

Very Early Spring Flood Outlook – Elevated Threat

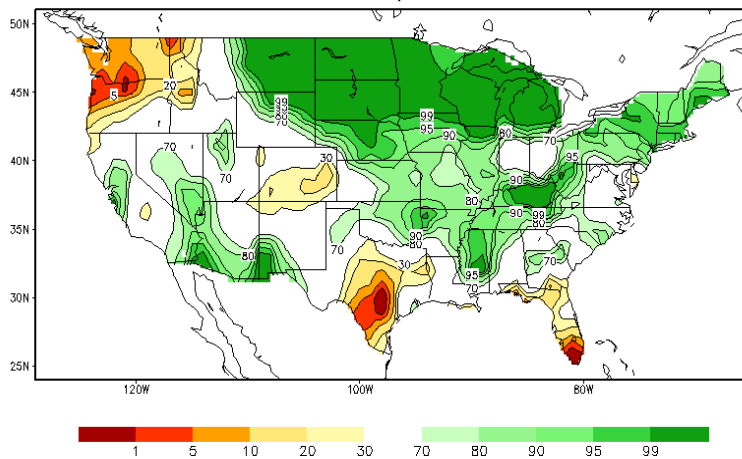
- Current conditions suggest spring flooding will be more likely than in a typical year, throughout the upper midwest. However, significant flooding is not certain.
- Major contributing factors to flood potential will be determined over the winter months.

What Do We Know So Far?

Soils are Wet

All of the upper Midwest had ample rain this fall, mostly 150 to 200 percent of normal. This continued to supply soils with plenty of moisture as we head into winter.

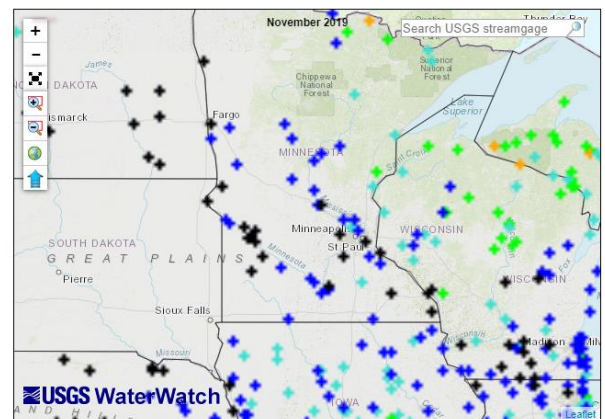
Calculated Soil Moisture Ranking Percentile
 DEC 18, 2019



Streamflow is High

Going into seasonal freeze-up, river levels throughout the upper Midwest remained high, with many showing record levels for early winter.

Map of monthly average streamflow compared to historical streamflow for the month of the year



Explanation - Percentile classes					
●	●	●	●	●	●
Low	<10	10-24	25-75	76-90	>90
	Much below normal	Below normal	Normal	Above normal	Much above normal

What does this mean?

Before we even look at snowpack, the soil and rivers are primed for high runoff.

A low snowpack would help reduce the flood threat, but a normal or high snowpack should lead to a risk of major spring flooding. Much like last year, the type of melt we get will be a major factor as well.

The initial pattern this year is very similar to last year. Recall that we had a nearly ideal melt in spring 2019 (no extreme temperatures, and a three-week period of no rain/snow in March).

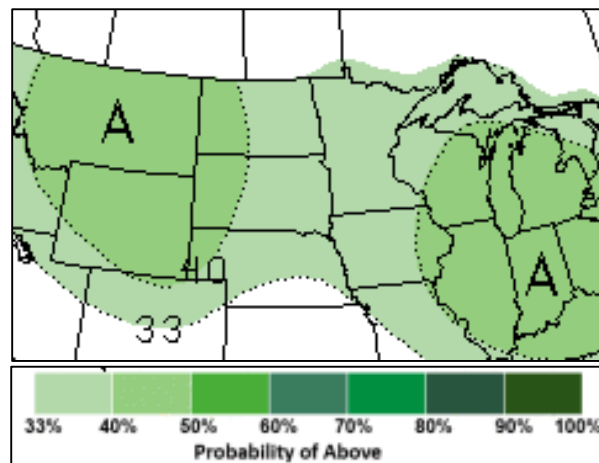
Spring Flood Threat Checklist (as of mid December)

Threat	Impact to Potential Spring Flooding	Link to Image
High river levels	Increased Threat	USGS WaterWatch
High soil moisture	Increased Threat	CPC Soil Moisture
Winter Precipitation	To Be Determined	Winter Outlook
Snowpack/Liquid Equivalent	To Be Determined	Snow Analysis
Rate of Snowmelt	To Be Determined	24, 48, & 72 hr Snowmelt
Frost Depth	To Be Determined	Frost Depth Map
Spring Precipitation	To Be Determined	Precip Forecast (in season)

Winter 2019: *Precipitation Outlook*

Outlooks continue to favor near to above normal precipitation for the winter months. The indicators are fairly weak in the global pattern this winter (no strong El Niño or La Niña), so confidence is not particularly high this year.

Keep in mind...even a normal amount of precipitation this winter season could bring an elevated risk for flooding this upcoming spring.



The updated Winter Outlook for Jan-Mar 2020 indicates slightly higher than normal chances for above normal precipitation.

