

Project information

Local partner: Redwood-Cottonwood Rivers Control Area Contact name: Kerry Netzke
 Contact phone number: (507) 532-1325 Budget amount: \$76,111.61
 Contact email: kerry.netzke@rcrca.com
 Project title: Redwood and Cottonwood Rivers Monitoring
 Reporting time period: Start date (mm/dd/yyyy): 3/6/2017 End date (mm/dd/yyyy): 1/15/2019

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>5/1/2017</u>
Field and Laboratory Data	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date submitted (mm/dd/yyyy):	<u>10/30/2018</u>
Stream Photos (If applicable)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date submitted (mm/dd/yyyy):	<u>10/30/2018</u>
Interim Progress Report	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date submitted (mm/dd/yyyy):	<u>1/2/2018</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.	
S009-440	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S009-440	Chlorophyll-a, E.coli	16	Chlorophyll-a, E.coli	16	All required sampling completed.
S009-440	TP	18	TP	18	All required sampling completed.
S009-440	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-14), 20	pH collected only 14 samples due to probe going bad during 2018 season.
S001-917	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S001-917	E.coli	16	E.coli	16	All required sampling completed.
S001-917	Temp, DO,	20	Temp, DO,	(pH-	pH collected only 14 samples due to probe going

	pH, Secchi, Conductivity		pH, Secchi, Conductivity	14), 20	bad during 2018 season.
S009-441	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S009-441	E.coli	16	E.coli	16	All required sampling completed.
S009-441	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-15), 20	pH collected only 15 samples due to probe going bad during 2018 season.
S001-914	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S001-914	E.coli	16	E.coli	16	All required sampling completed.
S001-914	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-15), 20	pH collected only 15 samples due to probe going bad during 2018 season. Large rain event in early July 2018 changed the sample site conditions – please review pictures submitted.
S001-913	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S001-913	E.coli	16	E.coli	16	All required sampling completed.
S001-913	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-15), 19	pH collected only 15 samples due to probe going bad during 2018 season. No September 2018 stop, missed 1 set of field data.
S009-444	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S009-444	E.coli	16	E.coli	16	All required sampling completed.
S009-444	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-15), 20	pH collected only 15 samples due to probe going bad during 2018 season.
S002-247	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S002-247	Chlorophyll-a, E.coli	16	Chlorophyll-a, E.coli	16	All required sampling completed.
S002-247	TP	18	TP	18	All required sampling completed.
S002-247	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-15), 20	pH collected only 15 samples due to probe going bad during 2018 season.
S001-915	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S001-915	Chlorophyll-	16	Chlorophyll-	16	All required sampling completed.

	a, E.coli		a, E.coli		
S001-915	TP	18	TP	18	All required sampling completed.
S001-915	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-15), 20	pH collected only 15 samples due to probe going bad during 2018 season.
S009-443	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S009-443	E.coli	16	E.coli	16	All required sampling completed.
S009-443	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-14), 20	pH collected only 14 samples due to probe going bad during 2018 season.
S009-442	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S009-442	E.coli	16	E.coli	16	All required sampling completed.
S009-442	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-14), 20	pH collected only 14 samples due to probe going bad during 2018 season.
S005-690	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S005-690	E.coli	16	E.coli	16	All required sampling completed.
S005-690	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-14), 19	pH collected only 14 samples due to probe going bad during 2018 season. No September 2018 stop, missed 1 set of field data.
S009-439	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S009-439	E.coli	16	E.coli	16	All required sampling completed.
S009-439	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-14), 19	pH collected only 14 samples due to probe going bad during 2018 season. No September 2018 stop, missed 1 set of field data.
S001-920	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S001-920	Chlorophyll-a, E.coli	16	Chlorophyll-a, E.coli	16	All required sampling completed.
S001-920	TP	18	TP	18	All required sampling completed.
S001-920	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-15), 20	pH collected only 15 samples due to probe going bad during 2018 season.
S001-919	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.

