

January 23, 2019

Mr. Dave Siebert
Bureau Director
Wisconsin Department of Natural Resources
101 S. Webster Street – GEF2
P.O. Box 7921
Madison, WI 53707-7921

RE: Flambeau Mining Company

License # 03180

Facility ID 855034730

Environmental Surface Water Monitoring (Second Half of 2018) – Revised

Dear Dave:

Enclosed please find copies of the second half of 2018 environmental monitoring surface water data which include analyses of surface water collected from sample stations SW-C1 and SW-C9. Sampling was completed in accordance with the approved monitoring plan prepared for IP-NO-2015-55-01907.

Stream flow, field results, and analytical results are provided in Table 1. Five surface water sampling events were completed on: September 5, 2018, September 21, 2018, October 4, 2018, October 9, 2018, and November 5, 2018.

Duplicate samples for each of the five events were collected for SW-C1 (SW-DUP_180905, SW-DUP_180921, SW-DUP_181004, SW-DUP_181009, and SW-DUP_181105).

If you have any questions, please contact me at (801) 204-2526 or Sharon Kozicki, of Foth Infrastructure & Environment, LLC, at (920) 496-6737.

Sincerely

Dave Cline

President – Flambeau Mining Company

Enclosures

Mr. Dave Siebert Wisconsin DNR January 23, 2019 Page 2

cc: Sharon Kozicki, Foth Infrastructure & Environment, LLC

Kyle McLaughlin, WDNR Zoe C McManama, WDNR

Al Christianson, City of Ladysmith (w/o enclosures)

Pete Boss, Rusk Co. (w/o enclosures)

Tom Riegel, Town of Grant (w/o enclosures) CeCe Tesky, Rusk Co. Zoning (w/o enclosures)

Second Half of 2018 Surface Water Analytical Data

Table 1 Surface Water Analytical Summary Second Half of 2018 Flambeau Mining Company

	Location:			SW-C1					SW-C9					SW-C1		
	Sample ID:	SW-C1_180905	SW-C1_180921	SW-C1_181004	SW-C1_181009	SW-C1_181105	SW-C9_180905	SW-C9_180921	SW-C9_181004	SW-C9_181009	SW-C9_181105	SW-DUP_180905	SW-DUP_180921	SW-DUP_181004	SW-DUP_181009	SW-DUP_181105
	Sample Date:	9/5/2018	9/21/2018	10/4/2018	10/9/2018	11/5/2018	9/5/2018	9/21/2018	10/4/2018	10/9/2018	11/5/2018	9/5/2018	9/21/2018	10/4/2018	10/9/2018	11/5/2018
Stream Flow	Units															
	cfs	2.37	22.87	2.92	8.59	2.31	1.69	10.81	11.46	12.57	4.07					
Parameter	Units															
Copper	μg/L	14.7	22.0	19.2	17.4	10.2	32.8	26.4	22.3	16.8	6.6	16.4	23.0	20.5	18.0	11.0
Dissolved Oxygen	mg/L	6.72	7.16	9.94	9.85	11.43	3.45	5.68	9.52	7.13	8.02					
Hardness	mg/L	158	43.9 J	32.5	26.9	24.9	13.1	13.1	11.1	11.0	12.3	159	44.1	34.7	28.6	26.0
pН	s.u.	6.60	6.53	6.65	6.44	5.75	5.91	6.27	5.76	5.65	5.11					
Redox Potential	mV	33.2	9.6	24.7	37.8	85.4	40.1	34	58.3	49.8	94.4					
Specific Conductance	umhos/cm	180	188	156	121	55	145	127	106	65	29					
Temperature	deg c	19.18	14.36	11.13	10.4	4.3	18.94	15.45	11.25	10.3	4.4					
Total Suspended Solids	mg/L	4.0 J	1.4 J	1.4 J	2.0	2.0	6.6 J	3.6	2.0	1.8 J	1.0 J	4.0 J	1.0 J	1.6 J	1.6 J	2.0
Zinc	μg/L	29.6 J+	23.3 J+	20.6 J+	24.7 J+	20.5 J+	33.2 J+	20.3 J+	29.3 J+	39.1 J+	18.6 J+	37.6 J+	23.6 J+	23.5 J+	20.3 J+	20.9 J+

Notes:

1. Stream Flow calculations were performed with Flowmaster program with the following assumptions: for C9 culvert (36" diameter concrete box (n=0.013) slope= 0.0083 ft/ft); for C1 culvert (60" with smooth interior (n=0.012), slope = 0.0106 ft/ft).

J: Estimated concentration at or above Limit of Detection and below the Limit of Quantitation.

J+: Result biased high due to detection of parameter in method blank.

cfs: cubic feet per second

μg/L: micrograms per liter

mg/L: milligrams per liter

s.u.: standard unit

mV: millivolts

umhos/cm: micromhos per centimeter

deg c: degrees Celsius

Prepared by: MCC2 Checked by: HLV



September 26, 2018

SHARON KOZICKI Foth Infrastructure & Environment, LLC 2121 Innovation Court Suite 300 De Pere, WI 54115

RE: Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

Dear SHARON KOZICKI:

Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod nolteneya

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436 Project Manager

Enclosures

 $_{\rm CC:}$ MARK CIARDELLI, Foth Infrastructure & Environment, LLC





Pace Analytical www.pacelabs.com

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

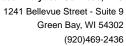
Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0





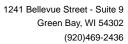
SAMPLE SUMMARY

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40175691001	SW-C1_180905	Water	09/05/18 15:30	09/13/18 09:05
40175691002	SW-DUP_180905	Water	09/05/18 16:30	09/13/18 09:05
40175691003	SW-C9 180905	Water	09/05/18 17:45	09/13/18 09:05

REPORT OF LABORATORY ANALYSIS





SAMPLE ANALYTE COUNT

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40175691001	SW-C1_180905	EPA 6020	KXS	3
		SM 2540D	KTS	1
40175691002	SW-DUP_180905	EPA 6020	KXS	3
		SM 2540D	KTS	1
40175691003	SW-C9_180905	EPA 6020	KXS	3
		SM 2540D	KTS	1

REPORT OF LABORATORY ANALYSIS



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

Method: EPA 6020

Description: 6020 MET ICPMS

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: September 26, 2018

General Information:

3 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 300854

- B: Analyte was detected in the associated method blank.
 - BLANK for HBN 300854 [MPRP/186 (Lab ID: 1756932)
 - Zinc

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



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PROJECT NARRATIVE

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: September 26, 2018

General Information:

3 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- SW-C1_180905 (Lab ID: 40175691001)
- SW-C9_180905 (Lab ID: 40175691003)
- SW-DUP_180905 (Lab ID: 40175691002)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



ANALYTICAL RESULTS

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

Sample: SW-C1_180905	Lab ID:	40175691001	Collecte	d: 09/05/18	3 15:30	Received: 09/	13/18 09:05 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP	A 3010			
Copper	14.7	ug/L	3.6	1.1	1	09/21/18 07:13	09/21/18 21:42	7440-50-8	
Total Hardness by 2340B	158	mg/L	5.0	0.15	1	09/21/18 07:13	09/21/18 21:42		
Zinc	29.6	ug/L	15.3	4.6	1	09/21/18 07:13	09/21/18 21:42	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	40D						
Total Suspended Solids	4.0	mg/L	2.0	0.95	1		09/13/18 14:46		НЗ



ANALYTICAL RESULTS

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

Sample: SW-DUP_180905	Lab ID:	40175691002	Collecte	d: 09/05/18	3 16:30	Received: 09/	/13/18 09:05 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP	A 3010			
Copper	16.4	ug/L	3.6	1.1	1	09/21/18 07:13	09/21/18 21:56	7440-50-8	
Total Hardness by 2340B	159	mg/L	5.0	0.15	1	09/21/18 07:13	09/21/18 21:56		
Zinc	37.6	ug/L	15.3	4.6	1	09/21/18 07:13	09/21/18 21:56	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	40D						
Total Suspended Solids	4.0	mg/L	2.0	0.95	1		09/13/18 14:46		НЗ



