable status. Extended term financing will be offered to disadvantaged communities. SRF staff will coordinate efforts with other funders such as the Community Development Block Grant program. Staff*

will continue to educate and inform public water supplies, engineering consultants, and financial advisors on the financing savings available by using the DWSRF.

- Goal: Require applicants to engage a registered Municipal Advisor (MA). *Objective: During SFY 2021, all applicants submitting an Intended Use Plan application must demonstrate that they have hired an MA to assist with cash flows, rate setting, debt service coverage, and other financial aspects of their water utility. The reports provided by the MAs will be used in the viability assessment review. The SRF Program will reimburse up to \$4000 of the MA fee to the borrowers.*
- Goal: Implement the “Use of American Iron and Steel (AIS)” requirements enacted by Congress on January 17, 2014. *Objective: During SFY 2021, SRF staff will help applicants determine eligibility for the exemptions and waivers provided for in the Act and EPA guidance. SRF staff will provide information to those applicants required to comply on necessary documentation and inspection procedures. SRF will engage DNR Field Office staff to conduct site visits and provide technical assistance.*
- Goal: Apply additional subsidization available in FFY 2018, 2019 and FFY 2020 Capitalization Grants to disadvantaged community projects and public health projects. *Objective: During SFY 2021 SRF staff plans to approve plans and specifications and execute loans or loan amendments with loan forgiveness for the amounts required in the FFY 2018, 2019 and FFY2020 Capitalization Grants.*
- Goal: Promote and identify sustainable practices in projects proposed for funding. *Objective: During SFY 2021 SRF staff will provide information on the EPA’s Sustainability Policy to applicants and include sustainability features in project descriptions.*
- Goal: Comply with grant reporting conditions. *Objective: During SFY 2021, the Iowa SRF plans to enter data into the DWSRF National Information Management System (NIMS) and the DWSRF Projects & Benefits Reporting (PBR) system.*
- Goal: Comply with EPA guidance on reporting under the Federal Funding Accountability and Transparency Act (FFATA). *Objective: In the Annual Report, SRF staff will list loans that met the several requirements of FFATA for open Capitalization Grants. Grants may not be closed out until equivalency amounts can be reported.*
- Goal: Comply with the EPA Signage Guidance. *Objective: During SFY 2021 SRF staff and recipients will notify the public in the most effective ways possible about assistance agreements and benefits of the DWSRF program in order to enhance public awareness of EPA assistance agreements nationwide. The Iowa SRF program sends out press releases listing all SRF loans that have closed and borrower contact information.*

Additional long-term goals include:

- Goal: Prioritize the provision of funds, to the extent practicable, to projects that address the most serious risk to human health and are necessary to ensure compliance with the national primary drinking water standards. *Objectives: Priority will be assigned to projects that address human health risks or compliance issues by the provision of points assigned during the DWSRF scoring process as outlined in 567 IAC Chapter 44.*
- Goal: Apply program requirements that are simple and understandable and do not add unnecessary

burdens to applicants or recipients. *Objectives: During SFY 2021 SRF staff will continue to assist applicants with completing the federal cross-cutting requirements for environmental and historical review. Staff will not be responsible for Davis-Bacon compliance but will advise borrowers as needed. Borrowers will be responsible for compliance and may hire outside consultants to assist.*

- Goal: Continue the option of extended financing terms for DWSRF infrastructure projects. *Objective: During SFY 2021 this option will be offered to all projects on the project priority list. Applicants seeking extended financing must complete a worksheet outlining the anticipated useful life of the project components. The average weighted useful life is used to determine the extended term of the loan.*
- Goal: Maintain mechanisms for funding the on-going administration of the program if federal funding is reduced or eliminated. *Objective: During SFY 2021 initiation and servicing fees will be collected on DWSRF loans for deposit to administrative accounts. SRF staff will develop short and long-term plans for administrative budgets.*
- Goal: Manage the DWSRF to maximize its use and impact through sound financial management. *Objective: During SFY 2021 SRF staff and financial advisors will continue to conduct financial analysis and develop innovative approaches to financial management.*
- Goal: Implement programs that effectively address water system needs and target appropriate audiences. *Objective: During SFY 2021 SRF staff will continue to educate users and potential users about the program offerings through presentations, displays, program materials, and the IowaSRF.com website.*
- Goal: Update the CWSRF Operating Agreement. *Objective: In the future, SRF staff will work with EPA Region 7 to update or dissolve the Clean Water SRF Operating Agreement between DNR and EPA. The agreement has not been updated since 2007 and the EPA is evaluating the future use of Operating Agreements in Region 7 states. A draft letter was shared with Iowa last fiscal year which proposes the elimination of the Operating Agreement between Region 7 states and EPA. That letter is awaiting final approval by EPA.*

Current and Projected Financial Capacity of the DWSRF

Appendix A, the Estimated Sources and Uses table, shows that available funds are sufficient to fund current requests. SRF staff has analyzed the future financial capacity of the DWSRF. Assuming continued Capitalization Grants, taking the full 31% set-asides and 26% loan forgiveness, and the same interest rates, it is projected that the DWSRF could loan an average of \$156 million per year over the next 10 years, or a total of \$1.56 billion. If we assume no additional Capitalization Grants but keep the same interest rates and the other assumptions, the DWSRF could loan an average of \$132 million per year over the next 10 years. Those amounts would increase if we were to increase our interest rate.

Financial Management Strategies

The DWSRF Project Priority List (attached) show total loan requests for water supply projects. Because many of these projects are in the planning phase, they are not expected to sign a binding loan commitment during this fiscal year. The projected timing and demand for loan draws is reflected in the sources and uses table (Appendix A).

The cash draw procedure used is the direct loan method. The Iowa DWSRF program uses its equity fund to originate loans. When a sufficient number of loans have been made, the SRF program issues bonds and uses the

bond proceeds to replenish the equity fund. Iowa's bonds are cross-collateralized across both the Clean Water and Drinking Water SRF accounts. State match bonds are issued at the same time that leveraged bond issues are done for greater cost effectiveness. State match is fully disbursed prior to drawing EPA Capitalization Grant funds. The EPA Capitalization Grant funds will be drawn at a 100% proportionality ratio.

Iowa issued bonds in 2019, which included the state match for FFY 2019 and FFY 2020 Capitalization Grants. Bonds were issued in February 2020 which included state match for future Capitalization Grants.

SFY 2021 Project Priority List

The management of the DWSRF program, including development of a project priority list for financing assistance, was developed according to Part 567 of the Iowa Administrative Code (IAC), Chapter 44. This IUP indicates the intent to provide funds to projects ranked in priority order according to scoring criteria contained in Chapter 44 of the IAC.

The Iowa SRF Program is able to fund all eligible projects. Projects are added to the project priority list to be funded based on the State's implementation rules for the DWSRF program (567 IAC 44).

Projects will be funded as they become ready to proceed to construction. Adjustment to the list of fundable projects will be made, if necessary, to assure that at least 15% of the project funds are available to systems serving fewer than 10,000 persons as specified in Section 1452(a) (2) of the Act. Financing may be provided for up to 100% of project costs if the costs are eligible for funding based on engineering, environmental, and financial review and project readiness to proceed as described above.

Due to the project workload and for planning purposes, the DWSRF staff may evaluate projects that have been on the IUP list for more than three years. A notification will be sent to the applicants that their project may be dropped if there is no progress in the six months following the notice. If a project is dropped, the applicant may reapply when the project is ready to move ahead.

For program planning purposes, the fundable projects are further identified as "R – ready for loan" (indicating that the construction permit and environmental review have been completed), and "P – in planning."

The following categories of projects will be included for funding during SFY 2021:

Unfunded Prior Years' Projects. All projects from prior years that have not entered into a binding commitment are included in this IUP.

Segments of Previously Funded Projects. State rules provide that subsequent segments of a project which has previously received funding priority or assistance be placed on the project priority list with the original project score.

New Projects. New applications for assistance during SFY 2021 will be added to the project priority list. Applications will be accepted on a continuous basis and quarterly updates completed as needed. Intended Use Plan applications can be found on the SRF website at www.iowasrf.com and on the DNR Drinking Water State Revolving Loan Fund website at <https://www.iowadnr.gov/Environmental-Protection/Water-Quality/Water-Supply-Engineering/State-Revolving-Loan-Fund> and submitted to srf-iup@dnr.iowa.gov.

Supplemental Financing. Supplemental financing for projects listed in previously approved IUPs are added to the IUP as they are requested unless the additional funds will be used for improvements that would significantly change the scope of the project. Additional environmental review may be required. Supplemental loans will not

be provided for changes that are ineligible for funding.

Planning and Design Loans. Planning and design loans are provided at 0% interest for up to three years to cover the costs of preparing facility plans and project specifications. The loans will be rolled into CWSRF construction loans or repaid by another source of permanent financing. Requests for planning and design loans are listed on the project priority list but have not been assigned priority points. Planning & Design Loan applications can be found on the SRF website at http://www.iowasrf.com/program/planning_design_loans/.

Source Water Protection Loans. All outstanding requests for source water protection loans have been satisfied and applications are no longer being taken. Source water loans are not eligible projects under the regular DWSRF loan program but projects that improve water quality, including water that is used as source for drinking water, are eligible for loans under the Clean Water SRF Nonpoint Source Program.

Capitalization Grant Requirements. The FFY 2016 - 2020 Capitalization Grants include congressional requirements for minimum and maximum percentages of the funds to be allocated for additional subsidization. Iowa will comply with these requirements. In the FFY 2019 and FFY 2020 Capitalization Grants, the Safe Drinking Water Act (SDWA) requires an additional 6% of Capitalization Grant dollars to be allocated for additional subsidization to Disadvantaged Communities (DAC).

The specific projects that have received add subs are listed in Appendix C, as well as new criteria for loan forgiveness eligibility. Additional projects identified for loan forgiveness to meet the FFY 2018 and FFY 2019 Capitalization Grant requirements will be listed on the DWSRF Project Priority List (Attachment 1). Time limits may be established for loan commitments in order to apply loan forgiveness awards.

Once the FFY 2020 Capitalization Grant is awarded, Iowa will comply with additional subsidization and DAC requirements and will identify recipients of those funds during this fiscal year.

	Add Subs Rqd.	Add Subs Actual	%	DAC Req'd.	DAC Actual	%
2016	\$ 2,486,400	\$ 2,490,000	100%	N/A	N/A	N/A
2017	\$ 2,465,200	\$ 2,465,200	100%	N/A	N/A	N/A
2018	\$ 3,519,400	\$ 3,494,464	99%	N/A	N/A	N/A
2019	\$ 3,486,400	\$	0%	\$ 1,045,920	\$	
2020	\$ 2,442,020	\$	0%	\$ 1,046,580	\$	

II. INFORMATION ON THE DWSRF ACTIVITIES TO BE SUPPORTED

Allocation of Funds

Allocation of funds to eligible projects is based on a three-step process:

1. The amount of financial assistance needed for each application is estimated
2. The sources and spending limits for all DWSRF funds are identified
3. The DWSRF funds are allocated among the projects, consistent with the financial assistance needed

Information pertinent to each DWSRF project is contained in the attached Project Priority List.

Sources and Uses of Available DWSRF Funds

FFY 2019 Capitalization Grant was awarded in the amount of \$17,348,610. Iowa has been allocated \$17,443,000 for the FFY 2020 Capitalization Grant. The Iowa SRF Program intends to apply for this grant and anticipates receiving the award during this fiscal year. Appendix A to the Intended Use Plan illustrates potential sources and uses of funds in the DWSRF for SFY 2021. As shown, all pending loan requests and program administration needs can be funded. Projects will draw on their funding at different intervals based on their construction cycles. These differences are used to estimate cash needs throughout the year. Appendix A will be updated quarterly as needed to provide an ongoing view of the financial plan for meeting loan requests.

Iowa's SRF program issues bonds as needed. These bond issues include the state match for the next federal Capitalization Grants (see Appendix D). On February 26, 2019, IFA issued \$258,005,000 of SRF bonds. Of that amount, \$9,208,600 was for Clean Water state match and \$7,667,200 was for Drinking Water state match and was deposited in the respective state match accounts. The FFY19 Clean Water Capitalization grant was matched with \$4,301,000 and the FFY19 Drinking Water Capitalization grant was matched with \$3,486,400. The remainder of the match funds will be used for the FFY20 Capitalization grants. After the bonds are issued, the state match is spent first so the Capitalization Grant can be drawn down at 100% when it is received. All of those state match funds have been disbursed to loan recipients. On February 27, 2020, IFA issued \$201,825,000 of SRF bonds. Of that amount, \$10,000,000 was for Clean Water state match and \$8,000,000 was for Drinking Water state match. The match money was deposited in the respective state match accounts for future Capitalization Grants.

DWSRF Loan Policies

Project Scope. The scope of the project must be outlined on the Intended Use Plan application and in the preliminary engineering report. Changes to the scope are allowed prior to loan closing. Significant changes in scope may cause delays if additional work is required by the project manager or environmental review specialist. Once a loan is signed, only minor changes to the scope will be allowed and only if they do not require additional technical or environmental review.

Loan Interest Rates. Interest rates for DWSRF planning and design loans are 0% for up to three years.

The interest rates for DWSRF construction loans are shown in the table below:

Loan Term	Applicant Type	Interest Rate	Servicing Fee	Total	Additional Information
Standard (up to 20 years)	All	1.75%	0.25%	2.00%	
Extended (21 to 30 years based on useful life)	Disadvantaged	1.75%	0.25%	2.00%	Please see below, "Extended Financing and Disadvantaged Status," for an explanation.
Extended (21 to 30 years based on useful life)	All	2.75%	0.25%	3.00%	Please see below, "Extended Financing and Disadvantaged Status," for an explanation.

