



Alliant Energy
4902 North Biltmore Lane
P.O. Box 77007
Madison, WI 53707-1007

1-800-ALLIANT (800-255-4268)
alliantenergy.com

September 17, 2018

To: CCR Operating Record

Re: Notification of Completion of Closure pursuant to 40 CFR 257.102(d)

Closure of the existing Coal Combustion Residuals (CCR) Surface Impoundment at the Nelson Dewey Generating Station was completed on September 10, 2018. Closure was completed through removal of the CCR, in accordance with 40 CFR 257.102(c). This notification and the attached written certification from a qualified professional engineer have been prepared in accordance with 40 CFR 257.102(h) and 257.105(i)(8).

This notification applies to the following CCR unit at this facility:

CCR Surface Impoundment
NED WPDES Pond

Signed,

A handwritten signature in blue ink, appearing to read 'Jeff Maxted', written over a light blue circular stamp.

Print Name Jeff Maxted	Title Lead Environmental Specialist
Phone No. or Email Address (608) 458-3853; jeffreymaxted@alliantenergy.com	

SCS ENGINEERS

September 10, 2018
File No. 25216054.00

Ms. Jenna Wischmeyer
Alliant Energy
200 1st Street SE
Cedar Rapids, IA 52401

Subject: Certification of Closure – WPDES Pond
Nelson Dewey Generating Station, Cassville, Wisconsin

Dear Ms. Wischmeyer:

The closure of the Wisconsin Pollutant Discharge Elimination System (WPDES) Pond has been conducted as part of the decommissioning of the Nelson Dewey Generating Station. As of the date of this letter, decommissioning activities at the facility are complete, and the closure of the WPDES Pond has been completed in accordance with the requirements for closure in 40 CFR 257.102.


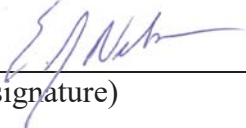
The WPDES Pond has been closed by removing coal combustion residue (CCR) as required in 40 CFR 257.102(c). CCR has been removed from the WPDES Pond as described in the Written Closure Plan and, as shown in the enclosed laboratory analytical reports, groundwater monitoring concentrations do not exceed groundwater protection standards established pursuant to 40 CFR 257.95(h) for the constituents listed in Appendix IV, as detailed below:

Constituent	Groundwater Protection Standard
Antimony	6 micrograms per liter (ug/l)
Arsenic	10 ug/l
Barium	2,000 ug/l
Beryllium	4 ug/l
Cadmium	5 ug/l
Chromium	100 ug/l
Cobalt	6 ug/l
Fluoride	4 mg/l
Lead	15 ug/l
Lithium	40 ug/l
Mercury	2 ug/l
Molybdenum	100 ug/l
Selenium	50 ug/l
Thallium	2 ug/l
Radium 226 and 228 combined	5 picocuries per liter (pCi/l)


The closure of the WPDES Pond was completed without extensions within 5 years of Wisconsin Power and Light Company commencing closure activities as required in 40 CFR 257.102(f)(1)(ii). Our certification of the WPDES Pond closure is provided on the following page.



P.E. Certification

	<p>I, Eric J. Nelson, hereby certify that the closure of the WPDES Pond at the Nelson Dewey Generating Station has been completed in accordance with the written closure plan and 40 CFR 257.102. This certification is based on my review of the written closure plan posted to Alliant Energy's CCR Rule Compliance Data and Information website and my oversight of the abandonment of the WPDES Pond. I am a duly licensed Professional Engineer under the laws of the State of Wisconsin.</p>
	
	<p>September 10, 2018</p>
	<p>(signature) (date)</p>
	<p>Eric J. Nelson, PE (printed or typed name)</p> <p>License number <u>37855-6</u></p> <p>My license renewal date is July 31, 2020.</p> <p>Pages or sheets covered by this seal: Entire document - letter and certification page</p>

Sincerely,


 Eric J. Nelson
 Senior Project Manager
SCS ENGINEERS


 Mark R. Huber
 Project Director
SCS ENGINEERS

RJG/jsn/EJN

Enclosures: Laboratory Analytical Reports

cc: Jeff Maxted, Alliant Energy
 Jill Stevens, Alliant Energy
 Jon Jackson, Alliant Energy
 Duane Fritz, Alliant Energy

LABORATORY ANALYTICAL REPORTS

March 05, 2018

Meghan Blodgett
SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718

RE: Project: 25216071.18 ALLIANT-NELSON DEW
Pace Project No.: 40164520

Dear Meghan Blodgett:

Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 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,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Tom Karwoski, SCS ENGINEERS
Kyle Kramer, SCS ENGINEERS
Nicole Kron, SCS ENGINEERS
Jeff Maxted, ALLIANT ENERGY
Marc Morandi, ALLIANT ENERGY



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 25216071.18 ALLIANT-NELSON DEW
Pace Project No.: 40164520

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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

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SAMPLE SUMMARY

Project: 25216071.18 ALLIANT-NELSON DEW

Pace Project No.: 40164520

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40164520001	MW 301	Water	02/07/18 16:00	02/09/18 10:00
40164520002	MW 302	Water	02/07/18 17:00	02/09/18 10:00
40164520003	MW 303	Water	02/07/18 18:20	02/09/18 10:00
40164520004	FIELD BLANK	Water	02/07/18 18:00	02/09/18 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 25216071.18 ALLIANT-NELSON DEW

Pace Project No.: 40164520

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40164520001	MW 301	EPA 6020	SDW	14	PASI-G
		EPA 7470	AJT	1	PASI-G
			AXL	7	PASI-G
		EPA 903.1	KAC	1	PASI-PA
		EPA 904.0	JLW	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	TMK	1	PASI-G
		EPA 9040	ALY	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		40164520002	MW 302	EPA 6020	SDW
EPA 7470	AJT			1	PASI-G
	AXL			7	PASI-G
EPA 903.1	KAC			1	PASI-PA
EPA 904.0	JLW			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2540C	TMK			1	PASI-G
EPA 9040	ALY			1	PASI-G
EPA 300.0	HMB			3	PASI-G
40164520003	MW 303			EPA 6020	SDW
		EPA 7470	AJT	1	PASI-G
			AXL	7	PASI-G
		EPA 903.1	KAC	1	PASI-PA
		EPA 904.0	JLW	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	TMK	1	PASI-G
		EPA 9040	ALY	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		40164520004	FIELD BLANK	EPA 6020	SDW
EPA 7470	AJT			1	PASI-G
EPA 903.1	KAC			1	PASI-PA
EPA 904.0	JLW			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2540C	TMK			1	PASI-G
EPA 9040	ALY			1	PASI-G
EPA 300.0	HMB			3	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25216071.18 ALLIANT-NELSON DEW
Pace Project No.: 40164520

