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E-Mail: <u>uasinc@uas1.com</u>

December 7, 2017

Board of Education Queen Bee School District #16 1560 Bloomingdale Road Glendale Heights, Illinois 60139 **UAS Project #1798621-01**

Attn: Mr. Dick Mabberley, Director of Buildings and Grounds

Re: Summary of Findings - Lead in Drinking Water Sampling & Lab Analysis

Americana Elementary School -

1629 President Street, Glendale Heights, IL

November 14, 2017

Dear Mr. Mabberley:

United Analytical Services, Inc. (UAS) prepared this executive summary of findings for the drinking water sampling performed at Queen Bee School District #16's Americana Elementary School located at 1629 President Street in Glendale Heights, Illinois on November 14, 2017. The current testing involved collecting drinking water samples from ALL twelve (12) of the drinking water sources/locations throughout the school facility that are accessible to the Students, Faculty and Staff, with subsequent laboratory analysis for the presence of Lead. Including 1st draw and 2nd draw samples at each of the drinking water sources, a total of twenty-four (24) water samples were collected during this current assessment.

It should be noted that the current sampling at this Queen Bee School District #16 school facility included only the IDPH required drinking water and/or potable water sources within the school building, as noted.

The laboratory results reveal that the reported concentrations for twelve (12) of the twelve (12) drinking water samples resulted in concentrations below the IDPH public notification/communication target level of 5 μ g Lead/L. Zero (0) of the samples revealed a drinking water concentration above the IDPH public notification/communication target level of 5 μ g Lead/L.

SAMPLING REQUIREMENTS AND METHODOLOGY -

The current sampling and reporting followed the Illinois Public Act 99-0922 requirements. Following the IDPH requirements and reporting, it should be noted that UAS performed and provided the services noted below, including, but not limited to, the following:

- 1. The current testing and analysis was limited only to those twelve (12) locations/sources noted.
- 2. UAS provided fixture/source identifiers for each of the sources/locations identified with alphanumeric identifiers for each fixture and sample.
- 3. UAS utilized sampling media (250 mL sample bottles) obtained from a State of Illinois Environmental Protection Agency (IEPA) accredited laboratory, labeled all sampling bottles with the alphanumeric identifiers and prepared a Chain of Custody form for samples.
- 4. The IEPA accredited laboratory that UAS utilized to perform the laboratory analysis for this project was Pace Analytical Services, LLC (Pace) of Minneapolis, MN. Pace is recognized by the IEPA as NELAP-Recognized Environmental Laboratory for Lead in Drinking Water. A copy of the SLI accreditation for the approved method is attached. UAS confirmed with SLI, that the IDPH required minimum reporting limit (MRL) and significant digits requested by IDPH could be utilized and documented. The MRL identified by IDPH, and utilized for this assessment was 2.00 μg Lead/L, or lower.
- 5. Following confirmation from Queen Bee School District #16 (Queen Bee S.D. #16) that each of the target drinking water sources/systems had been allowed a mandated stagnation period of eight (8) to eighteen (18) hours, UAS collected the required 1st Draw and 2nd Draw (30 second flush) drinking water samples from each drinking water fixture/source identified by Queen Bee #16. Queen Bee S.D. #16 reported that the last use of any of the sources/fixtures in the school was 8:00 p.m. on November 13, 2017, following a day of typical school occupancy and usage within the facility. The sample collection by UAS began at 4:30 a.m. on November 14, 2017 and was completed prior to any water use within the building.
- 6. UAS completed and compiled Chain of Custody forms for the school building samples.
- 7. UAS submitted the samples to Pace following strict Chain of Custody protocols.
- 8. UAS compiled this final summary report with results for this school using IDPH's guidance for reporting, data and information spreadsheet to ensure consistency and reliability.
- 10. All sampling, documentation and reporting was performed under the direct supervision of an Illinois Department of Public Health (IDPH) licensed Lead Inspector/Risk Assessor.

IDPH REPORTING & PUBLIC NOTIFICATION -

As required, IDPH Reporting and Public Notification requirements shall be the responsibility of Queen Bee School District #16. Please note the following: Illinois Public Act 099-0922: Within seven (7) days of receipt of these test results, the district/school must email all test results to IDPH. If any of the samples taken in the school exceed 5 parts per billion (μ g/L), the school district or chief school administrator, or the designee of the school district or chief school administrator, shall promptly provide an individual notification of the sampling results, via written or electronic communication, to the parents or legal guardians of all enrolled students and include the following information: the corresponding sampling location within the school building and the United States Environmental Protection Agency's website for information about lead in drinking water. If any of the samples taken at the school are at or below 5 parts per billion (μ g/L), notification may be made by posting on the schools website.

TEST RESULTS / SUMMARY OF FINDINGS-

The test results are noted in the attached Spreadsheet and Analytical Laboratory Reports. The current testing and analysis was limited only to those twelve (12) locations/sources noted. Review of the current testing laboratory data reveals the following:

The results from twelve (12) of the twelve (12) locations/sources reveled concentrations below both the IDPH mitigation strategies lower limit of 2 ppb, and below the IDPH public notification/communication target level of 5 µg Lead/L.

Zero (0) of the twelve (12) locations/sources reported a concentration at/above the IDPH mitigation strategies lower limit of 2 ppb, but below the IDPH public notification/communication target level of 5 µg Lead/L.

Zero (0) of the twelve (12) locations/sources revealed a drinking water concentration above the IDPH public notification/communication target level of 5 µg Lead/L.

Pursuant to Public Act 99-0922, the Illinois Plumbing Licensing Law (225 ILCS 320/35.5), the IDPH is required to provide guidance to schools concerning mitigation of hazards discovered by testing for lead in water. While Section 35.5 does not require mitigation, IDPH is requiring the mitigation strategies and requirements contained in their Guidance Document for Mitigating Lead in Schools (copy attached) to be followed for all plumbing fixtures identified with any level of lead. IDPH further notes that mitigation strategies should continue until subsequent testing indicates no lead is present in water.

RECOMMENDATIONS -

At this time, UAS recommends the following:

- 1. Along with their standard water programs, Queen Bee School District #16 should follow the IDPH reporting requirements, as well as the mitigation strategies and requirements contained in their Guidance Document for Mitigating Lead in Schools (copy attached) for the sources, locations and fixtures that were identified with lead greater than 2 parts per billion (μg/L). IDPH further notes that mitigation strategies should continue until subsequent testing indicates no lead (<2.00 ppb) is present in water. While none were revealed, it should be noted that any source, location and fixture that was identified with lead of 5 parts per billion (μg/L) or greater should be taken "off-line", either permanently, or until such time that mitigation and subsequent testing demonstrate that lead levels are within acceptable IDPH limits.
- 2. Queen Bee School District #16 should provide this report and results to IDPH in accordance with Illinois Public Act 099-0922.
- 3. Pursuant to Public Act 99-0922, the Illinois Plumbing Licensing Law (225 ILCS 320/35.5), the IDPH is required to provide guidance to schools concerning mitigation of hazards discovered by testing for lead in water. While Section 35.5 does not require mitigation, IDPH is requiring the mitigation strategies and requirements contained in their Guidance Document for Mitigating

Mr. Dick Mabberley, Director of Buildings and Grounds Summary of Findings - Lead in Drinking Water Sampling & Lab Analysis Queen Bee School District #16 Americana Elementary School -1629 President Street, Glendale Heights, IL 60139

Lead in Schools (copy attached) to be followed for all plumbing fixtures identified with any level of lead. IDPH further notes that mitigation strategies should continue until subsequent testing indicates no lead (i.e. <2.00 ppb) is present in water.