Loan Fees. A 0.5% origination fee is charged on the full loan amount for new DWSRF construction loans and source water protection loans, with a maximum amount of \$100,000. No origination fees will be charged on planning and design loans. A .25% servicing fee will be charged on construction loans. Payment of the loan servicing fee is semi-annual with interest payments. Loan servicing fees are charged on the outstanding principal balance.

Maximum Financing. There is no maximum financing amount.

Project Readiness. Applicants cannot be offered assistance until they meet program requirements. More information can be found in the Water Supply Construction Permitting Process Manual at <https://www.iowadnr.gov/Environmental-Protection/Water-Quality/Water-Supply-Engineering/State-Revolving-Loan-Fund>.

Funding Limitations. Pending loans identified in this IUP do not exceed funds obtainable for the DWSRF Program.

Extended Financing and Disadvantaged Status. The Iowa SRF can provide extended terms of up to 30 years for any loan as long as the loan term does not exceed the expected design life of the project. For borrowers designated as disadvantaged, the interest rate on extended term loans will be 1.75%. For non-disadvantaged borrowers, the interest rate will be 2.75%.

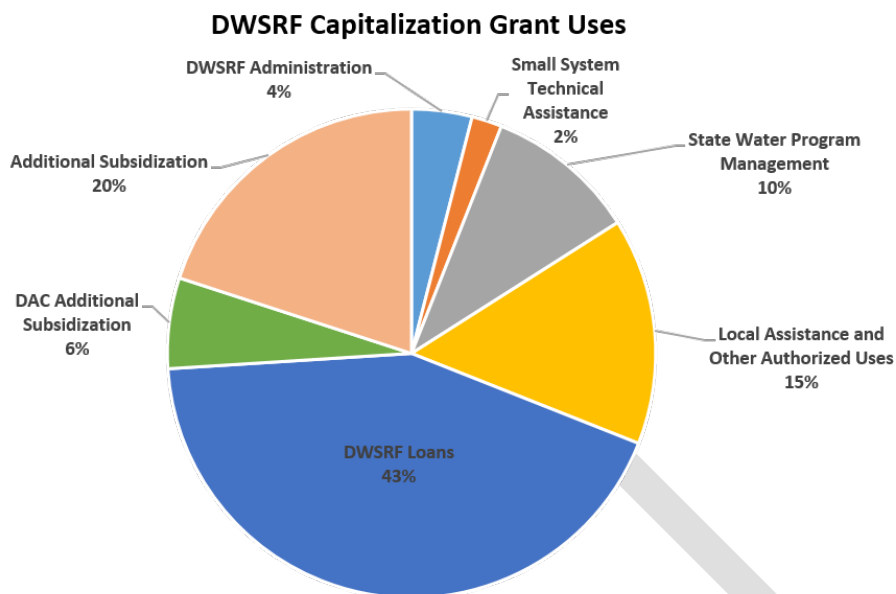
The department will use the table of estimated useful lives from EPA's publication 816-R-03-016 to determine the length of the loan for eligible expenses. The consulting engineer for the project will be required to separate and itemize costs so that a weighted maturity may be calculated for loan repayment. The list of itemized costs and expected useful lives will be required prior to signing of the loan agreement.

The Safe Drinking Water Act defines a disadvantaged community as the service area of a public water system that meets affordability criteria established after public review and comment. Community public water systems serving populations that contain a majority (51 percent) of Low to Moderate Income (LMI) persons will be considered disadvantaged for the purpose of receiving the 1.75% interest rate on an extended term loan. This criterion does not apply to any other DWSRF assistance such as additional subsidization. Low to moderate income is defined as 80 percent of the median household income in the county or state (whichever is higher) using the most recent federal census or income survey data. Privately owned community public water systems will be considered eligible for disadvantaged community status if an income survey indicates that the service area meets the LMI criteria. Rural water systems will be considered eligible for disadvantaged community status if an income survey indicates that the area benefiting from the improvements meets the LMI criteria. Income surveys must be done according to the protocol specified by the Community Development Block Grant program.

Intended Use of Set-Asides

States are allowed to take or reserve set-aside amounts from each federal Capitalization Grant for a number of activities that enhance the technical, financial, and managerial capacity of public water systems and protect sources of drinking water. The use of the set-asides as well as the loan program is intended to carry out Iowa's goal of ensuring that the drinking water received by 92% of the population served by community water systems meets all applicable health-based drinking water standards through approaches including effective treatment and source water protection.

The amounts are subject to approval by EPA of program workplans. The DNR is following the SFY 2020 workplan. Iowa plans to take or reserve set-side funds from the allowed amounts shown in the chart.



DNR has two options for addressing the amounts available each year in set-asides. Set-aside funds may be reserved for future use (except for the Local Assistance and Other Authorized Uses set-aside), in which case they would be deducted from a future Capitalization Grant when they are ready to be taken. Funds that are taken from an available Capitalization Grant must be applied to planned work efforts approved by EPA.

In recent years, DNR has been using the set-asides and drawing upon reserved funds as needed to meet the needs for programs and efforts required by EPA that are critical for ensuring public health. Once the reserved amounts are expended, the amounts available for each set-aside will be limited to the percentage allowed out of each Capitalization Grant.

DWSRF Program Administration Set-Aside. Iowa intends to use this set-aside including loan administrative fees to pay the costs of administering the State Revolving Fund loan program. Among the uses for the set-aside are:

- Portfolio management, debt issuance, and financial, management, and legal consulting fees
- Loan underwriting
- Project review and prioritization
- Project management
- Environmental review services
- Technical assistance to borrowers
- Database development and implementation
- Program marketing and coordination
- Drinking Water Infrastructure Needs Survey

Unused commitments are reserved for use in future years as necessary.

Small System Technical Assistance Set-Aside. Iowa intends to use this set-aside to provide technical assistance to public water supplies (PWSs) serving populations of less than 10,000.

Funds from this set-aside will be used this year to provide support for the operator certification program. This will include the administration and proctoring of examinations in all six regions of the state, provide training for new Grade A water system operators, and provide continuing education for existing Grade A water system operators. Grade A is the certification grade for the smallest public water supply systems, with only disinfection treatment.

Unused commitments are reserved for use in future years for DNR staff and other purposes as necessary.

State Program Support Set-Aside. The primary uses of this set-aside are to assist with the administration of the Public Water Supply Supervision program, to review engineering documents for non-DWSRF construction projects, to provide wasteload allocations at public water systems with loans, and to evaluate disinfection contact time determinations, approve corrosion control strategies, and make influenced groundwater determinations.

Other uses include:

- Updating the SDWIS database including support systems and provide compliance determinations and information technology database support
- Adopting rules and revisions to the Iowa Administrative Code

Unused commitments are reserved for use in future years for DNR staff and other purposes as needed.

Other Authorized Activities Set-Aside. The two primary uses of this set-aside are capacity development and source water protection (SWP). Unused commitments are reserved for use in future years for DNR staff and other purposes as needed.

Funds are budgeted for efforts related to developing technical, managerial, and financial capacity for Iowa's public water supplies, including:

- Completion of sanitary surveys with the eight elements and providing direct capacity development technical assistance
- Training of inspectors in comprehensive performance evaluation protocols
- Provision of technical assistance related to capacity development through the area wide optimization program (AWOP)
- Contracts with five counties to complete sanitary surveys and conduct annual visits at transient non-community public water supply systems
- System-specific capacity development assistance by contractor, including promotion of asset management planning

The SWP activities include the following:

- Coordination and administration of the Source Water Protection program
- Development of SWP plans and review and assist with implementation of Best Management Practices
- Development of data for Phase 1 SWP assessments for all new systems and new wells at existing public water supply systems
- Technical assistance for well siting
- Maintenance of the *Source Water Mapper and Tracker* online database

Plan for Use of Administrative Accounts

There are three distinct funding sources for DWSRF administrative expenses:

- The DWSRF administrative Capitalization Grant set-aside. Four percent of the cumulative amount of federal Capitalization Grants received may be used for program administration as discussed in the set-aside section above.
- Loan initiation fees. A 0.5% loan origination fee is charged on new DWSRF loans which is include in the loan principal. The fees are deposited outside of the fund. The maximum amount charged is \$100,000. Under EPA rules, because Iowa's origination fees are financed through the loans, the proceeds are considered Program Income. Iowa uses the initiation fee receipts for administration of the DWSRF Program.
- Loan servicing fees. An annual servicing fee of 0.25% is charged on the outstanding principal of DWSRF loans. The fees are deposited outside of the fund. Iowa uses servicing fees collected during the time the Capitalization Grant is open for administration of the DWSRF Program. Servicing fee receipts collected after the Capitalization Grant is closed are used for other purposes under SDWA 1452.

Program Income. As of March 2020, there was approximately \$5.9 million in the fee account from fees included as principal and deposited outside the fund (the initiation fee). A portion of these funds will be used in SFY 2021 for program administration, and the remainder will be reserved for future administrative expenses.

Non-program Income. As of March 2020, there was \$9.8 million available from fees not included as principal and deposited outside the fund (servicing fee). A portion of these funds may be used in SFY 2021 to fund some of the activities completed under the State Program Management set-aside.

SEE Salary Funds Deducted from Capitalization Grant

In the next grant application, the Iowa DNR may request U.S. EPA to deduct funds from FFY 2020 Capitalization Grant for the SEE Program. SEE Program positions could be filled by EPA Region 7 and assigned to the DNR's Water Supply engineering section to provide administrative assistance to the DWSRF projects and program. The SEE enrollees could help provide staffing at Iowa DNR to maintain the DWSRF program and keep up with the increasing DWSRF project administrative work load. Authorized under the Environmental Programs Assistance Act of 1984 (PL 98- 313), the SEE program is intended "to utilize the talents of older Americans in programs authorized by other provisions of law administered by the Administrator in providing technical assistance to Federal, State, and local environmental agencies for projects of pollution prevention, abatement, and control."

Surface Water Curriculum Development Funds Deducted from the Capitalization Grant

The Iowa DNR is working on a project to develop advanced training for operators who currently operate surface water treatment plants. The Environmental Protection Agency is offering contracting services to help facilitate advanced surface water training with Process Applications Inc. The training will consist of six modules conducted over a three year period. Each session will last one or two days and will include a mix of presentations and small group workshops.

Module topics include:

- 1) Regulations and implementation
- 2) Surface water optimization
- 3) Coagulation, flocculation, and sedimentation

- 4) Filtration and residuals handling
- 5) Disinfection
- 6) Advanced topics such as jar test calibration, manganese control, cyanotoxin control, enhanced TOC removal, and source water considerations.

Plan for Efficient and Timely Use of DWSRF Funds

In recent years, the processes of the DWSRF have been streamlined, and the marketing and education enhanced. These improvements have resulted in more efficient and timely use of the DWSRF and full utilization of available funds. In particular, Iowa applies for and draws federal Capitalization Grants as expeditiously as possible. Iowa's DWSRF disbursements averaged \$4 million per month in 2019.

Rather than doing one annual funding solicitation, with a discrete set of projects identified for funding that year, the Iowa SRF does quarterly updates to its Intended Use Plan. This creates a continuous pipeline of projects at different stages of readiness. Communities determine when they need their funding; the program does not set deadlines on loan execution as long as projects are making progress toward a loan.

With a return of \$2.93 for every dollar of federal investment (compared to the national average of \$2.00), Iowa's DWSRF is an efficient and effective delivery mechanism for water infrastructure funding.

DWSRF set-asides are typically fully utilized within a two-year planning and budgeting period. Iowa will draw grant funds based on designated uses on a first in, first out basis in order to close out Capitalization Grants. Due to increased water program budget needs and reduced funding from other sources, Iowa is spending reserved set-aside capacity at a faster rate than in the early years of the DWSRF program.

III. ASSURANCES AND SPECIFIC PROPOSALS

Iowa will provide the necessary assurances and certifications according to the Operating Agreement between the State of Iowa and the U.S. EPA.

IV. CRITERIA AND METHOD FOR DISTRIBUTION OF FUNDS

The following approach was used to develop Iowa's proposed distribution of DWSRF funds: (1) analysis of the priority of communities applying and financial assistance needed; (2) identification of the sources and spending limits of available funds; (3) allocation of funds among projects; (4) development of a payment schedule which will provide for making timely binding commitments to the projects selected for DWSRF assistance; and (5) development of a disbursement schedule to pay the project costs as incurred.

Priority of Communities and Financial Assistance Needed

Iowa law provides only for loan assistance. Additional subsidization required by the FFY 2018, 2019 and FFY 2020 Capitalization Grants will be through forgivable loans. The state's DWSRF rules identify the priority rating system used to establish priorities for financial assistance.

Projects can receive financial assistance for all eligible planning and project costs provided the project is on the Project Priority List of an approved IUP.

Allocation of Funds among Projects

All projects listed in the Project Priority List are eligible for assistance and may be funded from the DWSRF subject to available funds.

All projects scheduled for funding with Iowa's DWSRF will be reviewed for consistency with the Safe Drinking Water Act, as amended. Should a project fail to meet this review criterion, it may remain on the list until the criteria is met or it may be removed from the list. Projects may be added to the Project Priority List in priority order as applications are received.

V. METHOD OF AMENDMENT OF THE INTENDED USE PLAN

The State will follow this IUP in administering DWSRF funds in SFY 2021. Federal and state law requires, and Iowa welcomes, opportunity for public participation in the development of the IUP. Any revisions of the goals, policies and method of distribution of funds must be addressed by a revision of the IUP, including public participation. Minor adjustments in funding schedules and loan amounts are allowed by the procedures of this IUP and state rules for administration of the DWSRF without public notification. Adjustments to the Project Priority List to utilize actual funds available to the DWSRF for SFY 2021 will be considered minor and only affected applicants will be notified. Public notice of amendments will be made if municipalities are added to or removed from the Project Priority List.