Sample: MW 301 **Lab ID: 40164520001** Collected: 02/07/18 16:00 Received: 02/09/18 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Antimony	0.27J	ug/L	1.0	0.15	1	02/12/18 07:06	02/15/18 22:15	7440-36-0	
Arsenic	0.88J	ug/L	1.0	0.28	1	02/12/18 07:06	02/14/18 22:31	7440-38-2	
Barium	28.5	ug/L	1.1	0.34	1	02/12/18 07:06	02/14/18 22:31	7440-39-3	
Beryllium	0.55J	ug/L	1.0	0.18	1	02/12/18 07:06	02/14/18 22:31	7440-41-7	
Boron	181	ug/L	11.0	3.3	1	02/12/18 07:06	02/14/18 22:31	7440-42-8	
Cadmium	0.24J	ug/L	1.0	0.081	1	02/12/18 07:06	02/15/18 22:15	7440-43-9	
Calcium	35100	ug/L	2500	698	10	02/12/18 07:06	02/15/18 21:45	7440-70-2	P6
Chromium	<1.0	ug/L	3.4	1.0	1	02/12/18 07:06	02/15/18 22:15	7440-47-3	
Cobalt	2.5	ug/L	1.0	0.085	1	02/12/18 07:06	02/15/18 22:15	7440-48-4	
Lead	0.74J	ug/L	1.0	0.20	1	02/12/18 07:06	02/14/18 22:31	7439-92-1	
Lithium	0.73J	ug/L	1.0	0.14	1	02/12/18 07:06	02/15/18 22:15	7439-93-2	B
Molybdenum	9.6	ug/L	1.5	0.44	1	02/12/18 07:06	02/14/18 22:31	7439-98-7	
Selenium	2.3	ug/L	1.1	0.32	1	02/12/18 07:06	02/14/18 22:31	7782-49-2	
Thallium	0.34J	ug/L	1.0	0.14	1	02/12/18 07:06	02/15/18 22:15	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	<0.13	ug/L	0.42	0.13	1	02/13/18 13:00	02/14/18 09:05	7439-97-6	
Field Data		Analytical Method:							
Field pH	8.09	Std. Units			1		02/07/18 16:00		
Field Specific Conductance	458.5	umhos/cm			1		02/07/18 16:00		
Oxygen, Dissolved	1.96	mg/L			1		02/07/18 16:00	7782-44-7	
REDOX	44.5	mV			1		02/07/18 16:00		
Turbidity	4.26	NTU			1		02/07/18 16:00		
Static Water Level	605.08	feet			1		02/07/18 16:00		
Temperature, Water (C)	9.5	deg C			1		02/07/18 16:00		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	270	mg/L	20.0	8.7	1		02/14/18 16:12		
9040 pH		Analytical Method: EPA 9040							
pH at 25 Degrees C	7.8	Std. Units	0.10	0.010	1		02/13/18 09:43		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	11.1	mg/L	2.0	0.50	1		02/14/18 16:42	16887-00-6	
Fluoride	0.12J	mg/L	0.30	0.10	1		02/14/18 16:42	16984-48-8	
Sulfate	58.0	mg/L	3.0	1.0	1		02/14/18 16:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25216071.18 ALLIANT-NELSON DEW
Pace Project No.: 40164520

Sample: MW 302 **Lab ID: 40164520002** Collected: 02/07/18 17:00 Received: 02/09/18 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Antimony	0.24J	ug/L	1.0	0.15	1	02/12/18 07:06	02/15/18 23:37	7440-36-0	
Arsenic	<0.28	ug/L	1.0	0.28	1	02/12/18 07:06	02/15/18 00:08	7440-38-2	
Barium	27.1	ug/L	1.1	0.34	1	02/12/18 07:06	02/15/18 00:08	7440-39-3	
Beryllium	<0.18	ug/L	1.0	0.18	1	02/12/18 07:06	02/15/18 00:08	7440-41-7	
Boron	234	ug/L	11.0	3.3	1	02/12/18 07:06	02/15/18 00:08	7440-42-8	
Cadmium	0.22J	ug/L	1.0	0.081	1	02/12/18 07:06	02/15/18 23:37	7440-43-9	
Calcium	84400	ug/L	250	69.8	1	02/12/18 07:06	02/15/18 23:37	7440-70-2	
Chromium	<1.0	ug/L	3.4	1.0	1	02/12/18 07:06	02/15/18 23:37	7440-47-3	
Cobalt	0.44J	ug/L	1.0	0.085	1	02/12/18 07:06	02/15/18 23:37	7440-48-4	
Lead	0.54J	ug/L	1.0	0.20	1	02/12/18 07:06	02/15/18 00:08	7439-92-1	
Lithium	1.4	ug/L	1.0	0.14	1	02/12/18 07:06	02/15/18 23:37	7439-93-2	B
Molybdenum	4.0	ug/L	1.5	0.44	1	02/12/18 07:06	02/15/18 00:08	7439-98-7	
Selenium	<0.32	ug/L	1.1	0.32	1	02/12/18 07:06	02/15/18 00:08	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	02/12/18 07:06	02/15/18 23:37	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	<0.13	ug/L	0.42	0.13	1	02/13/18 13:00	02/14/18 09:16	7439-97-6	
Field Data		Analytical Method:							
Field pH	7.34	Std. Units			1		02/07/18 17:00		
Field Specific Conductance	837	umhos/cm			1		02/07/18 17:00		
Oxygen, Dissolved	0.62	mg/L			1		02/07/18 17:00	7782-44-7	
REDOX	67.8	mV			1		02/07/18 17:00		
Turbidity	1.48	NTU			1		02/07/18 17:00		
Static Water Level	605.05	feet			1		02/07/18 17:00		
Temperature, Water (C)	9.2	deg C			1		02/07/18 17:00		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	528	mg/L	20.0	8.7	1		02/14/18 16:12		
9040 pH		Analytical Method: EPA 9040							
pH at 25 Degrees C	7.2	Std. Units	0.10	0.010	1		02/13/18 09:44		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	2.9	mg/L	2.0	0.50	1		02/14/18 16:55	16887-00-6	
Fluoride	<0.10	mg/L	0.30	0.10	1		02/14/18 16:55	16984-48-8	
Sulfate	203	mg/L	30.0	10.0	10		02/15/18 12:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25216071.18 ALLIANT-NELSON DEW
Pace Project No.: 40164520

Sample: MW 303 **Lab ID: 40164520003** Collected: 02/07/18 18:20 Received: 02/09/18 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Antimony	0.28J	ug/L	1.0	0.15	1	02/12/18 07:06	02/15/18 23:44	7440-36-0	
Arsenic	<0.28	ug/L	1.0	0.28	1	02/12/18 07:06	02/15/18 00:16	7440-38-2	
Barium	88.3	ug/L	1.1	0.34	1	02/12/18 07:06	02/15/18 00:16	7440-39-3	
Beryllium	<0.18	ug/L	1.0	0.18	1	02/12/18 07:06	02/15/18 00:16	7440-41-7	
Boron	212	ug/L	11.0	3.3	1	02/12/18 07:06	02/15/18 00:16	7440-42-8	
Cadmium	0.31J	ug/L	1.0	0.081	1	02/12/18 07:06	02/15/18 23:44	7440-43-9	
Calcium	81500	ug/L	250	69.8	1	02/12/18 07:06	02/15/18 23:44	7440-70-2	
Chromium	<1.0	ug/L	3.4	1.0	1	02/12/18 07:06	02/15/18 23:44	7440-47-3	
Cobalt	2.1	ug/L	1.0	0.085	1	02/12/18 07:06	02/15/18 23:44	7440-48-4	
Lead	0.24J	ug/L	1.0	0.20	1	02/12/18 07:06	02/15/18 00:16	7439-92-1	
Lithium	1.3	ug/L	1.0	0.14	1	02/12/18 07:06	02/15/18 23:44	7439-93-2	B
Molybdenum	5.1	ug/L	1.5	0.44	1	02/12/18 07:06	02/15/18 00:16	7439-98-7	
Selenium	<0.32	ug/L	1.1	0.32	1	02/12/18 07:06	02/15/18 00:16	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	02/12/18 07:06	02/15/18 23:44	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	<0.13	ug/L	0.42	0.13	1	02/13/18 13:00	02/14/18 09:19	7439-97-6	
Field Data		Analytical Method:							
Field pH	7.13	Std. Units			1		02/07/18 18:20		
Field Specific Conductance	1050	umhos/cm			1		02/07/18 18:20		
Oxygen, Dissolved	0.20	mg/L			1		02/07/18 18:20	7782-44-7	
REDOX	53.6	mV			1		02/07/18 18:20		
Turbidity	1.51	NTU			1		02/07/18 18:20		
Static Water Level	605.00	feet			1		02/07/18 18:20		
Temperature, Water (C)	9.3	deg C			1		02/07/18 18:20		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	664	mg/L	20.0	8.7	1		02/14/18 16:12		
9040 pH		Analytical Method: EPA 9040							
pH at 25 Degrees C	7.0	Std. Units	0.10	0.010	1		02/13/18 09:45		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	59.1	mg/L	20.0	5.0	10		02/15/18 12:16	16887-00-6	
Fluoride	<0.10	mg/L	0.30	0.10	1		02/14/18 17:08	16984-48-8	
Sulfate	189	mg/L	30.0	10.0	10		02/15/18 12:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25216071.18 ALLIANT-NELSON DEW