Thank you for the continued opportunity to be of service to Queen Bee School District #16. If you have any questions regarding this information, please do not hesitate to contact our office.

Sincerely,

UNITED ANALYTICAL SERVICES, INC.

(V. Danelle

Thad Daniels

Director of Field Services

Lead Risk Assessor (IL 001047)

attachments: IDPH Spreadsheet Summary of Lead in Drinking Water

12/06/17 Laboratory Report & COCs

IDPH Mitigation Strategies

UAS' Inspector/Sample Collector License & Accreditation

Pace Laboratory Accreditation

cc: Kevin E. Aikman, Ph.D., CIH, FAIHA (UAS)

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Pace Analytical Services, LLC 1700 Elm Street - Suite 200 Minneapolis, MN 55414 (612)607-1700



December 06, 2017

Thad Daniels United Analytical Services, Inc. 1429 Centre Circle Drive Downers Grove, IL 60515

RE: Project: 1798621-01 S.D.#16-Americana

Pace Project No.: 10411776

Dear Thad Daniels:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2017. 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,

Sylvia Hunter

Sylvia Hunter

sylvia.hunter@pacelabs.com

1(612)607-1700 Project Manager

Enclosures

cc: Mr. Thad Daniels, United Analytical Services, Inc







CERTIFICATIONS

Project:

1798621-01 S.D.#16-Americana

Pace Project No.:

10411776

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-

2485

A2LA Certification #: 2926.01 Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas Certification #: 88-0680 California Certification #: 2929 CNMI Saipan Certification #:MP0003

Colorado Certification #: MN00064 Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-

053-137

Georgia Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: 200011
Indiana Certification #: C-MN-01

Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064

Maine Certification #: MN00064 Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647

North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507

Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970



SAMPLE SUMMARY

Project:

1798621-01 S.D.#16-Americana

Pace Project No.: 10411776

1 acc i rojectivi	J., 10411770			
Lab ID	Sample ID	Matrix	Date Collected	Date Received
10411776001	AS-01a South Hallway DWC Left	Water	11/14/17 04:30	11/20/17 10:30
10411776002	AS-01b South Hallway DWC Left	Water	11/14/17 04:30	11/20/17 10:30
10411776003	AS-02a South Hallway DWC Right	Water	11/14/17 04:30	11/20/17 10:30
10411776004	AS-02b South Hallway DWC Right	Water	11/14/17 04:30	11/20/17 10:30
0411776005	AS-03a South Hallway BFS	Water	11/14/17 04:30	11/20/17 10:30
0411776006	AS-03b South Hallway BFS	Water	11/14/17 04:30	11/20/17 10:30
0411776007	AS-04a Gym Hallway DWC Left	Water	11/14/17 04:30	11/20/17 10:30
0411776008	AS-04b Gym Hallway DWC Left	Water	11/14/17 04:30	11/20/17 10:30
0411776009	AS-05a Gym Hallway DWC Right	Water	11/14/17 04:30	11/20/17 10:30
411776010	AS-05b Gym Hallway DWC Right	Water	11/14/17 04:30	11/20/17 10:30
411776011	AS-06a Gym Hallway BFS	Water	11/14/17 04:30	11/20/17 10:30
411776012	AS-06b Gym Hallway BFS	Water	11/14/17 04:30	11/20/17 10:30
411776013	AS-07a NW Hallway DWC Left	Water	11/14/17 04:30	11/20/17 10:30
411776014	AS-07b NW Hallway DWC Left	Water	11/14/17 04:30	11/20/17 10:30
411776015	AS-08a NW Hallway DWC Right	Water	11/14/17 04:30	11/20/17 10:30
411776016	AS-08b NW Hallway DWC Right	Water	11/14/17 04:30	11/20/17 10:30
411776017	AS-09a NC Hallway DWC Left	Water	11/14/17 04:30	11/20/17 10:30
411776018	AS-09b NC Hallway DWC Left	Water	11/14/17 04:30	11/20/17 10:30
411776019	AS-10a NC Hallway DWC Right	Water	11/14/17 04:30	11/20/17 10:30
0411776020	AS-10b NC Hallway DWC Right	Water	11/14/17 04:30	11/20/17 10:30
411776021	AS-11a NE Hallway DWC Left	Water	11/14/17 04:30	11/20/17 10:30
411776022	AS-11b NE Hallway DWC Left	Water	11/14/17 04:30	11/20/17 10:30
1 11776023	AS-12a NE Hallway BFS	Water	11/14/17 04:30	11/20/17 10:30
411776024	AS-12b NE Hallway BFS	Water	11/14/17 04:30	11/20/17 10:30
411776025	AS-13a NE Hallway DWC Right	Water	11/14/17 04:30	11/20/17 10:30
0411776026	AS-13b NE Hallway DWC Right	Water	11/14/17 04:30	11/20/17 10:30



SAMPLE ANALYTE COUNT

Project:

1798621-01 S.D.#16-Americana

Pace Project No.: 10411776

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10411776001	AS-01a South Hallway DWC Left	EPA 200.8	WBS	1	PASI-M
10411776002	AS-01b South Hallway DWC Left	EPA 200.8	WBS	1	PASI-M
10411776003	AS-02a South Hallway DWC Right	EPA 200.8	WBS	1	PASI-M
10411776004	AS-02b South Hallway DWC Right	EPA 200.8	WBS	1	PASI-M
10411776005	AS-03a South Hallway BFS	EPA 200.8	WBS	1	PASI-M
10411776006	AS-03b South Hallway BFS	EPA 200.8	WBS	1	PASI-M
10411776007	AS-04a Gym Hallway DWC Left	EPA 200.8	WBS	1	PASI-M
10411776008	AS-04b Gym Hailway DWC Left	EPA 200.8	WBS	1	PASI-M
10411776009	AS-05a Gym Hallway DWC Right	EPA 200.8	WBS	1	PASI-M
10411776010	AS-05b Gym Hallway DWC Right	EPA 200.8	WBS	1	PASI-M
10411776011	AS-06a Gym Hallway BFS	EPA 200.8	WBS	1	PASI-M
10411776012	AS-06b Gym Hallway BFS	EPA 200.8	WBS	1	PASI-M
10411776013	AS-07a NW Hallway DWC Left	EPA 200.8	WBS	1	PASI-M
10411776014	AS-07b NW Hallway DWC Left	EPA 200.8	WBS	1	PASI-M
10411776015	AS-08a NW Hallway DWC Right	EPA 200.8	WBS	1	PASI-M
10411776016	AS-08b NW Hallway DWC Right	EPA 200.8	WBS	1	PASI-M
10411776017	AS-09a NC Hallway DWC Left	EPA 200.8	WBS	1	PASI-M
10411776018	AS-09b NC Hallway DWC Left	EPA 200.8	WBS	1	PASI-M
10411776019	AS-10a NC Hallway DWC Right	EPA 200.8	WBS	1	PASI-M
10411776020	AS-10b NC Hallway DWC Right	EPA 200.8	WBS	1	PASI-M
10411776021	AS-11a NE Hallway DWC Left	EPA 200.8	WBS	1	PASI-M
10411776022	AS-11b NE Hallway DWC Left	EPA 200.8	WBS	1	PASI-M
10411776023	AS-12a NE Hallway BFS	EPA 200.8	WBS	1	PASI-M
10411776024	AS-12b NE Hallway BFS	EPA 200.8	WBS	1	PASI-M
10411776025	AS-13a NE Hallway DWC Right	EPA 200.8	WBS	1	PASI-M
10411776026	AS-13b NE Hallway DWC Right	EPA 200.8	WBS	1	PASI-M