VI. PUBLIC REVIEW AND COMMENT

A public meeting to allow input to Iowa's SFY 2021 IUP and Project Priority List was held May 14, 2020, 10:00 a.m. via conference call. This meeting was announced in a notice provided to stakeholder organizations representing city officials, consulting engineers, county governments, councils of government, area planning agencies, and other groups which might have an interest. There were no attendees. The public comment period was open until May 21, 2020. There were no written comments.

A public meeting to allow input to Iowa's SFY 2021 Q2 IUP and Project Priority List was held August 13, 2020, 10:00 a.m. via conference call. This meeting was announced in a notice provided to stakeholder organizations representing city officials, consulting engineers, county governments, councils of government, area planning agencies, and other groups which might have an interest. There were no attendees. The public comment period was open until August 20, 2020. There were no written comments received.

A public meeting to allow input to Iowa's SFY 2021 Q2 IUP and Project Priority List was held November 12, 2020, 10:00 a.m. via conference call. This meeting was announced in a notice provided to stakeholder organizations representing city officials, consulting engineers, county governments, councils of government, area planning agencies, and other groups which might have an interest. There were 3 attendees but no comments were taken for the record. The public comment period was open until November 19, 2020. There were no written comments received.

VII. PROJECT PRIORITY LIST

Attachment 1, the DWSRF Project Priority List, is included in a separate, sortable Excel file.

APPENDIX A

Iowa DWSRF State Fiscal Year 2021 Q3
Estimated Funding Sources and Funding Uses
As of 10/20/20

Funding Sources for Loans

Funds Available in Equity Fund, Bond Proceeds and Program Accounts	\$123,415,000 *
FFY 2020 Capitalization Grant	\$11,289,000 *
FFY 2021 Capitalization Grant	\$12,028,000 **
State Match Bond Proceeds for FFY 2019/20 Capitalization Grants	\$0
State Match Bond Proceeds for FFY 2021/22 Capitalization Grants	\$0
Issuance of Leveraged Bonds (Next Bond Issue Expected SFY 2021)	\$0 **
Equity Fund and Program Interest Earnings	\$350,000
Loan Repayments	\$46,909,000
Total Funding Sources for Loans	\$193,991,000

Funding Uses for Loans

Undisbursed Amounts Committed to Existing Loans (75% disbursement rate)	\$67,522,000
Project Requests (FNSI/CX issued; 60% disbursement rate)	\$24,268,000
Project Requests (FNSI/CX not issued; 55% disbursement rate)	\$70,150,000
Planning & Design Requests (50% disbursement rate)	\$1,116,000
Principal Payments on Outstanding Bonds	\$17,940,000
Interest Payments on Outstanding Bonds	\$12,995,000
Total Funding Uses for Loans	\$193,991,000

* Funds Available for disbursements as of 10/20/20

** Estimated only

*** Loan disbursement rates are estimated based on previous experience with project pace. For projects that currently have not had a Finding of No Significant Impact or Categorical Exclusion issued, it is expected that up to 50% of the total project amounts may be disbursed once environmental review is completed, construction permit issued, and binding loan commitment signed. For those projects with FNSI/CX clearance, the disbursement rate is estimated at 60% of the loan request amount.

All amounts rounded to the nearest \$1,000

Funding Sources for Set Asides (Includes FFY 2020 & previous Capitalization Grants)

Administration	\$1,058,000
Small Systems Technical Assistance	\$410,000
State Program	\$2,106,000
Other Authorized Activities	\$2,120,000
Total Funding Sources for Set-Asides	\$5,694,000

Funding Uses for Set Asides

Administration	\$1,058,000
Small Systems Technical Assistance	\$410,000
State Program	\$2,106,000
Other Authorized Activities	\$2,120,000
Total Uses for Set Asides	\$5,694,000

APPENDIX B

PROCEDURES TO DETERMINE PROJECT PRIORITY LIST

Project rankings were determined by the following procedures:

- Eligibility of applications were determined by needs criteria identified in IAC 567—44.7(8). In general, most water source, treatment and distribution system improvements are considered eligible.
- Project applications received during the SFY 2020 application period were considered for funding in SFY 2020; if not funded by the end of SFY 2020, these projects will be moved to the SFY 2021 project priority list.
- The priority ranking is a total score developed using the scoring criteria listed in IAC 567—44.7(8). Points may be gained in each of five categories: Water Quality and Human Health Risk-Related Criteria (60 point maximum), Infrastructure and Engineering-Related Improvement Criteria (35 point maximum), Affordability Criteria (10 point maximum), Special Category Improvements (15 point maximum), and Iowa DNR Adjustment Factor for Population (10 points). The combined score provides a numerical measure to rank each project within its pool. A project with a larger number receives higher priority.
- The final project priority list for a fiscal year's project pool is compiled in the following manner: Subsequent segments of projects funded by DWSRF loan programs of previous years will retain their original score and be added to the list of the current year's applications.
- Loan-eligible projects submitted will be placed on the IUP each calendar quarter. If the project is anticipated to proceed during SFY 2021, the project will be added to the project priority list and the list will be made available for public comment at the end of each calendar quarter in which one or more projects are added to the list.
- Projects on the project priority list will be moved to contingency status if the total amount of needs exceeds the year's DWSRF staff resources capability and loan funding. Projects will be funded from the top down in the ranking order of the project priority list with consideration given to readiness to proceed. Projects are ranked similarly in the contingency project list. Projects on contingency status can be moved to the funding list when funds are available or when the project is ready to proceed. Funds can be made available due to a number of reasons including project bypasses, loan application withdrawal of other projects, reduction in loan amount requests, or an increase in available funds.

APPENDIX C**BORROWERS RECEIVING ADDITIONAL SUBSIDIZATION OR COUNTED FOR GREEN PROJECT RESERVE**

Loan forgiveness in the DWSRF program has been provided for four categories of projects through FY 2018 Capitalization Grant:

- Public Health (PH)
- Green Projects (G)
- Disadvantaged Communities (D)
- Emergency Power Generation (EP)

Beginning in FFY 2019 Capitalization Grant and continuing with the FFY 2020 Capitalization Grant, loan forgiveness will be offered only to the Public Health (PH) category. If selected, eligible projects addressing non-compliance with drinking water regulations will receive up to 50% loan forgiveness of eligible costs. An additional 25% may be offered to those projects that choose the option of hooking onto another viable public water supply system to address their non-compliance issue:

- Public Health (PH)
- Public Health + Connection (PH/C)

The FFY 2019 and FFY 2020 Capitalization Grants also require that an additional 6% of the state's allocation be used to provide loan forgiveness to Disadvantaged Communities (DAC).

Construction must begin within 24 months of the loan forgiveness offer or the loan forgiveness offer may be withdrawn or reassigned.

Type	Project	Loan Amount	Amount Green Project Reserve	Amount Additional Subsidization	DAC Additional Subsidization	Grant Year Reported
PH	Amana	5,400,000		2,490,000		2016
PH	Amana	5,400,000		1,301,691		2017
G	Sabula	550,000	550,000	101,460		2017
PH	Lacina Meadows	945,000		652,845		2017
EP	Osceola RW	3,719,000		64,800		2017
EP	Oelwein	1,462,000		75,000		2017
PH	Bellevue	2,200,000		269,404		2017
PH	Bellevue	2,200,000		1,380,596		2018
PH	Gallery Acres	1,334,000		1,000,500		2018
EP	Lyon-Sioux RWS Rock Rapids	90,163		67,622		2018
G	Cushing	61,100	18,330	18,330		2018
EP	Cushing	36,555		27,416		2018
G	Rathbun RWA	2,902,945	2,902,945	1,000,000		2018
PH/C	Dedham	402,000		Up to 75%		2019
PH	Albion	693,000		Up to 50%		2019
PH/C	MacBride Point	178,000		Up to 75%		2019
PH/C	Bagley	545,000		Up to 75%		2019
PH/C	Woodland Ridge	638,000		Up to 75%		2019

APPENDIX D
STATE MATCH

FY19	Cap grant Amount	State Match Needed	Excess State match
CW State Match from			
Feb 2019 Bond Issue		\$9,208,600	
excess state match		\$0	
repay non-program income		-\$408,600	
Total CW State match Available		\$8,800,000	
FY19 CW cap grant	\$21,505,000	\$4,301,000	\$4,499,000
DW State Match from			
Feb 2019 Bond Issue		\$7,667,200	
excess state match		\$0	
repay non-program income		-\$467,200	
Total DW State match Available		\$7,200,000	
FY19 DW cap grant	\$17,432,000	\$3,486,400	\$3,713,600
FY20	Cap grant Amount	State Match Needed	Excess State match
Remaining CW State Match from			
Feb 2019 Bond Issue		\$4,499,000	
excess state match		\$0	
Total CW State match Available		\$4,499,000	
FY20 CW cap grant	\$21,508,000	\$4,301,600	\$197,400
Remaining DW State Match from			
Feb 2019 Bond Issue		\$3,713,600	
excess state match		\$0	
Total DW State match Available		\$3,713,600	
FY20 DW cap grant	\$17,443,000	\$3,488,600	\$225,000
FY21	Cap grant Amount	State Match Needed	Excess State match
CW State Match from			
Feb 2020 Bond Issue		\$10,000,000	
excess state match		\$197,400	
Total CW State match Available		\$10,197,400	
FY21 CW cap grant		\$0	
Remaining DW State Match from			
Feb 2019 Bond Issue		\$8,000,000	
excess state match		\$225,000	
Total DW State match Available		\$8,225,000	
FY21 DW cap grant		\$0	

ATTACHMENT 1, the DWSRF Project Priority List, is included in a separate, sortable Excel file.

**Iowa Department of Natural Resources
Environmental Protection Commission**

ITEM**6****INFORMATION****TOPIC**

**Environmental Management System Program Fiscal Year 2020
Annual Report**

The DNR Environmental Management System (EMS) FY2020 Annual Report (Report) is being submitted per the requirement of Iowa Code section 455J.7(4) which states, “The department shall prepare an annual report citing the results and costs of the program for submittal to the commission by January 1, 2018, and by January 1 each year thereafter.”

The Report documents that DNR implemented the program and provided support and resources for its fourteen EMS-participating agencies. As part of the Report, DNR reviewed the individual annual reports submitted by each participant, describing their active pursuit for continuous improvement in the program’s six environmental component areas.

To commemorate the 10-year anniversary of DNR’s EMS program, the Report also highlights the cumulative environmental impact achieved by EMS participants. These cumulative results will be described in greater detail in the *10-Year Impact Stories* publication, which is scheduled for completion in January 2021.

December 15, 2020

Laurie Rasmus, Program Planner
Financial and Business Assistance, Land Quality Bureau
Environmental Services Division

ENVIRONMENTAL MANAGEMENT SYSTEM



ANNUAL REPORT FISCAL YEAR 2020

www.iowadnr.gov/swems

502 E. Ninth St. Des Moines, IA 50319 | 515-725-8200

The Iowa Department of Natural Resources' (DNR) Environmental Management System (EMS) program began in 2009 as a voluntary alternative to Solid Waste Comprehensive Planning. Today, more than half of Iowa's population is within an EMS-participating planning area where continuous improvement and environmental stewardship are actively pursued.

Each EMS identifies their local, environmental risks and determines project goals that will result in measured environmental improvement. DNR supports its 14 EMS participants by offering technical assistance, training opportunities and grant funding. From year to year, DNR grant awards have remained relatively consistent while the environmental impact of the EMS projects has progressively grown.



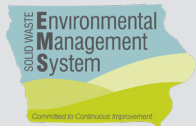
The table below highlights and summarizes the program's cumulative impact since its inception 10 years ago.

FISCAL YEARS 2009 - 2019

EMS COMPONENT		TOTAL	METRIC	REPORTING PARTICIPANTS
Organics waste management		384,310 tons	Food and yard waste diverted from landfill	6
Household hazardous materials collection		6,758 tons	Household hazardous material collected	12
		192,182 households	Served by hazardous material collection	8
Water quality improvement		387 acres	Land management or stormwater control areas	7
		478,293 pounds	Cleaned-up litter/illegal dumps	6
Greenhouse gas reduction		26,525 Kwh	Saved after initiatives implemented	2
		8,016 tons of CO2e	Avoided after initiatives implemented	6
Recycling services		1,095,762 participants	Served by increased access	3
		343,886 tons	Collected for recycling	12
Environmental education		573,836 participants	Served by outreach	5
		65,241 students	Served by teaching partnerships	2

REAL IMPACTS

The environmental impact from the greenhouse gas reduction component area is equivalent to keeping 1,736 passenger cars off the road for a year.



FISCAL YEAR 2020 EMS PROGRAM COSTS

Third-party external auditing	\$28,116
Technical support and assistance, participant training	\$53,663
Grant awards	\$290,526
TOTAL	\$372,305

FISCAL YEAR 2010-2019 GRANT FUNDING

Grant awards over 10 years	\$3,176,463
Local cash match	\$3,797,241
TOTAL	\$7,620,548

Iowa Department of Natural Resources
Environmental Protection Commission

ITEM 7

DECISION

Contract with THE UNIVERSITY OF IOWA**Recommendation:**

Commission approval is requested for a service contract with the State Hygienic Laboratory at the University of Iowa.

Contract Terms:

Amount: Not to exceed \$77,009.30

Dates: December 15, 2020, to June 30, 2021.

Funding Source(s): Environment First Fund for monitoring.

Statutory Authority: The statutory authority to contract for this project is Iowa Code section 455B 103(3).

Contract Background: DNR has been monitoring groundwater since 2001 as part of the Clean Water Act requirements to determine status and trends of water of the state. Besides statewide trend monitoring, in this project DNR will also be looking at the Dakota Aquifer in northwestern Iowa, which is the primary source of groundwater for farms and municipalities for that area. It has been decades since the last reconnaissance of this aquifer occurred.

