



Wisconsin State Laboratory of Hygiene
 2601 Agriculture Drive, PO Box 7996
 Madison, WI 53707-7996
 (800)442-4618 - FAX (608)224-6213
<http://www.slh.wisc.edu>

Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341001

Report To:
 ZANA SJIAN
 WISCONSIN DNR

Invoice To:
 ZANA SJIAN
 WISCONSIN DNR

Customer ID: WT093

Field #: TREMP@ARCADIA
 Project No:
 Collection End: 5/23/2018 12:55:00 PM
 Collection Start:
 Collected By: CAMILLE BRUHN
 Date Received: 5/24/2018
 Date Reported: 6/8/2018
 Sample Reason:

ID#:
 Sample Location:
 Sample Description: TREMPPEALEAU RIVER X-619206 Y-4901212
 Sample Type: SU-SURFACE WATER
 Waterbody:
 Point or Outfall:
 Sample Depth: 0.5F
 Program Code:
 Region Code:
 County:

Sample Comments

For the dissolved metals tests, the sample was filtered and preserved at the lab.
 Analyzed past the 15 minutes holding time: Method SM4500-H+B analyzed on 05/24/18 1330
 NITRIC ACID USED IN FIELD WAS EXPIRED.

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18 Analysis Date 05/25/18					
TOTAL SUSPENDED SOLIDS	SM2540D	52.3	mg/L	3.3	3.3
Prep Date 05/24/18 Analysis Date 05/24/18					
Chloride	SM4500-CL-E	18.8	mg/L	1.00	3.20
Prep Date 05/24/18 Analysis Date 05/24/18					
Comments: Analyzed past the 15 minutes holding time.					
pH	SM4500-H+B	7.83	SU	1.00	1.00
Prep Date 05/25/18 Analysis Date 05/25/18					
Turbidity	SM2130B	33.9	NTU	0.100	0.100



Laboratory Report

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Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341001

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/29/18	Analysis Date 05/30/18				
Phosphorus	EPA 365.1	0.413	mg/L	0.00500	0.0160

Inorganic Chemistry, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/25/18				
Ammonia	EPA 350.1	0.0412F	mg/L	0.0150	0.0480

Metals, Total Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	670	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	1.03F	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	3.15	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	4.45F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	5.94F	ug/L	5.00	15.0
Calcium	EPA 200.7	30.1	mg/L	0.100	0.300
Magnesium	EPA 200.7	12.3	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	126	mg/L	0.660	2.00

Environmental Health Division

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WSLH Sample: 384341001

Metals, Total

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Metals, Total, Low Level

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/24/18				
Total Chromium	Hi Res ICPMS	0.453	ug/L	0.00150	0.0232
Chromium (VI)	Hi Res ICPMS	0.0914	ug/L	0.0122	0.0232
% Chromium (VI)	Hi Res ICPMS	20.2	%		

Metals, Dissolved Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	14.8F	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	ND	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	3.40F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	ND	ug/L	5.00	15.0
Calcium	EPA 200.7	29.3	mg/L	0.100	0.300
Magnesium	EPA 200.7	12.4	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	124	mg/L	0.660	2.00

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WSLH Sample: 384341001

Metals, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Field Data

Analyte	Analysis Method	Result	Units
Sample Temp-field (C)	Field Data	15.72	Centigrade
DO field (mg/L)	Field Data	9.29	mg/L
% Saturation	Field Data	95.3	%
pH (SU) field	Field Data	7.61	SU
Cloud Cover %	Field Data	100	%
Cond-fld(uS/CM@25C)	Field Data	281	UMHOS/CM
Transparency Tube (cm)	Field Data	28	CM

List of Abbreviations:

LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>

Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

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The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.



