



Grant Progress Report

Projects and Practices 2018

Grant Title: Targeted Mississippi River Bank Stabilization Focused On Bioengineering – Round 2

Grant Award (\$): \$236,000.00

Grant Execution Date: 03/28/2018

Grant ID: C18-2864

Required Match (%): 25

Grant End Date: 12/31/2022

Grantee: Anoka CD

Required Match (\$): \$59,000.00

Fiscal Agent: Anoka CD

Grant Day-to-Day Contact: Chris Lord

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$236,000.00	\$236,000.00	\$0.00
Match Funds	\$118,000.00	\$125,034.50	(\$7,034.50)
Other Funds	\$2,023,000.00	\$2,195,337.32	(\$172,337.32)
Total	\$2,377,000.00	\$2,556,371.82	(\$179,371.82)

*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

Budget Details

Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Balance Remaining	Match Fund?
Grant Administration and Reporting	Administration/Coordination	Current State Grant	Targeted Mississippi River Bank Stabilization Focused On Bio..	\$5,000.00	\$4,991.06	\$8.94	N
Mississippi Riverbank Stabilization Project	Project Development	Current State Grant	Targeted Mississippi River Bank Stabilization Focused On Bio..	\$15,000.00	\$11,130.50	\$3,869.50	N

<i>Activity Name</i>	<i>Category</i>	<i>Source Type</i>	<i>Source Description</i>	<i>Budgeted</i>	<i>Spent</i>	<i>Balance Remaining</i>	<i>Match Fund?</i>
Development							
Mississippi Riverbank Stabilization Construction 2018	Streambank or Shoreline Protection	Current State Grant	Targeted Mississippi River Bank Stabilization Focused On Bio..	\$120,383.30	\$143,651.24	(\$23,267.94)	N
Mississippi Riverbank stabilization construction 2017	Streambank or Shoreline Protection	Current State Grant	Targeted Mississippi River Bank Stabilization with a Focus o..	\$141,000.00	\$147,000.00	(\$6,000.00)	N
Mississippi Riverbank stabilization construction 2017	Streambank or Shoreline Protection	Current State Grant	C17-3029 - Targeted Mississippi River Bank Stabilization Focused On Bio..	\$20,616.70	\$18,356.70	\$2,260.00	N
Mississippi Riverbank Stabilization Construction 2018 - Talle 1329	Streambank or Shoreline Protection	Current State Grant	Targeted Mississippi River Bank Stabilization Focused On Bio..	\$0.00	\$9,015.68	(\$9,015.68)	N
Mississippi Riverbank Stabilization Construction 2018 - Talle 1329	Streambank or Shoreline Protection	Current State Grant	2020 - SWCD Local Capacity Services (Anoka CD)	\$0.00	\$3,199.97	(\$3,199.97)	N
Mississippi Riverbank Stabilization Construction 2018 - Talle 1329	Streambank or Shoreline Protection	Current State Grant	2021 - SWCD Local Capacity Services (Anoka CD)	\$0.00	\$2,158.58	(\$2,158.58)	N
Mississippi Riverbank Stabilization Construction 2018 -	Streambank or Shoreline Protection	Current State Grant	2019 - SWCD Local Capacity Services (Anoka CD)	\$0.00	\$16,941.50	(\$16,941.50)	N

<i>Activity Name</i>	<i>Category</i>	<i>Source Type</i>	<i>Source Description</i>	<i>Budgeted</i>	<i>Spent</i>	<i>Balance Remaining</i>	<i>Match Fund?</i>
Talle 1329							
Mississippi Riverbank Stabilization Construction 2018	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$48,735.70	\$56,025.20	(\$7,289.50)	Y
Mississippi Riverbank stabilization construction 2017	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$59,000.00	\$61,142.14	(\$2,142.14)	Y
Mississippi Riverbank stabilization construction 2017	Streambank or Shoreline Protection	Landowner Fund	C17-3029 - Landowner Match	\$10,264.30	\$7,867.16	\$2,397.14	Y
Technical and Engineering Assistance for Mississippi Riverbank Stabilization	Technical/Engineering Assistance	Current State Grant	Targeted Mississippi River Bank Stabilization Focused On Bio..	\$75,000.00	\$48,854.82	\$26,145.18	N