ANALYTICAL RESULTS

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

Sample: SW-C9_180905	Lab ID:	40175691003	Collecte	d: 09/05/18	3 17:45	Received: 09/	/13/18 09:05 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Meth	od: EPA	A 3010			
Copper	32.8	ug/L	3.6	1.1	1	09/21/18 07:13	09/21/18 22:03	7440-50-8	
Total Hardness by 2340B	13.1	mg/L	5.0	0.15	1	09/21/18 07:13	09/21/18 22:03		
Zinc	33.2	ug/L	15.3	4.6	1	09/21/18 07:13	09/21/18 22:03	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	540D						
Total Suspended Solids	6.6	mg/L	2.0	0.95	1		09/13/18 14:46		НЗ



QUALITY CONTROL DATA

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

Date: 09/26/2018 11:28 AM

QC Batch: 300854 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET

Associated Lab Samples: 40175691001, 40175691002, 40175691003

METHOD BLANK: 1756932 Matrix: Water

Associated Lab Samples: 40175691001, 40175691002, 40175691003

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Copper	ug/L	<1.1	3.6	09/21/18 20:20	
Total Hardness by 2340B	mg/L	<0.15	5.0	09/21/18 20:20	
Zinc	ug/L	9.3J	15.3	09/21/18 20:20	

LABORATORY CONTROL SAMPLE:	1756933					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Copper	ug/L	500	512	102	80-120	
Total Hardness by 2340B	mg/L		34.0			
Zinc	ug/L	500	524	105	80-120	

MATRIX SPIKE & MATRIX SF	PIKE DUPLICA	ATE: 17569	34		1756935							
			MS	MSD								
	4	0174964001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	0.0019J mg/L	500	500	482	494	96	98	75-125	3	20	
Total Hardness by 2340B	mg/L	204			231	232				0	20	
Zinc	ug/L	0.045 mg/L	500	500	536	561	98	103	75-125	5	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

QC Batch: 300112 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 40175691001, 40175691002, 40175691003

METHOD BLANK: 1752448 Matrix: Water

Associated Lab Samples: 40175691001, 40175691002, 40175691003

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L <0.48 1.0 09/13/18 14:45

LABORATORY CONTROL SAMPLE: 1752449

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** 100 112 112 80-120 mg/L

SAMPLE DUPLICATE: 1752450

40175630004 Dup Max RPD RPD Units Result Result Qualifiers Parameter **Total Suspended Solids** 200 200 0 5 mg/L

SAMPLE DUPLICATE: 1752451

Date: 09/26/2018 11:28 AM

40175668001 Dup Max Parameter Units Result Result RPD **RPD** Qualifiers Total Suspended Solids mg/L 2910 2840 2 5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



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QUALIFIERS

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

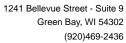
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 09/26/2018 11:28 AM

- B Analyte was detected in the associated method blank.
- H3 Sample was received or analysis requested beyond the recognized method holding time.

REPORT OF LABORATORY ANALYSIS





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FLAMBEAU MINING CO.

Pace Project No.: 40175691

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40175691001	SW-C1_180905	EPA 3010	300854	EPA 6020	300935
40175691002	SW-DUP_180905	EPA 3010	300854	EPA 6020	300935
40175691003	SW-C9_180905	EPA 3010	300854	EPA 6020	300935
40175691001	SW-C1_180905	SM 2540D	300112		
40175691002	SW-DUP_180905	SM 2540D	300112		
40175691003	SW-C9_180905	SM 2540D	300112		

Samples on HOLD are subject to special pricing and release of liability				Email #1:		pproval/surcharge)						003 5W-C9-180905 9/5/18	SW-DUP-	(B) 5W-C1-180905 9/5/18	121	PA Level IV NOT needed on S = Soil S = S	On your sample (billable)	MS/MSD	PO #: Regulatory Program:	Sampled By (Sign):	Sampled By (Print): Jim ENGECHARDT	1	Project Name: FLAMBSAU MINING CO.	Project Number:	Phone: 920-496-6737	Project Contact: SHARON KOZICKI		Company Name: FOTH (NFRA & ENVIRON.	(Please Print Clearly)
Relinquished By: Date/Time:		Relinquished By: Date/Time:	poroco).	- 1	Relinquished By: A A Date Time:	Fightle 9-17-18						5:45 5W 1 1	4:30 SW / / /	3:30 SW 1 1 1	MATRIX	Analy	DW = Drinking Water GW = Ground Water SW = Surface Water SW = Surface Water	Requ			PRESERVATION Letter A O	FILTERED? Y/N N N	m Bisulfate Solution	A=None B=HCL C=H2SO4 D=HNO3 E=DI Water	CHAIN OF CUS	man bootstand will	Pace Analytical)
Received By: Date/Time:	Antieva teoropa de de la companya d	Received By: Date/Time:	neceived by: Date/Time:	on to	COOS Received By: Date/Time:	T: COAM Date/Time:						*		NoNE	COMMENTS	CLIENT	Invoice To Phone:		Invoice To Address:	Invoice To Company:	Invoice To Contact:		J=Other Mail To Address:	F=Methanol G=NaOH Mail To Company:	Mail To Contact:	Quote #:	T	MM: \$12-607-1700 WI: 920-469-2436	UPPER MIDWEST REGION
e: Present / Not Present Intact / Not Intact	600		Samble Receipt pH		11.00/100 July //				000,000						(Lab Use Only)	LAB COMMENTS Profile #		Andrewske	19:			DEPERE, W) 54/15-5/26		_	SHARON KOZICKI	Pag	70/75/21		Page 1 of /

Version 6.0 06/14/06 ORIGINAL

Sample Preservation Receipt Form

Project #

Client Name:

All containers needing preservation have been checked and noted below: ★Yes □No □N/A D17591

001 002 003 004 005 006 007 008 020 019 018 016 017 014 015 011 012 013 Pace Lab# AG1U AG1H AG4S AG4U AG5U AG2S BG3U BP1U BP2N Lab Lot# of pH paper:/OUX)と BP2Z **Plastic** BP3U BP3C BP3N BP3S DG9A DG9T VG9U Vials Lab Std #ID of preservation (if pH adjusted) VG9H VG9M VG9D **JGFU** Jars WGFU WPFU SP5T General **ZPLC** GN VOA Vials (>6mm) H2SO4 pH ≤2 Initial when completed: NaOH+Zn Act pH ≥9 NaOH pH ≥12 HNO3 pH ≤2 Date/ Time: pH after adjusted 2.5/5/10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5/5/10 2.5/5/10 2.5/5/10 2.5/5/10 2.5/5/10 2.5 / 5 / 10 2.5 / 5 / 10 2.5/5/10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5/5/10 2.5/5/10 2.5 / 5 / 10 2.5 / 5 / 10 Volume (mL)

Excep	Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:	form, TOC,	TOX, TOH, O&G, WI DRO, Pheno	lics, Other:	Headspace in VOA Vial	s (>6mm) :	_Headspace in VOA Vials (>6mm) : □Yes □No ܐ̣씨/A *If yes look in headspace column
AG1U	AG1U 1 liter amber glass	BP1U	BP1U 1 liter plastic unpres	DG9A	DG9A 40 mL amber ascorbic	JGFU	JGFU 4 oz amber jar unpres
AG1H	AG1H 1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	DG9T 40 mL amber Na Thio	WGFU	WGFU 4 oz clear jar unpres
AG4S	AG4S 125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	VG9U 40 mL clear vial unpres	WPFU	WPFU 4 oz plastic jar unpres
AG4U	AG4U 120 mL amber glass unpres	врзи	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	AG5U 100 mL amber glass unpres	врзс	250 mL plastic NaOH	VG9M	VG9M 40 mL clear vial MeOH	SP5T	SP5T 120 mL plastic Na Thiosulfate
AG2S	AG2S 500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	VG9D 40 mL clear vial DI	ZPLC	ZPLC ziploc bag
BG3U	BG3U 250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			<u>ა</u>	4