Project:

1798621-01 S.D.#16-Americana

Pace Project No.:

Date: 12/06/2017 09:01 AM

10411776

Sample:	AS-01a South Hallway DWC Left	Lab ID:	10411776001	Collecte	d: 11/14/1	7 04:30	Received: 11/	/20/17 10:30 M	latrix: Water	
				Report						
	Parameters	Results	Units	Limit —————	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/27/17 19:04	7439-92-1	
Sample:	AS-01b South Hallway DWC Left	Lab ID:	10411776002	Collected	d: 11/14/1	7 04:30	Received: 11/	20/17 10:30 M	atrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
	- Carametero	- 1000110								
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		0.11	ug/L	0.10	0.010	1		11/27/17 19:21	7439-92-1	
Sample:	AS-02a South Hallway DWC Right	Lab ID:	10411776003	Collected	d: 11/14/1	7 04:30	Received: 11/	20/17 10:30 M	atrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
	i didilictes	- Toodilo	Onito				- ropaica	, inchijzed		
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/27/17 19:22	7439-92-1	
Sample:	AS-02b South Hallway DWC Right	Lab ID:	10411776004	Collected	d: 11/14/1	7 04:30	Received: 11/	20/17 10:30 M	atrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/27/17 19:24	7439-92-1	
Sample:	AS-03a South Hallway BF	S Lab ID:	10411776005	Collected	d: 11/14/1	7 04:30	Received: 11/	20/17 10:30 M	atrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200 0 885		Analytical	Method: EPA 2							
	ET ICPMS, DW	·			0.040	4		11/07/17 10:05	7420 02 4	
Lead		ND	ug/L	0.10	0.010	1		11/27/17 19:25	7409-92-1	



Project:

1798621-01 S.D.#16-Americana

Pace Project No.: 10411776

Date: 12/06/2017 09:01 AM

	Parameters	Results	Units	Report Limit	MDL.	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/27/17 19:2	7 7439-92-1	
Sample:	AS-04a Gym Hallway DWC Left	Lab ID:	10411776007	Collected	: 11/14/1	7 04:30	Received: 11	/20/17 10:30 I	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/27/17 19:2	8 7439-92-1	
Sample:	AS-04b Gym Hallway DWC Left	Lab ID:	10411776008	Collected	: 11/14/17	7 04:30	Received: 11	/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Anaiyzed	CAS No.	Qual
200.8 ME	T ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/27/17 19:3	0 7439-92-1	
Sample:	AS-05a Gym Hallway DWC Right	Lab ID:	10411776009		: 11/14/17	7 04:30	Received: 11	/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	TICPMS, DW	Analytical	Method: EPA 2	200.8						
Lead		ND	ug/L	0.10	0.010	1		11/27/17 19:3	1 7439-92-1	
Sample:	AS-05b Gym Hallway DWC Right	Lab ID:	10411776010	Collected	: 11/14/17	7 04:30	Received: 11	/20/17 10:30 N	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
	TIODISC DW	Analytical	Method: EPA 2	nn 8						
200.8 ME	TICPINS, DW	Allalytical	moniou. El 712	.00.0						



Project:

1798621-01 S.D.#16-Americana

Pace Project No.:

Date: 12/06/2017 09:01 AM

10411776

Pace Project No.: 10411776									
Sample: AS-06a Gym Hallway BFS	Lab ID:	10411776011	Collected	: 11/14/1	7 04:30	Received: 1	1/20/17 10:30 N	Natrix: Water	
Parameters	Results	Units	Report Limit	MDL.	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead	ND	ug/L	0.10	0.010	1		11/27/17 19:39	7439-92-1	
Sample: AS-06b Gym Hallway BFS	Lab ID:	10411776012	Collected Report	: 11/14/1	7 04:30	Received: 1	1/20/17 10:30 N	latrix: Water	
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical	Method: EPA 2	8.002						
Lead	ND	ug/L	0.10	0.010	1		11/27/17 19:34	7439-92-1	
Sample: AS-07a NW Hallway DWC Left	Lab ID:	10411776013	Collected	: 11/14/1	7 04:30	Received: 1	1/20/17 10:30 N	fatrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead	0.26	ug/L	0.10	0.010	1		11/27/17 19:42	? 7439-92-1	
Sample: AS-07b NW Hallway DWC Left	Lab ID:	10411776014	Collected	11/14/1	7 04:30	Received: 11	1/20/17 10:30 M	latrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical	Method: EPA 2	8.00.8						
Lead	0.12	ug/L	0.10	0.010	1		11/27/17 19:43	3 7439-92-1	
Sample: AS-08a NW Hallway DWC Right	Lab ID:	10411776015	Collected	11/14/1	7 04:30	Received: 1	1/20/17 10:30 N	latrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead	0.16	ug/L	0.10	0.010	1		11/27/17 19:45	7439-92-1	



Project:

Lead

Date: 12/06/2017 09:01 AM

1798621-01 S.D.#16-Americana

Pace Pro	pject No.: 10411776									
Sample:	AS-08b NW Hallway DWC Right	Lab ID:	10411776016		i: 11/14/1	7 04:30	Received: 11	/20/17 10:30 M	latrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/27/17 19:46	7439-92-1	
Sample:	AS-09a NC Hallway DWC Left	Lab ID:	10411776017		: 11/14/1	7 04:30	Received: 11	/20/17 10:30 M	latrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	TICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		0.22	ug/L	0.10	0.010	1		11/27/17 19:48	7439-92-1	
Sample:	AS-09b NC Hallway DWC Left	Lab ID:	10411776018	Collected	: 11/14/1	7 04:30	Received: 11	/20/17 10:30 M	atrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	T ICPMS, DW	Analytical	Method: EPA 2	8.00.8						
Lead		0.24	ug/L	0.10	0.010	1		11/27/17 19:49	7439-92-1	
Sample:	AS-10a NC Hallway DWC Right	Lab ID:	10411776019	Collected	: 11/14/1	7 04:30	Received: 11	/20/17 10:30 M	atrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00.8						
Lead		0.34	ug/L	0.10	0.010	1		11/27/17 19:51	7439-92-1	
Sample:	AS-10b NC Hallway DWC Right	Lab ID:	10411776020	Collected	: 11/14/1	7 04:30	Received: 11	/20/17 10:30 M	atrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW		Method: EPA 2							

REPORT OF LABORATORY ANALYSIS

0.10

0.010

0.22

ug/L

11/27/17 19:52 7439-92-1

12/05/17 19:10 7439-92-1

12/05/17 19:13 7439-92-1

Analyzed

CAS No.