Contract Purpose: The parties propose to enter into this Contract to retain the Contractor to provide analytical support for samples collected in fulfillment of this project.

Contractor Selection Process:

DNR is allowed to contract with the University of Iowa pursuant to Iowa Code section 455B.103(3).

Contract History:

Contract 1: October 15, 2019, to June 30, 2020; Amount \$ 14,504.40
Contract 2: October 31, 2018, to June 30, 2019; Amount \$ 22,689.72
Contract 3: October 31, 2017, to June 30, 2018; Amount \$ 42,868.98
Contract 4: October 1, 2016, to June 30, 2017; Amount \$ 88,333.20
Contract 5: September 1, 2015, to June 30, 2016; Amount \$ 69,899.76

Roger Bruner, Supervisor, Water Quality Bureau
Environmental Services Division
December 15, 2020

5.1 Statement of Work. Contractor shall perform the following Tasks. Contractor shall complete its obligations under this Contract by the Task Milestone Dates set out in the following table.

Obligation	Task Milestone Date
<p>Task 1: Sample Container Shipment for Dakota Aquifer wells and QA/QC Description: SHL shall provide sample containers, chain of custody paperwork for all water samples, and shall send coolers to sites listed in Table 1 with bottles necessary to conduct analyses listed in Table 2 during the Contract period. DNR staff will provide SHL with return shipping labels for all municipal water operators associated with sampling sites. All QA/QC coolers shall be made available to DNR.</p>	<p>Materials shall be mailed to all sites between December 15, 2020, and January 15, 2021.</p>
<p>Task 2: Analysis of water quality parameters for Dakota Aquifer wells and QA/QC Description: SHL shall analyze samples from sites listed in Table 1 for parameters listed in Table 2, within holding times specified in Exhibit A unless authorized in writing by DNR.</p> <p>Samples analyzed as part of this activity shall be coded as GWMAMBIENT. All samples received from DNR shall be coded to a specific monitoring activity and shall include a detailed list of the analyses to be performed unless other arrangements have been made before delivery of the sample to SHL. SHL log-in procedures shall accommodate this code.</p>	<p>This Task shall be completed by no later than May 30, 2021.</p>
<p>Task 3: Sample Container Shipment to Groundwater Monitoring Network wells and QA/QC for trend analysis Description: SHL shall provide sample containers, chain of custody paperwork for all water samples, and shall send coolers to sites listed in Table 3 with bottles necessary to conduct analyses listed in Table 4 during the Contract period. DNR staff will provide SHL with return shipping labels for all municipal water operators associated with sampling sites. All QA/QC coolers shall be made available to Iowa DNR.</p>	<p>Materials shall be mailed to all sites between December 15, 2020, and January 15, 2021.</p>
<p>Task 4: Analysis of water quality parameters for Ambient Groundwater Monitoring Network wells and QA/QC Description: : SHL shall analyze samples from sites listed in Table 3 for parameters listed in Table 4, within holding times specified in Exhibit A unless authorized in writing by DNR.</p> <p>Samples analyzed as part of this activity shall be coded as GWMAMBIENT. All samples received from DNR shall be coded to a specific monitoring activity and shall include a detailed list of the analyses to be performed unless other arrangements have been made before delivery of the sample to SHL. SHL log-in procedures shall accommodate this code.</p>	<p>This Task shall be completed by no later than May 30, 2021.</p>
<p>Task 5: Data Transfer Description: SHL shall make the data generated pursuant to this Contract available to DNR electronically through the State Hygienic Laboratory OpenELIS database web portal. Data shall be available for download by DNR staff in a mutually agreeable format. The available sample information shall include the STORET station identification number, which will be provided by DNR for all station locations. Data shall be retrievable via the web portal by DNR staff.</p> <p>Analytical reports may be retrieved electronically by DNR staff having the appropriate authorization. SHL shall assist DNR staff in obtaining appropriate authorization when requested.</p> <p>When accessing electronic data, the following information is required:</p>	<p>SHL shall make completed data and results available to DNR via the SHL OpenELIS web portal not later than 15 calendar days after the end of each month.</p> <p>If SHL determines that extra time for analysis should be allowed in specific cases, then a written notification shall be made to the DNR Project Manager, stating</p>

- SHL OpenELIS/Telcor Organization ID number : 3916
- SHL Project Code: GWMAMBIENT

that analytical results from a sample will be delayed and the reasons for the delay. This notification shall occur as soon as possible but not later than 15 days following receipt of the sample.

Table 1. Dakota Aquifer wells

Number	Storet_ID	Well_Name	GEOSAMID	TAG_ID
1	31550004	Algona 8	60210	0
2	31150005	Anita 4	65303	0
3	31810004	Auburn 5	42969	1030030
4	31140009	Breda 4	37778	1040064
5	31140007	Carroll 11	37480	1040072
6	31780010	Carson 7	58045	0
7	31180002	Cherokee 10	42300	1030062
8	31180008	Cherokee 11	37944	1030057
9	31140001	Coon Rapids 1, N	38232	1040104
10	31150002	Cumberland (5), 4	38610	1040117
11	31140008	Glidden 6	25518	1040206
12	31150007	Griswold 3	40033	1040217
13	31470006	Holstein 1 (W567)	567	1030167
14	31970011	Moville 5	51614	1030286
15	31780008	Neola (4) 3	40980	1040383
16	31760001	Pocahontas 3	41479	1030336
17	31710005	Primghar 8	57231	1030346
18	31180010	Quimby 3	57083	0
19	31690004	Red Oak 4-2	41634	1040439
20	31750007	Remsen 7	41645	1030360
21	31750009	Remsen 9	57863	1030362
22	31810005	Schaller 2	9380	1030429
23	31970002	Sioux City 2	42491	1030470
24	31690001	Stanton 1	6207	1040511
25	31740001	West Bend 2	3595	1030537
26	31150004	Wiota 4	34731	1040580

27	31430010	Woodbine 4	57225	1040584
28	31390007	Adair-Casey Community School 1	10683	1040005
29	31150010	Atlantic 19	89683	0
30	31940012	Clare 2	31926	1020088
31	31970013	Correctionville 2	8854	1030074
32	31740007	Emmetsburg 6	33749	1030107
33	31550003	Fenton 2	533	1020162
34	31710008	Hartley 4	26621	1030145
35	31740016	Hinton 6	80411	0
36	31140013	Lanesboro 1	1406	1040612
37	31750014	Le Mars 6	18832	1030221
38	31600007	Lyon-Sioux RWS L-2	65575	1030556
39	31840013	Orange City 11	33110	0
40	31720002	Osceola Rural Water System North DS-2	94023	0
41	31320004	Ringsted 5	90800	0
42	31740006	Ruthven 1	53331	1030414
43	31710007	Sheldon 9	15818	1030439
44	31740015	Southern Sioux County RWS D-1	25487	1030487
45	31390006	Springbrook State Park Main System 2	18695	1040508
46	31100008	Storm Lake 15	31664	1030514
47	31950004	Thompson 1	42644	1020489
48	31740017	Westfield 3	43117	1030548
49		Dakota QA/QC #1		
50		Dakota QA/QC #2		
51		Dakota QA/QC #3		
52		Dakota QA/QC #4		
53		Dakota QA/QC #5		
54		Dakota QA/QC #6		
55		Dakota QA/QC #7		

Table 2. Analytes for Dakota Aquifer wells

Analyte	Method	Reporting Limit	Unit Cost	Samples	Total Cost
Lab pH	SM 4500 H+B	10	\$7.50	55	\$ 412.50
Lab Spec. Cond	25C SM 2510 B 18th	1 umho/cm	\$7.50	55	\$ 412.50
Total Dissolved Solids	SM 2540C	10 mg/L	\$15.00	55	\$ 825.00

Total Hardness	SM 2340 C	1 mg/L	\$15.00	55	\$ 825.00
Bicarbonate Alkalinity	SM 2320 B	1 mg/L	\$15.00	55	\$ 825.00
Carbonate Alkalinity	SM 2320 B	1 mg/L	\$15.00	55	\$ 825.00
Total Organic Carbon	SM 5310C	1 mg/L	\$38.00	55	\$ 2,090.00
Nitrate + Nitrite as N	LAC 10-107-04-1J	0.1 mg/L	\$15.00	55	\$ 825.00
Ammonia as N	LAC 10-107-06-1J	0.05 mg/L	\$15.00	55	\$ 825.00
Orthophosphate	LAC 10-115-01-1A	0.02 mg/L	\$15.00	55	\$ 825.00
Chloride	EPA 300.0	1.0 mg/L	\$15.00	55	\$ 825.00
Bromide	EPA 300.0	0.5 mg/L	\$15.00	55	\$ 825.00
Fluoride	SM 4500-F C	0.1 mg/L	\$15.00	55	\$ 825.00
Sulfate	EPA 300.0	1 mg/L	\$15.00	55	\$ 825.00
Sulfide	SM 4500-S-F	0.01 mg/L	\$32.00	55	\$ 1,760.00
Arsenic (dissolved)	EPA 200.8	0.001 mg/L	\$15.00	55	\$ 825.00
Iron (dissolved)	EPA 200.7	0.02 mg/L	\$15.00	55	\$ 825.00
Manganese (dissolved)	EPA 200.7	0.02 mg/L	\$15.00	55	\$ 825.00
Sodium (dissolved)	EPA 200.7	0.5 mg/L	\$15.00	55	\$ 825.00
Potassium (dissolved)	EPA 200.7	1 mg/L	\$15.00	55	\$ 825.00
Calcium (dissolved)	EPA 200.7	1 mg/L	\$15.00	55	\$ 825.00
Magnesium (dissolved)	EPA 200.7	0.5 mg/L	\$15.00	55	\$ 825.00
Gross Alpha	EPA 900.0	3 pCi/L	\$37.00	55	\$ 2,035.00
Gross Beta	EPA 900.0	4 pCi/L	\$37.00	55	\$ 2,035.00
Radon 222	SM 7500 RN B 19th		\$69.00	55	\$ 3,795.00
Radium 226	EPA 903.0	1 pCi/L	\$80.00	55	\$ 4,400.00
Radium 228	EPA 904.0	1 pCi/L	\$125.50	55	\$ 6,902.50
Isotopic Uranium (234, 238)	ACW02VBS REV 1.4		\$85.00	55	\$ 4,675.00
Polonium-210	RAD 13.26		\$85.00	55	\$ 4,675.00
Lead-210	OTW01 REV 2.0		\$85.00	55	\$ 4,675.00
Aluminum (dissolved)	EPA 200.8	0.1 mg/L	\$15.00	55	\$ 825.00
Barium (dissolved)	EPA 200.8	0.05 mg/L	\$15.00	55	\$ 825.00
Boron (dissolved)	EPA 200.7	0.05 mg/L	\$15.00	55	\$ 825.00
Chromium (dissolved)	EPA 200.8	0.02 mg/L	\$15.00	55	\$ 825.00
Cobalt (dissolved)	EPA 200.8	0.05 mg/L	\$15.00	55	\$ 825.00
Copper (dissolved)	EPA 200.8	0.01 mg/L	\$15.00	55	\$ 825.00
Lead (dissolved)	EPA 200.8	0.001 mg/L	\$15.00	55	\$ 825.00
Lithium (dissolved)	EPA 200.7	0.01 mg/L	\$15.00	55	\$ 825.00

Molybdenum (dissolved)	EPA 200.8	0.02 mg/L	\$15.00	55	\$ 825.00
Selenium (dissolved)	EPA 200.8	1 mg/L	\$15.00	55	\$ 825.00
Silica (dissolved)	4500-SI(D)		\$15.00	55	\$ 825.00
Strontium (dissolved)	EPA 200.8	2 mg/L	\$15.00	55	\$ 825.00
Thallium (dissolved)	EPA 200.8		\$15.00	55	\$ 825.00
Titanium (dissolved)	EPA 200.8	5 mg/L	\$15.00	55	\$ 825.00
Uranium (dissolved)	EPA 200.8	0.67 mg/L	\$15.00	55	\$ 825.00
Vanadium (dissolved)	EPA 200.8	2 mg/L	\$15.00	55	\$ 825.00
Zinc (dissolved)	EPA 200.8	10 mg/L	\$15.00	55	\$ 825.00

TOTAL \$ 66,742.50

Table 3. Wells for Groundwater Monitoring network trend analysis

Number	Storet_ID	Well_Name	GEOSAMID	TAG_ID
1	31250002	Adel 3	34349	1050481
2	31050005	Audubon 13	36202	1040037
3	31830004	Avoca Regional Water 19	63981	0
4	31470004	Battle Creek 3	77265	0
5	31860001	Belle Plaine 4	12850	1010082
6	31820001	Blue Grass (2), 1	22757	1060633
7	31080001	Boone 20	36518	1050049
8	31050001	Brayton 1	36526	1040062
9	31230002	Camanche 2	37104	1060104
10	31770001	Carlisle 5	37787	1050075
11	31780001	Carson (5), 3	37796	1040080
12	31530003	Cascade 4	23975	1010151
13	31070007	Cedar Falls 8	37620	1010166
14	31070008	Cedar Falls 9	37621	1010168
15	31570001	Cedar Rapids S6	37641	1010213
16	31340005	Charles City 8	67030	0
17	31220006	Clayton 1	26579	1010242
18	31380001	Conrad 3	13238	1020111
19	31970001	Correctionville 1 W	38220	1030073
20	31960007	Decorah 7	39057	1010288
21	31310002	Dubuque 9	39381	1010320
22	31900001	Eddyville 3	37238	1060226
23	31330001	Elgin 2	39679	1010341