<i>Activity Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	100	Phosphorus (Est. Reduction)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	100	Sediment (Tss)

<i>Activity Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	59	Phosphorus (Est. Reduction)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	58.859	Sediment (Tss)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	112	Phosphorus (Est. Reduction)

Indicator Summary

<i>Activity Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	112.05	Sediment (Tss)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	134.44	Sediment (Tss)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	134.44	Phosphorus (Est. Reduction)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	9.83	Phosphorus (Est. Reduction)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	6.95	Sediment (Tss)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	11.56	Sediment (Tss)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	9.83	Phosphorus (Est. Reduction)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	4.41	Phosphorus (Est. Reduction)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	5.19	Sediment (Tss)
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	5.91	Phosphorus (Est. Reduction)

Activity Category	Proposed Indicator	Total Value	Unit
Streambank or Shoreline Protection	Water Pollution (Reduction Estimates)	11.56	Sediment (Tss)

Grant Activities

Activity Name: Grant Administration and Reporting						
Activity Category: Administration/Coordination					Has Rates and Hours?: Yes	
<p>Description: Staff time for grant administration and reporting. Tasks include annual eLINK reporting (e.g. activity progress and budget updates), coordination of expense reports and payments, and project financial management.</p> <p>Credentials of Anticipated Staff Involved:</p> <p>Chris Lord – Dist. Mgr. – BS Nat. Res. & Env. Sci. with 25+ yrs in project and grant management, workload and budget planning, contract management, BMP design and installation, resource monitoring and inventory, data analysis.</p> <p>Kathy Berkness – Office Admin. – 30+ yrs managing finances, administering programs, completing progress and final project reports, website development and management, and general office administration</p>						
Budget Details						
<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Targeted Mississippi River Bank Stabilization Focused On Bio..	\$5,000.00	\$4,991.06	\$8.94	12/31/2022	N

Actual Results

2018 Time spent on administration and reporting

2018 1st and 2nd Qtr Budget management and bookkeeping. 2018 3rd and 4th Qtr Budget management, bookkeeping and reporting.

2019 - budget management, bookkeeping, reporting in eLINK

2020 - budget management, bookkeeping, reporting in eLINK

2021 Budget, Management, bookkeeping reporting in elink

2022 Budget, Management, bookkeeping reporting in elink

Activity Name: Mississippi Riverbank Stabilization Construction 2018

Activity Category: Streambank or Shoreline Protection

Has Rates and Hours?: Yes

Description: Project construction costs for riverbank stabilization including all necessary labor, materials, and fees including but not limited to; permitting, mobilization, clearing and grubbing, ingress and egress, grading, excavation and disposal, aggregate/media, temporary erosion and sediment control, plant materials, site restoration, and labor.

Project construction will be completed by qualified contractors hired by the landowners with oversight by ACD staff.

An example landowner agreement is attached that addresses partner responsibilities for grant administration, project design engineering, construction bidding and contract management (inspections, payments, as-built verifications), cost overruns, long term project operations and maintenance, 150% state payback liability, and property access and assurances. Landowner agreements will be attached when fully executed.

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Targeted Mississippi River Bank Stabilization Focused On Bio..	\$120,383.30	\$143,651.24	(\$23,267.94)	10/17/2022	N
Landowner Fund	Landowner Match	\$48,735.70	\$56,025.20	(\$7,289.50)	10/12/2022	Y

Actual Results

2020 - Veit and company completed construction on the Warzala Property. Documents uploaded and project is complete. Pollutant Reductions (100 linear feet stabilized, 25 foot tall bank)

A Mississippi River bank stabilization project was completed at the Rainbow property in 2019.

2020 Unprecedented high water and ice in early 2020 caused damage to a section of the project (~40 LF), and it was previously determined by BWSR that grant funds (C18-2864) could be used for the repair to ensure the project's long-term success. The repair will consist of placing additional riprap within the damaged section.

The original grant agreement expiration date was 12/31/2020. . An additional 1-year extension is needed due to low water levels in 2021 that limited the ability for riverbank stabilization work via barge.