Pace Project No.: 40164520

Sample: FIELD BLANK **Lab ID: 40164520004** Collected: 02/07/18 18:00 Received: 02/09/18 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Antimony	<0.15	ug/L	1.0	0.15	1	02/12/18 07:06	02/14/18 21:46	7440-36-0	
Arsenic	<0.28	ug/L	1.0	0.28	1	02/12/18 07:06	02/14/18 21:46	7440-38-2	
Barium	<0.34	ug/L	1.1	0.34	1	02/12/18 07:06	02/14/18 21:46	7440-39-3	
Beryllium	<0.18	ug/L	1.0	0.18	1	02/12/18 07:06	02/14/18 21:46	7440-41-7	
Boron	<3.3	ug/L	11.0	3.3	1	02/12/18 07:06	02/14/18 21:46	7440-42-8	
Cadmium	<0.081	ug/L	1.0	0.081	1	02/12/18 07:06	02/14/18 21:46	7440-43-9	
Calcium	<69.8	ug/L	250	69.8	1	02/12/18 07:06	02/14/18 21:46	7440-70-2	
Chromium	<1.0	ug/L	3.4	1.0	1	02/12/18 07:06	02/14/18 21:46	7440-47-3	
Cobalt	<0.085	ug/L	1.0	0.085	1	02/12/18 07:06	02/14/18 21:46	7440-48-4	
Lead	0.50J	ug/L	1.0	0.20	1	02/12/18 07:06	02/14/18 21:46	7439-92-1	
Lithium	<0.14	ug/L	1.0	0.14	1	02/12/18 07:06	02/15/18 21:30	7439-93-2	
Molybdenum	<0.44	ug/L	1.5	0.44	1	02/12/18 07:06	02/14/18 21:46	7439-98-7	
Selenium	<0.32	ug/L	1.1	0.32	1	02/12/18 07:06	02/14/18 21:46	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	02/12/18 07:06	02/15/18 21:30	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	<0.13	ug/L	0.42	0.13	1	02/13/18 13:00	02/14/18 09:21	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	<8.7	mg/L	20.0	8.7	1		02/14/18 16:12		
9040 pH		Analytical Method: EPA 9040							
pH at 25 Degrees C	6.5	Std. Units	0.10	0.010	1		02/13/18 09:47		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	<0.50	mg/L	2.0	0.50	1		02/14/18 17:22	16887-00-6	
Fluoride	<0.10	mg/L	0.30	0.10	1		02/14/18 17:22	16984-48-8	
Sulfate	<1.0	mg/L	3.0	1.0	1		02/14/18 17:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25216071.18 ALLIANT-NELSON DEW

Pace Project No.: 40164520

QC Batch: 281097

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

METHOD BLANK: 1648101

Matrix: Water

Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.13	0.42	02/14/18 09:00	

LABORATORY CONTROL SAMPLE: 1648102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1648103 1648104

Parameter	Units	1648103		1648104		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40164520001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	<0.13	5	5	5.3	5.3	105	106	85-115	1	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25216071.18 ALLIANT-NELSON DEW
Pace Project No.: 40164520

QC Batch: 280954 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

METHOD BLANK: 1647718 Matrix: Water
Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.15	1.0	02/14/18 21:39	
Arsenic	ug/L	<0.28	1.0	02/14/18 21:39	
Barium	ug/L	<0.34	1.1	02/14/18 21:39	
Beryllium	ug/L	<0.18	1.0	02/14/18 21:39	
Boron	ug/L	<3.3	11.0	02/14/18 21:39	
Cadmium	ug/L	<0.081	1.0	02/14/18 21:39	
Calcium	ug/L	<69.8	250	02/14/18 21:39	
Chromium	ug/L	<1.0	3.4	02/14/18 21:39	
Cobalt	ug/L	<0.085	1.0	02/14/18 21:39	
Lead	ug/L	<0.20	1.0	02/14/18 21:39	
Lithium	ug/L	0.22J	1.0	02/15/18 21:22	
Molybdenum	ug/L	<0.44	1.5	02/14/18 21:39	
Selenium	ug/L	<0.32	1.1	02/14/18 21:39	
Thallium	ug/L	<0.14	1.0	02/15/18 21:22	

LABORATORY CONTROL SAMPLE: 1647719

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	504	101	80-120	
Arsenic	ug/L	500	482	96	80-120	
Barium	ug/L	500	475	95	80-120	
Beryllium	ug/L	500	582	116	80-120	
Boron	ug/L	500	536	107	80-120	
Cadmium	ug/L	500	520	104	80-120	
Calcium	ug/L	5000	5160	103	80-120	
Chromium	ug/L	500	472	94	80-120	
Cobalt	ug/L	500	429	86	80-120	
Lead	ug/L	500	448	90	80-120	
Lithium	ug/L	500	465	93	80-120	
Molybdenum	ug/L	500	491	98	80-120	
Selenium	ug/L	500	523	105	80-120	
Thallium	ug/L	500	462	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1647720 1647721

Parameter	Units	40164520001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Antimony	ug/L	0.27J	500	541	527	500	108	105	75-125	3	20	

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QUALITY CONTROL DATA

Project: 25216071.18 ALLIANT-NELSON DEW
Pace Project No.: 40164520

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1647720		1647721		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40164520001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	ug/L	0.88J	500	500	505	500	101	100	75-125	1	20		
Barium	ug/L	28.5	500	500	520	514	98	97	75-125	1	20		
Beryllium	ug/L	0.55J	500	500	544	530	109	106	75-125	3	20		
Boron	ug/L	181	500	500	705	690	105	102	75-125	2	20		
Cadmium	ug/L	0.24J	500	500	530	519	106	104	75-125	2	20		
Calcium	ug/L	35100	5000	5000	39500	38300	88	64	75-125	3	20	P6	
Chromium	ug/L	<1.0	500	500	483	480	97	96	75-125	1	20		
Cobalt	ug/L	2.5	500	500	476	473	95	94	75-125	1	20		
Lead	ug/L	0.74J	500	500	475	475	95	95	75-125	0	20		
Lithium	ug/L	0.73J	500	500	462	458	92	91	75-125	1	20		
Molybdenum	ug/L	9.6	500	500	505	509	99	100	75-125	1	20		
Selenium	ug/L	2.3	500	500	565	548	113	109	75-125	3	20		
Thallium	ug/L	0.34J	500	500	484	481	97	96	75-125	1	20		

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QUALITY CONTROL DATA

Project: 25216071.18 ALLIANT-NELSON DEW
Pace Project No.: 40164520

QC Batch: 281212 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

METHOD BLANK: 1648591 Matrix: Water
Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	02/14/18 16:11	

LABORATORY CONTROL SAMPLE: 1648592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	604	582	96	80-120	

SAMPLE DUPLICATE: 1648593

Parameter	Units	40164520001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	270	268	1	5	

SAMPLE DUPLICATE: 1648622

Parameter	Units	40164491001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	716	698	3	5	

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QUALITY CONTROL DATA

Project: 25216071.18 ALLIANT-NELSON DEW

Pace Project No.: 40164520

QC Batch: 281057 Analysis Method: EPA 9040

QC Batch Method: EPA 9040 Analysis Description: 9040 pH

Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

SAMPLE DUPLICATE: 1647990

Parameter	Units	40163207004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.1	6.2	1	20	H6

SAMPLE DUPLICATE: 1647991

Parameter	Units	40164444001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	10.0	10.0	0	20	H6

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QUALITY CONTROL DATA

Project: 25216071.18 ALLIANT-NELSON DEW
Pace Project No.: 40164520

QC Batch: 281117 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

METHOD BLANK: 1648189 Matrix: Water
Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	02/14/18 12:50	
Fluoride	mg/L	<0.10	0.30	02/14/18 12:50	
Sulfate	mg/L	<1.0	3.0	02/14/18 12:50	

LABORATORY CONTROL SAMPLE: 1648190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.7	99	90-110	
Fluoride	mg/L	2	2.0	99	90-110	
Sulfate	mg/L	20	19.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1648191 1648192