24	31360001	Farragut 79-2 N	39766	1040188
25	31120001	Greene 2	11918	1020212
26	31840003	Hawarden 4	40196	1030151
27	31470002	Holstein 3	40222	1030169
28	31470003	Ida Grove 7	56576	1030186
29	31100006	Independence 3	1856	1010469
30	31100001	Jesup 2	9382	1010495
31	31750001	Kingsley 1	40518	1030199
32	31600004	LS-Doon RWS 3	40669	1030250
33	31280001	Manchester 7	26440	1010582
34	31670001	Mapleton 5	40727	1040359
35	31150006	Massena 6	62594	0
36	31430001	Mondamin 2, S	40889	1040379
37	31530001	Monticello 4	40900	1010633
38	31570013	Mount Vernon 9	64887	0
39	31850009	Nevada 8	68383	1040776
40	31500002	Newton 13	7999	1050260
41	31250001	Perry 9R	28614	1050301
42	31660001	Saint Ansgar 2	41731	1020459
43	31710001	Sheldon 6	42404	1030436
44	31060001	Shellsburg 2	42414	1010791
45	31650001	Silver City 3	25345	1040498
46	31840007	Sioux Center 13	42486	1030460
47	31420009	Steamboat Rock 1	5188	1020467
48	31860002	Tama 5	18841	1050375
49	31250003	Van Meter 3	57592	1050429
50	31810001	Wall Lake 3	52192	1030532
51	31070001	Waterloo 17	12031	1010953
52	31030003	Waukon 2	43055	1010961
53	31090002	Waverly 6	26606	1010968
54	31160001	West Branch 4	25589	1060005
55		GWM Trend QA/QC #1		
56		GWM Trend QA/QC #2		
57		GWM Trend QA/QC #3		
58		GWM Trend QA/QC #4		
59		GWM Trend QA/QC #5		

60		GWM Trend QA/QC #6		
61		GWM Trend QA/QC #7		

Table 4. Analytes for GWM trend analyses

Analyte	Method	Reporting Limit	Unit Cost	Samples	Total Cost
Lab pH	SM 4500 H+B	10	\$7.50	61	\$ 457.50
Lab Spec. Cond	25C SM 2510 B 18th	1 umho/cm	\$7.50	61	\$ 457.50
Nitrate + Nitrite as N	LAC 10-107-04-1J	0.1 mg/L	\$15.00	61	\$ 915.00
Ammonia as N	LAC 10-107-06-1J	0.05 mg/L	\$15.00	61	\$ 915.00
Chloride	EPA 300.0	1.0 mg/L	\$15.00	61	\$ 915.00
Sulfate	EPA 300.0	1 mg/L	\$15.00	61	\$ 915.00
TOTAL					\$ 4,575.00

7.3 Budget The budget and submission of invoices for this Contract shall be as follows:

Task*	Total Amount of compensation allotted to Task** (Variable Payment***)	Task Milestone Date	Invoice Due No Later Than:
Task 1: Shipment to Dakota wells	No cost	January 15, 2021	
Task 2: Analysis of water quality parameters for Dakota wells and QA/QC	\$ 66,742.50	May 31, 2021	June 30, 2021
Task 3: Shipment to GWM network wells	No cost	January 15, 2021	
Task 4: Sample Container Shipment to Groundwater Monitoring Network wells and QA/QC for trend analysis	\$ 4,575.00	May 31, 2021	June 30, 2021
Task 5: Data Transfer	N/A	SHL shall make completed data and results available to DNR via the SHL OpenELIS web portal not later than 15 calendar days after the end of each month. If SHL determines that extra time for analysis should be allowed in specific cases, then a written notification shall be made to the DNR Project Manager, stating that	N/A

		analytical results from a sample will be delayed and the reasons for the delay. This notification shall occur as soon as possible but not later than 15 days following receipt of the sample.	
Sub-totals	\$71,317.50		
Facilities and Administrative Costs @ 8%	\$ 5,691.80		Included with invoices above
Total	\$ 77,009.30		

*Payment for completion of Tasks where specific payment is allotted shall be dependent upon the timely completion of corresponding items required by Tasks where no specific payment is allotted.

**Payment also shall conform to any pricing Tables contained in this Contract and referenced in the Budget Table above; or to the relevant SHL Pricing Table. Tables contained in this Contract shall take precedence, in the event of any inconsistency.

***Variable payment” shall mean that the number of specific analyses per Task may vary, and the Contractor shall be paid only for the number of specific analyses performed per Task. “Fixed payment” shall mean that the Contractor shall be paid an amount that is fixed in the Contract, with no variations based on analyses per Task actually performed.

Iowa Department of Natural Resources
Environmental Protection Commission

ITEM 8

DECISION

Contract with IOWA STATE UNIVERSITY**Recommendation:**

Commission approval is requested for a service contract with Iowa State University, College of Ecology, Evolution, and Organismal Biology in Ames, Iowa.

Contract Terms:

Amount: Not to exceed \$866,363

Dates: January 1, 2021, to January 31, 2024.

Funding Source(s): The source of funding for this Contract is HB8A Environment First Fund (60%) and 39HA-18 Lake Restoration Program (40%).

Statutory Authority: The statutory authority to contract for this project is from Iowa Code section 8.57A Environment First Fund and Iowa Code 456A.33B Lake Restoration Program.

Contract Background: This encompasses the majority of lake water quality monitoring conducted as part of the state-wide water monitoring program and is the primary basis for assessing the state's lake water quality. The purpose of this program is to define the condition of Iowa's lakes, characterize the existing and emerging issues, measure changes or trends in water quality, and provide information to citizens and decision-makers. Specific ways DNR intends to utilize the information gathered and analyzed in this Contract are fulfillment of Clean Water Act sections 303d and 305b requirements including: biennial reporting on the status of lake water quality, impaired waters listing, and total maximum daily load reporting; management and evaluation of this natural resource; and allocating lake restoration funds most appropriately.

Contract Purpose: The parties propose to enter into this Contract to retain the Contractor to provide DNR with lake monitoring data. As part of this Contract ISU will provide field and analytical support for monitoring on 132 of Iowa's significant publicly owned lakes. The lakes are monitored three times during the field season for basic water chemistry, nutrients, plankton composition, algal toxins, and clarity. Additionally, ISU will provide analytical support for an additional 20 lakes sampled by DNR to assess water quality.

Contractor Selection Process:

Intergovernmental contracting with Iowa State University is authorized by 11 IAC 118.4. Also, contracts with state universities and other public agencies for laboratory work, scientific field measurement and environmental quality evaluation services necessary to implement Iowa Code Chapter 455B are authorized by Iowa Code section 455B.103(3). Iowa State University was chosen for this project because of extensive previous lake monitoring experience with DNR.

Contract History:

The most recent contracts have been the following:

Contract #1: Timeframe: March 1, 2011, to January 31, 2014; Amount \$566,209.20; Amendment: None.

Contract #2: Timeframe: February 11, 2014, to January 31, 2017; Amount \$564,583.00; Amendment: The purpose of Contract Amendment 1 was to revise the invoicing schedule for tasks set out in the original contract, without additional money being paid out by DNR and to extend the length of the contract one month (new end date of the contract: January 31, 2017). The purpose of Contract Amendment 2 was to amend tasks in the original contract for no additional money, without extending the time of performance previously allowed. The purpose of Contract Amendment 3 was to add new tasks to the original contract for additional money, without extending the time of performance previously allowed. The purpose of Contract Amendment 4 was to add new tasks to the original contract for additional money, without extending the time of performance previously allowed. The purpose of Contract Amendment 5 was to modify (and remove) tasks set

out in the original contract and previous contract amendments without adding additional money being paid out by the DNR.

Contract #3: Timeframe: February 1, 2017, to April 2, 2018; Amount \$188,464.70; Amendment: The purpose of Contract Amendment 1 was to add new tasks to the original contract for additional money, without extending the time of performance previously allowed. The purpose of Contract Amendment 2 was to correct the contract type to cost reimbursable (variable cost) from fixed cost. The purpose of Contract Amendment 3 was to extend the time allowed to perform the tasks set out in the original contract, without additional money being paid out by DNR.

Roger Bruner
Supervisor, Water Quality Bureau
Environmental Services Division
December 15, 2020

Attachment(s): Contract Special Conditions

Section 5 Contractor shall perform the following Tasks. Contractor shall complete its obligations under this Contract by the Task Milestone Dates set out in the following table.

Obligation	Task Milestone Date
Task 1: Project Oversight Description: The Contractor shall provide staff qualified to conduct project activities (e.g. project oversight, field collection operations, laboratory analysis of chemical and biological samples, quality assurance, and reporting).	Ongoing throughout the term of this Contract
Task 2: Ambient Lake Monitoring Description: <ul style="list-style-type: none"> In the Spring prior to each sampling season, DNR will provide the Contractor with a finalized list (annual approved lake list) for lake monitoring lakes. An example of a candidate list of lakes is provided in Table 1. The Contractor shall provide monitoring for Iowa's ambient monitoring lakes based on the annual approved lake list. Sites: Monitoring samples shall be collected from one site on each lake, based on the annual approved lake list. Frequency: The Contractor shall collect three samples per lake per calendar year, one in each of three sampling rounds, with a minimum of five weeks between each lake's sample collection, during the summers of 2021, 2022 and 2023. No deviations from the sampling frequency plan shall occur without prior written consent of the DNR Technical Contact with the exception of lakes that are physically inaccessible due to factors such as draw down or flooding. In the case of lakes that are physically inaccessible, the Contractor shall notify DNR that the lake was not sampled and reasoning therefore no later than three days after the planned sampling or the end of the sampling round. Field Monitoring: Required parameters are listed in Table 3. Samples shall also be collected for processing in the laboratory as described in Tasks 3, 4 and 5 for the remaining parameters listed in Table 4 and Table 5. Measurements listed in the tables mentioned above shall follow the DNR-approved QAPP. Collection of water and biological samples for processing at a later date shall follow the DNR-approved QAPP created by the Contractor pursuant to Task 9. 	<u>2021</u> <ul style="list-style-type: none"> Annual lake monitoring list shall be finalized no later than April 15, 2021. First round of monitoring shall begin no earlier than May 16, 2021, and be completed no later than June 26, 2021. Second round of monitoring shall begin no earlier than June 27, 2021, and be completed no later than August 14, 2021. Third round of monitoring shall begin no earlier than August 15, 2021, and be completed no later than September 25, 2021. <u>2022</u> <ul style="list-style-type: none"> Annual lake monitoring list shall be finalized no later than April 15, 2022. First round of monitoring shall begin no earlier than May 15, 2022, and be completed no later than June 25, 2022. Second round of monitoring shall begin no earlier than June 26, 2022, and be completed no later than August 13, 2022. Third round of monitoring shall begin no earlier than August 14, 2022, and be completed no later than September 24, 2022. <u>2023</u> <ul style="list-style-type: none"> Annual lake monitoring list shall be finalized no later than April 15, 2023. First round of monitoring shall begin no earlier than May 14, 2023, and be completed no later than June 24, 2023. Second round of monitoring shall begin no earlier than June 25, 2023, and be completed no later than August 12, 2023. Third round of monitoring shall begin no earlier than August 13, 2023, and be completed no later than September 23, 2023.
Task 3: Ambient Lake Chemical and Limnological Analysis Description: To provide chemical and limnological analysis of the lakes, the Contractor shall process water samples collected during each of the three sampling rounds described in Task 2. A full set of parameters listed in Table 4 shall be analyzed for each lake. Analyses shall follow standard methods as agreed upon by DNR and shall follow	<u>2021</u> <ul style="list-style-type: none"> First round data update report shall be completed no later than July 23, 2021. Second round data update report shall be completed no later than September 10, 2021.

<p>the DNR-approved QAPP created by the Contractor pursuant to Task 9 of this Contract. Secchi disk photographs collected pursuant to Task 2 of this Contract shall also be submitted along with chemical and limnological data at the end of each sampling round based on the schedule put forth in Task 8.</p>	<ul style="list-style-type: none"> •Third round data update report shall be completed no later than October 22, 2021. <u>2022</u> •First round data update report shall be completed no later than July 22, 2022. •Second round data update report shall be completed no later than September 9, 2022. •Third round data update report shall be completed no later than October 21, 2022. <u>2023</u> •First round data update report shall be completed no later than July 21, 2023. •Second round data update report shall be completed no later than September 8, 2023. •Third round data update report shall be completed no later than October 20, 2023.
<p>Task 4: Ambient Lake Phytoplankton and Zooplankton Analysis Description: To provide biological analysis of the lakes, ISU shall process water samples collected during each of the three sampling rounds described in Task 2. A full set of biological parameters shall be collected and preserved for each lake (Table 1). Required Parameters: A subset of phytoplankton samples from each of the three rounds shall be analyzed to determine the presence and amount of phytoplankton biomass, composition, and the percent cyanobacteria of total phytoplankton biomass. Log-transformed chlorophyll a measurements from each lake in each sampling round will be used to determine which lake falls in which of the four quartiles. A subset 10 plankton samples shall be randomly selected from each quartile of all of the lakes sampled in each round. Within a given sampling year, if a lake is selected twice for phytoplankton counting, it shall not be counted a second time. Instead, a different lake in the same quartile that has not been counted shall be selected for counting. If all of the lakes within a quartile of a given round have been counted, the remaining counts shall be distributed to the nearest quartiles. This will maintain the distributed sampling scheme while not allowing for repeat counts (Total lakes for phytoplankton counting = 10 lakes × 4 quartiles × 3 rounds = 120 samples). Each zooplankton sample shall be analyzed to determine the presence, biomass and composition. Approach: Collection and analysis shall follow standard methods as agreed upon by DNR and shall follow the DNR-approved QAPP created by the Contractor pursuant to Task 9 of this Contract.</p>	<p><u>2021</u></p> <ul style="list-style-type: none"> •Plankton data report shall be completed no later than December 31, 2021. <p><u>2022</u></p> <ul style="list-style-type: none"> •Plankton data report shall be completed no later than December 31, 2022. <p><u>2023</u></p> <ul style="list-style-type: none"> •Plankton data report shall be completed no later than December 31, 2023.
<p>Task 5: Ambient Lake Indicator Bacteria Analysis Description: The Contractor shall process additional water samples collected from a subset of lakes listed in Table 2 during all three sampling rounds listed in Task 2. The additional samples shall be analyzed for Escherichia coli using methods listed in Table 5 and shall follow the DNR-approved QAPP created by the Contractor pursuant to Task 9. Reporting of the additional samples shall be submitted with chemical and limnological data at the end of each sampling round based on the schedule put forth in Task 8.</p>	<p><u>2021</u></p> <ul style="list-style-type: none"> •First round data update report shall be completed no later than July 23, 2021. •Second round data update report shall be completed no later than September 10, 2021. •Third round data update report shall be completed no later than October 22, 2021. <p><u>2022</u></p> <ul style="list-style-type: none"> •First round data update report shall be completed no later than July 22, 2022.