S001-919	E.coli	16	E.coli	16	All required sampling completed.
S001-919	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-15), 19	pH collected only 15 samples due to probe going bad during 2018 season. No September 2018 stop, missed 1 set of field data.
S009-438	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S009-438	E.coli	16	E.coli	16	All required sampling completed.
S009-438	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-15), 20	pH collected only 15 samples due to probe going bad during 2018 season.
S001-918	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S001-918	Chlorophyll-a, E.coli	16	Chlorophyll-a, E.coli	16	All required sampling completed.
S001-918	TP	18	TP	18	All required sampling completed.
S001-918	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-15), 20	pH collected only 15 samples due to probe going bad during 2018 season.
S014-261	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S014-261	E.coli	16	E.coli	16	All required sampling completed.
S014-261	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-14), 20	pH collected only 14 samples due to probe going bad during 2018 season.
S003-703	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S003-703	Chlorophyll-a, E.coli	16	Chlorophyll-a, E.coli	16	All required sampling completed.
S003-703	TP	18	TP	17	Lab error, performed a TSS test rather than the requested TP test – 7/12/18
S003-703	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-15), 20	pH collected only 15 samples due to probe going bad during 2018 season.
S002-314	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S002-314	E.coli	16	E.coli	16	All required sampling completed.
S002-314	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH-14, Cond-19), 20	pH collected only 14 samples due to probe going bad during 2018 season. Missing conductivity from 6/26/18, water was running too swift for probe to read – no value to record.
S001-203	TSS,	11	TSS,	11	All required sampling completed.

	Ammonia-N, Chloride, Hardness as CaCO3		Ammonia-N, Chloride, Hardness as CaCO3		
S001-203	Chlorophyll- a, E.coli	16	Chlorophyll- a, E.coli	16	All required sampling completed.
S001-203	TP	18	TP	18	All required sampling completed.
S001-203	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH- 15, Secchi -21), 20	pH collected only 15 samples due to probe going bad during 2018 season. An extra Secchi reading was recorded, probably due to this site also being a WPLMN program site.
S002-313	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S002-313	Chlorophyll- a, E.coli	16	Chlorophyll- a, E.coli	16	All required sampling completed.
S002-313	TP	18	TP	18	All required sampling completed.
S002-313	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH- 15), 20	pH collected only 15 samples due to probe going bad during 2018 season.
S009-454	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S009-454	E.coli	16	E.coli	16	All required sampling completed.
S009-454	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH- 15), 19	pH collected only 15 samples due to probe going bad during 2018 season. No September 2018 stop, missed 1 set of field data.
S004-387	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3, NO2+NO3	11	TSS, TP, Ammonia-N, Chloride, Hardness as CaCO3, NO2+NO3	11	In Sept. 2017, lab missed an N+N test. Site was sampled in Sept. 2018 to make up missing N+N test. All required sampling completed.
S004-387	E.coli	16	E.coli	16	All required sampling completed.
S004-387	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH- 15, Secchi -21), 20	pH collected only 15 samples due to probe going bad during 2018 season. An extra Secchi reading was recorded, probably due to Sept. 2018 stop for N+N test.
S000-299	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	TSS, Ammonia-N, Chloride, Hardness as CaCO3	11	All required sampling completed.
S000-299	Chlorophyll- a, E.coli	16	Chlorophyll- a, E.coli	16	All required sampling completed.
S000-299	TP	18	TP	18	All required sampling completed.
S000-299	Temp, DO, pH, Secchi, Conductivity	20	Temp, DO, pH, Secchi, Conductivity	(pH- 15), 20	pH collected only 15 samples due to probe going bad during 2018 season.
42-0052-00-101	Temp, DO, pH, Secchi Disk,	5	Temp, DO, pH, Secchi Disk,	4	Missing field data from very first trip of the year, probe meter was not along in the boat. 2017 season only.