Qual

Received: 11/20/17 10:30

Prepared



200.8 MET ICPMS, DW

200.8 MET ICPMS, DW

Date: 12/06/2017 09:01 AM

Sample: AS-12b NE Hallway BFS

Parameters

Lead

Lead

ANALYTICAL RESULTS

Project:

1798621-01 S.D.#16-Americana

Sample: AS-11a NE Hallway DWC Left	Lab ID:	10411776021	Collected	d: 11/14/1	7 04:30	Received: 11/	20/17 10:30 M	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead	ND	ug/L	0.10	0.010	1		12/05/17 19:08	7439-92-1	
Sample: AS-11b NE Hallway DWC Left	Lab ID:	10411776022	Collected	d: 11/14/11	7 04:30	Received: 11/	20/17 10:30 Ma	atrix: Water	·
			Report					•	
Parameters	Results	Units	Limit ———————————————————————————————————	MDL	DF_	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead	ND	ug/L	0.10	0.010	1		12/05/17 19:09	7439-92-1	
Sample: AS-12a NE Hallway BFS	Lab ID:	10411776023	Collected	1: 11/14/17	7 04:30	Received: 11/	20/17 10:30 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual

0.10

Report

Limit

0.10

0.010

Collected: 11/14/17 04:30

MDL

0.010

DF

1

Analytical Method: EPA 200.8

Lab ID: 10411776024

ug/L

Units

Analytical Method: EPA 200.8

ug/L

ND

ND

Results

Sample: AS-13a NE Hallway DWC Lab ID: 10411776025 Collected: 11/14/17 04:30 Received: 11/20/17 10:30 Matrix: Water Right Report CAS No. DF Analyzed Qual Parameters Results Units Limit MDL Prepared 200.8 MET ICPMS, DW Analytical Method: EPA 200.8 12/05/17 19:14 7439-92-1 0.16 ug/L 0.10 0.010 Lead





Project:

1798621-01 S.D.#16-Americana

Pace Project No.:

10411776

Collected: 11/14/17 04:30 Sample: AS-13b NE Hallway DWC Lab ID: 10411776026

Right

Date: 12/06/2017 09:01 AM

Parameters

DF

1

Prepared

Received: 11/20/17 10:30

Matrix: Water

CAS No.

Qual

Report Limit

0.10

Results

200.8 MET ICPMS, DW Analytical Method: EPA 200.8 0.11

Lead

ug/L

Units

0.010

MDL

12/05/17 19:15 7439-92-1

Analyzed



QUALITY CONTROL DATA

Project:

1798621-01 S.D.#16-Americana

Pace Project No.:

10411776

QC Batch:

Lead

Lead

Lead

510204

Analysis Method:

EPA 200.8

QC Batch Method:

EPA 200.8

Analysis Description:

ICPMS Metals, Drinking Water

Associated Lab Samples:

10411776001, 10411776002, 10411776003, 10411776004, 10411776005, 10411776006, 10411776007, 10411776008, 10411776009, 10411776010, 10411776011, 10411776012, 10411776013, 10411776014,

10411776015, 10411776016, 10411776017, 10411776018, 10411776019, 10411776020

METHOD BLANK: 2775002

Matrix: Water

Associated Lab Samples:

10411776001, 10411776002, 10411776003, 10411776004, 10411776005, 10411776006, 10411776007, 10411776008, 10411776009, 10411776010, 10411776011, 10411776012, 10411776013, 10411776014,

10411776015, 10411776016, 10411776017, 10411776018, 10411776019, 10411776020

ND

Blank

Reporting

Parameter

Units

Result

Limit

MDL

Analyzed

Qualifiers

Lead

ug/L

0.10

0.010

11/27/17 19:03

LABORATORY CONTROL SAMPLE:

Parameter

2775003

Units

10411776001

Units

ug/L

Result

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

100 102 102 85-115 ug/L

MS

Spike

Conc.

100

Result

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

ND

MSD Spike

Conc.

100

ND

2776375 MS

Result

98.9

100

MSD

Result

101

102

MS % Rec

MSD % Rec

101

102

% Rec Limits

70-130

Max

RPD RPD Qual 20 2

MATRIX SPIKE SAMPLE:

Date: 12/06/2017 09:01 AM

Parameter

Parameter

2776376

Units

ug/L

10411776011

Spike Conc.

MS Result

MS % Rec

99

% Rec

Limits

Qualifiers 70-130

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



QUALITY CONTROL DATA

Project:

1798621-01 S.D.#16-Americana

Pace Project No.:

10411776

QC Batch:

510234

Analysis Method:

EPA 200.8

QC Batch Method:

EPA 200.8

Analysis Description:

ICPMS Metals, Drinking Water

Associated Lab Samples:

10411776021, 10411776022, 10411776023, 10411776024, 10411776025, 10411776026

METHOD BLANK: 2775163

Matrix: Water

Associated Lab Samples:

10411776021, 10411776022, 10411776023, 10411776024, 10411776025, 10411776026

ND

Blank

Reporting

Parameter

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

MATRIX SPIKE SAMPLE:

Date: 12/06/2017 09:01 AM

Units

Result

Limit

0.10

MDL 0.010

Analyzed 12/05/17 18:37 Qualifiers

Lead

2775164

ug/L

Units

10411771021

Result

Spike

LCS

LCS % Rec % Rec Limits

Lead

ug/L

Units

ug/L

Conc. 100

Spike

Conc.

Result 102

102

Result

101

85-115

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

2784197

ND

2784198

MS

100

MSD Spike

100

Conc.

MS MSD

MS % Rec

MSD % Rec

101

% Rec Limits

70-130

Max RPD RPD Qual

20

Lead

2784199

Units Parameter

10411776023 Result

Spike Conc.

Result

101

MS Result

MS % Rec

100

% Rec Limits

Qualifiers

Lead

ug/L

ND

100

100

100

70-130

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





QUALIFIERS

Project:

1798621-01 S.D.#16-Americana

Pace Project No.:

10411776

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

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.