	<ul style="list-style-type: none"> •Second round data update report shall be completed no later than September 9, 2022. •Third round data update report shall be completed no later than October 21, 2022. <u>2023</u> <ul style="list-style-type: none"> •First round data update report shall be completed no later than July 21, 2023. •Second round data update report shall be completed no later than September 8, 2023. •Third round data update report shall be completed no later than October 20, 2023.
<p>Task 6: 2020 Phytoplankton and Zooplankton Analysis</p> <p>Description: To provide biological analysis of the lakes, ISU shall process water samples collected during each of the three sampling rounds that occurred in 2020.</p> <p>Required Parameters: A subset of 2020 phytoplankton samples from each of the three rounds shall be analyzed to determine the presence and amount of phytoplankton biomass, composition, and the percent cyanobacteria of total phytoplankton biomass. Log-transformed chlorophyll a measurements from each lake in each sampling round collected in 2020 will be used to determine which lake falls in which of the four quartiles. A subset 10 plankton samples shall be randomly selected from each quartile of all of the lakes sampled in each round. Within a given sampling year, if a lake is selected twice for phytoplankton counting, it shall not be counted a second time. Instead, a different lake in the same quartile that has not been counted shall be selected for counting. If all of the lakes within a quartile of a given round have been counted, the remaining counts shall be distributed to the nearest quartiles. This will maintain the distributed sampling scheme while not allowing for repeat counts. (Total lakes for phytoplankton counting= 10 lakes × 4 quartiles × 3 rounds = 120 samples)</p> <p>Each 2020 zooplankton sample shall be analyzed to determine the presence, biomass and composition.</p> <p>Approach: Analysis shall follow standard methods as agreed upon by DNR and shall follow the 2020 DNR-approved QAPP created by the Contractor.</p>	<p>Analysis of all samples collected shall occur no later than March 31, 2022.</p>
<p>Task 7: DNR Extra Lakes Chemical and Limnological Analysis</p> <p>Description: ISU shall provide chemical analysis of Lake water samples provided by DNR staff.</p> <p>DNR staff will collect 60 samples per calendar year during the summers of 2021, 2022 and 2023. These samples shall be analyzed by ISU. A full set of parameters, listed in Table 6 below, shall be analyzed no later than the holding times specified in Table 6 for each lake.</p> <p>ISU shall provide all sample containers and preservatives, a list of bottles needed for each parameter/site type and chain of custody template for water samples to be collected by DNR staff during the Contract period. Up to 20 sites will be selected by DNR prior to the sampling season and the list of sites will be provided to ISU prior to data analysis.</p>	<u>2021</u> <ul style="list-style-type: none"> •First round of monitoring samples will be delivered by DNR to the Contractor no earlier than May 16, 2021, and last round of monitoring samples will be delivered by DNR to the Contractor no later than September 25, 2021. •First data update report shall be completed no later than July 23, 2021. •Second data update report shall be completed no later than September 10, 2021. •Final data update report shall be completed no later than October 22, 2021. <u>2022</u>

<p>DNR will pick up sample containers at the ISU Limnology Lab facility and will deliver samples to ISU Limnology Lab in person for analysis.</p> <p>Analyses shall follow standard methods as agreed upon by DNR and shall follow the DNR-approved QAPP created by the Contractor pursuant to Task 9 of this Contract.</p>	<ul style="list-style-type: none"> • First round of monitoring samples will be delivered by DNR to the Contractor no earlier than May 15, 2022, and last round of monitoring samples will be delivered by DNR to the Contractor no later than September 24, 2022. • First data update report shall be completed no later than July 22, 2022. • Second data update report shall be completed no later than September 9, 2022. • Final data update report shall be completed no later than October 21, 2022. <p><u>2023</u></p> <ul style="list-style-type: none"> • First round of monitoring samples will be delivered by DNR to the Contractor no earlier than May 14, 2023, and last round of monitoring samples will be delivered by DNR to the Contractor no later than September 23, 2023. • First data update report shall be completed no later than July 21, 2023. • Second data update report shall be completed no later than September 8, 2023. • Final data update report shall be completed no later than October 20, 2023.
<p>Task 8: Data Transfer</p> <p>Description:</p> <p>All 2021, 2022, and 2023 chemical, physical, bacterial, and biological data results from this Contract shall be submitted to DNR in electronic form for submittal to the DNR EQUIS compatible database. The Contractor shall generate and submit a summary table of data and appropriate metadata at the end of each round in excel format (.xlsx), as described in Table 7. The data summary shall also be converted by the Contractor to an up-loadable Excel (.xlsx) file for the EQUIS database, as described in Table 8. Depth profile data (temperature, dissolved oxygen, pH, specific conductance, turbidity, and total dissolved solids) in 0.5 meter increments including the surface shall be submitted to DNR by round in Excel spreadsheets for each individual sample or for each of the lakes listed in Table 1. Secchi disk photographs collected also shall be submitted at the end of each round. Phytoplankton and zooplankton biomass and composition data shall be submitted by ISU to DNR annually in Excel spreadsheets (see Table 9).</p> <p>2020 Phytoplankton and zooplankton biomass and composition data (Task 6) shall be submitted by ISU to DNR no later than June 30, 2022, in Excel spreadsheets (see Table 9). A final data summary of all phytoplankton and zooplankton biomass and composition data (see Table 9) shall be submitted by ISU to DNR no later than the end of the project in a separate Excel spreadsheet.</p>	<p><u>2020 Task 6 Analyses</u></p> <ul style="list-style-type: none"> • 2020 Plankton no later than June 30, 2022 <p><u>2021</u></p> <ul style="list-style-type: none"> • Round 1 no later than July 23, 2021 • Round 2 no later than September 10, 2021 • Round 3 no later than October 22, 2021 • Plankton no later than December 31, 2021 <p><u>2022</u></p> <ul style="list-style-type: none"> • Round 1 no later than July 22, 2022 • Round 2 no later than September 9, 2022 • Round 3 no later than October 21, 2022 • Plankton no later than December 31, 2022 <p><u>2023</u></p> <ul style="list-style-type: none"> • Round 1 no later than July 21, 2023 • Round 2 no later than September 8, 2023 • Round 3 no later than October 20, 2023 • Plankton no later than December 31, 2023
<p>Task 9: Quality Assurance</p>	<p>Laboratory certification shall be obtained by no later than May 1, 2021, and shall be</p>

<p>Description: As a condition precedent to performing Tasks 1, 2, 3, 4, 5, 6, 8 and 10 required by this Contract, the Contractor shall obtain and maintain laboratory certification for the parameters described in Table 4 and Table 5, which is attached to this Contract and by this reference made a part hereof, prior to May 1, 2021. Failure by the Contractor to obtain the necessary laboratory certification by May 1, 2021, or maintain laboratory certification throughout the term of this Contract shall be grounds for DNR to terminate this Contract for cause.</p> <p>The Contractor shall also complete and follow a DNR-approved Quality Assurance Project Plan (QAPP) prior to sample collection each calendar year prior to the first sampling event of that year.</p> <p>The Contractor shall utilize approved laboratory methods contained in Table 4 and Table 5, which are attached to this Contract and by this reference made a part hereof or agreed upon with DNR in writing.</p> <p>All Contractor requests for deviations from the QAPP shall be submitted to and approved in writing by the DNR Technical Contact prior to changing any protocols.</p>	<p>maintained thereafter throughout the term of this Contract. All other obligations shall be ongoing throughout the term of this Contract unless noted in Table 4 and Table 5.</p>
<p>Task 10: Special Projects Description: The Contractor shall complete additional analyses or monitoring as mutually agreed upon in writing by ISU and DNR.</p>	<p>Ongoing throughout the term of this Contract.</p>

Budget & Submission of Invoices.

2021 Budget

Task	Amount of compensation allotted to Task	Invoice Due No Later Than:
Task 1: Project Oversight	Quarter 1: Not to exceed \$19,427.50 Quarter 2: Not to exceed \$19,427.50 Quarter 3: Not to exceed \$19,427.50 Quarter 4: Not to exceed \$19,427.50	April 30, 2021 July 31, 2021 October 31, 2021 January 31, 2022
Task 2: Ambient Lake Monitoring	Round 1: Not to exceed \$22,400 Round 2: Not to exceed \$22,400 Round 3: Not to exceed \$22,400	August 15, 2021 September 30, 2021 November 30, 2021
Task 3: Ambient Lake Chemical and Limnological Analysis	Round 1: Not to exceed \$18,900 Round 2: Not to exceed \$18,900 Round 3: Not to exceed \$18,900	August 15, 2021 September 30, 2021 November 30, 2021
Task 4: Ambient Lake Phytoplankton and Zooplankton Analysis	Not to exceed \$16,920	January 31, 2022
Task 5: Ambient Lake Indicator Bacteria Analysis	Round 1: Not to exceed \$936 Round 2: Not to exceed \$936 Round 3: Not to exceed \$936	August 15, 2021 September 30, 2021 November 30, 2021
Task 6: 2020 Phytoplankton and Zooplankton Analysis	Not to exceed \$10,260	April 30, 2022
Task 7: Iowa DNR Extra Lakes Chemical and Limnological Analysis	Round 1: Not to exceed \$2,100 Round 2: Not to exceed \$2,100 Round 3: Not to exceed \$2,100	August 15, 2021 September 30, 2021 November 30, 2021
Task 8: Data Transfer	Round 1: Not to exceed \$3,626 Round 2: Not to exceed \$3,626 Round 3: Not to exceed \$3,626 Final: Not to exceed \$2,072	August 15, 2021 September 30, 2021 November 30, 2021 January 31, 2022

Task 9: Quality Assurance	Round 1: Not to exceed \$10,879.40 Round 2: Not to exceed \$10,879.40 Round 3: Not to exceed \$10,879.40 Final: Not to exceed \$6,216.80	August 15, 2021 September 30, 2021 November 30, 2021 January 31, 2022
Task 10: Special Projects	Not to exceed \$2,000	January 31, 2022
Total	Not to exceed \$291,703	Total

2022 Budget

Task	Amount of compensation allotted to Task	Invoice Due No Later Than:
Task 1: Project Oversight	Quarter 1: Not to exceed \$20,010.25 Quarter 2: Not to exceed \$20,010.25 Quarter 3: Not to exceed \$20,010.25 Quarter 4: Not to exceed \$20,010.25	April 30, 2022 July 31, 2022 October 31, 2022 January 31, 2023
Task 2: Ambient Lake Monitoring	Round 1: Not to exceed \$22,400 Round 2: Not to exceed \$22,400 Round 3: Not to exceed \$22,400	August 15, 2022 September 30, 2022 November 30, 2022
Task 3: Ambient Lake Chemical and Limnological Analysis	Round 1: Not to exceed \$18,900 Round 2: Not to exceed \$18,900 Round 3: Not to exceed \$18,900	August 15, 2022 September 30, 2022 November 30, 2022
Task 4: Ambient Lake Phytoplankton and Zooplankton Analysis	Not to exceed \$16,920	January 31, 2023
Task 5: Ambient Lake Indicator Bacteria Analysis	Round 1: Not to exceed \$936 Round 2: Not to exceed \$936 Round 3: Not to exceed \$936	August 15, 2022 September 30, 2022 November 30, 2022
Task 7: Iowa DNR Extra Lakes Chemical and Limnological Analysis	Round 1: Not to exceed \$2,100 Round 2: Not to exceed \$2,100 Round 3: Not to exceed \$2,100	August 15, 2022 September 30, 2022 November 30, 2022
Task 8: Data Transfer	Round 1: Not to exceed \$3,734.92 Round 2: Not to exceed \$3,734.92 Round 3: Not to exceed \$3,734.92 Final: Not to exceed \$2,134.24	August 15, 2022 September 30, 2022 November 30, 2022 January 31, 2023
Task 9: Quality Assurance	Round 1: Not to exceed \$11,205.88 Round 2: Not to exceed \$11,205.88 Round 3: Not to exceed \$11,205.88 Final: Not to exceed \$6,403.36	August 15, 2022 September 30, 2022 November 30, 2022 January 31, 2023
Task 10: Special Projects	Not to exceed \$2,000	January 31, 2023
Total	Not to exceed \$285,329	Total

2023 Budget

Task	Amount of compensation allotted to Task	Invoice Due No Later Than:
Task 1: Project Oversight	Quarter 1: Not to exceed \$20,610.75 Quarter 2: Not to exceed \$20,610.75 Quarter 3: Not to exceed \$20,610.75 Quarter 4: Not to exceed \$20,610.75	April 30, 2023 July 31, 2023 October 31, 2023 January 31, 2024
Task 2: Ambient Lake Monitoring	Round 1: Not to exceed \$22,400 Round 2: Not to exceed \$22,400 Round 3: Not to exceed \$22,400	August 15, 2023 September 30, 2023 November 30, 2023
Task 3: Ambient Lake Chemical and Limnological Analysis	Round 1: Not to exceed \$18,900 Round 3: Not to exceed \$18,900 Round 3: Not to exceed \$18,900	August 15, 2023 September 30, 2023 November 30, 2023