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Environmental Health Division

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NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341001

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270



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WSLH Sample: 384341002

Report To:
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 WISCONSIN DNR

Invoice To:
 ZANA SJIAN
 WISCONSIN DNR

Customer ID: WT093

Field #: TREMP@DODGE
 Project No:
 Collection End: 5/23/2018 12:26:00 PM
 Collection Start:
 Collected By: CAMILLE BRUHN
 Date Received: 5/24/2018
 Date Reported: 6/8/2018
 Sample Reason:

ID#:
 Sample Location:
 Sample Description: X-651729 Y-4887538
 Sample Type: SU-SURFACE WATER
 Waterbody:
 Point or Outfall:
 Sample Depth: 0.5F
 Program Code:
 Region Code:
 County:

Sample Comments

NITRIC ACID USED IN FIELD WAS EXPIRED.

For the dissolved metals tests, the sample was filtered and preserved at the lab.

Analyzed past the 15 minutes holding time: Method SM4500-H+B analyzed on 05/24/18 1330

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18 Analysis Date 05/25/18					
TOTAL SUSPENDED SOLIDS	SM2540D	86.0	mg/L	5.0	5.0
Prep Date 05/24/18 Analysis Date 05/24/18					
Chloride	SM4500-CL-E	20.5	mg/L	1.00	3.20
Prep Date 05/24/18 Analysis Date 05/24/18					
Comments:					
Analyzed past the 15 minutes holding time.					
pH	SM4500-H+B	7.96	SU	1.00	1.00
Prep Date 05/25/18 Analysis Date 05/25/18					
Turbidity	SM2130B	64.1	NTU	0.100	0.100
Prep Date 05/29/18 Analysis Date 05/30/18					
Phosphorus	EPA 365.1	0.547	mg/L	0.00500	0.0160

Environmental Health Division

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EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341002

Inorganic Chemistry, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/25/18				
Ammonia	EPA 350.1	0.0213F	mg/L	0.0150	0.0480

Metals, Total Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	1380	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	2.02F	ug/L	1.00	3.00
Copper	EPA 200.7	7.48F	ug/L	5.00	15.0
Iron	EPA 200.7	5.57	mg/L	0.100	0.300
Lead	EPA 200.7	4.63F	ug/L	3.00	10.0
Nickel	EPA 200.7	5.79F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	7.63F	ug/L	5.00	15.0
Calcium	EPA 200.7	36.9	mg/L	0.100	0.300
Magnesium	EPA 200.7	15.9	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	157	mg/L	0.660	2.00

Metals, Total

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080



Laboratory Report

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Environmental Health Division

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NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341002

Metals, Total, Low Level

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/24/18				
Total Chromium	Hi Res ICPMS	1.44	ug/L	0.00150	0.0232
Chromium (VI)	Hi Res ICPMS	0.0939	ug/L	0.0122	0.0232
% Chromium (VI)	Hi Res ICPMS	6.52	%		

Metals, Dissolved Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	12.4F	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	ND	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	2.29F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	ND	ug/L	5.00	15.0
Calcium	EPA 200.7	37.6	mg/L	0.100	0.300
Magnesium	EPA 200.7	16.1	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	160	mg/L	0.660	2.00

Metals, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341002

Field Data

Analyte	Analysis Method	Result	Units
Sample Temp-field (C)	Field Data	15.84	Centigrade
DO field (mg/L)	Field Data	9.21	mg/L
% Saturation	Field Data	94.8	%
pH (SU) field	Field Data	7.70	SU
Cloud Cover %	Field Data	90	%
Cond-fld(uS/CM@25C)	Field Data	327	UMHOS/CM
Transparency Tube (cm)	Field Data	16.0	CM

List of Abbreviations:

LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>

Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

Results relate only to the items tested.

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Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262
 Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
 Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282
 Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269
 Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251
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Laboratory Report

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Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341003

Report To:
 ZANA SJIAN
 WISCONSIN DNR

Invoice To:
 ZANA SJIAN
 WISCONSIN DNR

Customer ID: WT093

Field #: LD6
 Project No:
 Collection End: 5/23/2018 11:21:00 AM
 Collection Start:
 Collected By: CAMILLE BRUHN
 Date Received: 5/24/2018
 Date Reported: 6/8/2018
 Sample Reason:

ID#:
 Sample Location:
 Sample Description: X-625241 Y-4873056
 Sample Type: SU-SURFACE WATER
 Waterbody:
 Point or Outfall:
 Sample Depth:
 Program Code:
 Region Code:
 County:

Sample Comments

NITRIC ACID USED IN FIELD WAS EXPIRED.