Next Update Planned for mid January

2020 Probabilistic Spring Flood Outlook Dates:

February 13, 2020

February 27, 2020

March 12, 2020

Potential Flooding Impacts For Winter/Spring

- Rivers freezing at high levels
- Elevated risk for ice jams
- Widespread flooding again for Spring 2020
- Agricultural impacts

The National Weather Service urges those with interests in flooding to stay tuned to additional communications going through the winter and early spring seasons.

January 7, 2020

Mr. Randy Anhorn
Nine Mile Creek Watershed District
12800 Gerard Drive
Eden Prairie, MN 55346

Dear Mr. Anhorn:

Enclosed are Barr Engineering Co.'s rate schedules for fiscal year 2020 (Barr's 2020 fiscal year runs from December 28, 2019 through December 25, 2020). These schedules are proposed as the basis for our 2020 work for the Nine Mile Creek Watershed District (NMCWD).

Barr's 2020 fee schedule summarizes the range of billing rates for each of our staffing categories. In many cases, the billing rates listed represent a wide range, based on varying levels of experience and expertise of staff within these categories. When building a team for Nine Mile Creek Watershed District projects, appropriate staff are selected with consideration for both applicable experience and staff billing rates to make sure that the District receives high-value services for a reasonable cost.

The hourly rates for individuals who regularly work on projects for the NMCWD and/or were identified in Barr's April 27, 2018 proposal to provide engineering services are summarized in the enclosed table. You may notice that 2020 billing rates for some individuals increased more than the modest increases we typically maintain from year to year. Results of a 2019 benchmarking study of the consulting industry in the Minneapolis/St. Paul area indicated that some salary adjustments (and associated billing rate adjustments) were appropriate to ensure that Barr is offering competitive wages so we can retain staff and continue to provide clients with staff continuity and also attract new talent.

Please also accept this letter as notification that we have renewed our professional and general liability insurance.

We remain committed to providing superior technical expertise, sound advice and attention to you and your organization's needs, and ask for your feedback if you feel we aren't measuring up to those goals. We appreciate your confidence in Barr and look forward to being of continued service. If you have any questions about our rate schedules or our work for you, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Janna Kieffer".

Janna M. Kieffer
Vice President

Enclosures



Fee Schedule—2020

Rev. 12/28/19

Description	Rate* (U.S. dollars)
Principal.....	\$145-295
Consultant/Advisor	\$185-250
Engineer/Scientist/Specialist IV	\$155-180
Engineer/Scientist/Specialist III.....	\$125-150
Engineer/Scientist/Specialist II.....	\$95-120
Engineer/Scientist/Specialist I.....	\$65-90
Technician III.....	\$125-150
Technician II.....	\$95-120
Technician I.....	\$60-90
Support Personnel II	\$95-150
Support Personnel I	\$50-90

Rates for litigation support services will include a 30% surcharge.

A ten percent (10%) markup will be added to subcontracts for professional support and construction services to cover overhead and insurance surcharge expenses.

~~Invoices are payable within 30 days of the date of the invoice. Any amount not paid within 30 days shall bear interest from the date 10 days after the date of the invoice at a rate equal to the lesser of 18 percent per annum or the highest rate allowed by applicable law.~~

~~For travel destinations within the continental U.S. (CONUS) and Canada, meals will be reimbursed on a per diem basis. The per diem rate will be as published by the U.S. Internal Revenue Service (IRS) based on the High-Low method. Full day per diem rates will be pro-rated on travel days. For travel destinations outside the continental U.S. (CONUS) and Canada, meals will be reimbursed based on actual expenses incurred.~~

~~All other reimbursable expenses including, but not limited to, costs of transportation, lodging, parking, postage, shipping and incidental charges will be billed at actual reasonable cost. Mileage will be billed at the IRS allowable rate.~~

~~Materials and supplies charges, printing charges, and equipment rental charges will be billed in accordance with Barr's standard rate schedules.~~

Principal category includes consultants, advisors, engineers, scientists, and specialists who are officers of the company.

Consultant/Advisor category includes experienced personnel in a variety of fields. These professionals typically have advanced background in their areas of practice and include engineers, engineering specialists, scientists, related technical professionals, and professionals in complementary service areas such as communications and public affairs.

Engineer/Scientist/Specialist categories include registered professionals and professionals in training (e.g. engineers, geologists, and landscape architects), and graduates of engineering and science degree programs.

Technician category includes CADD operators, construction observers, cost estimators, data management technicians, designers, drafters, engineering technicians, interns, safety technicians, surveyors, and water, air, and waste samplers.

Support Personnel category includes information management, project accounting, report production, word processing, and other project support personnel.

*Rates do not include sales tax on services that may be required in some jurisdictions.