Pace Analytical

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.:

Document Revised: 25Apr2018

Issuing Authority: Pace Green Bay Quality Office

1241 Bellevue Street, Green Bay, WI 54302

WI 54302 F-GB-C-031-Rev.07

Sample Condition Upon Receipt Form (SCUR)

Client Name: Foto		Project #	WO# : 4	0175691
Courier: ☐ CS Logistics ☐ Fed Ex ☐ Spee	dee Furs Kw	/altco		
Client Pace Other:		anoo	40175691	
Tracking #: 1830			Yes	
Custody Seal on Cooler/Box Present: yes	📉 no Seals intact:	- T ves T no		
Custody Seal on Samples Present: yes	,	□ yes □ no		
Packing Material: Rubble Wrap But				
Thermometer Used SR - 75	Type of Ice: Wet	Blue Dry None	Samples on	ice, cooling process has begun
Cooler Temperature Uncorr: 3.5 /Corr:	3-5		-	
Temp Blank Present:	Biological T	issue is Frozen:	⊤yes ⊤no	Person examining contents:
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C.	_			Date: <u>9//3//8</u> Initials: <u>55/</u>
Chain of Custody Present:	Yes □No □N/A	1.		
Chain of Custody Filled Out:	Ægyes □No □N/A	2.		
Chain of Custody Relinquished:	Yes □No □N/A	3.		
Sampler Name & Signature on COC:	Yes □No □N/A	4.		
Samples Arrived within Hold Time:	□Yes X No	5.		
- VOA Samples frozen upon receipt	□Yes □No	Date/Time:		
Short Hold Time Analysis (<72hr):	X □Yes □No	6.		
Rush Turn Around Time Requested:	□Yes \ No	7.		
Sufficient Volume:		8.		
For Analysis: ☑Yes ☐No MS/MSI	D: DYes TNO DN/A			
Correct Containers Used:	ÄTYes □No	9.		
-Pace Containers Used:	ŽĪÝes □No □N/A			
-Pace IR Containers Used:	□Yes □No ★N/A			
Containers Intact:	XYes □No	10.		
Filtered volume received for Dissolved tests	□Yes □No (X)N/A	11.		
Sample Labels match COC:	Yes □No □N/A	12.		
-Includes date/time/ID/Analysis Matrix:	<u> </u>			
Trip Blank Present:	□Yes □No kQN/A	13.		
Trip Blank Custody Seals Present	□Yes □No X□N/A			
Pace Trip Blank Lot # (if purchased):				
Client Notification/ Resolution:			hecked, see attache	ed form for additional comments
Person Contacted:Comments/ Resolution:		ıme:		
Project Manager Review:	for Tu		Date:	9113118





October 03, 2018

SHARON KOZICKI Foth Infrastructure & Environment, LLC 2121 Innovation Court Suite 300 De Pere, WI 54115

RE: Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

Dear SHARON KOZICKI:

Enclosed are the analytical results for sample(s) received by the laboratory on September 25, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod nolteneya

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436 Project Manager

Enclosures

cc: MARK CIARDELLI, Foth Infrastructure & Environment,





Pace Analytical www.pacelabs.com

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0





SAMPLE SUMMARY

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40176390001	SW-C1_180921	Water	09/21/18 15:15	09/25/18 10:30
40176390002	SW-DUP_180921	Water	09/21/18 16:15	09/25/18 10:30
40176390003	SW-C9_180921	Water	09/21/18 17:15	09/25/18 10:30





SAMPLE ANALYTE COUNT

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40176390001	SW-C1_180921	EPA 6020	KXS	3
		SM 2540D	TMK	1
40176390002	SW-DUP_180921	EPA 6020	KXS	3
		SM 2540D	TMK	1
40176390003	SW-C9_180921	EPA 6020	KXS	3
		SM 2540D	TMK	1





PROJECT NARRATIVE

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

Method: EPA 6020

Description: 6020 MET ICPMS

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: October 03, 2018

General Information:

3 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 301676

- B: Analyte was detected in the associated method blank.
 - BLANK for HBN 301676 [MPRP/186 (Lab ID: 1762553)
 - Zinc

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: October 03, 2018

General Information:

3 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 301340

R1: RPD value was outside control limits.

DUP (Lab ID: 1759942)Total Suspended Solids

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



ANALYTICAL RESULTS

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

Sample: SW-C1_180921	Lab ID:	40176390001	Collected	d: 09/21/18	3 15:15	Received: 09/	25/18 10:30 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP	A 3010			
Copper	22.0	ug/L	3.6	1.1	1	10/01/18 06:42	10/01/18 23:15	7440-50-8	
Total Hardness by 2340B	43.9J	mg/L	50.0	1.5	10	10/01/18 06:42	10/01/18 22:48		
Zinc	23.3	ug/L	15.3	4.6	1	10/01/18 06:42	10/01/18 23:15	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	40D						
Total Suspended Solids	1.4J	mg/L	2.0	0.95	1		09/26/18 14:08		



ANALYTICAL RESULTS

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

Sample: SW-DUP_180921	Lab ID:	40176390002	Collecte	d: 09/21/18	3 16:15	Received: 09/	25/18 10:30 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP/	A 3010			
Copper	23.0	ug/L	3.6	1.1	1	10/01/18 06:42	10/01/18 23:56	7440-50-8	
Total Hardness by 2340B	44.1	mg/L	5.0	0.15	1	10/01/18 06:42	10/01/18 23:56		
Zinc	23.6	ug/L	15.3	4.6	1	10/01/18 06:42	10/01/18 23:56	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	40D						
Total Suspended Solids	1.0J	mg/L	2.0	0.95	1		09/26/18 14:08		



ANALYTICAL RESULTS

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

Sample: SW-C9_180921	Lab ID:	40176390003	Collecte	d: 09/21/18	3 17:15	Received: 09/	25/18 10:30 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP	A 3010			
Copper	26.4	ug/L	3.6	1.1	1	10/01/18 06:42	10/02/18 00:10	7440-50-8	
Total Hardness by 2340B	13.1	mg/L	5.0	0.15	1	10/01/18 06:42	10/02/18 00:10		
Zinc	20.3	ug/L	15.3	4.6	1	10/01/18 06:42	10/02/18 00:10	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	40D						
Total Suspended Solids	3.6	mg/L	2.0	0.95	1		09/26/18 14:08		



QUALITY CONTROL DATA

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

Date: 10/03/2018 01:54 PM

QC Batch: 301676 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET

Associated Lab Samples: 40176390001, 40176390002, 40176390003

METHOD BLANK: 1762553 Matrix: Water

Associated Lab Samples: 40176390001, 40176390002, 40176390003

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Copper	ug/L	<1.1	3.6	10/01/18 22:34	
Total Hardness by 2340B	mg/L	<0.15	5.0	10/01/18 22:34	
Zinc	ug/L	7.8J	15.3	10/01/18 22:34	