For the dissolved metals tests, the sample was filtered and preserved at the lab.

Analyzed past the 15 minutes holding time: Method SM4500-H+B analyzed on 05/24/18 1330

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18 Analysis Date 05/25/18					
TOTAL SUSPENDED SOLIDS	SM2540D	26.0	mg/L	5.0	5.0
Prep Date 05/24/18 Analysis Date 05/24/18					
Chloride	SM4500-CL-E	19.0	mg/L	1.00	3.20
Prep Date 05/24/18 Analysis Date 05/24/18					
Comments: Analyzed past the 15 minutes holding time.					
pH	SM4500-H+B	8.32	SU	1.00	1.00
Prep Date 05/25/18 Analysis Date 05/25/18					
Turbidity	SM2130B	21.5	NTU	0.100	0.100
Prep Date 05/29/18 Analysis Date 05/30/18					
Phosphorus	EPA 365.1	0.141	mg/L	0.00500	0.0160

Environmental Health Division

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NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341003

Inorganic Chemistry, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/25/18				
Ammonia	EPA 350.1	0.0163F	mg/L	0.0150	0.0480

Metals, Total Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	339	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	1.20	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	3.01F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	ND	ug/L	5.00	15.0
Calcium	EPA 200.7	55.9	mg/L	0.100	0.300
Magnesium	EPA 200.7	22.1	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	230	mg/L	0.660	2.00

Metals, Total

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Environmental Health Division

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WSLH Sample: 384341003

Metals, Total, Low Level

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/24/18				
Total Chromium	Hi Res ICPMS	0.537	ug/L	0.00150	0.0232
Chromium (VI)	Hi Res ICPMS	0.0796	ug/L	0.0122	0.0232
% Chromium (VI)	Hi Res ICPMS	14.8	%		

Metals, Dissolved Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	12.7F	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	ND	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	2.36F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	ND	ug/L	5.00	15.0
Calcium	EPA 200.7	57.6	mg/L	0.100	0.300
Magnesium	EPA 200.7	22.7	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	237	mg/L	0.660	2.00

Metals, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341003

Field Data

Analyte	Analysis Method	Result	Units
Sample Temp-field (C)	Field Data	17.95	Centigrade
DO field (mg/L)	Field Data	9.19	mg/L
% Saturation	Field Data	98.8	%
pH (SU) field	Field Data	8.21	SU
Cloud Cover %	Field Data	50	%
Cond-fld(uS/CM@25C)	Field Data	469	UMHOS/CM
Transparency Tube (cm)	Field Data	29.0	CM

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WSLH Sample: 384341004

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 WISCONSIN DNR

Invoice To:
 ZANA SJIAN
 WISCONSIN DNR

Customer ID: WT093

Field #: PERROT
 Project No:
 Collection End: 5/23/2018 10:49:00 AM
 Collection Start:
 Collected By: CAMILLE BRUHN
 Date Received: 5/24/2018
 Date Reported: 6/8/2018
 Sample Reason:

ID#:
 Sample Location:
 Sample Description: TREMPEALEAU RIVER X-622126 Y-4875013
 Sample Type: SU-SURFACE WATER
 Waterbody:
 Point or Outfall:
 Sample Depth: 0.5F
 Program Code:
 Region Code:
 County:

Sample Comments

NITRIC ACID USED IN FIELD WAS EXPIRED.

For the dissolved metals tests, the sample was filtered and preserved at the lab.