Copy Production Rate Schedule—2020

Companywide
Rev. 12/28/19
Sheet 1 of 1

Description	Rate (U.S. dollars)
Reproduction	
Photocopies (8½ x 11, 8½ x 14, 11 x 17)	0.07
Color Copies (8½ x 11, 8½ x 14, 11 x 17).....	0.50
Large-Format B&W Copies/Plots (22 x 34, 24 x 36, etc.)	1.00
Printing/Plotting	
Color Prints (8½ x 11, 8½ x 14, 11 x 17).....	0.50
Large-Format Color Plots (22 x 34, 24 x 36, etc.)	
Bond.....	2.00/sq. ft.
Photo Grade.....	4.00/sq. ft.
Other	
Binding (dependent on size)	2.00-24.00
CD Holders.....	0.85
Tabs	0.50
Laminate Pocket Sheets	0.50
Webex	
Audio-only calls (per minute, per caller, plus sales tax).....	0.09
Video calls (per minute, per caller, plus sales tax)	0.20



Rental Equipment Rate Schedule—2020

Rev. 12/28/19

Sheet 1 of 8

(Alphabetized)

(see general and end notes)

Description

(U.S. dollars)

	Rate	Unit
Non-Expendable Equipment		
<i>Air Quality</i>		
Air-Cooled M5 Probe/Oven Assembly	300.00	Day
Ambient SO ₂ Monitor.....	100.00	Day
Analytical Balance (each usage).....	6.00	Use
Analyzer Filter Oven.....	15.00	Day
Analyzer Support Kit (a.)	400.00	Day
Anemometer.....	50.00	Day
CO Analyzer.....	250.00	Day
CO Cal Gases (set of 2).....	40.00	Day
CO/O ₂ /CO ₂ Regulators (set of 2)	20.00	Day
Data Logger	40.00	Day
Delta Calibrator	100.00	Day
Digital Calibrator.....	30.00	Day
Dilution Calibrator.....	200.00	Day
Dual Pen Strip Chart	50.00	Day
EPA 6 SO ₂ Analysis Kit.....	60.00	Day
EPA Method 25 (TGNMO) Sampling Train	250.00	Day
EPA Method 202.....	130.00	Test
EPA Method 3 ORSAT Analyzer.....	25.00	Day
EPA Method 30B Probe	50.00	Day
EPA Method 4	270.00	Day
EPA Method 5 Sampling Train.....	400.00	Day
EPA Method 5 Wet Test Meter Calibrator.....	240.00	Day
Gas Chromatograph Model 302.....	367.00	Day
Gas Conditioner	60.00	Day
Heated Sample Line (100').....	100.00	Day
Heated Sample Line (150')	100.00	Day
Heated Sample Line (50').....	60.00	Day
Hivol Ambient Sampler Calibration Kit.....	25.00	Day
Hydrocarbon Calibration Gases	60.00	Day
Hydrocarbon Regulator Set.....	30.00	Day
Meteorological Station.....	1,000.00	Month
Met Station Calibration Kit.....	120.00	Day
Midget Impinger Sample Line	50.00	Day
Midget Impinger Sampling Train	40.00	Day
MKS Multi-Gas Analyzer	1,100.00	Day
NCASI Method 8A Train.....	250.00	Day
NCASI Sample Train.....	50.00	Day
NO _x Analyzer	260.00	Day
NO _x Cal Gases (set of 2)	40.00	Day
NO _x /SO ₂ Regulators (set of 2)	25.00	Day
O ₂ /CO ₂ Analyzer	250.00	Day
O ₂ /CO ₂ Cal Gases (set of 2)	40.00	Day
PM ₁₀ /2.5 In. Stack Separators.....	100.00	Day
Ohio Lumex Mercury Analyzer.....	1,500.00	Day
PM ₁₀ BAM-1020	370.00	Month



Rental Equipment Rate Schedule—2020

Rev. 12/28/19

(Alphabetized)

Sheet 2 of 8

(see general and end notes)

Description (U.S. dollars)

	Rate	Unit
PM ₁₀ HiVol.....	120.00	Month
Portable Oxygen Analyzer	40.00	Day
Primary Standard Flow.....	60.00	Day
Single Pen Strip Chart Recorder.....	35.00	Day
SO ₂ Analyzer.....	300.00	Day
SO ₂ Calibration Gas	40.00	Day
Testo 350 Portable Analyzer.....	270.00	Day
Total Hydrocarbon Analyzer.....	400.00	Day
TRS Kit.....	100.00	Day
TSP Hi-Vol Sampler	30.00	Day
Unheated Sample Line (100 ft.)	40.00	Day
Universal Control Console (Vost Meter).....	200.00	Day
Volumetric Air Flow Measurement Kit	60.00	Day
Field Equipment		
1½-inch Submersible Purge Pump	35.00	Day
360 Degree Camera.....	18.00	Day
Alpha Water Bottle (each usage)	3.00	Use
Arc Flash Label Printer.....	5.00	Use
Area/Velocity Flow Meter	35.00	Day
Automatic Sampler with Depth Sensor and Flow Meter.....	60.00	Day
Automatic Sampler.....	30.00	Day
Bladder Pump w/Controller	125.00	Day
Conductivity Meter	17.50	Day
Current Meter Suspension Kit.....	55.00	Day
Data Transfer System (DTU)	22.00	Day
Depth Sensor/Flow Meter Only	30.00	Day
Differential Pressure Datalogger	18.00	Day
Dissolved Oxygen Meter	29.00	Day
Dissolved Oxygen Sensor/Data Logger System.....	30.00	Day
Dissolved Oxygen/Conductivity Meter	38.25	Day
Ekman Dredge	6.00	Day
Electric Vacuum Pump.....	10.00	Day
Electromagnetic Flowmeter.....	65.00	Day
Environmental Equipment Shelter.....	2.75	Day
Field Rugged Laptop or Pocket PC.....	25.00	Day
Fluorometer Kit, Model 10-AU.....	240.00	Day
GEM 2000 Landfill Gas Analyzer.....	87.00	Day
Gas Centrifugal Pump.....	26.75	Day
Gas Generator	29.00	Day
Gator Diesel Air Compressor	60.00	Day
Go-Pro Camera.....	20.00	Day
Hand Vacuum Pump	2.30	Day
Hand-held Velocity Flow Meter	40.50	Day
Heavy-Duty Weed/Brush Trimmer	17.00	Day
HOBO Weather Station.....	21.00	Day
Kemmerer Vertical Bottle Sampler.....	33.50	Use
Level Troll Water Level/Temp Transducer	45.00	Day
LR-24 Electro-Fisher	200.00	Day



