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UNITED ANALYTICAL SERVICES, INC.

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
Glenside Middle School -
1560 Bloomingdale Road, Glendale Heights, IL 60139
November 15, 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 Glenside Middle School located at 1560 Bloomingdale Road in Glendale Heights, Illinois on November 15, 2017. The current testing involved collecting drinking water samples from ALL twenty-three (23) 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 forty-six (46) 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 drinking water and/or potable water sources within the school building, as noted.

The laboratory results reveal that the reported concentrations for twenty-three (23) of the twenty-three (23) drinking water samples resulted in concentrations below the IDPH public notification/communication target level of 5 µg Lead/L. Zero (0) of the samples revealed a drinking water concentration above the IDPH public notification/communication target level of 5 µg 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 twenty-three (23) 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 14, 2017, following a day of typical school occupancy and usage within the facility. The sample collection by UAS began at 5:00 a.m. on November 15, 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 (µg/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 (µg/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 twenty-three (23) locations/sources noted. Review of the current testing laboratory data reveals the following:

The results from twenty-two (22) of the twenty-three (23) locations/sources revealed 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.

One (1) of the twenty-three (23) 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 twenty-three (23) 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
Glenside Middle School -
1560 Bloomingdale Road, Glendale Heights, IL 60139

December 7, 2017

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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.



Thad Daniels
Director of Field Services
Lead Risk Assessor (IL 001047)

attachments: IDPH Spreadsheet Summary of Lead in Drinking Water
11/27/17 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

November 27, 2017

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

RE: Project: 1798621-01 S.D.#16 Glenside
Pace Project No.: 10411754

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@pacelabs.com
1(612)607-1700
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1798621-01 S.D.#16 Glenside
Pace Project No.: 10411754

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
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
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
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
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

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SAMPLE SUMMARY

Project: 1798621-01 S.D.#16 Glenside
Pace Project No.: 10411754

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10411754001	GMS-01a Upper Level Hallway DW	Water	11/15/17 05:00	11/20/17 10:30
10411754002	GMS-01b Upper Level Hallway DW	Water	11/15/17 05:00	11/20/17 10:30
10411754003	GMS-02a Upper Level Hallway DW	Water	11/15/17 05:00	11/20/17 10:30
10411754004	GMS-02b Upper Level Hallway DW	Water	11/15/17 05:00	11/20/17 10:30
10411754005	GMS-03a Upper Level Hallway DW	Water	11/15/17 05:00	11/20/17 10:30
10411754006	GMS-03b Upper Level Hallway DW	Water	11/15/17 05:00	11/20/17 10:30
10411754007	GMS-04a Music Room DWC	Water	11/15/17 05:00	11/20/17 10:30
10411754008	GMS-04b Music Room DWC	Water	11/15/17 05:00	11/20/17 10:30
10411754009	GMS-05a Office DWC Left	Water	11/15/17 05:00	11/20/17 10:30
10411754010	GMS-05b Office DWC Left	Water	11/15/17 05:00	11/20/17 10:30
10411754011	GMS-06a Office DWC Right	Water	11/15/17 05:00	11/20/17 10:30
10411754012	GMS-06b Office DWC Right	Water	11/15/17 05:00	11/20/17 10:30
10411754013	GMS-07a Office BFS	Water	11/15/17 05:00	11/20/17 10:30
10411754014	GMS-07b Office BFS	Water	11/15/17 05:00	11/20/17 10:30
10411754015	GMS-08a West Corridor DWC Sout	Water	11/15/17 05:00	11/20/17 10:30
10411754016	GMS-08b West Corridor DWC Sout	Water	11/15/17 05:00	11/20/17 10:30
10411754017	GMS-09a West Corridor DWC Nort	Water	11/15/17 05:00	11/20/17 10:30
10411754018	GMS-09b West Corridor DWC Nort	Water	11/15/17 05:00	11/20/17 10:30
10411754019	GMS-10a Cafeteria DWC Left	Water	11/15/17 05:00	11/20/17 10:30
10411754020	GMS-10b Cafeteria DWC Left	Water	11/15/17 05:00	11/20/17 10:30
10411754021	GMS-11a Cafeteria DWC Left BFS	Water	11/15/17 05:00	11/20/17 10:30
10411754022	GMS-11b Cafeteria DWC Left BFS	Water	11/15/17 05:00	11/20/17 10:30
10411754023	GMS-12a Cafeteria DWC Right	Water	11/15/17 05:00	11/20/17 10:30
10411754024	GMS-12b Cafeteria DWC Right	Water	11/15/17 05:00	11/20/17 10:30
10411754025	GMS-13a North Corridor DWC Out	Water	11/15/17 05:00	11/20/17 10:30
10411754026	GMS-13b North Corridor DWC Out	Water	11/15/17 05:00	11/20/17 10:30
10411754027	GMS-14a North Corridor DWC Lef	Water	11/15/17 05:00	11/20/17 10:30
10411754028	GMS-14b North Corridor DWC Lef	Water	11/15/17 05:00	11/20/17 10:30
10411754029	GMS-15a North Corridor DWC Rig	Water	11/15/17 05:00	11/20/17 10:30
10411754030	GMS-15b North Corridor DWC Rig	Water	11/15/17 05:00	11/20/17 10:30
10411754031	GMS-16a Gym Corridor DWC	Water	11/15/17 05:00	11/20/17 10:30
10411754032	GMS-16b Gym Corridor DWC	Water	11/15/17 05:00	11/20/17 10:30
10411754033	GMS-17a Boy's Locker Room DWC	Water	11/15/17 05:00	11/20/17 10:30
10411754034	GMS-17b Boy's Locker Room DWC	Water	11/15/17 05:00	11/20/17 10:30
10411754035	GMS-18a Girl's Locker Room DWC	Water	11/15/17 05:00	11/20/17 10:30
10411754036	GMS-18b Girl's Locker Room DWC	Water	11/15/17 05:00	11/20/17 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1798621-01 S.D.#16 Glenside