Analyzed past the 15 minutes holding time: Method SM4500-H+B analyzed on 05/24/18 1330

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18 Analysis Date 05/25/18					
TOTAL SUSPENDED SOLIDS	SM2540D	133	mg/L	5.0	5.0
Prep Date 05/24/18 Analysis Date 05/24/18					
Chloride	SM4500-CL-E	25.0	mg/L	1.00	3.20
Prep Date 05/24/18 Analysis Date 05/24/18					
Comments: Analyzed past the 15 minutes holding time.					
pH	SM4500-H+B	8.04	SU	1.00	1.00
Prep Date 05/25/18 Analysis Date 05/25/18					
Turbidity	SM2130B	147	NTU	0.100	0.100

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341004

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/29/18	Analysis Date 05/30/18				
Phosphorus	EPA 365.1	0.873	mg/L	0.00500	0.0160

Inorganic Chemistry, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/25/18				
Ammonia	EPA 350.1	0.0396F	mg/L	0.0150	0.0480

Metals, Total Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	2420	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	4.13	ug/L	1.00	3.00
Copper	EPA 200.7	14.0F	ug/L	5.00	15.0
Iron	EPA 200.7	10.4	mg/L	0.100	0.300
Lead	EPA 200.7	7.98F	ug/L	3.00	10.0
Nickel	EPA 200.7	7.39	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	7.48F	ug/L	5.00	15.0
Calcium	EPA 200.7	42.1	mg/L	0.100	0.300
Magnesium	EPA 200.7	17.9	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	179	mg/L	0.660	2.00



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341004

Metals, Total

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Metals, Total, Low Level

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/24/18				
Total Chromium	Hi Res ICPMS	4.67	ug/L	0.00150	0.0232
Chromium (VI)	Hi Res ICPMS	0.122	ug/L	0.0122	0.0232
% Chromium (VI)	Hi Res ICPMS	2.61	%		

Metals, Dissolved Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	ND	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	ND	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	2.63F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	ND	ug/L	5.00	15.0
Calcium	EPA 200.7	41.0	mg/L	0.100	0.300
Magnesium	EPA 200.7	17.8	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	175	mg/L	0.660	2.00

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341004

Metals, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Field Data

Analyte	Analysis Method	Result	Units
Sample Temp-field (C)	Field Data	15.74	Centigrade
DO field (mg/L)	Field Data	8.92	mg/L
% Saturation	Field Data	91.4	%
pH (SU) field	Field Data	7.82	SU
Cloud Cover %	Field Data	40	%
Cond-fld(uS/CM@25C)	Field Data	356	UMHOS/CM
Transparency Tube (cm)	Field Data	5.0	CM

List of Abbreviations:

LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

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Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

Results relate only to the items tested.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341004

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341005

Inorganic Chemistry, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/25/18				
Ammonia	EPA 350.1	0.0264F	mg/L	0.0150	0.0480

Metals, Total Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	1670	ug/L	10.0	30.0
SPIKE QC EXCEEDED. SPIKE RECOVERY: 196%					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	2.54F	ug/L	1.00	3.00
Copper	EPA 200.7	8.49F	ug/L	5.00	15.0
Iron	EPA 200.7	6.65	mg/L	0.100	0.300
Lead	EPA 200.7	4.63F	ug/L	3.00	10.0
Nickel	EPA 200.7	6.00	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	7.48F	ug/L	5.00	15.0
Calcium	EPA 200.7	40.3	mg/L	0.100	0.300
Magnesium	EPA 200.7	17.8	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	174	mg/L	0.660	2.00

Metals, Total

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341005

Metals, Total, Low Level

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/24/18				
Total Chromium	Hi Res ICPMS	1.84	ug/L	0.00150	0.0232
Chromium (VI)	Hi Res ICPMS	0.0935	ug/L	0.0122	0.0232
% Chromium (VI)	Hi Res ICPMS	5.08	%		

Metals, Dissolved Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	19.5F	ug/L	10.0	30.0
SPIKE QC EXCEEDED. SPIKE RECOVERY: 196%					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	ND	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	2.25F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	ND	ug/L	5.00	15.0
Calcium	EPA 200.7	39.6	mg/L	0.100	0.300
Magnesium	EPA 200.7	17.6	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	171	mg/L	0.660	2.00

Metals, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341005

Field Data

Analyte	Analysis Method	Result	Units
Sample Temp-field (C)	Field Data	16.62	Centigrade
DO field (mg/L)	Field Data	9.73	mg/L
% Saturation	Field Data	101.8	%
pH (SU) field	Field Data	7.89	SU
Cloud Cover %	Field Data	80	%
Cond-fld(uS/CM@25C)	Field Data	342	UMHOS/CM
Transparency Tube (cm)	Field Data	14.0	CM

List of Abbreviations:

LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>

Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

Results relate only to the items tested.