Rental Equipment Rate Schedule—2020

(Alphabetized)

(see general and end notes)

Rev. 12/28/19

Sheet 3 of 8

Description

(U.S. dollars)

	Rate	Unit
Measurement and Control Datalogger	13.00	Day
Oil, Water Interphase Probe.....	60.00	Day
Orbital Shaker Table	105.00	Day
Peristaltic Pump	35.00	Day
Petite Ponar Dredge.....	14.50	Day
pH Meter	27.75	Day
Phipps & Bird Jar Tester	30.00	Day
Pneumatic Slug Kit.....	9.00	Day
Portable Colorimeter	34.75	Day
Portable Doppler or TT Ultrasonic Flow Meter	69.00	Day
Portable Field Scale	15.00	Day
Portable Greenhouse Gas Analyzer	200.00	Day
Portable SVE Blower.....	29.00	Day
Power Cable for Sodar Equipment.....	167.00	Month
Radon Monitor.....	62.00	Day
RST Single-Channel Vibrating Wire Data Logger	4.00	Day
Sediment Corer (per sample).....	5.75	Use
Seisgun	60.00	Day
Shear Cell	419.00	Day
Sodar Trailer (3-month minimum)	3,000.00	Month
Soil Core Sampler/ Bucket Auger	29.00	Day
Soil Vapor Extraction System with Trailer	135.00	Day
Solar Panel Module w/Charge Controller.....	12.00	Day
Sontek ADV (Acoustic Doppler Velocimeter)	128.00	Day
Spectrometer UV/VIS Ocean Optics	115.00	Day
Spill Containment Kit.....	10.00	Day
Split Tube Soil Probe/Hand Auger	12.00	Day
StreamPro ADCP	450.00	Day
Submersible Pump (SS w/controller)	125.00	Day
Sub-Slab Vapor Sampling Kit.....	50.00	Use
Temperature Datalogger	1.50	Day
Temperature, Level, Conductivity Meter (Solinst)	45.00	Day
Tent	15.00	Day
Turbidimeter	25.00	Day
Turbidity Sensor w/Cable, DTS-12.....	43.00	Day
Underwater Viewing Camera	60.00	Day
Unmanned Aircraft System (UAS)	160.00	Day
UV Organics Monitor.....	22.00	Day
Vapor Sampling Manifold	4.00	Use
Vibra-coring System (for Jon Boat)	150.00	Day
Vibra-coring System (for Pontoon).....	500.00	Day
VW Piezometer/Data Logger Combo.....	200.00	Use
Water Quality Meter (YSI ProDSS)	150.00	Day
Water Quality Meter (YSI 556 MPS)	85.00	Day
Well Level Indicator.....	22.00	Day
WTW 1970i Conductivity Meter.....	85.00	Day
Zooplankton Net.....	7.00	Day
Zooplankton	145.00	Day



Rental Equipment Rate Schedule—2020

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(Alphabetized)

Sheet 4 of 8

(see general and end notes)

Description

(U.S. dollars)

	Rate	Unit
<i>GSHM Hardware and Software</i>		
900 MHz Base Station	250.00	Month
AMTS Protective Enclosure	523.00	Month
AMTS Solar Power Package.....	500.00	Month
Cellular Modem	100.00	Month
Cellular Modem Antenna.....	25.00	Month
Chemcad.....	38.00	Hour
Geomos Alarm Package	250.00	Month
GNSS Sensing Base Station.....	500.00	Month
GNSS Sensing Receiver.....	500.00	Month
I-Site Software.....	63.00	Hour
In-Place Inclinator (IPI) System.....	21.00	Day
IPI System Data Acquisition Auxiliary Station w/Radio	7.00	Day
IPI System Data Acquisition Base Station w/Cell and Radio	8.00	Day
Metsim.....	35.00	Hour
MineSight Software	50.00	Hour
Multi Channel 900 MHz Logger.....	100.00	Month
Prism – 360 Degree (c)	50.00	Use
Prism – Long Range (c)	35.00	Use
Prism – Short Range (c).....	25.00	Use
Single Channel 900 MHz Logger	50.00	Month
Tablet Computer	15.00	Day
Vibration System	1,000.00	Day
Vista Data Vision, Presentation Software	150.00	Month
Vista Data Vision Site License	150.00	Each
Vulcan Software	50.00	Hour
VW Readout.....	25.00	Day
Weekly AMTS Active Monitoring.....	1,000.00	Week
Weekly AMTS Inactive Monitoring	250.00	Week
Wireless Vibration Sensor.....	700.00	Month
Wireless Vibration Sensor Communication Hub	1,200.00	Month
<i>Materials and Testing</i>		
Borehole Camera System	140.00	Day
Brass Sieve Set.....	6.00	Day
Chlorophyll a (CHL a).....	60.00	Day
Coarse Sieve Set	10.00	Day
Concrete Air Meter	36.00	Day
Concrete Test Hammer.....	40.50	Day
Cyre Sampler	150.00	Day
Cyre Sampler Push Frame.....	100.00	Day
DL Plus Ultrasonic Kit (37DL, 36DL, 26XTDL).....	62.00	Day
Double Ring Infiltrometer	65.00	Day
Dual-Mass Dynamic Cone Penetrometer.....	50.00	Day
Dye Penetrant Kit.....	22.00	Day
Filter Press.....	160.00	Day
Flat Plate Dilatometer.....	500.00	Day
GeoKon Black Handheld VW Reader	20.00	Day
Geomil VST Electrical Vane Tester.....	50.00	Test