Parameter	Units	40164420001		40164420002		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	38.2	100	100	146	152	107	113	90-110	4	15	M0	
Fluoride	mg/L	4.6	10	10	8.8	9.8	42	52	90-110	11	15	M0	
Sulfate	mg/L	175	100	100	278	279	103	104	90-110	0	15		

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 25216071.18 ALLIANT-NELSON DEW
Pace Project No.: 40164520

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 903.1	1.22 ± 0.838 (0.895) C:NA T:92%	pCi/L	03/01/18 20:01	13982-63-3	
Radium-228		EPA 904.0	0.787 ± 0.438 (0.796) C:87% T:84%	pCi/L	02/23/18 13:20	15262-20-1	
Total Radium		Total Radium Calculation	2.01 ± 1.28 (1.69)	pCi/L	03/05/18 10:54	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 903.1	0.396 ± 0.777 (1.42) C:NA T:90%	pCi/L	03/01/18 20:01	13982-63-3	
Radium-228		EPA 904.0	0.961 ± 0.453 (0.758) C:83% T:86%	pCi/L	02/23/18 13:21	15262-20-1	
Total Radium		Total Radium Calculation	1.36 ± 1.23 (2.18)	pCi/L	03/05/18 10:54	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 903.1	0.126 ± 0.575 (1.17) C:NA T:87%	pCi/L	03/01/18 20:01	13982-63-3	
Radium-228		EPA 904.0	0.618 ± 0.379 (0.701) C:88% T:87%	pCi/L	02/23/18 13:21	15262-20-1	
Total Radium		Total Radium Calculation	0.744 ± 0.954 (1.87)	pCi/L	03/05/18 10:54	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 903.1	0.904 ± 0.774 (1.05) C:NA T:94%	pCi/L	03/01/18 20:21	13982-63-3	
Radium-228		EPA 904.0	0.279 ± 0.295 (0.604) C:87% T:84%	pCi/L	02/23/18 13:21	15262-20-1	
Total Radium		Total Radium Calculation	1.18 ± 1.07 (1.65)	pCi/L	03/05/18 10:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 25216071.18 ALLIANT-NELSON DEW

Pace Project No.: 40164520

QC Batch: 288063 Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228

Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

METHOD BLANK: 1411791 Matrix: Water

Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.234 ± 0.250 (0.517) C:83% T:93%	pCi/L	02/23/18 13:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 25216071.18 ALLIANT-NELSON DEW

Pace Project No.: 40164520

QC Batch: 288062 Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226

Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

METHOD BLANK: 1411790 Matrix: Water

Associated Lab Samples: 40164520001, 40164520002, 40164520003, 40164520004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.239 (0.535) C:NA T:89%	pCi/L	03/01/18 19:45	

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QUALIFIERS

Project: 25216071.18 ALLIANT-NELSON DEW
Pace Project No.: 40164520

DEFINITIONS

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25216071.18 ALLIANT-NELSON DEW

Pace Project No.: 40164520

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40164520001	MW 301	EPA 3010	280954	EPA 6020	281120
40164520002	MW 302	EPA 3010	280954	EPA 6020	281120
40164520003	MW 303	EPA 3010	280954	EPA 6020	281120
40164520004	FIELD BLANK	EPA 3010	280954	EPA 6020	281120
40164520001	MW 301	EPA 7470	281097	EPA 7470	281152
40164520002	MW 302	EPA 7470	281097	EPA 7470	281152
40164520003	MW 303	EPA 7470	281097	EPA 7470	281152
40164520004	FIELD BLANK	EPA 7470	281097	EPA 7470	281152
40164520001	MW 301				
40164520002	MW 302				
40164520003	MW 303				
40164520001	MW 301	EPA 903.1	288062		
40164520002	MW 302	EPA 903.1	288062		
40164520003	MW 303	EPA 903.1	288062		
40164520004	FIELD BLANK	EPA 903.1	288062		
40164520001	MW 301	EPA 904.0	288063		
40164520002	MW 302	EPA 904.0	288063		
40164520003	MW 303	EPA 904.0	288063		
40164520004	FIELD BLANK	EPA 904.0	288063		
40164520001	MW 301	Total Radium Calculation	290091		
40164520002	MW 302	Total Radium Calculation	290091		
40164520003	MW 303	Total Radium Calculation	290091		
40164520004	FIELD BLANK	Total Radium Calculation	290091		
40164520001	MW 301	SM 2540C	281212		
40164520002	MW 302	SM 2540C	281212		
40164520003	MW 303	SM 2540C	281212		
40164520004	FIELD BLANK	SM 2540C	281212		
40164520001	MW 301	EPA 9040	281057		
40164520002	MW 302	EPA 9040	281057		
40164520003	MW 303	EPA 9040	281057		
40164520004	FIELD BLANK	EPA 9040	281057		
40164520001	MW 301	EPA 300.0	281117		
40164520002	MW 302	EPA 300.0	281117		
40164520003	MW 303	EPA 300.0	281117		
40164520004	FIELD BLANK	EPA 300.0	281117		

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(Please Print Clearly)

Company Name: **SCS**
 Branch/Location: **Madison**
 Project Contact: **Tom Karwowski**
 Phone: **608 216-7369**
 Project Number: **25216071.18**
 Project Name: **Alliant - Nelson Dairy**
 Project State: **WI**
 Sampled By (Print): **Paul A. Grover**
 Sampled By (Sign): *Paul A. Grover*
 PO #:

Regulatory Program:
 Matrix Codes:
 A = Air
 B = Biota
 C = Charcoal
 O = Oil
 S = Soil
 SI = Sludge
 W = Water
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 WW = Waste Water
 WP = Waste
 FILTERED? (YES/NO)
 PRESERVATION (CODE)
 Preservation Codes:
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

CHAIN OF CUSTODY



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

40164520

Y/N	Pick Letter	Analyses Requested
No	D	Radium 226
No	D	Radium 228
No	D	Metals
No	A	Ph
No	A	TDS, CL, F, SO ₄

Data Package Options (billable)
 EPA Level III
 EPA Level IV
 MS/MSD (billable)
 On your sample
 NOT needed on your sample

PAGE LAB #	CLIENT FIELD ID	DATE	COLLECTION TIME	MATRIX
001	MW 301	2-18	16:00	GW
002	MW 302		17:00	
003	MW 303		18:30	
004	Field Blank		18:00	DI

Relinquished By:	Date/Time:	Received By:	Date/Time:
<i>Paul A. Grover</i>	2/18/18 18:00	<i>Tom Karwowski</i>	2/18/18 1000
<i>Paul A. Grover</i>	2/18/18 1000	<i>Tom Karwowski</i>	2/18/18 1000

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Client Name: SCS

Project # 40164520

Sample Preservation Receipt Form

Pace Analytical Services, LLC
 1241 Bellevue Street, Suite 29
 Green Bay, WI 54302

All containers needing preservation have been checked and noted below: Yes No N/A Lab Std #/ID of preservation (if pH adjusted):

Initial when completed: SSA Date/Time:

Pace Lab #	Glass						Plastic						Vials					Jars			General		VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)							
	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			
001																																				
002																																				
003																																				
004																																				
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Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

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:
1 liter amber glass	1 liter amber glass HCL	125 ml amber glass H2SO4	120 ml amber glass unpres	100 ml amber glass unpres	500 ml amber glass H2SO4	250 ml clear glass unpres	1 liter plastic unpres	500 ml plastic HNO3	500 ml plastic NaOH, Znact	250 ml plastic unpres	250 ml plastic NaOH	250 ml plastic HNO3	250 ml plastic H2SO4	40 ml amber ascorbic	40 ml amber Na Thio	40 ml clear vial unpres	40 ml clear vial HCL	40 ml clear vial MeOH	40 ml clear vial DI	4 oz amber jar unpres	4 oz clear jar unpres	4 oz plastic jar unpres	120 ml plastic Na Thiosulfate	ziploc bag	1-1/Lp



1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-GB-C-031-rev.06

Document Revised: 31Jan2018

Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: SCS

WO#: **40164520**

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: 7896 6406 0110

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: D/4/18 Corr: _____

Temp Blank Present: yes no SR 2/9/18 Biological Tissue is Frozen: yes no

Person examining contents:
Date: 2/9/18
Initials: SSN

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A MS/MSD <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: KAR for DR