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The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341006

Report To:
ZANA SJIAN
WISCONSIN DNR

Invoice To:
ZANA SJIAN
WISCONSIN DNR

Customer ID: WT093

Field #: POKER REFERENCE
Project No:
Collection End: 5/23/2018 2:26:00 PM
Collection Start:
Collected By: CAMILLE BRUHN
Date Received: 5/24/2018
Date Reported: 6/8/2018
Sample Reason:

ID#:
Sample Location:
Sample Description: POKER COULEE CREEK X 629892 Y-
4910534
Sample Type: SU-SURFACE WATER
Waterbody:
Point or Outfall:
Sample Depth: 0.5F
Program Code:
Region Code:
County:

Sample Comments

NITRIC ACID USED IN FIELD WAS EXPIRED.

For the dissolved metals tests, the sample was filtered and preserved at the lab.

Analyzed past the 15 minutes holding time: Method SM4500-H+B analyzed on 05/24/18 1330

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18 Analysis Date 05/25/18					
TOTAL SUSPENDED SOLIDS	SM2540D	16.0	mg/L	2.5	2.5
Prep Date 05/24/18 Analysis Date 05/24/18					
Chloride	SM4500-CL-E	9.04	mg/L	1.00	3.20
Prep Date 05/24/18 Analysis Date 05/24/18					
Comments: Analyzed past the 15 minutes holding time.					
pH	SM4500-H+B	8.03	SU	1.00	1.00
Prep Date 05/25/18 Analysis Date 05/25/18					
Turbidity	SM2130B	9.74	NTU	0.100	0.100

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341006

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/29/18	Analysis Date 05/30/18				
Phosphorus	EPA 365.1	0.259	mg/L	0.00500	0.0160

Inorganic Chemistry, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/25/18				
Ammonia	EPA 350.1	0.0197F	mg/L	0.0150	0.0480

Metals, Total Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	215	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	0.443	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	ND	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	ND	ug/L	5.00	15.0
Calcium	EPA 200.7	27.0	mg/L	0.100	0.300
Magnesium	EPA 200.7	11.4	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	114	mg/L	0.660	2.00



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341006

Metals, Total

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Metals, Total, Low Level

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/24/18				
Total Chromium	Hi Res ICPMS	0.208	ug/L	0.00150	0.0232
Chromium (VI)	Hi Res ICPMS	0.147	ug/L	0.0122	0.0232
% Chromium (VI)	Hi Res ICPMS	70.7	%		

Metals, Dissolved Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	11.8F	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	ND	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	ND	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	ND	ug/L	5.00	15.0
Calcium	EPA 200.7	25.5	mg/L	0.100	0.300
Magnesium	EPA 200.7	10.8	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	108	mg/L	0.660	2.00



Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341006

Metals, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Field Data

Analyte	Analysis Method	Result	Units
Sample Temp-field (C)	Field Data	15.92	Centigrade
DO field (mg/L)	Field Data	10.04	mg/L
% Saturation	Field Data	103.3	%
pH (SU) field	Field Data	7.7	SU
Cloud Cover %	Field Data	100	%
Cond-fld(uS/CM@25C)	Field Data	216	UMHOS/CM
Transparency Tube (cm)	Field Data	86.0	CM

List of Abbreviations:

LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

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 Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341006

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

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Laboratory Report

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Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341007

Report To:
ZANA SJIAN
WISCONSIN DNR

Invoice To:
ZANA SJIAN
WISCONSIN DNR

Customer ID: WT093

Field #: TREMP@Q
Project No:
Collection End: 5/23/2018 2:53:00 PM
Collection Start:
Collected By: CAMILLE BRUHN
Date Received: 5/24/2018
Date Reported: 6/8/2018
Sample Reason:

ID#:
Sample Location:
Sample Description: X-625991 Y-4911901
Sample Type: SU-SURFACE WATER
Waterbody:
Point or Outfall:
Sample Depth: 0.5F
Program Code:
Region Code:
County:

Sample Comments

For the dissolved metals tests, the sample was filtered and preserved at the lab.