Revisited the possibility of completing the work from shore, but the access path for the original project has been fully restored and trees have been planted. We explored whether the work could be completed by hand with wheelbarrows, but the size of the riprap necessary for this large of a river system cannot feasibly be placed by hand. Accessing the bank through the property would require substantial disturbance, including fence removal and replacement, turf replacement, and tree removal and replacement, thereby making it cost prohibitive.

BWSR granted a 1-year extension for CWF grant #C18-2864 that modifies the expiration date to December 31st, 2022. The goal is to install the additional riprap at the Rainbow property via barge

2022 - Three additional sites were stabilized. One of the sites was the Rainbow property repair described above, and the two other sites were new installations.

Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
METALS (MERCURY IN WATER COLUMN) - PPB	112	Ppb
BOD 5 - LBS/YR	112.05	Lbs/Yr
BOD 5 - LBS/YR	5.19	Lbs/Yr
METALS (MERCURY IN WATER COLUMN) - PPB	4.41	Ppb
METALS (MERCURY IN WATER COLUMN) - PPB	9.83	Ppb
BOD 5 - LBS/YR	6.95	Lbs/Yr
METALS (MERCURY IN WATER COLUMN) - PPB	5.91	Ppb
BOD 5 - LBS/YR	11.56	Lbs/Yr

Activity Action Name: Streambank Stabilization - 1335	Activity Count: 1
Practice Type: 580 - Streambank and Shoreline Protection	Size/Units: 103 - Cfu
TA Provider/JAA: SWCD	Lifespan: 20 Years
Practice Description: Riprap toe protection on eroding streambank.	Install Date: 09/27/2022
	Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
METALS (MERCURY IN WATER COLUMN) - PPB	4.41	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River
BOD 5 - LBS/YR	5.19	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River

Activity Action Name:	Streambank Stabilization - 1707	Activity Count: 1
Practice Type:	580 - Streambank and Shoreline Protection	Size/Units: 184 - Cfu
TA Provider/JAA:	SWCD	Lifespan: 20 Years
Practice Description:	Riprap shoreline protection on eroding streambank.	Install Date: 10/04/2022
		Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
METALS (MERCURY IN WATER COLUMN) - PPB	5.91	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River
BOD 5 - LBS/YR	6.95	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River

Activity Action Name:	Streambank Stabilization - 1329	Activity Count: 1
Practice Type:	580 - Streambank and Shoreline Protection	Size/Units: 153 - Cfu
TA Provider/JAA:	SWCD	Lifespan: 20 Years
Practice Description:	Riprap toe protection for eroding streambank.	Install Date: 09/27/2022
		Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
BOD 5 - LBS/YR	11.56	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River
METALS (MERCURY IN WATER COLUMN) - PPB	9.83	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River

Activity Action Name: Streambank Stabilization			Activity Count: 1
Practice Type: 580 - Streambank and Shoreline Protection			Size/Units:
TA Provider/JAA: SWCD			Lifespan: 10 Years
Practice Description:			Install Date: 10/12/2020
			Mapped: Yes
Indicator Name/Units	Value	Calculation Tool	Waterbody
BOD 5 - LBS/YR	112.05	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi
METALS (MERCURY IN WATER COLUMN) - PPB	112	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi

Activity Name: Mississippi Riverbank Stabilization Construction 2018 - Talle 1329

Activity Category: Streambank or Shoreline Protection **Has Rates and Hours?:** Yes

Description:

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Targeted Mississippi River Bank Stabilization Focused On Bio..	\$0.00	\$9,015.68	(\$9,015.68)	10/17/2022	N
Current State Grant	2020 - SWCD Local Capacity Services (Anoka CD)	\$0.00	\$3,199.97	(\$3,199.97)	10/17/2022	N
Current State Grant	2021 - SWCD Local Capacity Services (Anoka CD)	\$0.00	\$2,158.58	(\$2,158.58)	10/17/2022	N
Current State Grant	2019 - SWCD Local Capacity Services (Anoka CD)	\$0.00	\$16,941.50	(\$16,941.50)	10/17/2022	N

Actual Results

2022

Talle

riverbank stabilization - Mississippi River - rip rap toe protection - Linked C18-2864, 2019, 2020 & 2021 Dist. Cap.