Date: 2/9/18

June 19, 2018

Meghan Blodgett
SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718

RE: Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

Dear Meghan Blodgett:

Enclosed are the analytical results for sample(s) received by the laboratory on May 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,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Tom Karwoski, SCS ENGINEERS
Nicole Kron, SCS ENGINEERS
Jeff Maxted, ALLIANT ENERGY
Marc Morandi, ALLIANT ENERGY



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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

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SAMPLE SUMMARY

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40169797001	MW 301	Water	05/23/18 16:20	05/25/18 09:45
40169797002	MW 302	Water	05/23/18 17:25	05/25/18 09:45
40169797003	MW 303	Water	05/23/18 18:30	05/25/18 09:45
40169797004	FIELD BLANK	Water	05/23/18 18:00	05/25/18 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 25218055 NELSON DEWEY WPL/CCR

Pace Project No.: 40169797

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40169797001	MW 301	EPA 6020	DS1	14	PASI-G
		EPA 7470	AJT	1	PASI-G
			RMW	7	PASI-G
		EPA 903.1	KAC	1	PASI-PA
		EPA 904.0	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	TMK	1	PASI-G
		EPA 9040	ALY	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		40169797002	MW 302	EPA 6020	DS1
EPA 7470	AJT			1	PASI-G
	RMW			7	PASI-G
EPA 903.1	KAC			1	PASI-PA
EPA 904.0	JLW			1	PASI-PA
Total Radium Calculation	CMC			1	PASI-PA
SM 2540C	TMK			1	PASI-G
EPA 9040	ALY			1	PASI-G
EPA 300.0	HMB			3	PASI-G
40169797003	MW 303			EPA 6020	DS1
		EPA 7470	AJT	1	PASI-G
			RMW	7	PASI-G
		EPA 903.1	KAC	1	PASI-PA
		EPA 904.0	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		SM 2540C	TMK	1	PASI-G
		EPA 9040	ALY	1	PASI-G
		EPA 300.0	HMB	3	PASI-G
		40169797004	FIELD BLANK	EPA 6020	DS1
EPA 7470	AJT			1	PASI-G
EPA 903.1	KAC			1	PASI-PA
EPA 904.0	JLW			1	PASI-PA
Total Radium Calculation	CMC			1	PASI-PA
SM 2540C	TMK			1	PASI-G
EPA 9040	ALY			1	PASI-G
EPA 300.0	HMB			3	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

Sample: MW 301 **Lab ID: 40169797001** Collected: 05/23/18 16:20 Received: 05/25/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Antimony	0.24J	ug/L	1.0	0.15	1	05/31/18 07:24	06/07/18 03:51	7440-36-0	
Arsenic	0.48J	ug/L	1.0	0.28	1	05/31/18 07:24	06/07/18 03:51	7440-38-2	
Barium	39.8	ug/L	1.1	0.34	1	05/31/18 07:24	06/07/18 03:51	7440-39-3	
Beryllium	0.21J	ug/L	1.0	0.18	1	05/31/18 07:24	06/07/18 03:51	7440-41-7	
Boron	290	ug/L	11.0	3.3	1	05/31/18 07:24	06/07/18 03:51	7440-42-8	
Cadmium	0.20J	ug/L	1.0	0.081	1	05/31/18 07:24	06/07/18 03:51	7440-43-9	
Calcium	48500	ug/L	250	69.8	1	05/31/18 07:24	06/07/18 15:48	7440-70-2	
Chromium	<1.0	ug/L	3.4	1.0	1	05/31/18 07:24	06/07/18 03:51	7440-47-3	
Cobalt	0.32J	ug/L	1.0	0.085	1	05/31/18 07:24	06/07/18 03:51	7440-48-4	
Lead	0.26J	ug/L	1.0	0.20	1	05/31/18 07:24	06/07/18 03:51	7439-92-1	
Lithium	0.98J	ug/L	1.0	0.14	1	05/31/18 07:24	06/07/18 03:51	7439-93-2	
Molybdenum	5.9	ug/L	1.5	0.44	1	05/31/18 07:24	06/07/18 03:51	7439-98-7	
Selenium	2.6	ug/L	1.1	0.32	1	05/31/18 07:24	06/07/18 03:51	7782-49-2	
Thallium	0.19J	ug/L	1.0	0.14	1	05/31/18 07:24	06/07/18 03:51	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	<0.13	ug/L	0.42	0.13	1	06/01/18 08:55	06/04/18 09:57	7439-97-6	
Field Data		Analytical Method:							
Field pH	7.20	Std. Units			1		05/23/18 16:20		
Field Specific Conductance	610.2	umhos/cm			1		05/23/18 16:20		
Oxygen, Dissolved	1.96	mg/L			1		05/23/18 16:20	7782-44-7	
REDOX	99.7	mV			1		05/23/18 16:20		
Turbidity	3.24	NTU			1		05/23/18 16:20		
Static Water Level	610.68	feet			1		05/23/18 16:20		
Temperature, Water (C)	12.5	deg C			1		05/23/18 16:20		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	360	mg/L	20.0	8.7	1		05/30/18 14:30		
9040 pH		Analytical Method: EPA 9040							
pH at 25 Degrees C	7.6	Std. Units	0.10	0.010	1		05/29/18 11:11		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	27.5	mg/L	2.0	0.50	1		06/07/18 18:05	16887-00-6	
Fluoride	0.16J	mg/L	0.30	0.10	1		06/07/18 18:05	16984-48-8	
Sulfate	87.2	mg/L	15.0	5.0	5		06/08/18 11:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

Sample: MW 302 **Lab ID: 40169797002** Collected: 05/23/18 17:25 Received: 05/25/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Antimony	<0.15	ug/L	1.0	0.15	1	05/31/18 07:24	06/07/18 03:58	7440-36-0	
Arsenic	<0.28	ug/L	1.0	0.28	1	05/31/18 07:24	06/07/18 03:58	7440-38-2	
Barium	26.3	ug/L	1.1	0.34	1	05/31/18 07:24	06/07/18 03:58	7440-39-3	
Beryllium	<0.18	ug/L	1.0	0.18	1	05/31/18 07:24	06/07/18 03:58	7440-41-7	
Boron	239	ug/L	11.0	3.3	1	05/31/18 07:24	06/07/18 03:58	7440-42-8	
Cadmium	0.21J	ug/L	1.0	0.081	1	05/31/18 07:24	06/07/18 03:58	7440-43-9	
Calcium	68900	ug/L	250	69.8	1	05/31/18 07:24	06/07/18 15:55	7440-70-2	
Chromium	<1.0	ug/L	3.4	1.0	1	05/31/18 07:24	06/07/18 03:58	7440-47-3	
Cobalt	0.46J	ug/L	1.0	0.085	1	05/31/18 07:24	06/07/18 03:58	7440-48-4	
Lead	<0.20	ug/L	1.0	0.20	1	05/31/18 07:24	06/07/18 03:58	7439-92-1	
Lithium	1.5	ug/L	1.0	0.14	1	05/31/18 07:24	06/07/18 03:58	7439-93-2	
Molybdenum	2.5	ug/L	1.5	0.44	1	05/31/18 07:24	06/07/18 03:58	7439-98-7	
Selenium	0.46J	ug/L	1.1	0.32	1	05/31/18 07:24	06/07/18 03:58	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	05/31/18 07:24	06/07/18 03:58	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	<0.13	ug/L	0.42	0.13	1	06/01/18 08:55	06/04/18 09:59	7439-97-6	
Field Data		Analytical Method:							
Field pH	6.48	Std. Units			1		05/23/18 17:25		
Field Specific Conductance	836	umhos/cm			1		05/23/18 17:25		
Oxygen, Dissolved	0.58	mg/L			1		05/23/18 17:25	7782-44-7	
REDOX	90.0	mV			1		05/23/18 17:25		
Turbidity	0.02	NTU			1		05/23/18 17:25		
Static Water Level	610.78	feet			1		05/23/18 17:25		
Temperature, Water (C)	12.6	deg C			1		05/23/18 17:25		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	534	mg/L	20.0	8.7	1		05/30/18 14:30		
9040 pH		Analytical Method: EPA 9040							
pH at 25 Degrees C	6.8	Std. Units	0.10	0.010	1		05/29/18 11:12		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	11.3	mg/L	2.0	0.50	1		06/07/18 18:47	16887-00-6	
Fluoride	<0.10	mg/L	0.30	0.10	1		06/07/18 18:47	16984-48-8	
Sulfate	222	mg/L	30.0	10.0	10		06/08/18 11:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