Analyzed past the 15 minutes holding time: Method SM4500-H+B analyzed on 05/24/18 1330

NITRIC ACID USED IN FIELD WAS EXPIRED.

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18 Analysis Date 05/25/18					
TOTAL SUSPENDED SOLIDS	SM2540D	26.7	mg/L	4.8	4.8
Prep Date 05/24/18 Analysis Date 05/24/18					
Chloride	SM4500-CL-E	16.1	mg/L	1.00	3.20
Prep Date 05/24/18 Analysis Date 05/24/18					
Comments: Analyzed past the 15 minutes holding time.					
pH	SM4500-H+B	7.72	SU	1.00	1.00
Prep Date 05/25/18 Analysis Date 05/25/18					
Turbidity	SM2130B	20.1	NTU	0.100	0.100
Prep Date 05/29/18 Analysis Date 05/30/18					
Phosphorus	EPA 365.1	0.349	mg/L	0.00500	0.0160

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341007

Inorganic Chemistry, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/25/18				
Ammonia	EPA 350.1	0.112	mg/L	0.0150	0.0480

Metals, Total Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	365	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	2.24	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	5.28F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	13.4F	ug/L	5.00	15.0
Calcium	EPA 200.7	24.3	mg/L	0.100	0.300
Magnesium	EPA 200.7	9.79	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	101	mg/L	0.660	2.00

Metals, Total

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341007

Metals, Total, Low Level

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/24/18				
Total Chromium	Hi Res ICPMS	0.420	ug/L	0.00150	0.0232
Chromium (VI)	Hi Res ICPMS	0.0956	ug/L	0.0122	0.0232
% Chromium (VI)	Hi Res ICPMS	22.8	%		

Metals, Dissolved Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	10.9F	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	ND	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	4.32F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	ND	ug/L	5.00	15.0
Calcium	EPA 200.7	23.5	mg/L	0.100	0.300
Magnesium	EPA 200.7	9.31	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	97.0	mg/L	0.660	2.00

Metals, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341007

Field Data

Analyte	Analysis Method	Result	Units
Sample Temp-field (C)	Field Data	15.11	Centigrade
DO field (mg/L)	Field Data	9.12	mg/L
% Saturation	Field Data	92.4	%
pH (SU) field	Field Data	7.36	SU
Cloud Cover %	Field Data	80	%
Cond-fld(uS/CM@25C)	Field Data	230	UMHOS/CM
Transparency Tube (cm)	Field Data	50.0	CM

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

F next to result = Result is between LOD and LOQ

Z next to result = Result is between 0 (zero) and LOD

if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>

Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

Results relate only to the items tested.

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The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341008

Report To:
 ZANA SJIAN
 WISCONSIN DNR

Invoice To:
 ZANA SJIAN
 WISCONSIN DNR

Customer ID: WT093

Field #: TREMP@121
 Project No:
 Collection End: 5/23/2018 1:43:00 PM
 Collection Start:
 Collected By: CAMILLE BRUHN
 Date Received: 5/24/2018
 Date Reported: 6/8/2018
 Sample Reason:

ID#:
 Sample Location:
 Sample Description: TREAMPEALEAU RIVER X-629994 Y-4914148
 Sample Type: SU-SURFACE WATER
 Waterbody:
 Point or Outfall:
 Sample Depth: 0.5F
 Program Code:
 Region Code:
 County:

Sample Comments

NITRIC ACID USED IN FIELD WAS EXPIRED.

For the dissolved metals tests, the sample was filtered and preserved at the lab.