Task 4: Ambient Lake Phytoplankton and Zooplankton Analysis	Not to exceed \$16,920	January 31, 2024
Task 5: Ambient Lake Indicator Bacteria Analysis	Round 1: Not to exceed \$936 Round 2: Not to exceed \$936 Round 3: Not to exceed \$936	August 15, 2023 September 30, 2023 November 30, 2023
Task 7: Iowa DNR Extra Lakes Chemical and Limnological Analysis	Round 1: Not to exceed \$2,100 Round 2: Not to exceed \$2,100 Round 3: Not to exceed \$2,100	August 15, 2023 September 30, 2023 November 30, 2023
Task 8: Data Transfer	Round 1: Not to exceed \$3,846.92 Round 2: Not to exceed \$3,846.92 Round 3: Not to exceed \$3,846.92 Final: Not to exceed \$2,198.24	August 15, 2023 September 30, 2023 November 30, 2023 January 31, 2024
Task 9: Quality Assurance	Round 1: Not to exceed \$11,541.88 Round 2: Not to exceed \$11,541.88 Round 3: Not to exceed \$11,541.88 Final: Not to exceed \$6,595.36	August 15, 2023 September 30, 2023 November 30, 2023 January 31, 2024
Task 10: Special Projects	Not to exceed \$2,000	January 31, 2024
Total	Not to exceed \$289,331	Total

Invoices

Table 1. List of Candidate Lakes (132 lakes)

LAKE NAME	COUNTY NAME	Zone	UTM (NAD83)_E	UTM (NAD83)_N	Location Code
Ada Hayden	STORY	15T	448061	4657288	14000235
Arbor Lake	POWESHIEK	15T	522208	4620023	22790004
Arrowhead Lake	SAC	15T	330913	4684821	22810001
Arrowhead Pond	POTTAWATTAMIE	15T	283366	4590394	22780002
Avenue of the Saints Pond	BREMER	15T	537932	4728217	22090001
Badger Creek Lake	MADISON	15T	423948	4591311	22610004
Badger Lake	WEBSTER	15T	402152	4715564	22940001
Beaver Lake	DALLAS	15T	398857	4598583	22250001
Beeds Lake	FRANKLIN	15T	480648	4735349	22350001
Belva Deer Lake	KEOKUK	15T	573309	4581050	22540001
Big Creek Lake	POLK	15T	439195	4627158	22770004
Big Spirit Lake	DICKINSON	15T	331474	4816182	22300014
Black Hawk Lake	SAC	15T	332737	4684676	22810002
Blue Lake	MONONA	14T	735109	4658584	22670002
Bob White Lake	WAYNE	15T	466195	4507529	22930001
Briggs Woods Lake	HAMILTON	15T	434340	4698112	22400004
Browns Lake	WOODBURY	14T	720509	4687502	22970001
Brushy Creek Lake	WEBSTER	15T	419452	4693385	22940002
Carter Lake	POTTAWATTAMIE	15T	256763	4574951	22780001
Casey Lake (aka Hickory Hills Lake)	TAMA	15T	556799	4679422	22860001
Center Lake	DICKINSON	15T	327040	4808866	22300010
Central Park Lake	JONES	15T	653994	4663939	22530001
Clear Lake	CERRO GORDO	15T	466268	4774806	22170001
Cold Springs Lake	CASS	15T	325216	4573283	22150001
Crawford Creek Impoundment	IDA	15T	285029	4683695	22470001

Crystal Lake	HANCOCK	15T	435655	4786691	22410001
DeSoto Bend	HARRISON	15T	249869	4602795	22430001
Diamond Lake	POWESHIEK	15T	537005	4603777	22790005
Dog Creek (Lake)	OBRIEN	15T	298673	4756706	22710002
Don Williams Lake	BOONE	15T	415668	4662752	22080004
East Lake (Osceola)	CLARKE	15T	437568	4542625	22200001
East Okoboji Lake	DICKINSON	15T	329240	4805563	22300008
Easter Lake	POLK	15T	453561	4599467	22770001
Eldred Sherwood Lake	HANCOCK	15T	453913	4754481	22410002
Five Island Lake	PALO ALTO	15T	365151	4778284	22740001
Fogle Lake S.W.A.	RINGGOLD	15T	386075	4519012	22800001
Frog Hollow (aka Volga Lake)	FAYETTE	15T	600406	4750016	22330001
Geode Lake	HENRY	15T	636086	4519060	22290001
George Wyth Lake	BLACK HAWK	15T	549227	4709350	22070001
Green Belt Lake	BLACK HAWK	15T	550258	4703153	22070002
Green Castle Lake	MARSHALL	15T	511599	4642026	22640001
Green Valley Lake	UNION	15T	383771	4550594	22880001
Greenfield Lake	ADAIR	15T	376097	4572809	22010001
Hannen Lake	BENTON	15T	573620	4635034	22060001
Hawthorne Lake (aka Barnes City Lake)	MAHASKA	15T	545225	4591772	22620001
Hickory Grove Lake	STORY	15T	469862	4648754	22850001
Hooper Area Pond	WARREN	15T	450572	4569736	22910001
Indian Lake	VAN BUREN	15T	605625	4498378	22890001
Ingham Lake	EMMET	15T	362141	4797381	22320001
Iowa Lake	IOWA	15T	568838	4609565	22480001
Kent Park Lake	JOHNSON	15T	605610	4619828	22520005
Lacey Keosauqua Park Lake	VAN BUREN	15T	587005	4507197	22890004
Lake Ahquabi	WARREN	15T	450128	4571411	22910002
Lake Anita	CASS	15T	351107	4587804	22150002
Lake Cornelia	WRIGHT	15T	443598	4737844	22990001
Lake Darling	WASHINGTON	15T	591791	4561704	22920004
Lake Hendricks	HOWARD	15T	536633	4802170	22450001
Lake Icaria	ADAMS	15T	352814	4545589	22020001
Lake Keomah	MAHASKA	15T	538737	4571624	22620002
Lake MacBride	JOHNSON	15T	618554	4627833	22520001
Lake Manawa	POTTAWATTAMIE	15T	260423	4565471	22780003
Lake Meyer	WINNESHIEK	15T	588353	4780811	22960004
Lake Miami	MONROE	15T	513115	4552306	22680001
Lake of the Hills	SCOTT	15T	693835	4599221	22820001
Lake of Three Fires	TAYLOR	15T	357277	4507928	22870001
Lake Pahoja	LYON	14T	704889	4806432	22600001
Lake Smith	KOSSUTH	15T	399091	4775238	22550001
Lake Sugema	VAN BUREN	15T	585532	4504193	22890005
Lake Wapello	DAVIS	15T	535876	4518819	22260001
Little River Watershed Lake	DECATUR	15T	434243	4511324	22270001
Little Sioux Park Lake	WOODBURY	15T	269535	4703168	22970002
Little Spirit Lake	DICKINSON	15T	328118	4819919	270630001
Little Wall Lake	HAMILTON	15T	447308	4679700	22400001
Littlefield Lake	AUDUBON	15T	351033	4602402	22050001
Lost Island Lake	PALO ALTO	15T	345461	4781798	22740002
Lower Gar Lake	DICKINSON	15T	328162	4802118	22300012

Lower Pine Lake	HARDIN	15T	493573	4690523	22420001
Manteno Park Pond	SHELBY	15T	295220	4636448	22830001
Mariposa Lake	JASPER	15T	503131	4625051	22500002
Meadow Lake	ADAIR	15T	379713	4582728	22010003
Meyer Lake	BLACK HAWK	15T	558422	4701286	22070003
Mill Creek (Lake)	OBRIEN	15T	282239	4762585	22710001
Minnewashta Lake	DICKINSON	15T	327892	4803075	22300011
Mitchell Lake	BLACK HAWK	15T	556374	4703029	22070004
Moorhead Park Pond	IDA	15T	295738	4692450	22470002
Mormon Trail Lake	ADAIR	15T	362993	4567027	22010004
Nelson Park Lake	CRAWFORD	15T	285400	4646003	22240001
Nine Eagles Lake	DECATUR	15T	434654	4494280	22270002
North Twin Lake	CALHOUN	15T	365291	4703900	22130001
Oldham Lake	MONONA	15T	268956	4654446	22670001
Orient Lake	ADAIR	15T	379580	4561592	22010002
Otter Creek Lake	TAMA	15T	539731	4654624	22860002
Pierce Creek Pond	PAGE	15T	301205	4522705	22730001
Pleasant Creek Lake	LINN	15T	598261	4664272	22570001
Poll Miller Park Lake	LEE	15T	632119	4508044	22560001
Prairie Rose Lake	SHELBY	15T	314460	4607886	22830002
Rathbun Reservoir	APPANOOSE	15T	509274	4519647	22040001
Red Haw Lake	LUCAS	15T	477125	4538894	22590002
Roberts Creek Lake	MARION	15T	495911	4585546	22630002
Rock Creek Lake	JASPER	15T	512058	4620878	22500001
Rodgers Park Lake	BENTON	15T	576305	4672531	22060002
Silver Lake	PALO ALTO	15T	346533	4765956	22740003
Silver Lake	DELAWARE	15T	637621	4698155	22280001
Silver Lake	DICKINSON	15T	310878	4812247	22300007
Slip Bluff Lake	DECATUR	15T	427903	4500674	22270003
South Prairie Lake	BLACK HAWK	15T	544357	4703015	22070005
Spring Lake	GREENE	15T	393292	4657761	22370001
Springbrook Lake	GUTHRIE	15T	378105	4625949	22390001
Storm Lake (incl Little Storm Lake)	BUENA VISTA	15T	319246	4721151	22110001
Summit Lake	UNION	15T	382604	4546330	22880005
Swan Lake	CARROLL	15T	347597	4655325	22140001
Thayer Lake	UNION	15T	410395	4541725	22880002
Three Mile Lake	UNION	15T	398046	4547477	22880003
Twelve Mile Creek Lake	UNION	15T	394545	4545652	22880004
Union Grove Lake	TAMA	15T	523137	4663698	22860003
Upper Gar Lake	DICKINSON	15T	328248	4804043	22300013
Upper Pine Lake	HARDIN	15T	494546	4691273	22420002
Viking Lake	MONTGOMERY	15T	329262	4538076	22690001
West Lake (Osceola)	CLARKE	15T	432337	4543511	22200002
West Okoboji Lake	DICKINSON	15T	325979	4804535	22300009
White Oak Conservation Area Lake	MAHASKA	15T	543851	4569256	22620003
Williamson Pond	LUCAS	15T	481905	4549487	22590001
Willow Lake	HARRISON	15T	268170	4627925	22430002
Wilson Park Lake	TAYLOR	15T	369980	4521871	22870002
Windmill Lake	TAYLOR	15T	345758	4510391	22870003
Yellow Smoke Park Lake	CRAWFORD	15T	307508	4654981	22240002
Big Hollow Lake	DES MOINES	15T	648405	4533998	22290002

Ottumwa Lagoon	WAPPELO	15T	548005	4539647	22900001
Nodaway Lake	ADAIR	15T	374603	4571962	22010005
Rudd Lake	FLOYD	15T	508794	4774780	22340001
Snyder Bend Lake	WOODBURY	15T	719695	4684482	22970003
Lost Grove Lake	SCOTT	15T	713417	4616278	14000134

Note: Lake may be in draw down condition during a given sampling season and will be inaccessible. Additionally, flooding conditions can occur due to intense weather. Sampling will not be performed on lakes in draw down conditions or flooding conditions.

