



# Grant All-Detail Report

## Septic Treatment Systems Upgrade - NRBG 2021

**Grant Title** - 2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)

**Grant ID** - P21-3112

**Organization** - Freeborn County

<b>Original Awarded Amount</b>	<b>\$26,487.00</b>	<b>Grant Execution Date</b>	<b>10/13/2020</b>
<b>Required Match Amount</b>	\$0.00	<b>Original Grant End Date</b>	12/31/2022
<b>Required Match %</b>	0%	<b>Grant Day To Day Contact</b>	Rachel Wehner
<b>Current Awarded Amount</b>	\$26,487.00	<b>Current End Date</b>	12/31/2022

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$26,487.00	\$26,487.00	\$0.00
Total Match Amount	\$0.00	\$0.00	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$26,487.00</b>	<b>\$26,487.00</b>	<b>\$0.00</b>

*\*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	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
SSTS upgrades	Subsurface Sewage Treatment Systems	Current State Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn Cou..	\$26,487.00	\$26,487.00	9/23/2022	N

## Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
126M - Septic System Improvement	6		1 COUNT	COUNT

## Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
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## Final Indicators Summary

Indicator Name	Total Value	Unit
<b>NITROGEN</b>	127.00	LBS/YR
<b>PATHOGENS (E. COLI)</b>	279,100,000,000,000.00	CFU
<b>PHOSPHORUS (EST. REDUCTION)</b>	40.00	LBS/YR
<b>BOD 5</b>	1,363.00	LBS/YR
<b>Total Suspended Solids (TSS)</b>	315.00	Mg/L

## Grant Activity

Grant Activity - SSTS upgrades			
Description			
Category	SUBSURFACE SEWAGE TREATMENT SYSTEMS		
Start Date	1-Jan-21	End Date	31-Dec-22
Has Rates and Hours?	No		
Actual Results	5 septic systems were updated using these funds in 2021. 1 of the 5 is partially accounted for in 2020 SSTS upgrade grant.		
	2 septic systems were updated utilizing these funds in 2022. 1 of the 2 is partially accounted for in the 2022 SSTS upgrade grant.		

Activity Action - Resident 4			
Practice	126M - Septic System Improvement	Count of Activities	1
Description			
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	27-Jul-21
Mapped Activities	No	Technical Assistance Provider	Other

Final Indicator for Resident 4			
Indicator Name	PATHOGENS (E. COLI)	Value	3.08E+13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) CFU	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 4			
Indicator Name	BOD 5	Value	90
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 4			
Indicator Name	Total Suspended Solids (TSS)	Value	6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) Mg/L	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 4			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 4			
Indicator Name	NITROGEN	Value	21
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		

Activity Action - Resident 5			
Practice	126M - Septic System Improvement	Count of Activities	1
Description			
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	30-Jun-21
Mapped Activities	No	Technical Assistance Provider	Other

Final Indicator for Resident 5			
Indicator Name	PATHOGENS (E. COLI)	Value	4.62E+13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) CFU	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River Albert Lea Lake Outlet		
Final Indicator for Resident 5			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River Albert Lea Lake Outlet		
Final Indicator for Resident 5			
Indicator Name	NITROGEN	Value	19
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River Albert Lea Lake Outlet		
Final Indicator for Resident 5			
Indicator Name	BOD 5	Value	271
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River Albert Lea Lake Outlet		
Final Indicator for Resident 5			
Indicator Name	Total Suspended Solids (TSS)	Value	18
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) Mg/L	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River Albert Lea Lake Outlet		

Activity Action - Resident 6			
Practice	126M - Septic System Improvement	Count of Activities	1
Description			
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	16-Sep-21
Mapped Activities	No	Technical Assistance Provider	Other

Final Indicator for Resident 6			
Indicator Name	NITROGEN	Value	32
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 6			
Indicator Name	BOD 5	Value	451
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 6			
Indicator Name	Total Suspended Solids (TSS)	Value	30
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) Mg/L	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 6			
Indicator Name	PATHOGENS (E. COLI)	Value	7.70E+13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) CFU	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 6			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	11
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		

Activity Action - Resident 7			
Practice	126M - Septic System Improvement	Count of Activities	1
Description			
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	18-Jun-21
Mapped Activities	No	Technical Assistance Provider	Other

Final Indicator for Resident 7			
Indicator Name	BOD 5	Value	90
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 7			
Indicator Name	Total Suspended Solids (TSS)	Value	6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) Mg/L	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 7			
Indicator Name	PATHOGENS (E. COLI)	Value	3.08E+13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) CFU	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 7			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		
Final Indicator for Resident 7			
Indicator Name	NITROGEN	Value	21
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Shell Rock River		

Activity Action - South Shell Rock township resident 2022			
Practice	126M - Septic System Improvement	Count of Activities	1
Description			
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	2-Sep-22
Mapped Activities	No	Technical Assistance Provider	Other

Final Indicator for South Shell Rock township resident 2022

Indicator Name	BOD 5	Value	92
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Groundwater		

Final Indicator for South Shell Rock township resident 2022

Indicator Name	Total Suspended Solids (TSS)	Value	51
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) Mg/L	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Groundwater		

Final Indicator for South Shell Rock township resident 2022

Indicator Name	PATHOGENS (E. COLI)	Value	3.14E+13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) CFU	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Groundwater		

Final Indicator for South Shell Rock township resident 2022

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Groundwater		

Final Indicator for South Shell Rock township resident 2022

Indicator Name	NITROGEN	Value	8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Groundwater		

Activity Action - Freeborn Township Resident 2022			
Practice	126M - Septic System Improvement	Count of Activities	1
Description			
Proposed Size / Units	1.00 COUNT	Lifespan	15 Years
Actual Size/Units	COUNT	Installed Date	9-Sep-22
Mapped Activities	No	Technical Assistance Provider	Other

**Final Indicator for Freeborn Township Resident 2022**

Indicator Name	Total Suspended Solids (TSS)	Value	204
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) Mg/L	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Penny Lake		

**Final Indicator for Freeborn Township Resident 2022**

Indicator Name	PATHOGENS (E. COLI)	Value	6.29E+13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) CFU	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Penny Lake		

**Final Indicator for Freeborn Township Resident 2022**

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Penny Lake		

**Final Indicator for Freeborn Township Resident 2022**

Indicator Name	NITROGEN	Value	26
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Penny Lake		

**Final Indicator for Freeborn Township Resident 2022**

Indicator Name	BOD 5	Value	369
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Penny Lake		



## Grant Attachments

Document Name	Document Type	Description
<b>2021 SSTS Program</b>	Grant Agreement	2021 SSTS Program - Freeborn County
<b>2021 SSTS Program EXECUTED</b>	Grant Agreement	2021 SSTS Program - Freeborn County
<b>2022 Ledger</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)
<b>2022 ssts invoices/ applications</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/14/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/09/2023
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/19/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/13/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/08/2021
<b>Ledger1</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)
<b>Ledger2</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)
<b>Resident 3 invoice/application</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)
<b>Resident 4 invoice/application</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)
<b>Resident 5 invoice/application</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)
<b>Resident 6 invoice/application</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)
<b>Resident 7 invoice/application</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)
<b>Septic System Improvement Estimator</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)
<b>Septic pollution estimator</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)

Document Name	Document Type	Description
<b>financial report</b>	Grant	2021 - Septic Treatment Systems Upgrade - NRBG (Freeborn County)