Analyzed past the 15 minutes holding time: Method SM4500-H+B analyzed on 05/24/18 1330

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18 Analysis Date 05/25/18					
TOTAL SUSPENDED SOLIDS	SM2540D	20.0	mg/L	3.3	3.3
Prep Date 05/24/18 Analysis Date 05/24/18					
Chloride	SM4500-CL-E	16.7	mg/L	1.00	3.20
Prep Date 05/24/18 Analysis Date 05/24/18					
Comments: Analyzed past the 15 minutes holding time.					
pH	SM4500-H+B	7.66	SU	1.00	1.00
Prep Date 05/25/18 Analysis Date 05/25/18					
Turbidity	SM2130B	15.6	NTU	0.100	0.100

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341008

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/29/18	Analysis Date 05/30/18				
Phosphorus	EPA 365.1	0.326	mg/L	0.00500	0.0160

Inorganic Chemistry, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/25/18				
Ammonia	EPA 350.1	0.112	mg/L	0.0150	0.0480

Metals, Total Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	237	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	1.80	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	5.06F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	8.83F	ug/L	5.00	15.0
Calcium	EPA 200.7	20.7	mg/L	0.100	0.300
Magnesium	EPA 200.7	7.80	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	83.8	mg/L	0.660	2.00



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341008

Metals, Total

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Metals, Total, Low Level

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/24/18				
Total Chromium	Hi Res ICPMS	0.367	ug/L	0.00150	0.0232
Chromium (VI)	Hi Res ICPMS	0.114	ug/L	0.0122	0.0232
% Chromium (VI)	Hi Res ICPMS	31.1	%		

Metals, Dissolved Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	ND	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	ND	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	5.09F	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	ND	ug/L	5.00	15.0
Calcium	EPA 200.7	22.0	mg/L	0.100	0.300
Magnesium	EPA 200.7	8.49	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	89.8	mg/L	0.660	2.00

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341008

Metals, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Field Data

Analyte	Analysis Method	Result	Units
Sample Temp-field (C)	Field Data	14.98	Centigrade
DO field (mg/L)	Field Data	8.91	mg/L
% Saturation	Field Data	90.0	%
pH (SU) field	Field Data	7.25	SU
Cloud Cover %	Field Data	100	%
Cond-fld(uS/CM@25C)	Field Data	212	UMHOS/CM
Transparency Tube (cm)	Field Data	69.0	CM

List of Abbreviations:

LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>

Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.

Results relate only to the items tested.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341008

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Organic Chemistry: Al Spallato, Lab Manager, 608-224-6269

Emergency Chemical Response: Noel Stanton, Lab Manager, 608-224-6251

Environmental Toxicology: Tracy Hanke, Lab Manager, 608-224-6270



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790 NELAP LAB ID: E37658 EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341009

Report To:
 ZANA SJIAN
 WISCONSIN DNR

Invoice To:
 ZANA SJIAN
 WISCONSIN DNR

Customer ID: WT093

Field #: POKER BELOW SPILL
 Project No:
 Collection End: 5/23/2018 2:12:00 PM
 Collection Start:
 Collected By: CAMILLE BRUHN
 Date Received: 5/24/2018
 Date Reported: 6/8/2018
 Sample Reason:

ID#:
 Sample Location:
 Sample Description: POKER COULEE CREEK X 629383 Y-4911304
 Sample Type: SU-SURFACE WATER
 Waterbody:
 Point or Outfall:
 Sample Depth: 0.5F
 Program Code:
 Region Code:
 County:

Sample Comments

NITRIC ACID USED IN FIELD WAS EXPIRED.

For the dissolved metals tests, the sample was filtered and preserved at the lab.

Analyzed past the 15 minutes holding time: Method SM4500-H+B analyzed on 05/24/18 1330

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18 Analysis Date 05/25/18					
TOTAL SUSPENDED SOLIDS	SM2540D	204	mg/L	10.0	10.0
Prep Date 05/24/18 Analysis Date 05/24/18					
Chloride	SM4500-CL-E	18.7	mg/L	1.00	3.20
Prep Date 05/24/18 Analysis Date 05/24/18					
Comments: Analyzed past the 15 minutes holding time.					
pH	SM4500-H+B	7.74	SU	1.00	1.00
Prep Date 05/25/18 Analysis Date 05/25/18					
Turbidity	SM2130B	209	NTU	0.100	0.100