LABORATORY CONTROL SAMPLE:	1762554					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Copper	ug/L	500	518	104	80-120	
Total Hardness by 2340B	mg/L		35.0			
Zinc	ug/L	500	502	100	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLICA	TE: 17625	55		1762556							
			MS	MSD								
	4	0176390001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	22.0	500	500	536	519	103	99	75-125	3	20	
Total Hardness by 2340B	mg/L	43.9J			76.3	74.4				2	20	
Zinc	ug/L	23.3	500	500	530	519	101	99	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

QC Batch: 301340 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 40176390001, 40176390002, 40176390003

METHOD BLANK: 1759940 Matrix: Water

Associated Lab Samples: 40176390001, 40176390002, 40176390003

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L <0.48 1.0 09/26/18 14:07

LABORATORY CONTROL SAMPLE: 1759941

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** 100 104 104 80-120 mg/L

SAMPLE DUPLICATE: 1759942

40176272001 Dup Max Units Result Result RPD **RPD** Qualifiers Parameter **Total Suspended Solids** 148 167 12 5 R1 mg/L

SAMPLE DUPLICATE: 1759943

Date: 10/03/2018 01:54 PM

40176342001 Dup Max Parameter Units Result Result RPD RPD Qualifiers Total Suspended Solids mg/L 182 191 5 5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

QUALIFIERS

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

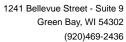
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 10/03/2018 01:54 PM

B Analyte was detected in the associated method blank.

R1 RPD value was outside control limits.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FLAMBEAU MINING CO

Pace Project No.: 40176390

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40176390001	SW-C1_180921	EPA 3010	301676	EPA 6020	301796
40176390002	SW-DUP_180921	EPA 3010	301676	EPA 6020	301796
40176390003	SW-C9_180921	EPA 3010	301676	EPA 6020	301796
40176390001	SW-C1_180921	SM 2540D	301340		
40176390002	SW-DUP_180921	SM 2540D	301340		
40176390003	SW-C9_180921	SM 2540D	301340		

TWIENERS

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(Lab Use Only)	COMMENTS			m		g I	DATE	CLENT FIELD ID	PACE LAB#
LAB COMMENTS Profile #	CLIENT			ETA			S = Soil SI = Studge	your sample	LJ CFA LEVELIV
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	Invoice To Address:			<i>€/20.</i>		este	Regulatory Program:		PO#:
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SHARON KOZICKI	Mail To Contact:	Ž	CHAIN OF CUSTODY	9			>	920-496-6737	Phone:
Pag	Quote #:	/ 0/1/	•	n mn paccama cuen	77.		<u>e</u>	SHARON KOZICK	Project Contact:
401 16370 e 14		100		Face Analytical	Ä	/ Face		Dellene WI	Branch/Location:
	1881 970-409-74-00	MN: 612-607-1700	B		*		MONIN	FOTH INFRO. + ENVIRON	Company Name:

UPPER MIDWEST REGION MN: 612-607-1700 WI: 920-469-2436

Company Name:

(Please Print Clearly)

40/76390 14 of 16

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Pace Lab#	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials		H2SO4 pH	NaOH+Zn /		NaOH+Zn /	NaOH+Zn / NaOH pH ≥
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AG1H 1 liter amber glass HCL AG5U 100 mL amber glass unpres AG4U 120 mL amber glass unpres AG4S 125 mL amber glass H2SO4 BG3U 250 mL clear glass unpres AG1U 1 liter amber glass AG2S 500 mL amber glass H2SO4 Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other, BP2N BP2Z BP3C BP3U 250 mL plastic unpres 500 mL plastic NaOH, Znact 500 mL plastic HNO3 250 mL plastic H2SO4 250 mL plastic HNO3 250 mL plastic NaOH 1 liter plastic unpres VG9M DG9T VG9U **H69A** DG9A 40 mL clear vial MeOH 40 mL clear vial HCL 40 mL clear vial unpres 40 mL amber Na Thio 40 mL clear vial DI 40 mL amber ascorbic Headspace in VOA Vials (>6mm): aYes aNo aNIA *If yes look in headspace column WGFU WPFU SP5T JGFU ZPLC en: 4 oz clear jar unpres 4 oz ambef jar unpres 4 oz plastic jar unpres zipłoc bag 120 mL plastic Na Thiosulfate

Page 1 of &

Pace Analytical

Document Name: Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018

1241 Bellevue Street, Green Bay, WI 54302

Document No.: F-GB-C-031-Rev.07

Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Foth		Project #:	‡:40176390
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12 601 0100	34495766	401763	#### ########## 90
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Custody Seal on Samples Present: Tyes 7	7	r yes no	
Packing Material: Bubble Wrap Bub		· .	6008
Thermometer Used SR - 30	Type of Ice: Wet	Blue Dry None Sam	eles on ice, cooling process has begun
Cooler Temperature Uncorr: 1 /Corr:	3		
Temp Blank Present: yes no	Biological 1	「issue is Frozen: ☐ yes ☐ i	Person examining contents:
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C.			Initials:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.	
Chain of Custody Filled Out:	ZYes □No □N/A	2.	
Chain of Custody Relinquished:	ZYes DNo DN/A	3.	
Sampler Name & Signature on COC:	ZYes ONO ON/A	4.	
Samples Arrived within Hold Time:	ZYes □No	5.	
- VOA Samples frozen upon receipt	□Yes □No	Date/Time:	
Short Hold Time Analysis (<72hr):	□Yes ØNo	6.	
Rush Turn Around Time Requested:	□Yes ZNo	7.	
Sufficient Volume:		8.	
For Analysis: ☑yes ☐No MS/MSI	D: Dyes ZNo DN/A		
Correct Containers Used:	ZYes □No	9.	
-Pace Containers Used:	Yes DNo DN/A		
-Pace IR Containers Used:			
Containers Intact:	ØYes □No	10.	
Filtered volume received for Dissolved tests	□Yes □No ØN/A	11.	
Sample Labels match COC:	ZYes, DNo DN/A	12.	
-Includes date/time/ID/Analysis Matrix:			
Trip Blank Present:	□Yes ZNo □N/A	13.	
Trip Blank Custody Seals Present	□Yes □No ØN/A		
Pace Trip Blank Lot # (if purchased):			
Client Notification/ Resolution: Person Contacted: Comments/ Resolution:	Date/		e attached form for additional comments
Project Manager Review:	A 6	VTN I	Date: 9/25/18



October 24, 2018

SHARON KOZICKI Foth Infrastructure & Environment, LLC 2121 Innovation Court Suite 300 De Pere, WI 54115

RE: Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

Dear SHARON KOZICKI:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod nolteneya

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436 Project Manager

Enclosures

 $_{\rm CC:}$ MARK CIARDELLI, Foth Infrastructure & Environment, LLC





Pace Analytical www.pacelabs.com

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

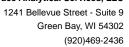
Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064

New York Certification #: 12064 North Dakota Certification #: R-150 Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0





SAMPLE SUMMARY

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40177220001	SW-C1_181004	Water	10/04/18 15:00	10/06/18 10:10
40177220002	SW-DUP_181004	Water	10/04/18 16:00	10/06/18 10:10
40177220003	SW-C9_181004	Water	10/04/18 17:00	10/06/18 10:10





SAMPLE ANALYTE COUNT

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40177220001	SW-C1_181004	EPA 6020	KXS	3
		SM 2540D	KTS	1
40177220002	SW-DUP_181004	EPA 6020	KXS	3
		SM 2540D	KTS	1
40177220003	SW-C9_181004	EPA 6020	KXS	3
		SM 2540D	KTS	1



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

Method: EPA 6020

Description: 6020 MET ICPMS

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: October 24, 2018

General Information:

3 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 303315

- B: Analyte was detected in the associated method blank.
 - BLANK for HBN 303315 [MPRP/187 (Lab ID: 1771572)
 - Zinc

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: October 24, 2018

General Information:

3 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 302732

R1: RPD value was outside control limits.