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

Date: 12/06/2017 09:01 AM

PASI-M Pace Analytical Services - Minneapolis



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

1798621-01 S.D.#16-Americana

Pace Project No.: 10411776

Date: 12/06/2017 09:01 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10411776001	AS-01a South Hallway DWC Left	EPA 200.8	510204		
10411776002	AS-01b South Hallway DWC Left	EPA 200.8	510204		
10411776003	AS-02a South Hallway DWC Right	EPA 200.8	510204		
10411776004	AS-02b South Hallway DWC Right	EPA 200.8	510204		
10411776005	AS-03a South Hallway BFS	EPA 200.8	510204		
10411776006	AS-03b South Hallway BFS	EPA 200.8	510204		
10411776007	AS-04a Gym Haliway DWC Left	EPA 200.8	510204		
10411776008	AS-04b Gym Hallway DWC Left	EPA 200.8	510204		
10411776009	AS-05a Gym Hallway DWC Right	EPA 200.8	510204		
10411776010	AS-05b Gym Hallway DWC Right	EPA 200.8	510204		
0411776011	AS-06a Gym Hallway BFS	EPA 200.8	510204		
0411776012	AS-06b Gym Hallway BFS	EPA 200.8	510204		
0411776013	AS-07a NW Hallway DWC Left	EPA 200.8	510204		
0411776014	AS-07b NW Hallway DWC Left	EPA 200.8	510204		
0411776015	AS-08a NW Hallway DWC Right	EPA 200.8	510204		
0411776016	AS-08b NW Hallway DWC Right	EPA 200.8	510204		
0411776017	AS-09a NC Hallway DWC Left	EPA 200.8	510204		
0411776018	AS-09b NC Hallway DWC Left	EPA 200.8	510204		
0411776019	AS-10a NC Hallway DWC Right	EPA 200.8	510204		
0411776020	AS-10b NC Hallway DWC Right	EPA 200.8	510204		
0411776021	AS-11a NE Hallway DWC Left	EPA 200.8	510234		
0411776022	AS-11b NE Hallway DWC Left	EPA 200.8	510234		
0411776023	AS-12a NE Hallway BFS	EPA 200.8	510234		
0411776024	AS-12b NE Hallway BFS	EPA 200.8	510234		
0411776025	AS-13a NE Hallway DWC Right	EPA 200.8	510234		
0411776026	AS-13b NE Hallway DWC Right	EPA 200.8	510234		

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. 【 ひしれ フプ し

Samples Intact (Y/V) 7 000 00 **60**((N/A) 3 ö Cooler pelsed Ū Custody (N/A) <u>,</u> 쯢 Received on ひと Residual Chlorine (YVI) Page: TEMP In C 3 11/14/2017 Thad Daniels
DATE Signed: 8,002 **8**9 iii)), Pilael sosviera Jeff Dunton 40981 Preservatives Attention: Same Company Name: Same Pace Project Manager. Pace Profile #: Section C Invoice Information: Address: Same 1320 Pace Quote: виом # OF CONTAINERS SAMPLE TEMP AT COLLECTION |L|/5/ SIGNATURE OF SIGNATURE PRINT Name of SAMPLER: 4:30a 11/14/2017 4:30a 4:30a 4:30a 4:30a 4:30a 11/14/2017 4:30a 11/14/2017 4:30a - S 11/14/2017 11/14/2017 1/14/2017 11/14/2017 11/14/2017 11/14/2017 11/14/2017 11/14/2017 17/14/2017 DATE COLLECTED S.D. #16 - Americana School 1798621-01 TIME START DATE Required Project Information; Thad Daniels (G=GRAB C=COMP) 39YT 3J9MA8 DW DW DW/G DW G DWG DWG DWG DWG DWG DWG DWG DWG 000 DWG Purchase Order 朱 WATRIX CODE (see valid codes to lail) Project Name; Project#: Section B Capy To: MATRIX
Drinking Water
Water
Waste Water
Product
Solvisold
Oil
Wipe
Wipe
Adr
Cheer
Tissue Fax 630-691-1819 Water Last Used in Schjool Building on: 11/13/2017 @ 8:00 p.m. United Analytical Services, Inc. (UAS) 1429 Centre Circle Drive ADDITIONAL COMMENTS (A-Z, 0-9 / , -) Sample ids must be unique Standard TAT AS-02b South Hallway DWC Right AS-02a South Hallway DWC Right One Character per box. AS-05a Gym Hallway DWC Right AS-01b South Hallway DWC Left AS-05b Gym Hallway DWC Right SAMPLE ID AS-01a South Hallway DWC Left AS-04b Gym Hallway DWC Left AS-04a Gym Hallway DWC Left AS-03a South Hallway BFS AS-03b South Hallway BFS AS-06a Gym Hallway BFS 4S-06b Gym Halfway BFS mail: tdaniels@uas1.com Noweners Grove, Illinois 80515 Required Client Information; Phone: 630-691-8271 Requested Due Date: 9 'n ILEM # Page 15 of 21

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

: Section A		Section B			Section C			<u> </u>	/ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Required (lient information:	Required Project Information:			Invoice Information:	ormation:		Pac	Page: 2 Of	8
Company:	United Analytical Services, Inc. (UAS)	Report To: Thad Daniels			Attention:	Attention: Same				
Address:	ale Drive	эру То:			Company N	ame: Same				
Doweners					Address:	Same		•	Requisitory Agency	
Email: t		#			Pace Quote:				торн	
Phone:	30-691-1819	Project Name: S.D. #16 - Americana			Pace Proje	Pace Project Manager: Jeff Dunton			State Furtherm	
Rednested	ard TAT		1798621-01		Pace Profile #;	**				
				ŀ			Retuested Am	quested Amayous Fidered (YIA)	1	
	ALIMANET.	(Lie) ot	COLLECTED	-		Preservatives	N/A			
*	SAMPLE ID SAISSIG	MO WAT WAY SI			6		150		(V/V) e	
# W∃LI	.: da	유 등 중 은 15 2) BOOD XIRTAM S) BOYTE STANAS	ME DATE	TA 4MaT a J4MA8	HOF CONTAINERS		8,00% aq		Mesidual Chlorin	11.1
4	AS-07a NW Haliway DWC Left	D/MG	11/14/2017	4:30a	×		×			71.7
2000	AS-07b NW Hallway DWC Left	DWG	11/14/2017	4:30a	X T		×) [ú
(0000000)	AS-OBa NW Hallway DWC Right	DWG	11/14/2017	4:30a	×	-	×			\overline{n}
(W)(W)	AS-08b NW Hailway DWC Right	DwG	11/14/2017	4:30a	×		×			160
5.	AS-09a North Central Hallway DWC Left	DW.G	11/14/2017	4:30a	×		×	-		710
¥ 9	AS-096 North Central Hallway DWC Left	DWG	11/14/2017	4:30a	×		×			216
Α	AS-10a North Central Hallway DWC Right	DWG	11/14/2017	4:30a	×		×			<u>5</u> 0
8	AS-10b North Central Hallway DWC Right	DWV G	11/14/2017	4:30a	×	7.11	· ×			250
Ø	AS-11a NE Haliway DWC Left	DWG	11/14/2017	4:30a	×		×			170
4 01	AS-11b NE Hallway DWC Left	DW/G	11/14/2017 4:30a	4:30a	×		×			277
44	AS-12a NE Hallway BFS	DWG	11/1/4/2017	4:30a	×		×			620
0000000	AS-12b NE Hallway BFS	Dw/G	11/14/2017	4:30a	×		×		<u> </u>)Z4
	ACDITICIMAL CORRIEMTS	A CHANGON SA	(ESCAPILIA)	3270		HELDER TO SERVING	BY ATTINION	Daye Table	SAMPLE COMPLETE	28
		7/40		1,16/17	(326	Total A	W. lower et	1/15/m 1320		
		Control X	Mond	(1/cm/)	143	Frak	N N		:	
Waler Last (Water Lest Used in Schlool Building on: 11/13/2017 @ 8:00 p.m.						1 Para	Majer DE	16.0 C	>
Pi	And and analysis of the second								47 17.4 15.4	707
age 1			SARPI ER HAME AND SIGNATUR PRINT Name of SAMPI FR	ER NAME AND SIGNATURE RINT Name of SAMPI FR					uo p	•
6 of 2			SIGNATURE	IGNATURE of SAMPLER:	N	of the	Thad Daniels DATE Signed:	TARCHANA	Seceive Seceive Ference Seceive	(MY) Sanginsé salgmat tast (M)
.1		_			1			11/14/201/	18 0 C	યા s J