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341009

Inorganic Chemistry

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/29/18	Analysis Date 05/30/18				
Phosphorus	EPA 365.1	1.27	mg/L	0.0100	0.0320

Inorganic Chemistry, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/25/18				
Ammonia	EPA 350.1	0.0635	mg/L	0.0150	0.0480

Metals, Total Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	1.29F	ug/L	1.00	3.00
Chromium	EPA 200.7	6.40	ug/L	1.00	3.00
Copper	EPA 200.7	18.5	ug/L	5.00	15.0
Iron	EPA 200.7	13.7	mg/L	0.100	0.300
Lead	EPA 200.7	11.1	ug/L	3.00	10.0
Nickel	EPA 200.7	10.2	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	9.19F	ug/L	5.00	15.0
Calcium	EPA 200.7	30.4	mg/L	0.100	0.300
Magnesium	EPA 200.7	12.9	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	129	mg/L	0.660	2.00
Aluminum	EPA 200.7	3770	ug/L	10.0	30.0

MATRIX SPIKE QC EXCEEDED.

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341009

Metals, Total

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Metals, Total, Low Level

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/24/18	Analysis Date 05/24/18				
Total Chromium	Hi Res ICPMS	3.90	ug/L	0.00150	0.0232
Chromium (VI)	Hi Res ICPMS	0.289	ug/L	0.0122	0.0232
% Chromium (VI)	Hi Res ICPMS	7.41	%		

Metals, Dissolved Recoverable

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/29/18				
Aluminum	EPA 200.7	ND	ug/L	10.0	30.0
MATRIX SPIKE QC EXCEEDED.					
Antimony	EPA 200.7	ND	ug/L	5.00	16.0
Beryllium	EPA 200.7	ND	ug/L	0.500	1.60
Cadmium	EPA 200.7	ND	ug/L	1.00	3.00
Chromium	EPA 200.7	ND	ug/L	1.00	3.00
Copper	EPA 200.7	ND	ug/L	5.00	15.0
Iron	EPA 200.7	ND	mg/L	0.100	0.300
Lead	EPA 200.7	ND	ug/L	3.00	10.0
Nickel	EPA 200.7	ND	ug/L	2.00	6.00
Selenium	EPA 200.7	ND	ug/L	10.0	30.0
Silver	EPA 200.7	ND	ug/L	2.00	6.00
Zinc	EPA 200.7	ND	ug/L	5.00	15.0
Calcium	EPA 200.7	28.6	mg/L	0.100	0.300
Magnesium	EPA 200.7	12.2	mg/L	0.100	0.300
Hardness (SM 2340B)	EPA 200.7	122	mg/L	0.660	2.00

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341009

Metals, Dissolved

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date 05/25/18	Analysis Date 05/25/18				
Mercury	EPA 245.1	ND	ug/L	0.030	0.080

Field Data

Analyte	Analysis Method	Result	Units
Sample Temp-field (C)	Field Data	15.40	Centigrade
DO field (mg/L)	Field Data	8.88	mg/L
% Saturation	Field Data	90.4	%
pH (SU) field	Field Data	7.15	SU
Cloud Cover %	Field Data	100	%
Cond-fld(uS/CM@25C)	Field Data	242	UMHOS/CM
Transparency Tube (cm)	Field Data	5.0	CM

List of Abbreviations:

LOD = Level of detection
 LOQ = Level of quantification
 ND = None detected. Results are less than the LOD
 F next to result = Result is between LOD and LOQ
 Z next to result = Result is between 0 (zero) and LOD
 if LOD=LOQ, Limits were not statistically derived

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director - Prof. James J. Schauer, Ph.D., Director

Environmental Health Division

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB ID: WI00007, WI00008 WI DATCP ID: 105-415

WSLH Sample: 384341009

Responsible Party

Microbiology: Sharon Kluender, Lab Manager, 608-224-6262

Inorganic Chemistry: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

Metals: DeWayne Kennedy-Parker, Lab Manager, 608-224-6282

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