Rental Equipment Rate Schedule—2020

(Alphabetized)

(see general and end notes)

Rev. 12/28/19

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Description (U.S. dollars)

	Rate	Unit
Hand Vane Shear.....	98.50	Day
Heavy-Duty Balance	16.00	Day
Horizontal Sample Ejector.....	29.50	Day
Kessler Field Moisture Oven	45.00	Day
Liquid Limit Set.....	7.50	Day
Load Plate Apparatus.....	230.00	Day
Magnetic Crawler	48.00	Day
Magnetic Particle Kit	38.00	Day
Manual Extensometer (Slideminder).....	32.00	Day
Metal Thickness Gauge	50.00	Day
Minimate Plus Blast Monitor.....	100.00	Day
MPD Infiltrometer – Triple Kit.....	61.00	Test
Paint Thickness Gauge	15.00	Day
Phytoplankton	145.00	Day
Platform Beam Scale	14.75	Day
Point Load Testing System	78.00	Day
Portable CPT.....	200.00	Day
Power Auger	43.00	Day
Proctor Set	4.50	Day
Proving Ring Penetrometer.....	36.00	Day
Resistivity Meter (Ultra Mini-Res).....	110.00	Day
SAA Field Power Unit.....	25.00	Day
Sample Splitter.....	5.00	Day
Sand Cone Set.....	10.00	Day
SINCO Inclinometer Probe.....	200.00	Day
Silverwing Crawler	400.00	Day
Soluble Reactive Phosphorus	28.00	Day
Steel Inspection Kit #1	100.00	Day
Steel Inspection Kit #2	300.00	Day
Thermal Imaging Camera, Flir E60	170.00	Day
Torvane Shear Device	2.50	Day
Total Dissolved Phosphorus	30.00	Day
Total Nitrogen (TN)	40.00	Day
Total Phosphorus (TP).....	23.00	Day
Vane Inspection Kit	19.00	Day
Vertex CPT Equipment	593.00	Day
Vibrating Wire Logger SINCO VW2104	24.00	Day
Water Treatment Lab	200.00	Day
Weld Inspection Equipment	12.00	Day
Safety		
3M PAPR (powered Air Purifying Respirator)	19.00	Day
Emergency Escape Breathing Device.....	18.00	Day
Aerosol/Dust Monitor (PDR-1000)	67.75	Day
Automatic External Defibrillator (AED)	14.00	Day
Calibration Gas Kit	8.75	Day
CO Monitor (ISC T82)	36.00	Day
Confined Space Rescue Retrieval Equipment	295.00	Day
Confined Space Ventilator	54.75	Day



Rental Equipment Rate Schedule—2020

(Alphabetized)

(see general and end notes)

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Sheet 6 of 8

Description (U.S. dollars)

	Rate	Unit
Detector Tube Pump	15.00	Day
Diesel Particulate Monitor Kit FLIR	200.00	Day
Dry Cell Air Flow Calibrator.....	50.00	Day
Flame Ionization Detector TVA1000	133.00	Day
Flotation Worksuit	19.75	Day
Full-Face Respirator.....	8.00	Day
H ₂ S Meter (I.S.C. T40)	27.00	Day
Half-Face Respirator	6.00	Day
Helium Detector	55.00	Day
InReach Satellite Communication Device	10.75	Day
MX4 – O ₂ , LEL, H ₂ S, and CO ₄ Gas Meter.....	45.00	Day
Personal Air Sampling Pump (SKC)	38.00	Day
Photoionization Detector (10.6eV Lamp)	110.00	Day
Photoionization Detector (11.8eV Lamp)	130.00	Day
RKI Eagle-2 Multi-gas Monitor	105.00	Day
Satellite Phone	13.35	Day
Self-Retracting Lifeline (30').....	56.00	Day
Sound Level Meter	48.75	Day
Spot Messenger Device	5.85	Day
Supplied Air Breathing System with SCBA	75.50	Day
Traffic Control Signs.....	2.10	Day
UltraRAE 3000 Photoionization Detector	150.00	Day
Survey		
Aquatic Invasive Species Decon System.....	170.00	Day
Bathymetry Survey System - Odom.....	524.00	Day
Canoe.....	32.00	Day
Centimeter Grade Differential GPS System (Trimble)	145.00	Day
Chain Saw.....	23.00	Day
Communication Radios (set).....	17.75	Day
Differential GPS System (Trimble)	110.00	Day
Garmin GPS.....	12.00	Day
GPS Camera Kit (Ricoh 500SE)	22.00	Day
Hand Ice Auger	7.00	Day
Iron Locator	17.50	Day
iPad with R1 GPS Receiver	50.00	Day
Jon Boat & Trailer	62.00	Day
Kayak	44.00	Day
Laser Range Finder	87.00	Day
LCD Depth Locator	11.50	Day
Leica HDS ScanStation P20 or P40.....	125.00	Hour
Leica Scanner RTC 360.....	68.00	Hour
Leica Structural Monitoring AMTS	97.00	Day
Outboard Motor	46.50	Day
Pontoon Boat Coring Platform	240.00	Day
Power Ice Auger.....	30.00	Day
Robotic Total Station.....	45.00	Hour
Real-Time Kinematic (RTK) GPS Survey System (4-hour minimum)	55.00	Hour
Side Scanning Depth Finder	75.00	Day