DUP (Lab ID: 1768189)Total Suspended Solids

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



ANALYTICAL RESULTS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

Sample: SW-C1_181004	Lab ID:	40177220001	Collecte	d: 10/04/18	3 15:00	Received: 10/	06/18 10:10 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP	A 3010			
Copper	19.2	ug/L	3.6	1.1	1	10/16/18 08:36	10/23/18 06:42	7440-50-8	
Total Hardness by 2340B	32.5	mg/L	5.0	0.15	1	10/16/18 08:36	10/23/18 06:42		
Zinc	20.6	ug/L	15.3	4.6	1	10/16/18 08:36	10/23/18 19:48	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	540D						
Total Suspended Solids	1.4J	mg/L	2.0	0.95	1		10/10/18 12:07		



ANALYTICAL RESULTS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

Sample: SW-DUP_181004	Lab ID:	40177220002	Collecte	d: 10/04/18	3 16:00	Received: 10/	06/18 10:10 N	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP	A 3010			
Copper	20.5	ug/L	3.6	1.1	1	10/16/18 08:36	10/23/18 07:15	7440-50-8	
Total Hardness by 2340B	34.7	mg/L	5.0	0.15	1	10/16/18 08:36	10/23/18 07:15		
Zinc	23.5	ug/L	15.3	4.6	1	10/16/18 08:36	10/23/18 20:15	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	40D						
Total Suspended Solids	1.6J	mg/L	2.0	0.95	1		10/10/18 12:07		



ANALYTICAL RESULTS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

Sample: SW-C9_181004	Lab ID:	40177220003	Collecte	d: 10/04/18	3 17:00	Received: 10/	06/18 10:10 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP	A 3010			
Copper	22.3	ug/L	3.6	1.1	1	10/16/18 08:36	10/23/18 07:29	7440-50-8	
Total Hardness by 2340B	11.1	mg/L	5.0	0.15	1	10/16/18 08:36	10/23/18 07:29		
Zinc	29.3	ug/L	15.3	4.6	1	10/16/18 08:36	10/23/18 20:29	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	40D						
Total Suspended Solids	2.0	mg/L	2.0	0.95	1		10/10/18 12:07		



QUALITY CONTROL DATA

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

Date: 10/24/2018 11:29 AM

QC Batch: 303315 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET

Associated Lab Samples: 40177220001, 40177220002, 40177220003

METHOD BLANK: 1771572 Matrix: Water

Associated Lab Samples: 40177220001, 40177220002, 40177220003

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Copper	ug/L	<1.1	3.6	10/23/18 06:29	
Total Hardness by 2340B	mg/L	<0.15	5.0	10/23/18 06:29	
Zinc	ug/L	8.8J	15.3	10/23/18 19:34	

LABORATORY CONTROL SAMPLE:	1771573					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Copper	ug/L	500	476	95	80-120	
Total Hardness by 2340B	mg/L		33.8			
Zinc	ug/L	500	478	96	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLICA	TE: 17715	74		1771575							_
			MS	MSD								
	40	0177220001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	19.2	500	500	491	489	94	94	75-125	0	20	
Total Hardness by 2340B	mg/L	32.5			67.8	67.6				0	20	
Zinc	ug/L	20.6	500	500	480	481	92	92	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

QC Batch: 302732 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 40177220001, 40177220002, 40177220003

METHOD BLANK: 1768186 Matrix: Water

Associated Lab Samples: 40177220001, 40177220002, 40177220003

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L <0.48 1.0 10/10/18 12:06

LABORATORY CONTROL SAMPLE: 1768187

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** 100 88.0 88 80-120 mg/L

SAMPLE DUPLICATE: 1768188

40177250001 Dup Max RPD Parameter Units Result Result RPD Qualifiers **Total Suspended Solids** 80.0 83.3 4 5 mg/L

SAMPLE DUPLICATE: 1768189

Date: 10/24/2018 11:29 AM

		40177289001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Total Suspended Solids	mg/L	3.4	4.2	21		5 R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



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QUALIFIERS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- B Analyte was detected in the associated method blank.
- R1 RPD value was outside control limits.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177220

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40177220001	SW-C1_181004	EPA 3010	303315	EPA 6020	303381
40177220002	SW-DUP_181004	EPA 3010	303315	EPA 6020	303381
40177220003	SW-C9_181004	EPA 3010	303315	EPA 6020	303381
40177220001	SW-C1_181004	SM 2540D	302732		
40177220002	SW-DUP_181004	SM 2540D	302732		
40177220003	SW-C9_181004	SM 2540D	302732		

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Cutody Signatures Present Y N NA Collector Signature Present Y N NA Bottlee Intact Y N NA						Compliance Monitoring?	Compliance	Vionitoring	e Water I	Site/Facility ID #: FMC Surface Water Monitoring	Phone: 920-496-6737 S Email: Sharon Kozicki@Foth.com
к " Z					a: C1 JET	Time Zone Collected:		State: County/City: WI /Rusk	Sie	pany	Customer Project Name/Number: Flambeau Mining Company
ed, (O) Other	Unpreserved	(C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other. Analyses	onium hydrox	(C) ammo			Address: th, WI.	Site Collection Info/Address: Flambeau Mine, Ladysmth, WI.	Siti	arakanaran da kanaran d	Copy To: Same as above
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochlonic acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (8) ammonium sulfate,	2) sulfuric ac	: (1) nitric acid, (um bisulfate, (8)	** Preservative Types: (6) methanol, (7) sodiu	** Preser (6) meth		Δ.	Sharon Kozicki	Email To: Sharc	En	in relation of the second contraction of	Report To: Sharon Kozicki
Lab Project Manager:	ve Type **	iner Preservative Type **	Contai	u /					The state of the s		Address; 2121 Innovation Drive Depere, WI 54115-5126
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Sample Preservation Receipt Form

Project #

Pace Lab # 0001 0002 0003 0004 0005 0006 0007 0008 0013 0014 0015 0016 0016 0016 0016 0018 All containers needing preservation have been checked and noted below: Xes DNo DNA AG1U AG1H AG4S Glass AG4U AG5U AG2S BG3U BP1U BP2N Lab Lot# of pH paper: 10 (5578) BP2Z **Plastic** BP3U BP3C BP3N BP3S DG9A DG9T VG9U Vials Lab Std #ID of preservation (if pH adjusted): VG9H VG9M VG9D JGFU Jars WGFU WPFU SP5T General **ZPLC** GN VOA Vials (>6mm) 12SO4 pH ≤2 Initial when SS completed: NaOH+Zn Act pH ≥9 NaOH pH ≥12 X HNO3 pH ≤2 Date/ Time: pH after adjusted 2.5/5/10 2.5/5/10 2.5/5/10 2.5/5/10 2.5 / 5 / 10 2.5/5/10 2.5/5/10 2.5/5/10 2.5 / 5 / 10 2.5/5/10 2.5/5/10 2.5/5/10 2.5 / 5 / 10 2.5/5/10 2.5 / 5 / 10 2.5/5/10 2.5/5/10 2.5/5/10 2.5/5/10 2.5 / 5 / 10 Volume (mL)

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ass BP1U	BP1U	BP1U 1 liter plastic unpres DG9A 40 ml	DG9A	amber ascorbic	JGFU	JGFU 4 oz amber jar unpres

		BP35	BP35	BG3U 250 mL clear glass unpres BP3S 250 mL plastic H2SO4 GN:	BP3S 250 mL plastic H2SO4	8P3S 250 mt plastic H2SO4	8P3S 250 mt plastic H2SO4
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Document Name: Sample Condition Upon Receipt (SCUR)

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Document Revised: 25Apr2018

1241 Bellevue Street, Green Bay, WI 54302

Document No.: F-GB-C-031-Rev.07 Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