Sample: MW 303 **Lab ID: 40169797003** Collected: 05/23/18 18:30 Received: 05/25/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Antimony	<0.15	ug/L	1.0	0.15	1	05/31/18 07:24	06/07/18 04:05	7440-36-0	
Arsenic	<0.28	ug/L	1.0	0.28	1	05/31/18 07:24	06/07/18 04:05	7440-38-2	
Barium	64.1	ug/L	1.1	0.34	1	05/31/18 07:24	06/07/18 04:05	7440-39-3	
Beryllium	<0.18	ug/L	1.0	0.18	1	05/31/18 07:24	06/07/18 04:05	7440-41-7	
Boron	153	ug/L	11.0	3.3	1	05/31/18 07:24	06/07/18 04:05	7440-42-8	
Cadmium	0.18J	ug/L	1.0	0.081	1	05/31/18 07:24	06/07/18 04:05	7440-43-9	
Calcium	68600	ug/L	250	69.8	1	05/31/18 07:24	06/07/18 16:01	7440-70-2	
Chromium	<1.0	ug/L	3.4	1.0	1	05/31/18 07:24	06/07/18 04:05	7440-47-3	
Cobalt	0.51J	ug/L	1.0	0.085	1	05/31/18 07:24	06/07/18 04:05	7440-48-4	
Lead	<0.20	ug/L	1.0	0.20	1	05/31/18 07:24	06/07/18 04:05	7439-92-1	
Lithium	0.95J	ug/L	1.0	0.14	1	05/31/18 07:24	06/07/18 04:05	7439-93-2	
Molybdenum	3.8	ug/L	1.5	0.44	1	05/31/18 07:24	06/07/18 04:05	7439-98-7	
Selenium	<0.32	ug/L	1.1	0.32	1	05/31/18 07:24	06/07/18 04:05	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	05/31/18 07:24	06/07/18 04:05	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	<0.13	ug/L	0.42	0.13	1	06/01/18 08:55	06/04/18 10:02	7439-97-6	
Field Data		Analytical Method:							
Field pH	6.77	Std. Units			1		05/23/18 18:30		
Field Specific Conductance	905	umhos/cm			1		05/23/18 18:30		
Oxygen, Dissolved	0.26	mg/L			1		05/23/18 18:30	7782-44-7	
REDOX	73.3	mV			1		05/23/18 18:30		
Turbidity	0.05	NTU			1		05/23/18 18:30		
Static Water Level	610.61	feet			1		05/23/18 18:30		
Temperature, Water (C)	12.2	deg C			1		05/23/18 18:30		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	574	mg/L	20.0	8.7	1		05/30/18 14:30		
9040 pH		Analytical Method: EPA 9040							
pH at 25 Degrees C	7.0	Std. Units	0.10	0.010	1		05/29/18 11:13		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	44.3	mg/L	20.0	5.0	10		06/08/18 11:37	16887-00-6	
Fluoride	<0.10	mg/L	0.30	0.10	1		06/07/18 18:57	16984-48-8	M0
Sulfate	221	mg/L	30.0	10.0	10		06/08/18 11:37	14808-79-8	

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ANALYTICAL RESULTS

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

Sample: FIELD BLANK **Lab ID: 40169797004** Collected: 05/23/18 18:00 Received: 05/25/18 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Antimony	<0.15	ug/L	1.0	0.15	1	05/31/18 07:24	06/07/18 01:53	7440-36-0	
Arsenic	<0.28	ug/L	1.0	0.28	1	05/31/18 07:24	06/07/18 01:53	7440-38-2	
Barium	<0.34	ug/L	1.1	0.34	1	05/31/18 07:24	06/07/18 01:53	7440-39-3	
Beryllium	<0.18	ug/L	1.0	0.18	1	05/31/18 07:24	06/07/18 01:53	7440-41-7	
Boron	<3.3	ug/L	11.0	3.3	1	05/31/18 07:24	06/07/18 01:53	7440-42-8	
Cadmium	<0.081	ug/L	1.0	0.081	1	05/31/18 07:24	06/07/18 01:53	7440-43-9	
Calcium	<69.8	ug/L	250	69.8	1	05/31/18 07:24	06/07/18 16:07	7440-70-2	
Chromium	<1.0	ug/L	3.4	1.0	1	05/31/18 07:24	06/07/18 01:53	7440-47-3	
Cobalt	<0.085	ug/L	1.0	0.085	1	05/31/18 07:24	06/07/18 01:53	7440-48-4	
Lead	<0.20	ug/L	1.0	0.20	1	05/31/18 07:24	06/07/18 01:53	7439-92-1	
Lithium	<0.14	ug/L	1.0	0.14	1	05/31/18 07:24	06/07/18 01:53	7439-93-2	
Molybdenum	<0.44	ug/L	1.5	0.44	1	05/31/18 07:24	06/07/18 01:53	7439-98-7	
Selenium	<0.32	ug/L	1.1	0.32	1	05/31/18 07:24	06/07/18 01:53	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	05/31/18 07:24	06/07/18 01:53	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	<0.13	ug/L	0.42	0.13	1	06/01/18 08:55	06/04/18 10:09	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	<8.7	mg/L	20.0	8.7	1		05/30/18 14:31		
9040 pH		Analytical Method: EPA 9040							
pH at 25 Degrees C	6.9	Std. Units	0.10	0.010	1		05/29/18 11:15		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	0.51J	mg/L	2.0	0.50	1		06/07/18 19:29	16887-00-6	
Fluoride	<0.10	mg/L	0.30	0.10	1		06/07/18 19:29	16984-48-8	
Sulfate	<1.0	mg/L	3.0	1.0	1		06/07/18 19:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

QC Batch: 290652 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 40169797001, 40169797002, 40169797003, 40169797004

METHOD BLANK: 1700161 Matrix: Water
Associated Lab Samples: 40169797001, 40169797002, 40169797003, 40169797004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.13	0.42	06/04/18 09:22	

LABORATORY CONTROL SAMPLE: 1700162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1700163 1700164

Parameter	Units	1700163		1700164		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40169796001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	<0.13	5	5	4.7	4.6	94	92	85-115	2	20

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QUALITY CONTROL DATA

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

QC Batch: 290500 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 40169797001, 40169797002, 40169797003, 40169797004

METHOD BLANK: 1699477 Matrix: Water
Associated Lab Samples: 40169797001, 40169797002, 40169797003, 40169797004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.15	1.0	06/07/18 01:39	
Arsenic	ug/L	<0.28	1.0	06/07/18 01:39	
Barium	ug/L	<0.34	1.1	06/07/18 01:39	
Beryllium	ug/L	<0.18	1.0	06/07/18 01:39	
Boron	ug/L	<3.3	11.0	06/07/18 01:39	
Cadmium	ug/L	<0.081	1.0	06/07/18 01:39	
Calcium	ug/L	<69.8	250	06/07/18 14:19	
Chromium	ug/L	<1.0	3.4	06/07/18 01:39	
Cobalt	ug/L	<0.085	1.0	06/07/18 01:39	
Lead	ug/L	<0.20	1.0	06/07/18 01:39	
Lithium	ug/L	<0.14	1.0	06/07/18 01:39	
Molybdenum	ug/L	<0.44	1.5	06/07/18 01:39	
Selenium	ug/L	<0.32	1.1	06/07/18 01:39	
Thallium	ug/L	<0.14	1.0	06/07/18 01:39	