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

tostal (VIV) 瓦立 20 Samples SAMPLECONDITIONS (N/N) さど Cooler ŏ polees Regulations Agency Custody noise and saids (M/N) J. Received on <u>ي</u> 20 Recidual Chlorine (YIV) Page: TEMP in C 1030 1520 SWIT 11/14/2017 15/17 Cifez/II DATA DATA DATE Signed: 1emold ACCEPTED BY ARTHUR TON Thad Danlels 8.002 aq ΝA teoT seavienA a throwld Jeff Dunton 40981 Preservatives Company Name: Same Address: Same Pace Project Manager. Pace Profile #: Involce information: Attention: Same 1430 115/12 B20 Pace Quote: 1984 Section C euop # OF CONTAINERS SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION DATE SIGNATURE of SAMPLER: PRINT Name of SAMPLER: TIME 4:30a 4:30a 2 11/14/2017 11/14/2017 DATE COLLECTED S.D. #16 - Americana School RELINGUISHED BY LAFFELINGON 1798621-01 HME START DATE Required Project Information: Thad Danjels SAMPLE TYPE (G=GRAB C=COMP) S N S S S Purchase Order# WATRIX CODE (see valid codes to left) Project Name: Project #: Section B Copy Ta: CODE WAT WAY WAY OLL OLL TS TS MATRIX
Drinking Webs
Wasse Water
Wasse Water
Product
SoliSolid
O)
Wipo
Wipo
Air
Chrer
Tresse Fax: 630-691-1819 Water Last Used in Schjool Building on: 11/13/2017 🙉 8:00 p.m Required Client Information: Company: United Analytical Services, Inc. (UAS) Address: 1429 Centre Circle Drive ADDITIONAL COMMENTS One Character per box. (A-Z, 0-91, -) Sample ids must be unique Standard TAT SAMPLE ID AS-13a NE Halfway DWC Right AS-13b NE Hallway DWC Right Email: tdaniels@uas1.com Doweners Grove, Illinois 60515 630-691-8271 Phona: 630-691 Requested Due Date: æ Ξ Ņ ĸ ın w 4 m Page 17 of 21 # WBLI 69 4 m

Pace Analytical*

Client Name:

Fed Ex

Sample Condition

Upon Receipt

Tracking Number:

Custody Seal on Cooler/Box Present?

Packing Material: Bubble Wrap

Courier:

Commercial Commercial

Document Name: Sample Condition Upon Receipt Form

Document No.:

Client

Other:

Project #:

Document Revised: 30Aug2017 Page 1 of 2

F-MN-L-213-rev.21

None

Bubble Bags

Issuing Authority: Pace Minnesota Quality Office WO#: 10411776 Optional: Proj. Due Date: Proj. Name: Temp Blank? ☐Yes

Thermometer . 151401163 17 2 / 154 1 / 15				
Used: \$\infty\$ \(\text{G87A9155100842} \)	7.70 Ty	e of ice:	🗀w	Vet Blue None Samples on ice, cooling process has been
Cooler Temp Read (°C): Cooler Temp Co	rracted for	i.e.	3/17. 3.41/15	-1/17.04
Temp should be above freezing to 6°C Correction Fac	rrected (で tor: ~でご	·		Biological Tissue Frozen? Yes No. ANA
USDA Regulated Soil (N/A, water sample)			Da	ate and Initials of Person Examining Contents:
Did samples originate in a quarantine zone within the United	States: AL,	AR, CA, F	L, GA, ≀D,	, I.A. MS, Did samples originate from a foreign source (internationally,
The state of the s		1 (Var i	The source internationally,
" res to either question, fill out a Re	gulated So	II Checkl	ist (F-MN	
Chain of Custody Present?	1.0			COMMENTS:
Chain of Custody Filled Out?	Xes	□No		1.
	Yes	□No		2.
Chain of Custody Relinquished?	Yes	_ PNo		3.
Sampler Name and/or Signature on COC?	Yes	∐No	□n/a	4.
Samples Arrived within Hold Time?	∭Yes	□No	-	5.
Short Hold Time Analysis (<72 hr)?	∐Yes	ু শ্বীNo		6.
Rush Turn Around Time Requested?	Yes	Milo		7.
Sufficient Volume?	% ÎYes	ΠNo		8.
Correct Containers Used?	"X Yes	□No		9.
-Pace Containers Used?	Yes	∏No		3.
Containers Intact?	Yes	□No		10.
Filtered Volume Received for Dissolved Tests?	□Yes	□No	ØN/A	
Sample Labels Match COC?	Yes	□No	JOSEVIA.	11. Note if sediment is visible in the dissolved container 12. The first first first for the dissolved container
-Includes Date/Time/ID/Analysis Matrix: (A)	September 1 CS	[]I40		12 19 DETENTATOR LOGICALD
All containers needing acid/base preservation have been				
checked?	∐Yes	□No	ÆÑ/A	13. HNO ₃ H ₂ SO ₄ NaOH Positive for Res.
All containers needing preservation are found to be in compliance with EPA recommendation?			~~ ·	Sample # Chlorine? Y N
(HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH>12 Cyanida)	□Yes	□st	Yest La	,
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease	1162		AN/A	Initial when
DRO/8015 (water) and Dioxin.	Yes	□No	SE N/A	completed: D Lot # of added N17650
Headspace in VOA Vials (>6mm)?	☐ Yes	∐No	Î∏N/A	14.
Trip Blank Present?	∐Yes	□No	EN/A	15.
Trip Blank Custody Seals Present?	□Yes	□No √	₹N/A	
Pace Trip Blank Lot # (if purchased):			7,44	
CLIENT NOTIFICATION/RESOLUTION				Flair Data Bassin 42 [].
Person Contacted:				Field Data Required? Yes No

Comments/Resolution: Project Manager Review: Date: // Note: Whenever there is a discrepancy affectine with Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical*

Document Name: Sample Condition Upon Receipt Form Document No.: F-MN-1-213-rev.21

Document Revised: 30Aug2017
Page 2 of 2
Issuing Authority:
Pace Minnesota Quality Office

SCUR Exceptions:

M	ke	ord	er	#

Issue	Sample ID	Container Type/#
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		,
	<u> </u>	
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	· .	
	,	
	•	
	•	