					Project #	IIO# · A	10177220
Client Name:	014					WOH ·	PULLIZZU
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Chain of Custody Present:		Yes 1	□No I	□n/a	1.		
Chain of Custody Filled Out:		□Yes)	No I	□n/a	2. Phys #	SSL	10/6/1X
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Samples Arrived within Hold	Time:	Yes I	□No		5.		
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Short Hold Time Analysis ((<72hr):	□Yes Ì	S⊋No		6.		
Rush Turn Around Time Re	equested:	□Yes	Nο		7.		
Sufficient Volume:					8.		
For Analysis: 🎘	Yes □No MS/MSD:	□Yes	Ž √√0 l	□n/a			
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-Pace IR Containers Used	d:	□Yes [□No]	N/A			
Containers Intact:		Yes [⊒Νο		10.		
Filtered volume received for	Dissolved tests	□Yes [JNo ∫	N/A	11.		
Sample Labels match COC:		X Yes [□No (□n/a	12.		
-Includes date/time/ID/An	alysis Matrix:	~~					
Trip Blank Present:		□Yes [JNo 1	⊠ N/A	13.		
Trip Blank Custody Seals Pre	esent	□Yes [□No J	⊠ N⁄A			
Pace Trip Blank Lot # (if pure		·	***************************************				
Client Notification/ Resolut Person Contacted:			ŗ	Date/1		checked, see attacl	ned form for additional comments
Comments/ Resolution:			`	Jaici	mme.		
7000000							
Project Manager Review	:	6	'V	7	N	Date:	10/6/18



October 24, 2018

SHARON KOZICKI Foth Infrastructure & Environment, LLC 2121 Innovation Court Suite 300 De Pere, WI 54115

RE: Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

Dear SHARON KOZICKI:

Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod nolteneya

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436 Project Manager

Enclosures

cc: MARK CIARDELLI, Foth Infrastructure & Environment,





Pace Analytical www.pacelabs.com

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

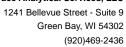
Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0





SAMPLE SUMMARY

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40177475001	SW-C1_181009	Water	10/09/18 15:00	10/11/18 10:05
40177475002	SW-DUP_181009	Water	10/09/18 15:30	10/11/18 10:05
40177475003	SW-C9_181009	Water	10/09/18 16:30	10/11/18 10:05





SAMPLE ANALYTE COUNT

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40177475001	SW-C1_181009	EPA 6020	KXS	3
		SM 2540D	KTS	1
40177475002	SW-DUP_181009	EPA 6020	KXS	3
		SM 2540D	KTS	1
40177475003	SW-C9_181009	EPA 6020	KXS	3
		SM 2540D	KTS	1

REPORT OF LABORATORY ANALYSIS



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

Method: EPA 6020

Description: 6020 MET ICPMS

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: October 24, 2018

General Information:

3 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 303315

- B: Analyte was detected in the associated method blank.
 - BLANK for HBN 303315 [MPRP/187 (Lab ID: 1771572)
 - Zinc

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: October 24, 2018

General Information:

3 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 303325

R1: RPD value was outside control limits.

DUP (Lab ID: 1771638)Total Suspended Solids

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



ANALYTICAL RESULTS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

Sample: SW-C1_181009	Lab ID:	40177475001	Collecte	d: 10/09/18	3 15:00	Received: 10/	11/18 10:05 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP	A 3010			
Copper	17.4	ug/L	3.6	1.1	1	10/16/18 08:36	10/23/18 07:36	7440-50-8	
Total Hardness by 2340B	26.9	mg/L	5.0	0.15	1	10/16/18 08:36	10/23/18 07:36		
Zinc	24.7	ug/L	15.3	4.6	1	10/16/18 08:36	10/23/18 20:36	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	540D						
Total Suspended Solids	2.0	mg/L	2.0	0.95	1		10/16/18 10:31		



ANALYTICAL RESULTS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

Sample: SW-DUP_181009	Lab ID:	40177475002	Collecte	d: 10/09/18	3 15:30	Received: 10/	/11/18 10:05 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Meth	od: EPA	A 3010			
Copper	18.0	ug/L	3.6	1.1	1	10/16/18 08:36	10/23/18 07:56	7440-50-8	
Total Hardness by 2340B	28.6	mg/L	5.0	0.15	1	10/16/18 08:36	10/23/18 07:56		
Zinc	20.3	ug/L	15.3	4.6	1	10/16/18 08:36	10/23/18 20:56	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	540D						
Total Suspended Solids	1.6J	mg/L	2.0	0.95	1		10/16/18 10:31		



ANALYTICAL RESULTS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

Sample: SW-C9_181009	Lab ID:	40177475003	Collecte	d: 10/09/18	16:30	Received: 10/	/11/18 10:05 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Meth	od: EPA	A 3010			
Copper	16.8	ug/L	3.6	1.1	1	10/16/18 08:36	10/23/18 08:03	7440-50-8	
Total Hardness by 2340B	11.0	mg/L	5.0	0.15	1	10/16/18 08:36	10/23/18 08:03		
Zinc	39.1	ug/L	15.3	4.6	1	10/16/18 08:36	10/23/18 21:03	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	540D						
Total Suspended Solids	1.8J	mg/L	2.0	0.95	1		10/16/18 10:31		



QUALITY CONTROL DATA

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

Date: 10/24/2018 11:30 AM

QC Batch: 303315 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET

Associated Lab Samples: 40177475001, 40177475002, 40177475003

METHOD BLANK: 1771572 Matrix: Water

Associated Lab Samples: 40177475001, 40177475002, 40177475003

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Copper	ug/L	<1.1	3.6	10/23/18 06:29	
Total Hardness by 2340B	mg/L	<0.15	5.0	10/23/18 06:29	
Zinc	ug/L	8.8J	15.3	10/23/18 19:34	

LABORATORY CONTROL SAMPLE: 1771573 LCS Spike LCS % Rec Parameter Units % Rec Limits Qualifiers Conc. Result Copper 500 476 95 80-120 ug/L Total Hardness by 2340B mg/L 33.8 Zinc ug/L 500 478 96 80-120

MATRIX SPIKE & MATRIX SPI	KE DUPLICA	TE: 17715	74		1771575							
			MS	MSD								
	40	0177220001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	19.2	500	500	491	489	94	94	75-125	0	20	
Total Hardness by 2340B	mg/L	32.5			67.8	67.6				0	20	
Zinc	ug/L	20.6	500	500	480	481	92	92	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

QC Batch: 303325 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 40177475001, 40177475002, 40177475003

METHOD BLANK: 1771635 Matrix: Water

Associated Lab Samples: 40177475001, 40177475002, 40177475003

Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L <0.48 1.0 10/16/18 10:31

LABORATORY CONTROL SAMPLE: 1771636

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** 100 102 102 80-120 mg/L

SAMPLE DUPLICATE: 1771637

40177484001 Dup Max RPD RPD Units Result Result Qualifiers Parameter **Total Suspended Solids** 2480 2470 0 5 mg/L

SAMPLE DUPLICATE: 1771638

Date: 10/24/2018 11:30 AM

40177489002 Dup Max Parameter Units Result Result RPD **RPD** Qualifiers Total Suspended Solids mg/L 187 220 16 5 R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

QUALIFIERS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- B Analyte was detected in the associated method blank.
- R1 RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40177475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40177475001	SW-C1_181009	EPA 3010	303315	EPA 6020	303381
40177475002	SW-DUP_181009	EPA 3010	303315	EPA 6020	303381
40177475003	SW-C9_181009	EPA 3010	303315	EPA 6020	303381
40177475001	SW-C1_181009	SM 2540D	303325		
40177475002	SW-DUP_181009	SM 2540D	303325		
40177475003	SW-C9_181009	SM 2540D	303325		