LABORATORY CONTROL SAMPLE: 1699478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	505	101	80-120	
Arsenic	ug/L	500	496	99	80-120	
Barium	ug/L	500	485	97	80-120	
Beryllium	ug/L	500	497	99	80-120	
Boron	ug/L	500	466	93	80-120	
Cadmium	ug/L	500	502	100	80-120	
Calcium	ug/L	5000	4760	95	80-120	
Chromium	ug/L	500	485	97	80-120	
Cobalt	ug/L	500	477	95	80-120	
Lead	ug/L	500	463	93	80-120	
Lithium	ug/L	500	476	95	80-120	
Molybdenum	ug/L	500	488	98	80-120	
Selenium	ug/L	500	536	107	80-120	
Thallium	ug/L	500	461	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1699479 1699480

Parameter	Units	MS Result	MSD Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony	ug/L	<0.15	500	500	498	511	100	102	75-125	2	20

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QUALITY CONTROL DATA

Project: 25218055 NELSON DEWEY WPL/CCR

Pace Project No.: 40169797

Parameter	Units	40169796001		1699479		1699480		% Rec	% Rec	% Rec	Limits	RPD	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Arsenic	ug/L	<0.28	500	500	488	500	98	100	75-125	2	20			
Barium	ug/L	11.3	500	500	496	507	97	99	75-125	2	20			
Beryllium	ug/L	<0.18	500	500	487	536	97	107	75-125	10	20			
Boron	ug/L	92.0	500	500	563	653	94	112	75-125	15	20			
Cadmium	ug/L	<0.081	500	500	489	501	98	100	75-125	2	20			
Calcium	ug/L	78400	5000	5000	85900	80800	149	46	75-125	6	20	P6		
Chromium	ug/L	2.2J	500	500	478	493	95	98	75-125	3	20			
Cobalt	ug/L	<0.085	500	500	463	477	93	95	75-125	3	20			
Lead	ug/L	<0.20	500	500	466	477	93	95	75-125	2	20			
Lithium	ug/L	3.8	500	500	472	524	94	104	75-125	11	20			
Molybdenum	ug/L	7.2	500	500	498	513	98	101	75-125	3	20			
Selenium	ug/L	0.58J	500	500	529	540	106	108	75-125	2	20			
Thallium	ug/L	<0.14	500	500	466	480	93	96	75-125	3	20			

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QUALITY CONTROL DATA

Project: 25218055 NELSON DEWEY WPL/CCR

Pace Project No.: 40169797

QC Batch: 290444

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 40169797001, 40169797002, 40169797003, 40169797004

METHOD BLANK: 1699202

Matrix: Water

Associated Lab Samples: 40169797001, 40169797002, 40169797003, 40169797004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	05/30/18 14:28	

LABORATORY CONTROL SAMPLE: 1699203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	615	590	96	80-120	

SAMPLE DUPLICATE: 1699204

Parameter	Units	40169693003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	414	398	4	5	

SAMPLE DUPLICATE: 1699205

Parameter	Units	40169865001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	250	248	1	5	

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QUALITY CONTROL DATA

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

QC Batch: 290200 Analysis Method: EPA 9040
QC Batch Method: EPA 9040 Analysis Description: 9040 pH
Associated Lab Samples: 40169797001, 40169797002, 40169797003, 40169797004

SAMPLE DUPLICATE: 1698516

Parameter	Units	40169613002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.5	0	20	H6

SAMPLE DUPLICATE: 1698517

Parameter	Units	40169697001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.1	0	20	H6

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QUALITY CONTROL DATA

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

QC Batch: 290551 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40169797001, 40169797002, 40169797003, 40169797004

METHOD BLANK: 1699663 Matrix: Water
Associated Lab Samples: 40169797001, 40169797002, 40169797003, 40169797004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	06/07/18 14:23	
Fluoride	mg/L	<0.10	0.30	06/07/18 14:23	
Sulfate	mg/L	<1.0	3.0	06/07/18 14:23	

LABORATORY CONTROL SAMPLE: 1699664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.5	102	90-110	
Fluoride	mg/L	2	2.1	103	90-110	
Sulfate	mg/L	20	20.5	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1699665 1699666

Parameter	Units	40169781002		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	173	400	400	400	598	596	106	106	106	90-110	0	15	
Fluoride	mg/L	<2.0	40	40	40	42.2	42.1	106	105	105	90-110	0	15	
Sulfate	mg/L	47.5J	400	400	400	460	464	103	104	104	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1699667 1699668

Parameter	Units	40169797003		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	44.3	200	200	200	256	256	106	106	106	90-110	0	15	
Fluoride	mg/L	<0.10	2	2	2	2.4	2.4	118	118	118	90-110	0	15 M0	
Sulfate	mg/L	221	200	200	200	430	427	104	103	103	90-110	1	15	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW 301 Lab ID: 40169797001 Collected: 05/23/18 16:20 Received: 05/25/18 09:45 Matrix: Water PWS: Site ID: Sample Type:							
Radium-226		EPA 903.1	-0.061 ± 0.318 (0.737) C:NA T:88%	pCi/L	06/18/18 19:36	13982-63-3	
Radium-228		EPA 904.0	0.439 ± 0.344 (0.669) C:78% T:77%	pCi/L	06/15/18 15:56	15262-20-1	
Total Radium		Total Radium Calculation	0.439 ± 0.662 (1.41)	pCi/L	06/19/18 12:56	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW 302 Lab ID: 40169797002 Collected: 05/23/18 17:25 Received: 05/25/18 09:45 Matrix: Water PWS: Site ID: Sample Type:							
Radium-226		EPA 903.1	0.113 ± 0.415 (0.798) C:NA T:96%	pCi/L	06/18/18 19:36	13982-63-3	
Radium-228		EPA 904.0	0.629 ± 0.413 (0.776) C:69% T:84%	pCi/L	06/15/18 15:56	15262-20-1	
Total Radium		Total Radium Calculation	0.742 ± 0.828 (1.57)	pCi/L	06/19/18 12:56	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW 303 Lab ID: 40169797003 Collected: 05/23/18 18:30 Received: 05/25/18 09:45 Matrix: Water PWS: Site ID: Sample Type:							
Radium-226		EPA 903.1	0.308 ± 0.469 (0.808) C:NA T:90%	pCi/L	06/18/18 19:36	13982-63-3	
Radium-228		EPA 904.0	0.00887 ± 0.453 (1.05) C:74% T:78%	pCi/L	06/15/18 17:14	15262-20-1	
Total Radium		Total Radium Calculation	0.317 ± 0.922 (1.86)	pCi/L	06/19/18 12:56	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FIELD BLANK Lab ID: 40169797004 Collected: 05/23/18 18:00 Received: 05/25/18 09:45 Matrix: Water PWS: Site ID: Sample Type:							
Radium-226		EPA 903.1	0.0549 ± 0.388 (0.774) C:NA T:90%	pCi/L	06/18/18 19:50	13982-63-3	
Radium-228		EPA 904.0	0.0338 ± 0.423 (0.979) C:78% T:75%	pCi/L	06/15/18 17:14	15262-20-1	
Total Radium		Total Radium Calculation	0.0887 ± 0.811 (1.75)	pCi/L	06/19/18 12:56	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 25218055 NELSON DEWEY WPL/CCR

Pace Project No.: 40169797

QC Batch:	300533	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
Associated Lab Samples:	40169797001, 40169797002, 40169797003, 40169797004		

METHOD BLANK:	1470785	Matrix:	Water
Associated Lab Samples:	40169797001, 40169797002, 40169797003, 40169797004		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.267 (0.431) C:NA T:88%	pCi/L	06/18/18 19:19	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 25218055 NELSON DEWEY WPL/CCR

Pace Project No.: 40169797

QC Batch:	300868	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
Associated Lab Samples:	40169797001, 40169797002, 40169797003, 40169797004		

METHOD BLANK:	1472493	Matrix:	Water
Associated Lab Samples:	40169797001, 40169797002, 40169797003, 40169797004		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.780 ± 0.478 (0.873) C:57% T:79%	pCi/L	06/15/18 12:48	

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QUALIFIERS

Project: 25218055 NELSON DEWEY WPL/CCR
Pace Project No.: 40169797

DEFINITIONS

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

H6 Analysis initiated outside of the 15 minute EPA required holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25218055 NELSON DEWEY WPL/CCR