Rental Equipment Rate Schedule—2020

(Alphabetized)

(see general and end notes)

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Sheet 7 of 8

Description (U.S. dollars)

	Rate	Unit
Spectra Laser Level	25.00	Day
Survey Set (Level, Tripod and Rod)	20.75	Day
Total Station Survey Set – Complete	116.50	Day
Trolling Motor and Battery	48.00	Day
Utility Locator	41.00	Day
Z-Boat Bathymetry Survey System	150.00	Hour
Vehicles and Trailers		
4WD All-Terrain Vehicle (Ranger).....	89.50	Day
Air Sampling Trailer.....	110.00	Day
Heavy Trailer Towing Mileage (in addition to vehicle mileage at IRS rate).....	0.25	Mile
Utility Trailer	35.00	Day
Vehicle – 2WD Field.....	72.50	Day
Vehicle – 4WD/AWD Field	90.00	Day
Vehicle – Cube Truck.....	88.00	Day
Vehicle – Personal (b).....	58.00	Day
Vehicle Mileage (company and personal)	IRS Rate	
Yakima Canoe Trailer	35.00	Day
Communications and Imaging		
Digital Camera	12.00	Day
Video Camera	20.00	Day
Expendable Field Supplies		
¼-Inch Bladder Pump Tubing	1.50	Foot
¼-Inch ID PVC Tubing	0.30	Foot
¼-Inch ID Silicone Pump Tubing.....	2.60	Foot
¼-Inch Teflon Tubing for Vapor Manifold.....	4.80	Foot
1-Liter Hazmat Cooler Packaging	90.70	Each
2-Liter Hazmat Cooler Packaging	118.70	Each
250-ml Disposable Filtration Apparatus	13.50	Each
3/8-Inch I.D. PVC Tubing	0.40	Foot
3/8-Inch I.D. Silicone Pump Tubing	7.80	Foot
3/8-Inch Teflon Tubing for Vapor Manifold.....	8.10	Foot
3M Airstream P100 PAPR Filter.....	49.50	Each
3M Versaflo P100 PAPR Filter.....	61.30	Each
4-mil Quart Recloseable Bag (pack of 50)	5.40	Pack
5-Gallon Hazmat Packaging	40.80	Each
500-ml Disposable Filtration Apparatus	22.70	Each
Compressed Nitrogen (84 cf “Q Tank”).....	20.84	Each
Core Tubing – 3” Aluminum	4.00	Foot
Detector Tubes	16.30	Each
Distilled Water (1 gal.).....	0.80	Each
Dot Gloves	1.60	Pair
Encore Sampler - 25 Gram	10.00	Each
Fabric Soil Sample Bag.....	1.40	Each
Fence Post & Hardware for Stream Gages.....	14.70	Each
Field Book/Construction Diary (large)	26.90	Each
Field Book/Construction Diary (small).....	8.50	Each
Five Gallon Pail with Lid.....	11.10	Each
Hydrochloric Acid (per liter).....	7.40	Each



Rental Equipment Rate Schedule—2020

(Alphabetized)

(see general and end notes)

Rev. 12/28/19

Sheet 8 of 8

Description (U.S. dollars)