Table 2. List of Lakes (39 lakes) for Indicator Bacteria Analysis

LAKE NAME	COUNTY NAME	Zone	UTM (NAD83)_E	UTM (NAD83)_N	Location Code
Big Hollow Lake	DES MOINES	15T	648405	4533998	22290002
Big Spirit Lake	DICKINSON	15T	331474	4816182	22300014
Black Hawk Lake	SAC	15T	332737	4684676	22810002
Blue Lake	MONONA	14T	735109	4658584	22670002
Browns Lake	WOODBURY	14T	720509	4687502	22970001
Brushy Creek Lake	WEBSTER	15T	419452	4693385	22940002
Clear Lake	CERRO GORDO	15T	466268	4774806	22170001
Don Williams Lake	BOONE	15T	415668	4662752	22080004
Green Valley Lake	UNION	15T	383771	4550594	22880001
Hannen Lake	BENTON	15T	573620	4635034	22060001
Hickory Grove Lake	STORY	15T	469862	4648754	22850001
Iowa Lake	IOWA	15T	568838	4609565	22480001
Lacey Keosauqua Park Lake	VAN BUREN	15T	587005	4507197	22890004
Lake Ahquabi	WARREN	15T	450128	4571411	22910002
Lake Anita	CASS	15T	351107	4587804	22150002
Lake Cornelia	WRIGHT	15T	443598	4737844	22990001
Lake Darling	WASHINGTON	15T	591791	4561704	22920004
Lake Keomah	MAHASKA	15T	538737	4571624	22620002
Lake MacBride	JOHNSON	15T	618554	4627833	22520001
Lake Manawa	POTTAWATTAMIE	15T	260423	4565471	22780003
Lake Wapello	DAVIS	15T	535876	4518819	22260001
Little River Watershed Lake	DECATUR	15T	434243	4511324	22270001
Little Sioux Park Lake	WOODBURY	15T	269535	4703168	22970002
Lower Pine Lake	HARDIN	15T	493573	4690523	22420001
Mormon Trail Lake	ADAIR	15T	362993	4567027	22010004
Nine Eagles Lake	DECATUR	15T	434654	4494280	22270002
North Twin Lake	CALHOUN	15T	365291	4703900	22130001
Pleasant Creek Lake	LINN	15T	598261	4664272	22570001
Poll Miller Park Lake	LEE	15T	632119	4508044	22560001
Prairie Rose Lake	SHELBY	15T	314460	4607886	22830002
Rathbun Reservoir	APPANOOSE	15T	509274	4519647	22040001
Red Haw Lake	LUCAS	15T	477125	4538894	22590002
Rock Creek Lake	JASPER	15T	512058	4620878	22500001
Springbrook Lake	GUTHRIE	15T	378105	4625949	22390001
Storm Lake (incl Little Storm Lake)	BUENA VISTA	15T	319246	4721151	22110001
Three Mile Lake	UNION	15T	398046	4547477	22880003
Viking Lake	MONTGOMERY	15T	329262	4538076	22690001
West Okoboiji Lake	DICKINSON	15T	325979	4804535	22300009
Willow Lake	HARRISON	15T	268170	4627925	22430002

Table 3. Field Parameter List for Ambient Lake Sampling

Analyte	Method	Certification Required
Field Temperature	YSI ProDDS Sensor: Standard Method2 2550 B-2000	No
Field pH	YSI ProDDS Sensor: Standard Method2 4500-H+ B-2000; ASTM Method D1293-99 (A or B); USGS Method I-1586-85 (Wastewater)	No
Field Dissolved Oxygen	YSI ProDDS Sensor: ASTM Method D888-09 (C)	No
Field Specific Conductance	YSI ProDDS Sensor: EPA Method 120.1 (Wastewater); Standard Method2 2510 B-1997; ASTM Method D1125-95 (99) (A)	No
Field TDS	YSI ProDDS Sensor: Calculated from Specific Conductance sensor and temperature sensor	No
Field Turbidity	YSI ProDDS Sensor	No
Lake Depth	YSI ProDDS Sensor	No
Secchi Depth		No
Secchi photo at 0.2 meters		No

Table 4. Laboratory Parameter List for Ambient Lake Sampling

Parameter	Preservation	Holding Time	Method	Certification Required
Total Kjeldahl Nitrogen as N	Cool to 4°C	36 hours	EPA 351.2 v2	Yes
	Acid	28 days		
	Filtered then frozen (-20°C)	28 days		
Ammonia as N	Cool to 4°C	36 hours	EPA 350.1v2	Yes
	Acid	7 days		
	Filtered then frozen (-20°C)	28 days		
Nitrate+ Nitrite as N	Cool to 4°C	36 hours	EPA 353.2v2	Yes
	Acid	28 days		
	Filtered then frozen (-20°C)	28 days		
Un-ionized Ammonia	NA	NA	Calculated	No
Total Phosphorus	Cool to 4°C	36 hours	SM 4500 – P, B.5 (preparation); SM 4500 – P, E; and EPA 365.1v2	Yes
	Acid	28 days		
	Filtered then frozen (-20°C)	28 days		
Soluble Reactive Phosphorus	Cool to 4°C	36 hours	EPA 365.1v2	Yes
	Acid	28 days		
	Filtered then frozen (-20°C)	28 days		
Total Fixed Suspended Solids (Inorganic Suspended Solids)	Cool to 4°C	7 days	USGS I-3753-85	Yes
Total Volatile Suspended Solids	Cool to 4°C	7 days	USGS I-3753-85	No
Total Suspended Solids	Cool to 4°C	7 days	USGS I-3765-85	Yes
Total Alkalinity	Cool to 4°C	36 hours	SM 4500-H+B, 2320 B	Yes
Chlorophyll a	Cool to 4°C	36 hours		No

	Frozen (-20°C)	28 days	Sonication and EPA 445.0 v1.2	
Phycocyanin	Cool to 4°C	36 hours	Sarada et al. (1000)	No
	Frozen (-20°C)	28 days		
Total Microcystin by ADDA ELISA	Frozen	14 Days	EPA 546 OH (Abraxis 520011OH)	No
Phytoplankton Biomass and Composition	glutaraldehyde	Years		No
Zooplankton Biomass and Composition	Sugar Formalin Solution	Years		No

Table 5. Laboratory Parameter List for Indicator Bacteria Analysis

Parameter	Preservation	Holding Time	Method	Certification Required
Escherichia coli	Cool to 4°C		SM 9223-B	Yes

Table 6. Laboratory Parameter List for Task 7

Parameter	Preservation	Holding Time	Method	Certification Required
Total Kjeldahl Nitrogen as N	Cool to 4°C	36 hours	EPA 351.2 v2	Yes
	Acid	28 days		
	Filtered then frozen (-20°C)	28 days		
Ammonia as N	Cool to 4°C	36 hours	EPA 350.1v2	Yes
	Acid	7 days		
	Filtered then frozen (-20°C)	28 days		
Nitrate+ Nitrite as N	Cool to 4°C	36 hours	EPA 353.2v2	Yes
	Acid	28 days		
	Filtered then frozen (-20°C)	28 days		
Total Phosphorus	Cool to 4°C	36 hours	SM 4500 – P, B.5 (preparation); SM 4500 – P, E; and EPA 365.1v2	Yes
	Acid	28 days		
	Filtered then frozen (-20°C)	28 days		
Soluble Reactive Phosphorus	Cool to 4°C	36 hours	EPA 365.1v2	Yes
	Acid	28 days		
	Filtered then frozen (-20°C)	28 days		
Total Fixed Suspended Solids (Inorganic Suspended Solids)	Cool to 4°C	7 days	USGS I-3753-85	Yes
Total Volatile Suspended Solids	Cool to 4°C	7 days	USGS I-3753-85	No
Total Suspended Solids	Cool to 4°C	7 days	USGS I-3765-85	Yes
Total Alkalinity	Cool to 4°C	36 hours	SM 4500-H+B, 2320 B	Yes
Chlorophyll a	Cool to 4°C	36 hours	Sonication and EPA 445.0 v1.2	No
	Frozen (-20°C)	28 days		
Phycocyanin	Cool to 4°C	36 hours	Sarada et al. (1000)	No
	Frozen (-20°C)	28 days		

Table 7. Information to include in Excel Flat File

Read Me (Tab 1)

Contract number and description of included worksheets.
Flag Codes (Tab 2)
List of all lab flag codes.
Laboratory Data (Tab 3)
Sample ID
Lake Name
Sampling Date & Time
Flag- Date & Time
Total Alkalinity (mg/L as CaCO ₃)
Flag- Alk
Chlorophyll a (free of pheophytin) (µg/L)
Flag- Chlorophyll a
Phycocyanin (µg/L)
Flag- Phycocyanin
Total Suspended Solids (mg/L)
Flag- TSS
Volatile Suspended Solids (mg/L)
Flag- VSS
Nonvolatile (Inorganic) Suspended Solids (mg/L)
Flag- ISS
Total Kjeldahl Nitrogen as N (mg/L)
Flag- TKN
Total Phosphorus as P (mg/L)
Flag- TP
Soluble Reactive Phosphorus as P (mg/L)
Flag- SRP
NO ₃ +NO ₂ as N (Cadmium-reduced) (mg/L)
Flag- Cd-NO
NH ₃ +NH ₄ as N (mg/L)
Flag- NH ₃ +NH ₄
Unionized NH ₃ as N (mg/L)
Flag-NH ₃
Coliform MPN
Flag- Coliform
E Coli MPN
Flag- E coli
Microcystin (ppb)
Flag- Microcystin
Field Data (Tab 4)
Sample ID
Lake Name
Sampling Date & Time
Flag- Date & Time
Lake Depth at Sampling Site (m)
Flag- Lake Depth
Secchi Transparency at Sampling Site (m)
Flag- Secchi
Thermocline Depth at Sampling Site (m)
Flag- Thermocline Depth
Epilimnetic Average Temperature (°C)
Flag- Temp

Epilimnetic Average pH
Flag- Field pH
Epilimnetic Average Dissolved Oxygen (% Saturation)
Flag- DO %Sat
Epilimnetic Average Dissolved Oxygen (mg/L)
Flag- DO
Epilimnetic Average Specific Conductivity (uS/cm)
Flag- Specific Conductivity
Epilimnetic Average Total Dissolved Solids (mg/L)
Flag- TDS
Epilimnetic Average Turbidity (NTU)
Flag- Turbidity

Table 8. Information to include in metadata for EQUIS upload file

Activity Tab
#ActivityIdentifier
ActivityTypeCode
ActivityMediaName
ActivityMediaSubDivisionName
ActivityStartDate
ActivityStartTime
ActivityStartTimeZoneCode
ProjectIdentifier
MonitoringLocationIdentifier
SampleCollectionMethodIdentifier
SampleCollectionMethodIdentifierContext
SampleCollectionMethodName
SampleCollectionEquipmentName
Result Tab
#ActivityIdentifier
ResultDetectionConditionText
CAS_rn
CharacteristicName
MethodSpeciationName
ResultSampleFractionText
ResultMeasureValue
ResultMeasureUnitCode
ResultStatusIdentifier
ResultValueTypeName
ResultAnalyticalMethodIdentifier
ResultAnalyticalMethodIdentifierContext
LaboratoryName
AnalysisStartDate
AnalysisStartTime
AnalysisStartTimeZoneCode
AnalysisEndDate
AnalysisEndTime
AnalysisEndTimeZoneCode
LaboratoryAccreditationIndicator
ResDetectionQuantLimit Tab
#ActivityIdentifier

CAS_rn
CharacteristicName
AnalysisStartDate
AnalysisStartTime
ResultSampleFractionText
ResultAnalyticalMethodIdentifier
DetectionQuantitationLimitTypeName
DetectionQuantitationLimitMeasureValue
DetectionQuantitationLimitMeasureUnitCode

Table 9. Information to include in Excel sheet

Phytoplankton Sheet
Sample ID
Lake ID
Sample Date
Division
Genus or lowest taxonomic level
Phytoplankton Taxon Biomass (mg/L)
Flag
Sample Processed By
Sample Processed Date
Zooplankton Sheet
Sample ID
Lake ID
Sample Date
Division
Genus or lowest taxonomic level
Zooplankton Biomass (µg/L)
Flag
Sample Processed By
Sample Processed Date

Table 10. 2021, 2022 and 2023 Budget for Tasks 2, 3, 4, and 5

Parameter:	Unit Cost:	# Sampling Sites:	Frequency of Sampling:	Total Cost:
Task 2 Monitoring*	\$160.00	140	3	\$67,200.00
Task 3 Analysis				
Total Kjeldahl Nitrogen as N	\$15.00	140	3	\$6,300.00
Ammonia as N	\$11.00	140	3	\$4,620.00
Un-ionized Ammonia as N	Included (Calculated with field pH)	140	3	---
Nitrate+Nitrite as N	\$11.00	140	3	\$4,620.00
Total Phosphorus	\$11.00	140	3	\$4,620.00
Soluble Reactive Phosphorus	\$11.00	140	3	\$4,620.00
Total Fixed Suspended Solids	Included w/ TSS	140	3	---
Total Volatile Suspended Solids	Included w/ TSS	140	3	---
Total Suspended Solids	\$12.00	140	3	\$5,040.00
Total Alkalinity	\$9.00	140	3	\$3,780.00

Chlorophyll a	\$13.00	140	3	\$5,460.00
Phycocyanin	\$12.00	140	3	\$5,040.00
Total Microcystin	\$30.00	140	3	\$12,600.00
Task 3 Analysis SUB-TOTAL	\$135.00		TOTAL:	\$56,700.00
Task 4 Analysis				
Phytoplankton biomass and composition**	\$36.00	40	3	\$4,320.00
% Cyanobacteria	Included	40	3	---
Zooplankton composition	\$30.00	140	3	\$12,600.00
Task 4 Analysis SUB-TOTAL	\$66.00		TOTAL:	\$16,920.00
Task 5 Analysis				
Escherichia coli	\$24.00	39	3	\$2,808.00
Task 5 Analysis SUB-TOTAL	\$24.00		TOTAL:	\$2,808.00

* Cost listed reflect cost for sampling an individual lake and collecting field parameters: Secchi depth, Secchi photo, YSI lake profile, temperature, pH, turbidity, conductivity, dissolved oxygen (mg/L and % saturation), and total dissolved solids.

** Phytoplankton analysis based on total lakes for phytoplankton counting= 10 lakes × 4 quartiles × 3 rounds = 120 samples.

Table 11. Budget for Task 6

Parameter:	Unit Cost:	# of Samples:	Total Cost:
Task 6 Analysis			
Phytoplankton biomass and composition	\$36.00	120	\$4,320.00
% Cyanobacteria	Included		---
Zooplankton composition	\$30.00	198	\$5,940.00
Task 6 Analysis TOTAL	\$66.00	TOTAL:	\$10,260.00

Table 12. Budget for Task 7

Parameter:	# of Samples:	Unit Cost:	Total Cost:
Task 7 Analysis			
Total Kjeldahl Nitrogen as N	60	\$15.00	\$900.00
Ammonia as N	60	\$11.00	\$660.00
Nitrate+Nitrite as N	60	\$11.00	\$660.00
Total Phosphorus	60	\$11.00	\$660.00
Soluble Reactive Phosphorus	60	\$11.00	\$660.00
Total Fixed Suspended Solids	60	Included w/ TSS	---
Total Volatile Suspended Solids	60	Included w/ TSS	---
Total Suspended Solids	60	\$12.00	\$720.00
Total Alkalinity	60	\$9.00	\$540.00
Chlorophyll a	60	\$13.00	\$780.00
Phycocyanin	60	\$12.00	\$720.00
Task 7 Analysis SUB-TOTAL		\$105.00	\$6,300.00