Pace Project No.: 40169797

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40169797001	MW 301	EPA 3010	290500	EPA 6020	290624
40169797002	MW 302	EPA 3010	290500	EPA 6020	290624
40169797003	MW 303	EPA 3010	290500	EPA 6020	290624
40169797004	FIELD BLANK	EPA 3010	290500	EPA 6020	290624
40169797001	MW 301	EPA 7470	290652	EPA 7470	290751
40169797002	MW 302	EPA 7470	290652	EPA 7470	290751
40169797003	MW 303	EPA 7470	290652	EPA 7470	290751
40169797004	FIELD BLANK	EPA 7470	290652	EPA 7470	290751
40169797001	MW 301				
40169797002	MW 302				
40169797003	MW 303				
40169797001	MW 301	EPA 903.1	300533		
40169797002	MW 302	EPA 903.1	300533		
40169797003	MW 303	EPA 903.1	300533		
40169797004	FIELD BLANK	EPA 903.1	300533		
40169797001	MW 301	EPA 904.0	300868		
40169797002	MW 302	EPA 904.0	300868		
40169797003	MW 303	EPA 904.0	300868		
40169797004	FIELD BLANK	EPA 904.0	300868		
40169797001	MW 301	Total Radium Calculation	302718		
40169797002	MW 302	Total Radium Calculation	302718		
40169797003	MW 303	Total Radium Calculation	302718		
40169797004	FIELD BLANK	Total Radium Calculation	302718		
40169797001	MW 301	SM 2540C	290444		
40169797002	MW 302	SM 2540C	290444		
40169797003	MW 303	SM 2540C	290444		
40169797004	FIELD BLANK	SM 2540C	290444		
40169797001	MW 301	EPA 9040	290200		
40169797002	MW 302	EPA 9040	290200		
40169797003	MW 303	EPA 9040	290200		
40169797004	FIELD BLANK	EPA 9040	290200		
40169797001	MW 301	EPA 300.0	290551		
40169797002	MW 302	EPA 300.0	290551		
40169797003	MW 303	EPA 300.0	290551		
40169797004	FIELD BLANK	EPA 300.0	290551		

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(Please Print Clearly)



CHAIN OF CUSTODY

A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

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

455m
W0169797

Company Name: SCS		Branch/Location: Madison		Project Contact: Greg Biedack		Phone: (608) 224-2530		Project Number:		Project Name: Nelson Dewey		Project State: WI		Sampled By (Print): Paul A Sparr		Sampled By (Sign): <i>Paul A Sparr</i>		PO #:		Regulatory Program:	
Data Package Options (billable)				MS/MSD (billable)				Matrix Codes				FILTERED? (YES/NO)				PRESERVATION (CODE)*					
<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV				<input type="checkbox"/> On your sample (billable) <input type="checkbox"/> NOT needed on your sample				A = Air W = Water B = Biota DW = Drinking Water C = Charcoal O = Oil GW = Ground Water S = Soil SW = Surface Water SI = Sludge WP = Wipe				A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other									
PAGE LAB #		CLIENT FIELD ID		DATE		COLLECTION TIME		MATRIX		Analyses Requested		Y/N		Pick Letter							
001		MW 301		5/23/18		16:20		GW		See Attached List		N/A		A/D							
002		MW 302		17:35								X									
003		MW 303		18:30								X									
201		Field Blank		18:00		DE						X									
Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)																					
Date Needed:																					
Transmit Prelim Rush Results by (complete what you want):																					
Relinquished By: <i>Paul A. Sparr</i> Date/Time: 5/24/18 16:30 Received By: <i>BRAMS</i> Date/Time: 5/24/18 09:45																					
Relinquished By: <i>CS Log 3418</i> Date/Time: 5/25/18 09:45 Received By: <i>BRAMS</i> Date/Time: 5/24/18 09:45																					
Relinquished By: Date/Time: Received By: Date/Time:																					
Relinquished By: Date/Time: Received By: Date/Time:																					
Relinquished By: Date/Time: Received By: Date/Time:																					
Samples on HOLD are subject to special pricing and release of liability																					
PACE Project No. W0169797																		Receipt Temp = 101 °C		<input checked="" type="checkbox"/> Sample Receipt pH OK / Adjusted <input checked="" type="checkbox"/> Custody Seal Present / Not Present Intact / Not Intact	

Table 2. Sampling Points and Parameters - CCR Rule Sampling Program
 Groundwater Monitoring - Nelson Dewey Generating Station / SCS Engineers Project #25218055.00

40169797

	Parameter	MW-301	MW-302	MW-303	Field Blank	TOTAL
Appendix III Parameters	Boron	x	x	x	x	4
	Calcium	x	x	x	x	4
	Chloride	x	x	x	x	4
	Fluoride	x	x	x	x	4
	pH	x	x	x	x	4
	Sulfate	x	x	x	x	4
	TDS	x	x	x	x	4
Appendix IV Parameters	Antimony	x	x	x	x	4
	Arsenic	x	x	x	x	4
	Barium	x	x	x	x	4
	Beryllium	x	x	x	x	4
	Cadmium	x	x	x	x	4
	Chromium	x	x	x	x	4
	Cobalt	x	x	x	x	4
	Fluoride	x	x	x	x	4
	Lead	x	x	x	x	4
	Lithium	x	x	x	x	4
	Mercury	x	x	x	x	4
	Molybdenum	x	x	x	x	4
	Selenium	x	x	x	x	4
	Thallium	x	x	x	x	4
Radium	x	x	x	x	4	
Field Parameters	Groundwater Elevation	x	x	x		3
	Well Depth	x	x	x		3
	pH (field)	x	x	x		3
	Specific Conductance	x	x	x		3
	Dissolved Oxygen	x	x	x		3
	ORP	x	x	x		3
	Temperature	x	x	x		3
	Turbidity	x	x	x		3
	Color	x	x	x		3
	Odor	x	x	x		3

Notes:

I:\25218055.00\Data and Calculations\Tables\WPL_ND_CCR_Rule_Sam

Client Name: SCS

Sample Preservation Receipt Form

Project # 40164977

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

Initial when completed: PS Date/Time:

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Lab #	Glass	Plastic	Vials	Jars	General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
					SP5T	ZPLC	GN							
001														2.5 / 5 / 10
002														2.5 / 5 / 10
003														2.5 / 5 / 10
004														2.5 / 5 / 10
005														2.5 / 5 / 10
006														2.5 / 5 / 10
007														2.5 / 5 / 10
008														2.5 / 5 / 10
009														2.5 / 5 / 10
010														2.5 / 5 / 10
011														2.5 / 5 / 10
012														2.5 / 5 / 10
013														2.5 / 5 / 10
014														2.5 / 5 / 10
015														2.5 / 5 / 10
016														2.5 / 5 / 10
017														2.5 / 5 / 10
018														2.5 / 5 / 10
019														2.5 / 5 / 10
020														2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____

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:
1 liter amber glass	1 liter amber glass HCL	125 ml amber glass H2SO4	120 ml amber glass unpres	100 ml amber glass unpres	500 ml amber glass H2SO4	250 ml clear glass unpres	1 liter plastic unpres	500 ml plastic HNO3	500 ml plastic NaOH, Znact	250 ml plastic unpres	250 ml plastic NaOH	250 ml plastic HNO3	250 ml plastic H2SO4	40 ml amber ascorbic	40 ml amber Na Thio	40 ml clear vial unpres	40 ml clear vial HCL	40 ml clear vial MeOH	40 ml clear vial DI	4 oz amber jar unpres	4 oz clear jar unpres	4 oz plastic jar unpres	120 ml plastic Na Thiosulfate	ziploc bag	1c big HNO3

Sample Condition Upon Receipt Form (SCUR)

Client Name: SCS

Project #: WO#: 40169797

40169797

Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Tracking #: 2134 052418

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None

Cooler Temperature Uncorr: 102 / Corr: _____ Samples on ice, cooling process has begun

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
Date: 5/25/18
Initials: AS

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>ool - 1 - impres. bottle was orig. ID crossed out + no new ID</u> <i>AS 5/25/18</i>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: *[Signature]* Date: 5/25/18