Description	Rate	Unit
Ice	2.50	Bag
In-Line Groundwater Filter	23.20	Each
Knit Glove, Nitrile Coated.....	3.80	Pair
Knit Glove, Nitrile Coated, Insulated	7.70	Pair
Latex Boot Covers.....	7.30	Pair
Lath, 4' (bundle of 50)	40.40	Bundle
Leather Gloves.....	6.70	Pair
Lock	15.80	Each
Nitrile Gloves – Heavy Duty	2.20	Pair
Paper Towels	2.40	Roll
Pin Flagging (bundle of 100).....	20.20	Bundle
Poly-Coated Tyvek Coverall	10.60	Each
Polyethylene Tubing for Bladder Pump, ¼"	0.20	Foot
Powder Pillow Pack for Colorimeter.....	1.90	Test
PVC-Coated Heavy Winter Gloves	15.90	Pair
RAE-Sep Benzene Separation Tube	11.00	Each
Replacement Bladder Kit for QED Pump	21.70	Each
Respirator Cartridges – OVAG.....	31.90	Pair
Respirator Cartridges – Particulate	14.50	Pair
Rock Chip Tray	4.50	Each
Roll Flagging (150').....	3.40	Each
Saranex Tyvek Coverall	30.60	Each
Snap Top Sediment Container (8 oz.).....	1.10	Each
Spray Paint	4.80	Each
Staff Gauge	57.50	Each
Stakes (bundle of 50).....	17.20	Bundle
Surgical Gloves – Thin Nitrile.....	0.20	Pair
Tyvek Boot Covers.....	1.00	Pair
Tyvek/Kleenguard Coverall	3.50	Each
Vapor Pin – Permanent Install Kit	91.90	Each
Versaflo OVAG/P100 PAPR Filter	156.80	Each
Weighted Disposable Bailer	5.90	Each
Whirl-Pak Headspace Bags (per 50 bags).....	14.30	Pack
Winter Glove Liner, Blue Knit	2.50	Pair
Zooplankton Bottle	2.20	Each

General Notes: Applicable to all Equipment Listed on this Schedule

- 1.) Minimum rental period is 0.5 days unless noted.
- 2.) Rental charges begin on the first day the equipment is used on a project.
- 3.) Rental charges end on the last day the equipment is used on a project.
- 4.) A 25 percent weekly rate discount will apply to equipment rented on a daily basis for 5 or more days
- 5.) A 40 percent monthly discount will apply to equipment rented on a daily basis for 20 or more days.
- 6.) Equivalent equipment/models may be substituted for the items listed.

End Notes: Applicable to Only the Equipment Noted

- a.) Analyzer Support Kit includes the following: Airflow Kit, Heated Sample Line (50'), Heated Sample Line (100'), Gas Conditioner, Heated Filter Box, Single Pen Recorder, Dual Pen Strip Chart, Data Logger, C3/C4 Cal Gases (set), NO_x/SO₂ Cal Gases (set), CO Cal Gases (set), CO₂/O₂ Cal Gas (set of 2), SO₂ Cal Gas (set of 2), C3 Regulator Set, NO_x/SO₂ Regulators (set of 2), and CO/CO₂/O₂ Regulators (set of 2)
- b.) Employee personal vehicles subjected to field, off-site, transport or other severe duty.
- c.) Used prisms.

2020 hourly billing rates for primary project personnel

name	title (billing category)	2019 rate	2020 rate
Tim Anderson	senior water resources engineer (consultant/advisor)	\$ 165	\$ 165
Brandon Barnes	water resources engineer (III)	\$ 145	\$ 150
Chris Bonick	senior water resources scientist (III)	\$ 125	\$ 130
Shanna Braun	senior environmental scientist (III)	\$ 135	\$ 145
Patrick Brockamp	water resources engineer (II)	\$ 105	\$ 115
Jake Burggraff	senior water resources designer (technician III)	\$ 130	\$ 130
Brian Burgner	senior ecologist (II)	\$ 105	\$ 110
Jess Butler	senior ecologist (II)	\$ 120	\$ 120
Sean Campbell	water resources engineer (II)	\$ 80	\$ 95
Nathan Campeau	senior water resources engineer (principal)	\$ 160	\$ 170
Karen Chandler	senior water resources engineer (principal)	\$ 175	\$ 180
Evan Christianson	hydrogeologist (IV)	\$ 155	\$ 165
Ryan Conway	hydrogeologist (II)	\$ 95	\$ 100
Brendan Dougherty	landscape architect (II)	\$ 90	\$ 100
Jim Eidem	senior hydrogeologist (consultant/advisor)	\$ 185	\$ 185
Lulu Fang	water resources engineer (II)	\$ 95	\$ 105
Cheryl Feigum	senior environmental scientist (principal)	\$ 170	\$ 175
Dan Fetter	senior civil engineer (principal)	\$ 205	\$ 205
Eric Fitzgerald	senior water resources civil technician (II)	\$ 90	\$ 95
Greg Fransen	water resources scientist (II)	\$ 125	\$ 130
John Hanson	senior civil engineer (principal)	\$ 170	\$ 175
Jay Hawley	water resources engineer (II)	\$ 105	\$ 115
Peter Hinck	water resources engineer (III)	\$ 135	\$ 140
Mark Jacobson	senior environmental scientist (principal)	\$ 180	\$ 185
Karen Kaul	graphics specialist	\$ 90	\$ 90
Janna Kieffer	senior water resources engineer (principal)	\$ 165	\$ 170
Michelle Kimble	senior civil engineer (III)	\$ 135	\$ 145
Jen Koehler	senior water resources engineer (III)	\$ 140	\$ 145
Ron Koth	senior fisheries ecologist (III)	\$ 130	\$ 135
Matt Kumka	landscape architect (III)	\$ 115	\$ 125
Kurt Leuthold	senior civil engineer (principal)	\$ 185	\$ 190
Eric Lund	senior environmental engineer (IV)	\$ 150	\$ 155
Tom MacDonald	senior water resources engineer (principal)	\$ 175	\$ 175
Maureen McFarlane	GIS applications specialist (II)	\$ 100	\$ 105
Michael McKinney	water resources engineer (II)	\$ 105	\$ 115
Dave Melmer	senior environmental technician (I)	\$ 90	\$ 90