			A Ho	djust	ime	nt Lo	g for	Preserved	l Sam	ples	Part I	acit l	of.	3
	Sample ID	Type Preserv		pH U Reçe	•	Prese	ate rvation usted	Time Preservation Adjusted	Addi Prese	unt of tional . rvative ded	Lot # of Preservative Added	pH After Adjustment	Initials	
AS	3-01a	Mr.	1/-	104			0/17	80:48	100	, i	1117050	2	ST.	Þ
//	301h	()	d.	st in	1	7 _{,0} , 1	1, 1,	ŧ	1,	4	11	11	1/ 1	4
11		y	l's	R.p.	d	11	r.	Ч	11	Ú,	(i	23	130/17	1/4
1	102h	A Part	4,	11	7/	par per	1,	η	17	٠,١	Ħ	7	6,1	(1)
11	103a	S. C.	1.,	11	45	1	رر	11	11	1, 8	[1	1/	//	T
1/	103h	11	1,6	d pl	Ų,	4	1/2	W .	14	1,5	11	1/	10	\dot{I}_{j}
11	"OUB	11	1, 14,	11	Ņε	11	17	11	77	7.	11	. 3	1/1 8	7
11	104h	8.8	10 %	50,50	٠,	41		(1	17	4	[]	Z	11 ×	, ,
11	\\\ 05a	11	ورئم	11	1.1	17	, &	11	No. of the second	1,1		2	11	()
11	~05h	17	4.4	Å.	13	11	(.)	U	P" eF	1,1	11	3	16	7
//	0/00	11	1, 30,	11.71	, ,		ः	((i pr	٧.,	II I	3) المواتم	
//	106h	11	1,1	pt pt	.\	Ppl	Q.	11	1/	C)	()	3		



Document Name: Sample Condition Upon Receipt Form Document No.: F-WN-L-213-rev.21

Document Revised: 30Aug2017 Page 2 of 2 Issuing Authority: Pace Minnesota Quality Office

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Document Name: Sample Condition Upon Receipt Form Document No.: F-MN-L-213-rev.21

Document Revised: 30Aug2017
Page 2 of 2
Issuing Authority;
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SCUR Exceptions:

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Issue	Sample ID	Container Type/#				
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Page 3 of 3 pH Adjustment Log for Preserved Samples Amount of Additional Date Time Lot # of Preservation Type of pH Upon Preservation Preservative Preservative pH After Sample ID Preservative Receipt Adjusted Adjusted Added Added Adjustment Initials 11 ĺ, 6 } 1, Ç 1 10 17 τ, ί 14 ζ. 10 di, 1 25 1 Ž 1 ţ. 10 4 37 Ç. \cdot / ℓ Ö 35 l_{k.} 11 1,5



Springfield, Illinois 62761-0001 · www.dph.illinois.gov 525-535 West Jefferson Street . 1/17/2017

LICENSE NUMBER: 001047 Thad Daniels 1335 Fagan Road Batavia, IL 60510

LICENSE APPROVED

IDPH recently received and reviewed your application for lead licensure. Your qualifications have been reviewed and found that you meet the requirements set forth by the Lead Poisoning Prevention Code, Section 845.125. Therefore, your application for lead licensure is now complete. Enclosed please find your lead license card. Please have this identification card with you at all times while conducting lead abatement activities.

IDPH has updated its 7 – Day Notice of Commencement effective immediately. The revised document can be identified by its 9/16 revision date on the bottom left corner. Please discontinue using the old form and begin using the new form as soon as possible. The revised form is located in the same web address that the old form was located (http://www.dph.illinois.gov/sites/default/files/forms/7-day-notice-leadabatement-mitigationproject-091916.pdf).



LEAD RISK SSESSOR L

LEAD ID ISSUED 001047

1/17/2017

Thad Daniels 1335 Fagan Road Batavia, IL 60510

EXPIRES 1/31/2018



ILLINOIS LEAD PROGRAM Environmental Health

Alteration of this license shall result in legal action RISK ASSESSOR CERTIFICATE EXPIRES 3/8/2019

This license issued under authority of the State of Illinois -Department of Public Health

This license is valid only when accompanied by a valid training course certificate

If found return to 525 W. Jefferson St Springfield, IL 62761

Nationally Accredited by PHAB



OCCUPATIONE TRANSPOOK, IL 60527 * (630) 655-3900

TOURS TOUS OF THE TOURS TOURS

Occupational Training & Supply, Inc. certifies that

has successfully completed the Lead Risk Assessor Refresher course and has passed the competency exam with a minimum score of 70%. rhis course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Course Date: 3/8/2016

Exam Date: 3/8/2016

Expiration Date: 3/8/2019

Certificate Number: LRAR1603080977

Kathy DeSalvo, Director lety Desala



STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY NELAP - RECOGNIZED



ENVIRONMENTAL LABORATORY ACCREDITATION

is hereby granted to

PACE ANALYTICAL SERVICES, LLC. - MN
1700 ELM STREET SE SUITE 200
MINNEAPOLIS, MN 55414-2485
NELAP ACCREDITED

ACCREDITATION NUMBER #200011



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Primary Accrediting Authority: MN Department of Health, ELAP

Celeste M. Crowley

Supervisor

Environmental Laboratory Accreditation Program

John South

Accreditation Officer

Environmental Laboratory Accreditation Program

John D. Soci

Certificate No.:

003998

Expiration Date:

12/11/2017

Issued On:

11/15/2016

State of Illinois Environmental Protection Agency

Awards the Certificate of Approval

Pace Analytical Services, LLC. - MN 1700 Elm Street SE Suite 200 Minneapolis, MN 55414-2485

FOT Name: Drinking Water, Inorganic

Matrix Type: Potable Water

Method: USEPA180.1

Matrix Type: Potable Water

Turbidity

Method: USEPA200.8R5.4

Matrix Type: Potable Water

Aluminum

Arsenic

Beryllium

Chromium

Lead

Mercury

Selenium

Thallium

Method: USEPA245.1R3.0

Matrix Type: Potable Water

Mercury

Method: USEPA300.0R2.1

Matrix Type: Potable Water

Bromide

Fluoride

Nitrite

Method: USEPA353.2R2.0

Matrix Type: Potable Water

Nitrate

FOT Name: Drinking Water, Organic

Method: USEPA1613RB

Matrix Type: Potable Water

Dioxin (2,3,7,8 TCDD)

Method: USEPA524.2R4.1

Matrix Type: Potable Water

1,1,1,2-Tetrachloroethane

1,1,2,2-Tetrachloroethane

1,1-Dichloroethane

Method: SM4500P-E,20Ed

Certificate No.:

003998

Orthophosphate

Antimony

Barium

Cadmium

Соррег

Manganese

Nickel

Silver

Zinc

Chloride

Nitrate

Sulfate

Nitrite

1,1,1-Trichloroethane

1,1,2-Trichloroethane

1,1-Dichloroethene

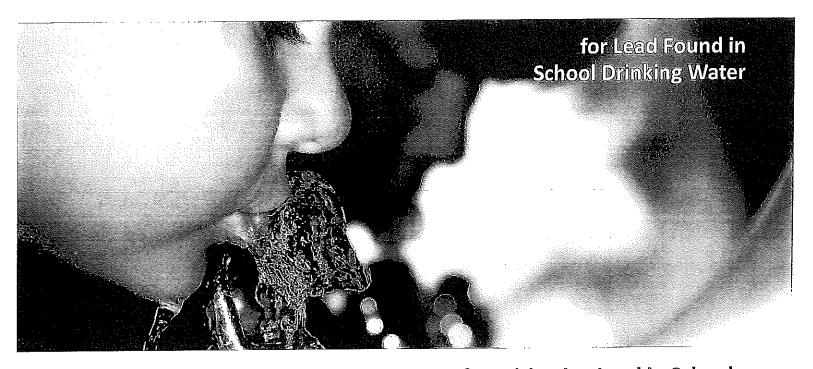
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Tuesday, November 15, 2016

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Mitigation Strategies



Guidance Document for Mitigating Lead in Schools



New Guidance

Pursuant to the Illinois Plumbing Licensing Law (225 ICLS 320/35.5), the Illinois Department of Public Health (IDPH) is required to provide guidance to schools concerning mitigation of hazards discovered by testing for lead in water.

While Section 35.5 does not specifically require mitigation, IDPH is requiring the mitigation strategies and requirements contained in this guidance document to be followed for all plumbing fixtures identified with any level of lead. Mitigation should continue until subsequent testing indicates no lead is present in water.

Mitigation strategies depend on many variables and schools may need to implement various and multiple steps to mitigate lead-in-water hazards. This guidance provides the most common mitigations strategies, but is not intended to be all inclusive.

WQMP

Water Quality Management Plan

Steps to an Effective Water Quality Management Plan

Regardless of lead or any other potential plumbing issues within your facility, developing an effective Water Quality Management Plan (WQMP) is essential to ensuring that safe, potable drinking water is maintained at all times.

In many cases, the internal plumbing system in schools and other large facilities is extensive, often containing hundreds, if not thousands of feet of pipe. If left unused for extended periods of time (2-3 days), the water in this pipe can become stagnant and develop internal water quality issues such as high lead concentrations and harmful bacterial growth.

An effective WQMP can help mitigate the potential for these negative water quality issues.

The steps outlined in this section are not intended to be all inclusive, since every facility and administration is different, each with their own set of individual circumstances. However, it should help you understand the general concepts of a WQMP and how you can develop your unique team to address potential water quality conditions within your facility.

Step 1

Select Your Team

Your team could include:

- Administrators and Faculty
- Facilities and Maintenance Staff
- Parents
- Students
- Water Suppliers

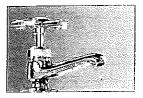
These individuals will be key to implementing whatever program you develop.



Understand Your Facility Layout

- Obtain building plans.
- Know where your drinking fountains and food service water fixtures are located.

 In general terms, familiarize yourself with the layout of your plumbing system. Look for long pipe runs with fixtures that may be used infrequently, even when the building is occupied.



Step 3

Understand Your Facility Schedule

Although this step will be intuitive for facility staff, you should familiarize your team with the schedule of the facility. Questions to ask include:

- When is the facility closed for more than just one day?
 - Weekends, holidays, extended spring or summer break periods.

- Are there any particular areas of the building that are unused even when the rest of the facility is operational? These may include:
 - Gymnasiums
 - Churches or rectories
 - Childcare areas
 - Particular classroom areas or wings of the building.

Step 4

Develop Your Plan

The principal goal of your plan will be to flush an adequate amount of water through your plumbing system in order to maintain fresh (safe) drinking water at all times, in all areas of your facility. In addition, you want to do this without unnecessarily wasting water.

Flushing is the easiest method whereby fresh water may be delivered from the water main. Because lead concentrations increase the longer the water is in contact with pipes or plumbing fixtures containing lead, reducing the water age (how long water sits in the pipe) will reduce the levels of lead in water.

Note: IDPH suggests the following program guidelines be considered as minimum steps:

- Locate the fixtures farthest from the entry point of the water service to the building and flush them for 10 minutes each morning.
- 2. Open all fixtures used for cooking and drinking and run until you feel the water temperature get colder.

Additional information on flushing and other remedies is available in the U.S. Environmental Protection Agency's 3Ts for Reducing Lead in Drinking Water In Schools Technical Guidance.

Schools can request help from their supplier in identifying potential lead hazards and developing mitigation strategies. The water supplier can also educate the school on topics like corrosion control and water age.

Schools on well water or non-community water systems, can request help from the Illinois Section American Water Works Association (AWWA) or the Illinois Rural Water Association.

Your plan may likely include some if not all of these actions:

Mechanical Flushing requires the installation of devices such as valves or other similar equipment on the ends of long pipes that can be set to automatically flush at pre-determined intervals.

Licensed plumbers and engineers can help determine the type of device that should be installed and where to install the device.

Manual Flushing will likely require a variety of individuals to implement.

Faculty - Faculty members may be able to flush fixtures (sinks, drinking fountains, etc.) if they are nearby or in their classroom or work area.

Parents - Parent volunteers may be helpful in flushing fixtures in general areas or in organizing student volunteers to help with that job.

Students - Faculty and school administrators often are interested in providing students with additional responsibilities outside the classroom. Utilizing students to assist in the implementation of your WQMP can help teach them responsibility and better understand the importance of safe drinking water.

Develop a Student Water Patrol

Select a handful of students whom you believe are deserving of responsibility.

If you have a public water utility, engage those professionals to explain the importance of safe drinking water and how the students can help protect their classmates by participating in a Student Water Patrol.



Implement Your Plan

Remove the problem fixture(s) from service

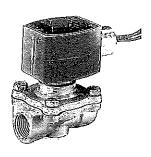
Immediately upon learning that a fixture has tested positive for lead, it should be removed from service. *Install signs, remove handles or bag the device to prevent use until it can be addressed.*



Once the fixture has been addressed, validation testing is required and should be conducted in the same manner in which the initial testing was performed.

Persistent Problem Fixtures

- For sources of water that are not corrected by the steps outlined previously, infrastructure mitigation strategies may be required.
- Source investigation involves sequential sampling of the problem fixture to determine the relative location of the source of lead. Sequential sampling consists of a series of samples taken at defined time intervals from a single fixture.
- A plumbing survey, including a determination of installed plumbing materials, fixtures and length of pipes, should be developed to identify known and possible sources.
- Permanent removal of fixtures and branch plumbing should only be undertaken with the advice of a professional engineer or licensed plumber. Identified sources of lead, such as lead pipes, leaded plumbing fixtures and lead solder, should be replaced by a registered plumbing contractor with materials that do not contain lead.
- Automatic flushing valves, installed by a licensed plumber, may be implemented to ensure adequate flushing of piping systems.





Working Together ... Administration, Faculty, Students, Parents and Water Professionals we can...

GET THE LEAD OUT!

* Illinois Section AWWA email:

jdillon@işawwa.org

* Illinois Rural Water Association email: ilrwa@ilrwa.org

Questions regarding lead in schools should be directed to the: Illinois Department of Public Health Plumbing and Water Quality Program

Email: dph.leadh2o@illinois.gov