Table #: Acctnum: Template Prelogin: PM: PB:
Samples received via: FEDEX UPS Client Courier MTJ Date/Time: MTJ
Lab Tracking #:
CLOST HOLDS BRESEART (273 bolt)
etai
s &
Hard
dnes
Analyses
(C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (3) zirc accuae, (3) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate,
Container Preservative Type **
ALL SHADED AREAS are for LAB USE ONLY
LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number of

Sample Preservation Receipt Form 10 101/18

Project # PHST YDINTHIS

Client Name:

006 007 009 010 Pace Lab# 003 004 005 002 013 014 015 016 017 22 018 019 020 AG1U AG1H AG4S Glass AG4U AG5U AG2S BG3U BP1U BP2N Lab Lot# of pH paper: , カルらつ7 S/ BP2Z Plastic BP3U BP3C BP3N BP3S DG9A DG9T Lab Std #ID of preservation (if pH adjusted): VG9U Vials VG9H VG9M VG9D **JGFU** Jars WGFU WPFU SP5T General **ZPLC** GN VOA Vials (>6mm) H2SO4 pH ≤2 Initial when/ completed/ NaOH+Zn Act pH ≥9 NaOH pH ≥12 **4**... HNO3 pH ≤2 Date/ Time: pH after adjusted 2.5/5/10 2.5/5/10 2.5/5/10 2.5/5/10 2.5/5/10 25/5/10 2.5 / 5 / 10 2.5/5/10 2.5 / 5 / 10 2.5/5/10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5/5/10 2.5/5/10 2.5 / 5 / 10 2.5/5/10 2.5 / 5 / 10 Volume (mL)

Excer	Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other.	orm, TOC,	TOX, TOH, O&G, WI DRO, Phenolic	cs, Other	Headspace in VOA Vial	s (>6mm) :	Headspace in VOA Vials (>6mm): aYes aNo WIA *If yes look in headspace column	umn m
				Appor	ngga din millamber ascorbic	JGFU	JGFU 4 oz amber jar unpres	
AG1U	AG1U 1 liter amber glass	8710	BP10 I liter plastic unpres	0000	40 lift aniber ascerors		A LI LINE CONTROL	
2	ACTU 1 liter amber place HC1	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFO	Wuru 4 02 Cledi Jai dispress	
2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		FOO me plantic NaOH Znort	√ 691	VG9U 40 ml clear vial unpres	¥₽FU	WPFU 4 oz piastic jar unpres	
AG45	AG45 125 mL amper glass naso4	27.70						
700	Acail 170 ml amber place unnies	BP3U	250 mL plastic unpres	VG9H	40 mL clear viai nct			
A CHO	בבט ווור מוווסכו פומסס מווסיכס				An and Alexander Mapple	1505	SPST 120 ml plastic Na Thiosulfate	
AG5U	AG5U 100 mL amber glass unpres	врзс	250 mL plastic NaOH	VGSIVI	ACCION NOT MICON			
AG2S	AG2S 500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	VG9D 40 mL clear vial DI	באני.	ZPLC Ziproc odg	
RG2!	RC311 750 ml clear glass undres	BP35	BP35 250 mL plastic H2SO4			GN:		

Page 1 of

Pace Analytical

Document Name: Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018 Issuing Authority:

1241 Bellevue Street, Green Bay, WI 54302

Document No.: F-GB-C-031-Rev.07

Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

	Project #:
Client Name:	Wolfes WO#:40177475
Courier: CS Logistics Food Ex Speeded TUPS	Waltco WU# · 401//4/5
Client Pace Other:	
Tracking #: 12 626 886 01 9250 285)	
Custody Seal on Cooler/Box Present: 🦵 yes ブ no 🛮 Seals inta	ct: T yes T no
Oubtout con annihim in a fi	ct: Toyes To no
Packing Material:	et Blue Dry None Samples on ice, cooling process has begun
	Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 2 /Corr: 2	Il Tissue is Frozen: Tyes Tno Person examining contents:
Temp Blank Present: 1 yes y 110	Date: 10/11/8
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C.	Initials:
Chain of Custody Present: ✓ Yes ☐No ☐t	VA 1.
Chain of Custody Filled Out: ☐Yes ☐No ☐	NA 2. per #
Chain of Custody Relinquished:	NA 3. grated 10/11/10/1/1
Sampler Name & Signature on COC: ✓Yes ☐No ☐!	N/A 4.
Samples Arrived within Hold Time: ☐Yes ☐No	5.
- VOA Samples frozen upon receipt □Yes □No	Date/Time:
Short Hold Time Analysis (<72hr): ✓ Yes ☐No	6.
Rush Turn Around Time Requested: □Yes □No	7.
Sufficient Volume:	8.
For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐	N/A
Correct Containers Used: ✓ Yes □No	9.
-Pace Containers Used: ∠Yes □No □	N/A
-Pace IR Containers Used: □Yes □No ☑	Ń/A
Containers Intact: ☐Yes ☐No	10.
Filtered volume received for Dissolved tests	N/A 11.
Sample Labels match COC:	N/A 12.
-Includes date/time/ID/Analysis Matrix:	
Trip Blank Present: □Yes □No 및	N/A 13.
Trip Blank Custody Seals Present □Yes □No □	A/A
Pace Trip Blank Lot # (if purchased):	If checked, see attached form for additional comments
Client Notification/ Resolution: Person Contacted: Comments/ Resolution:	ate/Time:
Project Manager Review: Rmc for	Tw Date: 101/1/18



November 26, 2018

Nick Glander Foth Infrastructure & Environment, LLC 2121 Innovation Court Suite 300 De Pere, WI 54115

RE: Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

Dear Nick Glander:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod noltemeyor

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436 Project Manager

Enclosures

cc: MARK CIARDELLI, Foth Infrastructure & Environment, LLC SHARON KOZICKI, Foth Infrastructure & Environment, LLC





Pace Analytical www.pacelabs.com

1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40179261001	SW-C1_181105	Water	11/05/18 15:00	11/08/18 11:05
40179261002	SW-DUP_181105	Water	11/05/18 15:30	11/08/18 11:05
40179261003	SW-C9 181105	Water	11/05/18 17:00	11/08/18 11:05





SAMPLE ANALYTE COUNT

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40179261001	SW-C1_181105	EPA 6020	KXS	3
		SM 2540D	KTS	1
40179261002	SW-DUP_181105	EPA 6020	KXS	3
		SM 2540D	KTS	1
40179261003	SW-C9_181105	EPA 6020	KXS	3
		SM 2540D	KTS	1





PROJECT NARRATIVE

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

Method: EPA 6020

Description: 6020 MET ICPMS

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: November 26, 2018

General Information:

3 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 306476

- B: Analyte was detected in the associated method blank.
 - BLANK for HBN 306476 [MPRP/190 (Lab ID: 1792458)
 - Zinc

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Date: November 26, 2018

General Information:

3 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



ANALYTICAL RESULTS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

Sample: SW-C1_181105	Lab ID:	40179261001	Collecte	d: 11/05/18	15:00	Received: 11/	08/18 11:05 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP	A 3010			
Copper	10.2	ug/L	3.6	1.1	1	11/14/18 06:36	11/20/18 09:17	7440-50-8	
Total Hardness by 2340B	24.9	mg/L	5.0	0.15	1	11/14/18 06:36	11/20/18 09:17		
Zinc	20.5	ug/L	15.3	4.6	1	11/14/18 06:36	11/20/18 09:17	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	540D						
Total Suspended Solids	2.0	mg/L	2.0	0.95	1		11/08/18 18:15		