name	title (billing category)	2019 rate	2020 rate
Amy Meulebroeck	senior GIS specialist (II)	\$ 115	\$ 120
Aaron Mielke	senior GIS/environmental consultant (III)	\$ 140	\$ 145
Rachel Mitcavish	GIS specialist (I)	\$ 80	\$ 90
Ross Mullen	water resources engineer (II)	\$ 110	\$ 120
Greg Nelson	senior civil designer/technician (III)	\$ 135	\$ 140
Bob Obermeyer	senior water resources engineer (principal)	\$ 175	\$ 180
Keith Pilgrim	senior water resources scientist (IV)	\$ 160	\$ 160
Tina Pint	senior hydrogeologist (principal)	\$ 190	\$ 200
Meg Rattei	senior biologist (III)	\$ 135	\$ 140
Fred Rozumalski	senior landscape architect (IV)	\$ 160	\$ 160
Hal Runke	senior limnologist (principal)	\$ 175	\$ 175
Kathryn Ryan	senior landscape architect (II)	\$ 115	\$ 115
Sarah Stratton	senior water resources scientist (principal)	\$ 165	\$ 170
Mike Strong	senior GIS specialist (II)	\$ 115	\$ 120
Dan Tix	senior wetland ecologist (III)	\$ 145	\$ 150
Katie Turpin-Nagel	water resources engineer (II)	\$ 100	\$ 110
Jeff Weiss	senior water resources engineer (III)	\$ 135	\$ 140
Greg Williams	senior water resources engineer (III)	\$ 140	\$ 145
Greg Wilson	senior water resources engineer (consultant/advisor)	\$ 165	\$ 170
Karen Wold	senior environmental scientist (III)	\$ 130	\$ 135
Ray Wuolo	senior hydrogeologist (principal)	\$ 230	\$ 230



December 27, 2019

Honorable Board of Managers
Nine Mile Creek Watershed District
12800 Gerard Drive
Eden Prairie, MN 55346

We are engaged to audit the financial statements of the governmental activities and each major fund of Nine Mile Creek Watershed District for the year ended December 31, 2019. Professional standards require that we provide you with the following information related to our audit. We are available to meet with you to discuss this information further since a two-way dialogue can provide valuable information for the audit process. Our contact information is provided below:

	Direct Dial	Email
Andy Hering, CPA, Director	(651) 407-5877	ahering@redpathcpas.com
Rebecca Petersen, CPA, Manager	(651) 478-1546	rpetersen@redpathcpas.com

Our Responsibility under U.S. Generally Accepted Auditing Standards

As stated in our engagement letter dated May 22, 2018, and reconfirmed on September 17, 2019, our responsibility, as described by professional standards, is to express opinions about whether the financial statements prepared by management with your oversight are fairly presented, in all material respects, in conformity with U.S. generally accepted accounting principles. Our audit of the financial statements does not relieve you or management of your responsibilities.

Generally accepted accounting principles provide for certain required supplementary information (RSI) to supplement the basic financial statements. Our responsibility with respect to the Budgetary Comparison Schedule, Schedule of Proportionate Share of Net Pension Liability, Schedule of Pension Contributions, and Notes to RSI, which supplement the basic financial statements, is to apply certain limited procedures in accordance with generally accepted auditing standards. However, the RSI will not be audited and, because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance, we will not express an opinion or provide any assurance on the RSI.

We have not been engaged to report on the Introductory Section and the Market Values by Watershed Exhibit, which accompany the financial statements but are not RSI. Our responsibility with respect to this other information in documents containing the audited financial statements and auditor's report does not extend beyond the financial information identified in the report. We have no responsibility for determining whether this other

information is properly stated. This other information will not be audited and we will not express an opinion or provide any assurance on it.

Planned Scope, Timing of the Audit, and Other

An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements; therefore, our audit will involve judgment about the number of transactions to be examined and the areas to be tested.

Our audit will include obtaining an understanding of the entity and its environment, including internal control, sufficient to assess the risks of material misstatement of the financial statements and to design the nature, timing, and extent of further audit procedures. Material misstatements may result from (1) errors, (2) fraudulent financial reporting, (3) misappropriation of assets, or (4) violations of laws or governmental regulations that are attributable to the entity or to acts by management or employees acting on behalf of the entity. We will generally communicate our significant findings at the conclusion of the audit. However, some matters could be communicated sooner, particularly if significant difficulties are encountered during the audit where assistance is needed to overcome the difficulties or if the difficulties may lead to a modified opinion. We will also communicate any internal control related matters that are required to be communicated under professional standards.

We expect to begin our audit on approximately January 27, 2020 and issue our report no later than March 31, 2020. Andy Hering is the engagement director and is responsible for supervising the engagement and signing the report or authorizing another individual to sign it.

Additionally, audit standards requires us to inquire of those directly charged with governance as to their knowledge or suspicions of fraud, as well as their views about fraud risks. As such, please contact us if there is anything which you would like to discuss with us in these regards.

This information is intended solely for the use of the Board of Managers and management of Nine Mile Creek Watershed District and is not intended to be, and should not be, used by anyone other than these specified parties.

Sincerely,

REDPATH AND COMPANY, LTD.



Andy Hering, CPA