153 Linear Ft., 11.56 tons TSS, 9.83 lbs. TP

Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
BOD 5 - LBS/YR	11.56	Lbs/Yr
METALS (MERCURY IN WATER COLUMN) - PPB	9.83	Ppb

Activity Action Name:	1329 (Talle) Riverbank Stabilization	Activity Count: 1
Practice Type:	580 - Streambank and Shoreline Protection	Size/Units: 153 - Cfu
TA Provider/JAA:	SWCD	Lifespan: 20 Years
Practice Description:	This project stabilized 153-feet of eroding riverbank on the Rum River. The project consisted of placing granite riprap along the lower portion of the slope, and a small seeded and blanketed zone above the rock.	Install Date: 09/27/2022
		Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
BOD 5 - LBS/YR	11.56	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River
METALS (MERCURY IN WATER COLUMN) - PPB	9.83	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River

Activity Name: Mississippi Riverbank Stabilization Project Development

Activity Category: Project Development

Has Rates and Hours?: Yes

Description: Project promotion to riparian owners, project ranking based on cost-benefit analysis and performance-based criteria; completion of operations, maintenance, and access agreements with property owners; coordination meetings with all partners (i.e. ACD, project engineer, watershed management entities, and participating cities) to discuss preliminary information gathering, concept designs, project schedule, and progress updates.

Cities and watershed management entities will be engaged in the project review and permitting elements of the grant to streamline project approvals and develop broad-based support to continue similar efforts to address the erosion problems. Project purpose and progress will also be highlighted in newspaper articles, emails to elected officials, website content, and written project profiles. This project will also directly involve private landowners as project partners. Outreach efforts to identify willing partners will include targeted mailings, site visits, and informational meetings. Each of these efforts affords unique opportunities to engage the public and provide information regarding the benefits and long-term impacts of the project.

Credentials of Anticipated Staff Involved:

Chris Lord – Dist. Mgr. – BS Nat. Res. & Env. Sci. with 25+ yrs in project and grant management, workload and budget planning, contract management, BMP design and installation, resource monitoring and inventory, data analysis.

Mitch Haustein – Stormwater and Shoreland Spec. – BA Bio., MS Ecol., Evol. and Behavior with 12 yrs in monitoring plan development and implementation, GIS intensive inventories, watershed and site analysis, and BMP modeling, planning and construction management.

Aaron Diehl – Cons. Spec. – BA Env. Bio., MS Env Sci, MBA and 14 yrs in wetland delineation, restoration, monitoring, and permitting; native landscape identification and restoration; rare plant species surveys; GIS analysis; and, project management.

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Targeted Mississippi River Bank Stabilization Focused On Bio..	\$15,000.00	\$11,130.50	\$3,869.50	12/31/2022	N

Actual Results

2018 1st and 2nd Qtr - No activity. 2018 Q3 and Q4 - Targeted outreach to landowners at properties with severe and very severe erosion as identified in inventory. Site visits with interested landowners to view erosion severity and discuss potential participation in grant. Engaged WSB as project engineer and solicited cost estimate for engineering services.

2020 - chris review plan and advise Mitch as needed.

2022 - Project development for four additional sites.

Activity Name: Mississippi Riverbank stabilization construction 2017

Activity Category: Streambank or Shoreline Protection

Has Rates and Hours?: Yes

Description: Project construction costs for riverbank stabilization including all necessary labor, materials, and fees including but not limited to; permitting, mobilization, clearing and grubbing, ingress and egress, grading, excavation and disposal, aggregate/media, temporary erosion and sediment control, plant materials, site restoration, and labor.

Project construction will be completed by qualified contractors hired by the landowners with oversight by ACD staff.

An example landowner agreement is attached that addresses partner responsibilities for grant administration, project design engineering, construction bidding and contract management (inspections, payments, as-built verifications), cost overruns, long term project operations and maintenance, 150% state payback liability, and property access and assurances. Landowner agreements will be attached when fully executed.