ANALYTICAL RESULTS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

Sample: SW-DUP_181105	Lab ID:	40179261002	Collecte	d: 11/05/18	15:30	Received: 11/	08/18 11:05 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP	A 3010			
Copper	11.0	ug/L	3.6	1.1	1	11/14/18 06:36	11/20/18 09:24	7440-50-8	
Total Hardness by 2340B	26.0	mg/L	5.0	0.15	1	11/14/18 06:36	11/20/18 09:24		
Zinc	20.9	ug/L	15.3	4.6	1	11/14/18 06:36	11/20/18 09:24	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	40D						
Total Suspended Solids	2.0	mg/L	2.0	0.95	1		11/08/18 18:16		



ANALYTICAL RESULTS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

Sample: SW-C9_181105	Lab ID:	40179261003	Collecte	d: 11/05/18	17:00	Received: 11/	08/18 11:05 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020 Prepa	ration Metho	od: EP	A 3010			
Copper	6.6	ug/L	3.6	1.1	1	11/14/18 06:36	11/20/18 09:31	7440-50-8	
Total Hardness by 2340B	12.3	mg/L	5.0	0.15	1	11/14/18 06:36	11/20/18 09:31		
Zinc	18.6	ug/L	15.3	4.6	1	11/14/18 06:36	11/20/18 09:31	7440-66-6	В
2540D Total Suspended Solids	Analytical	Method: SM 25	540D						
Total Suspended Solids	1.0J	mg/L	2.0	0.95	1		11/08/18 18:16		



QUALITY CONTROL DATA

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

Date: 11/26/2018 09:34 AM

QC Batch: 306476 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET

Associated Lab Samples: 40179261001, 40179261002, 40179261003

METHOD BLANK: 1792458 Matrix: Water

Associated Lab Samples: 40179261001, 40179261002, 40179261003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.1	3.6	11/20/18 07:14	
Total Hardness by 2340B	mg/L	<0.15	5.0	11/21/18 05:05	
Zinc	ua/L	5.7J	15.3	11/20/18 07:14	

LABORATORY CONTROL SAMPLE:	1792459					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Copper	ug/L	500	483	97	80-120	
Total Hardness by 2340B	mg/L		34.2			
Zinc	ug/L	500	506	101	80-120	

MATRIX SPIKE & MATRIX SPI	KE DUPLICA	TE: 17924	60		1792461							
			MS	MSD								
	40	0178919002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	9.6	500	500	470	473	92	93	75-125	1	20	
Total Hardness by 2340B	mg/L	217			255	248				3	20	
Zinc	ug/L	56.0	500	500	542	547	97	98	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

QC Batch: 305990 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 40179261001, 40179261002, 40179261003

METHOD BLANK: 1788789 Matrix: Water

Associated Lab Samples: 40179261001, 40179261002, 40179261003

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L <0.48 1.0 11/08/18 18:15

LABORATORY CONTROL SAMPLE: 1788790

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 100 **Total Suspended Solids** 100 100 80-120 mg/L

SAMPLE DUPLICATE: 1788791

Date: 11/26/2018 09:34 AM

40179261001 Dup Max RPD RPD Parameter Units Result Result Qualifiers **Total Suspended Solids** 2.0 2.0 0 5 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

QUALIFIERS

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 11/26/2018 09:34 AM

B Analyte was detected in the associated method blank.



Green Bay, WI 54302 (920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FLAMBEAU MINING COMPANY

Pace Project No.: 40179261

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40179261001	SW-C1_181105	EPA 3010	306476	EPA 6020	306619
40179261002	SW-DUP_181105	EPA 3010	306476	EPA 6020	306619
40179261003	SW-C9_181105	EPA 3010	306476	EPA 6020	306619
40179261001	SW-C1_181105	SM 2540D	305990		
40179261002	SW-DUP_181105	SM 2540D	305990		
40179261003	SW-C9_181105	SM 2540D	305990		

Pace Analytical * Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields											LAB US	E ONLY- Affi			bel Here o Number F		Vorkorder Numb 4017		14 of 16
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Report To: Sharon Kozick	enementamo viernea escapo de sectoro escapo	CLASSIC CONTRACTOR CON	Email To:	Sharo	n.Kozic	ki@Fo	th.co	m	** Pr	reserv							/droxide, (5) zinc ac B) ammonium sulfa		
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Customer Sample ID	Matrix *	Comp / Grab	Compos	ted (or ite Start)	-	site End	Res CI	# of Ctns	Total	Metals					Lab	Sample #	Comments:	2 m 11)	XII8
SW-C1_181105	OT/Surface Water	Grab	Date 11-5-2018	Time 1500	Date	Time	***************************************	2	∇	Š	+-		++		100			Jerni	W.
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Sample Preservation Receipt Form

Cli	Client Name: FOTH Project # 40/79761																																
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Pace Lab#	AG10	AG1H	AG4S	AG4U	AGSU	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	ВРЗС	BP3N	BP3S	DG9A	DG9T	VG9U	V G9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	Q Q	VOA Vials (>6mm)	H2SO4 pH <2	NaOH+Zn Act pH	NaOH pH ≥12	HNO3 pH <2	pH after adjusted	(mL)
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Pace Analytical

Document Name: Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018

1241 Bellevue Street, Green Bay, WI 54302

Document No.: F-GB-C-031-Rev.07 Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

			Project #:		
Client Name: FOTH	*			MO#: 4	0179261
Courier: CS Logistics Fed Ex Speede	e Kup	s F v	Valtco	MOH	
Client Pace Other:					
Tracking #: 17 E 26 988 01	9731	742=	}	40179261	# [
Custody Seal on Cooler/Box Present: Tyes 🌣	≥no Sea	ls intact	: yes no		
Custody Seal on Samples Present: 🦵 yes 🚧			yes I no		
Packing Material: Bubble Wrap Bubble	-		-		
Thermometer Used SR AH	Type of Ic	e: Wet	Blue Dry None	Samples on	ice, cooling process has begun
Cooler Temperature Uncorr: 2. S ICorr:	·····		T		
Temp Blank Present: yes // no Temp should be above freezing to 6°C.	5 101	logical	Tissue is Frozen:	yesi no	Person examining contents:
Biota Samples may be received at ≤ 0°C.					Initials:
Chain of Custody Present:	W es □N	DN/A	1.		
Chain of Custody Filled Out:	ØYes □No	DN/A	2.		
Chain of Custody Relinquished:	Yes 🗆 No	o □N/A	3.		
Sampler Name & Signature on COC:	Mary Es □No	□N/A	4.		
Samples Arrived within Hold Time:	Øyes □No	,	5.		
- VOA Samples frozen upon receipt	☐Yes ☐No)	Date/Time:		
Short Hold Time Analysis (<72hr):	TAYes □No)	6.		
Rush Turn Around Time Requested:	□Yes YANG)	7.		
Sufficient Volume:		-	8.		
For Analysis: ဩVes □No MS/MSD:	□Yes Kawa	□N/A			
Correct Containers Used:	VØYes □No)	9.		
-Pace Containers Used:	Yes □No	□N/A			
-Pace IR Containers Used:	□Yes □No	\ 92 N/A			
Containers Intact:	Z Yes □No	1	10.		
Filtered volume received for Dissolved tests	□Yes □No	XI)V/A	11,		
Sample Labels match COC:	Yes 🗆 No	□n/a	12.		
-Includes date/time/ID/Analysis Matrix:	W				
Frip Blank Present:	□Yes □No	ALADA	13.		
Trip Blank Custody Seals Present	□Yes □No	X AVA			
Pace Trip Blank Lot # (if purchased):		(
Client Notification/ Resolution:		.		hecked, see attache	ed form for additional comments
Person Contacted: Comments/ Resolution:		_ Date/	I ime:		
		 			
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Project Manager Review:	10 ((ι		Date:	11/8118