	Conductivity		Conductivity		
42-0052-00-101	TP, Chlorophyll- a	6	TP, Chlorophyll- a	6	All required sampling completed. 2017 season only.
42-0052-00-101	Chloride, Hardness as CaCO3	1	Chloride, Hardness as CaCO3	1	All required sampling completed. 2017 season only.
42-0054-00-201	Temp, DO, pH, Secchi Disk, Conductivity	5	Temp, DO, pH, Secchi Disk, Conductivity	2	Lake drainage structure failed shortly after June 2017 sample, no further samples in 2017 or 2018. Moved 2018 sample funds to 08-0045-00-203
42-0054-00-201	TP, Chlorophyll- a	6	TP, Chlorophyll- a	2	Lake drainage structure failed shortly after June 2017 sample, no further samples in 2017 or 2018. Moved 2018 sample funds to 08-0045-00-203
42-0054-00-201	Chloride, Hardness as CaCO3	1	Chloride, Hardness as CaCO3	1	Lake drainage structure failed shortly after June 2017 sample, no further samples in 2017 or 2018. Moved 2018 sample funds to 08-0045-00-203
42-0002-00-101	Temp, DO, pH, Secchi Disk, Conductivity	5	Temp, DO, pH, Secchi Disk, Conductivity	5	All required sampling completed. 2017 season only.
42-0002-00-101	TP, Chlorophyll- a	6	TP, Chlorophyll- a	6	All required sampling completed. 2017 season only.
42-0002-00-101	Chloride, Hardness as CaCO3	1	Chloride, Hardness as CaCO3	1	All required sampling completed. 2017 season only.
17-0054-00-101	Temp, DO, pH, Secchi Disk, Conductivity	5	Temp, DO, pH, Secchi Disk, Conductivity	5	All required sampling completed. 2017 season only.
17-0054-00-101	TP, Chlorophyll- a	6	TP, Chlorophyll- a	6	All required sampling completed. 2017 season only.
17-0054-00-101	Chloride, Hardness as CaCO3	1	Chloride, Hardness as CaCO3	1	All required sampling completed. 2017 season only.
08-0011-00-101	Temp, DO, pH, Secchi Disk, Conductivity	5	Temp, DO, pH, Secchi Disk, Conductivity	5	All required sampling completed. 2017 season only.
08-0011-00-101	TP, Chlorophyll- a	6	TP, Chlorophyll- a	6	All required sampling completed. 2017 season only.
08-0011-00-101	Chloride, Hardness as CaCO3	1	Chloride, Hardness as CaCO3	1	All required sampling completed. 2017 season only.
42-0055-00-201	Temp, DO, pH, Secchi Disk, Conductivity	10	Temp, DO, pH, Secchi Disk, Conductivity	(pH-7) 10	All required sampling completed. 2017 & 2018 seasons. pH probe went bad during the 2018 season.
42-0055-00-201	TP, Chlorophyll- a	11	TP, Chlorophyll- a	11	All required sampling completed. 2017 & 2018 seasons.
42-0055-00-201	Chloride, Hardness as CaCO3	1	Chloride, Hardness as CaCO3	1	All required sampling completed. 2017 & 2018 seasons.

64-0150-00-201	Temp, DO, pH, Secchi Disk, Conductivity	10	Temp, DO, pH, Secchi Disk, Conductivity	(pH-7) 10	All required sampling completed. 2017 & 2018 seasons. pH probe went bad during the 2018 season.
64-0150-00-201	TP, Chlorophyll-a	11	TP, Chlorophyll-a	11	All required sampling completed. 2017 & 2018 seasons.
64-0150-00-201	Chloride, Hardness as CaCO3	1	Chloride, Hardness as CaCO3	1	All required sampling completed. 2017 & 2018 seasons.
17-0056-01-101	Temp, DO, pH, Secchi Disk, Conductivity	10	Temp, DO, pH, Secchi Disk, Conductivity	(pH-7) 10	All required sampling completed. 2017 & 2018 seasons. pH probe went bad during the 2018 season.
17-0056-01-101	TP, Chlorophyll-a	11	TP, Chlorophyll-a	11	All required sampling completed. 2017 & 2018 seasons.
17-0056-01-101	Chloride, Hardness as CaCO3	1	Chloride, Hardness as CaCO3	1	All required sampling completed. 2017 & 2018 seasons.
08-0129-00-201	Temp, DO, pH, Secchi Disk, Conductivity	10	Temp, DO, pH, Secchi Disk, Conductivity	(pH-7) 10	All required sampling completed. 2017 & 2018 seasons. pH probe went bad during the 2018 season.
08-0129-00-201	TP, Chlorophyll-a	11	TP, Chlorophyll-a	11	All required sampling completed. 2017 & 2018 seasons.
08-0129-00-201	Chloride, Hardness as CaCO3	1	Chloride, Hardness as CaCO3	1	All required sampling completed. 2017 & 2018 seasons.
08-0045-00-203	Temp, DO, pH, Secchi Disk, Conductivity	10	Temp, DO, pH, Secchi Disk, Conductivity	(pH-7) 10	All required sampling completed. 2017 & 2018 seasons. pH probe went bad during the 2018 season. August 2018 sample taken on 9/6/18. Originally a 1 year site, funds shifted from 42-0054-00-201 after 2017 season.
08-0045-00-203	TP, Chlorophyll-a	11	TP, Chlorophyll-a	11	All required sampling completed. 2017 & 2018 seasons. August 2018 sample taken on 9/6/18. Originally a 1 year site, funds shifted from 42-0054-00-201 after 2017 season.
08-0045-00-203	Chloride, Hardness as CaCO3	1	Chloride, Hardness as CaCO3	1	All required sampling completed. 2017 & 2018 seasons. August 2018 sample taken on 9/6/18. Originally a 1 year site, funds shifted from 42-0054-00-201 after 2017 season.