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Targeted Mississippi River Bank Stabilization with a Focus o..	\$141,000.00	\$147,000.00	(\$6,000.00)	12/16/2019	N
Landowner Fund	Landowner Match	\$59,000.00	\$61,142.14	(\$2,142.14)	12/16/2019	Y
Current State Grant	C17-3029 - Targeted Mississippi River Bank Stabilization Focused On Bio..	\$20,616.70	\$18,356.70	\$2,260.00	12/31/2019	N
Landowner Fund	C17-3029 - Landowner Match	\$10,264.30	\$7,867.16	\$2,397.14	12/16/2019	Y

Actual Results

2017 - No activity

2018- No Activity

2019-January 1 - August 19

Stem Property: Sunram, the Contractor completed Bank regrading, riprap installation reinforced soil slopes, erosion blanket. Overland flow continues to create a washout challenges, which the contractor engineer and project manager are working to address. Until successfully resolved, the landowners are withholding project installation verification, and as such none of the landowners project matching funds are being expended. The ACD Board agreed to pay the expense of \$77, 216.29 to cover work completed which does not include landowner match.

Rainbow Stabilization - Project installed

Sept 1 2019- Dec 31, 2019

Stem: ACD developed the plan to deal with the overland flow. Slope was stabilized using native seed and flexamat in area of concentrated flow.

Project complete.

Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
BOD 5 - LBS/YR	58.859	Lbs/Yr
METALS (MERCURY IN WATER COLUMN) - PPB	134.44	Ppb
METALS (MERCURY IN WATER COLUMN) - PPB	59	Ppb
BOD 5 - LBS/YR	134.44	Lbs/Yr

Activity Action Name:	Stem Streambank Stabilization	Activity Count: 1
Practice Type:	580 - Streambank and Shoreline Protection	Size/Units: 130 - Cfu
TA Provider/JAA:		Lifespan: 10 Years
Practice Description:	Stabilizing Mississippi River streambank using bioengineering techniques	Install Date: 07/12/2019
	Stem Site	Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
BOD 5 - LBS/YR	134.44	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River
METALS (MERCURY IN WATER COLUMN) - PPB	134.44	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River

Activity Action Name:	Rainbow Streambank Stabilization	Activity Count: 1
Practice Type:	580 - Streambank and Shoreline Protection	Size/Units: 175 - Cfu
TA Provider/JAA:		Lifespan: 10 Years
Practice Description:	Stabilizing Mississippi River streambank using bioengineering techniques	Install Date: 07/12/2019
	Rainbow Site	Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
METALS (MERCURY IN WATER COLUMN) - PPB	59	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River
BOD 5 - LBS/YR	58.859	Bwsr Calc (Stream & Ditch Stabilization)	Mississippi River

Activity Name: Technical and Engineering Assistance for Mississippi Riverbank Stabilization

Activity Category: Technical/Engineering Assistance

Has Rates and Hours?: Yes

Description: Engineered construction plans including site assessments and surveys, permit applications and regulatory coordination, bidding, construction management, and final project inspection.

Up to five properties will be selected for stabilization on the Mississippi River in Anoka County. This project will stabilize approximately 500 linear feet of Mississippi River bank using bioengineering approaches wherever possible and will deliver reductions of up to 2,000,000 lbs-TSS and 1,000 lbs-TP over the ten-year lifespan of the projects.

Credentials of Anticipated Staff Involved:

Chris Lord – Dist. Mgr. – BS Nat. Res. & Env. Sci. with 25+ yrs in project and grant management, workload and budget planning, contract management, BMP design and installation, resource monitoring and inventory, data analysis.

Mitch Haustein – Cons. Spec. – BA Bio., MS Ecol., Evol. and Behavior with 12 yrs in monitoring plan development and implementation, GIS intensive inventories, watershed and site analysis, and BMP modeling, planning and construction management.

Aaron Diehl – Cons. Spec. – BA Env. Bio., MS Env Sci, MBA and 14 yrs in wetland delineation, restoration, monitoring, and permitting; native landscape identification and restoration; rare plant species surveys; GIS analysis; and, project management.

Professional engineering firm – Firm will be selected with demonstrated expertise in streambank stabilization utilizing bioengineering techniques.

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Targeted Mississippi River Bank Stabilization Focused On Bio..	\$75,000.00	\$48,854.82	\$26,145.18	12/31/2022	N

Actual Results

2019
WSB has completed 50% of the plan development and the design specifications are at 90% development for the Warzala project.

2020
WSB completed 100% of the plan development and design specifications.

2022 - Technical assistance and engineering for four additional sites.