

Project information

Local partner: South St. Louis Soil and Water Conservation District Contact name: Tim Beaster

Contact phone number: 218-723-4867 Budget amount: \$29,685.03

Contact email: tim.beaster@southstlouisswcd.org

Project title: S. St. Louis SWCD – St. Louis River Stream Monitoring

Reporting time period: Start date (mm/dd/yyyy): 3/4/2019 End date (mm/dd/yyyy): 12/31/2020

Section I – Workplan

1. Were the following deliverables submitted to the Minnesota Pollution Control Agency (MPCA) by the due dates listed within your workplan?

Quality Assurance Project Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date submitted (mm/dd/yyyy):	<u>3/19/2019</u>
Field and Laboratory Data	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date submitted (mm/dd/yyyy):	<u>10/21/2020</u>
Stream Photos (If applicable)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date submitted (mm/dd/yyyy):	<u>11/19/2020</u>
Interim Progress Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date submitted (mm/dd/yyyy):	<u>1/2/2020</u>

2. Describe progress monitoring each of your stream and/or lake sites over the course of the entire time period. Complete Table 1 describing the number of scheduled samples, by parameter, and indicate the number of samples actually collected (include QA/QC sampling).

In the comments field of Table 1, provide details regarding missed sampling events, noteworthy or adverse site conditions (i.e. drought or low flow, upstream construction, high waterfowl activity, beaver impoundments, or feedlot activity), field meter malfunction, sampling errors, or flagged laboratory samples (holding time or temperature exceedances). Add rows as necessary by placing cursor in the last row of last column and hit tab.

Table 1. Monitoring summary

Site ID#	Scheduled sampling		Actual sampling		Comments
	Parameter	No.	Parameter	No.	
S003-611	TSS	11	TSS	11	
S003-611	TP	11	TP	11	
S003-611	Chloride	2	Chloride	2	
S003-611	Hardness as CaCO3	2	Hardness as CaCO3	2	
S003-611	E. Coli	16	E. Coli	16	
S005-759	TSS	11	TSS	11	
S005-759	TP	11	TP	11	
S005-759	Chloride	2	Chloride	2	
S005-759	Hardness as CaCO3	2	Hardness as CaCO3	2	
S005-759	E. Coli	16	E. Coli	16	
S005-761	TSS	11	TSS	11	
S005-761	TP	11	TP	11	
S005-761	Chloride	2	Chloride	2	

S005-761	Hardness as CaCO3	2	Hardness as CaCO3	2
S005-761	E. Coli	16	E. Coli	16
S005-768	TSS	12	TSS	12
S005-768	TP	12	TP	12
S005-768	Chloride	2	Chloride	2
S005-768	Hardness as CaCO3	2	Hardness as CaCO3	2
S005-768	E. Coli	17	E. Coli	17
S005-755	TSS	11	TSS	11
S005-755	TP	11	TP	11
S005-755	Chloride	2	Chloride	2
S005-755	Hardness as CaCO3	2	Hardness as CaCO3	2
S005-755	E. Coli	16	E. Coli	16
S005-756	TSS	11	TSS	11
S005-756	TP	11	TP	11
S005-756	Chloride	2	Chloride	2
S005-756	Hardness as CaCO3	2	Hardness as CaCO3	2
S005-756	E. Coli	16	E. Coli	16
S000-021	TSS	12	TSS	12
S000-021	TP	20	TP	20
S000-021	Chl-a, corrected for Pheo	18	Chl-a, corrected for Pheo	18
S000-021	Chloride	2	Chloride	2
S000-021	Hardness as CaCO3	2	Hardness as CaCO3	2
S000-021	E. Coli	17	E. Coli	17

3. Were you successful in fulfilling the measures for success using the methods detailed within your workplan?

Yes:

Water temperature, pH, conductivity, and dissolved oxygen was measured using a calibrated sonde at each stream sampling site. The sonde was suspended at an intermediate depth in the water column to prevent interference from bottom sediments or floating materials at the surface. Secchi tube transparency, water levels, and precipitation condition were also noted at each site. Data was recorded for later entry into EQUiS.

- Using standard IWM SOP's, 326 water samples (188 samples in 2019 and 138 samples in 2020) were collected and immediately placed in a cooler with ice. When necessary, preservatives were added to sample bottles before transport. Samples were delivered to the laboratory in a prompt manner to ensure the samples were analyzed within 24 hours of collection. Upstream photos of sites were taken with a digital camera. A few sites were mistakenly not photographed in 2020.
- AIS sampling SOP's were followed at the AIS infested sites. Contamination was avoided by specifically designating equipment for the Pine River site and sampling the St. Louis River site last.
- QA/QC samples were collected to verify that sampling procedures were providing representative samples.
- Samples were delivered to Pace Analytical in a prompt manner to ensure the samples were analyzed within the holding time.
- After receipt and review, lab results were paired with sonde and Secchi tube data and entered into EQUiS. Photos were labeled and sent to the MPCA project manager.

4. Were there any changes to your workplan that were specific to staff and/or monitoring locations? If yes, describe the related change order(s).

25 Project Manager hours and 15 Conservation Specialist hours, totaling \$1,985.30, was added to the budget to provide enough staff time to successfully complete the project.

Section II – Participants in project

5. Complete Table 2 if volunteers were involved with lake and/or stream monitoring.

Tennessen warning: Pursuant to Minn. Stat. § 13.43, information you are asked to provide is classified as private data on individuals as described in Minn. R. 1205.0200, subp. 9, Minn. R. 1205.0400 and Minn. Stat. § 13.02, subd. 12 (home contact information). You are not legally required to submit private citizen data; however, if provided, the MPCA will contact and invite citizens to join the Citizen Monitoring Program (CMP) at the conclusion of your agreement. All private citizen information is kept secure and is not released to parties or individuals outside of SWAG or CMP.

Table 3. Volunteer contact information

Waterbody	Site ID#	Contact name	Address	Telephone	Email address

Section III – Budget

6. Were there any changes to your budget or equipment and supplies list? If yes, describe the related change order(s) and/or amendments.

Funds had to be added to provide enough staff time to successfully complete the project. 25 Project Manager hours and 15 Conservation Specialist hours, totaling \$1,985.30, was added to the project. Additionally, \$512.00 was added to the laboratory budget for unexpected extra lab costs. \$500.00 was deducted from the Equipment and Supplies budget to offset the extra lab costs. The total project cost increased \$1,997.30, from \$27,687.73 to \$29,685.03.