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

After the unforeseen draining of Brawner Lake in June 2017, data was successfully collected in the remaining 9 lakes: 2 lakes within the Redwood River watershed, and 7 lakes in the Cottonwood River watershed. Change Order #5, dated 5/9/2018, removed Brawner Lake and added Sleepy Eye Lake to the 2018 monitoring schedule.

Data was successfully collected at the twenty-four (24) identified stream sites: 8 streams in the Redwood River watershed, 16 lakes in the Cottonwood River watershed.

Quality Assurance/Quality Control (QA/QC) sampling and field monitoring procedures were conducted at all sampling sites. The QAPP was completed and submitted prior to the commencement of sampling.

All probes were calibrated according to Lakes and Streams Monitoring SOPs. All other equipment was property maintained.

pH probe went bad during the 2018 season and funds were not sufficient for a replacement, some pH data is missing as a result.

Equipment blank for river sites in 2018 was missed. Equipment blank for lake sites in 2017 was completed.

Some sites had missing DO reading from June 2018 that were made up in August 2018. Some sites had missing probe data from May of 2017 that was made up in May of 2018.

Collected data was reviewed for completeness and accuracy, including review of data submittals to EQUIS from MVTL.

All monitoring data collected was entered into EQUIS.

Sampling of four stream sites (S001-918, S001-919, S001-920, and S001-203), that are currently sampled by the WPLMN program, were successfully coordinated with the SWAG grant to reduce redundancy and provide cost savings.

Template forms and stream photos were submitted by the November 1, 2017 and November 1, 2018 deadlines via email and Drop Box.

Interim progress report was submitted on January 2, 2018 (due December 29, 2017) due to problems encountered within the template form. Final progress report was submitted by the December 31, 2018 deadline.

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).

Change Order #2 revised the lake identification number for Double lake.

Change Order #3 moved the sampling location off JD12 (Tyler Creek) from S002-315 to S014-261.

Change Order #5 removed Brawner Lake from the 2018 sampling schedule and added Sleepy Eye Lake.

There was no change or staff during the grant period. All other change orders were monetary to enable completion of workplan.

5. Provide an annual quality assurance assessment that includes the following elements. Please note, a quality assurance assessment is only required with this report if duplicate samples were collected during the second year of monitoring.

A. Submit field meter calibration records as an attachment to this report (records not previously submitted with Interim Report).

B. Complete Table 2 presenting quality control sample results with columns showing comparison to lab method detection limit for sampler blanks, and the relative percent difference (RPD) for field duplicates (see the *SWAG Quality Assurance Project Plan*). Use the "maximum expected relative percent difference" values presented below to assess RPD on field duplicates. Field duplicates with values in excess of the expected RPD may be an indication of high variability within the lake or stream, which is useful for data interpretation. Use the comment field to note RPD or sampler blank results outside of expectations.

$$RPD = (Sample\ Result - Duplicate\ Result) / ((Sample\ Result + Duplicate\ Result) / 2) \times 100$$

Example: Sample result = 0.112 Duplicate result = 0.099

$$RPD = (0.112 - 0.099) / ((0.112 + 0.099) / 2) \times 100 = 0.013 / (0.211 / 2) \times 100 = 12\%$$

Note: Add rows as necessary by placing cursor in the last row of last column and hit tab.

Table 2. Quality control sample results and analysis

Date (mm/dd/yyyy)	Site ID#	Analyte	Sampler blanks		Field duplicates			Comments
			Result	Detection limit	Sample result	Duplicate result	RPD	

Section II – Participants in project

6. Complete Table 3 if volunteers were involved with lake and/or stream monitoring.

Tennessee 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

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

Change Order #1 revised the project summary of the workplan to accurately describe the sample counts and lake monitoring frequency.

Change Order #4 added hours to Staff 1, Staff 2 and Staff 3; removed Staff 4 as a backup sampler was not necessary.

Change Order #6 deducting hours from Staff 1; added hours to Staff 3; deducted from Shipping and Equipment and Supplies (deleted the replacement DO as the WPLMN program provided this); and added miles to the Mileage.

Change Order #7 deducted unused funds from Shipping; deducted unused funds from Equipment and Supplies (unspent Field and Shipping Supplies); deducted unused Per Diem; and added miles to Mileage.

Change Order #8 Deducted unused funds from Laboratory (Streams) and added hours to Staff 2.

Amendment #1 was executed 6/5/2018 and added \$506.44 to the contract amount. The Budget was revised by adding hours to Staff 3; reducing Laboratory (Lakes); and adding miles to Mileage.