Pace Project No.: 10411754

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10411754037	GMS-19a Main Gym DWC	Water	11/15/17 05:00	11/20/17 10:30
10411754038	GMS-19b Main Gym DWC	Water	11/15/17 05:00	11/20/17 10:30
10411754039	GMS-20a Main Gym BFS	Water	11/15/17 05:00	11/20/17 10:30
10411754040	GMS-20b Main Gym BFS	Water	11/15/17 05:00	11/20/17 10:30
10411754041	GMS-21a Secondary Gym DWC Left	Water	11/15/17 05:00	11/20/17 10:30
10411754042	GMS-21b Secondary Gym DWC Left	Water	11/15/17 05:00	11/20/17 10:30
10411754043	GMS-22a Secondary Gym DWC BFS	Water	11/15/17 05:00	11/20/17 10:30
10411754044	GMS-22b Secondary Gym DWC BFS	Water	11/15/17 05:00	11/20/17 10:30
10411754045	GMS-23a Secondary Gym DWC Righ	Water	11/15/17 05:00	11/20/17 10:30
10411754046	GMS-23b Secondary Gym DWC Righ	Water	11/15/17 05:00	11/20/17 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10411754001	GMS-01a Upper Level Hallway DW	EPA 200.8	WBS	1	PASI-M
10411754002	GMS-01b Upper Level Hallway DW	EPA 200.8	WBS	1	PASI-M
10411754003	GMS-02a Upper Level Hallway DW	EPA 200.8	WBS	1	PASI-M
10411754004	GMS-02b Upper Level Hallway DW	EPA 200.8	WBS	1	PASI-M
10411754005	GMS-03a Upper Level Hallway DW	EPA 200.8	WBS	1	PASI-M
10411754006	GMS-03b Upper Level Hallway DW	EPA 200.8	WBS	1	PASI-M
10411754007	GMS-04a Music Room DWC	EPA 200.8	WBS	1	PASI-M
10411754008	GMS-04b Music Room DWC	EPA 200.8	WBS	1	PASI-M
10411754009	GMS-05a Office DWC Left	EPA 200.8	WBS	1	PASI-M
10411754010	GMS-05b Office DWC Left	EPA 200.8	WBS	1	PASI-M
10411754011	GMS-06a Office DWC Right	EPA 200.8	WBS	1	PASI-M
10411754012	GMS-06b Office DWC Right	EPA 200.8	WBS	1	PASI-M
10411754013	GMS-07a Office BFS	EPA 200.8	WBS	1	PASI-M
10411754014	GMS-07b Office BFS	EPA 200.8	WBS	1	PASI-M
10411754015	GMS-08a West Corridor DWC Sout	EPA 200.8	WBS	1	PASI-M
10411754016	GMS-08b West Corridor DWC Sout	EPA 200.8	WBS	1	PASI-M
10411754017	GMS-09a West Corridor DWC Nort	EPA 200.8	WBS	1	PASI-M
10411754018	GMS-09b West Corridor DWC Nort	EPA 200.8	WBS	1	PASI-M
10411754019	GMS-10a Cafeteria DWC Left	EPA 200.8	WBS	1	PASI-M
10411754020	GMS-10b Cafeteria DWC Left	EPA 200.8	WBS	1	PASI-M
10411754021	GMS-11a Cafeteria DWC Left BFS	EPA 200.8	WBS	1	PASI-M
10411754022	GMS-11b Cafeteria DWC Left BFS	EPA 200.8	WBS	1	PASI-M
10411754023	GMS-12a Cafeteria DWC Right	EPA 200.8	WBS	1	PASI-M
10411754024	GMS-12b Cafeteria DWC Right	EPA 200.8	WBS	1	PASI-M
10411754025	GMS-13a North Corridor DWC Out	EPA 200.8	WBS	1	PASI-M
10411754026	GMS-13b North Corridor DWC Out	EPA 200.8	WBS	1	PASI-M
10411754027	GMS-14a North Corridor DWC Lef	EPA 200.8	WBS	1	PASI-M
10411754028	GMS-14b North Corridor DWC Lef	EPA 200.8	WBS	1	PASI-M
10411754029	GMS-15a North Corridor DWC Rig	EPA 200.8	WBS	1	PASI-M
10411754030	GMS-15b North Corridor DWC Rig	EPA 200.8	WBS	1	PASI-M
10411754031	GMS-16a Gym Corridor DWC	EPA 200.8	WBS	1	PASI-M
10411754032	GMS-16b Gym Corridor DWC	EPA 200.8	WBS	1	PASI-M
10411754033	GMS-17a Boy's Locker Room DWC	EPA 200.8	WBS	1	PASI-M
10411754034	GMS-17b Boy's Locker Room DWC	EPA 200.8	WBS	1	PASI-M
10411754035	GMS-18a Girl's Locker Room DWC	EPA 200.8	WBS	1	PASI-M
10411754036	GMS-18b Girl's Locker Room DWC	EPA 200.8	WBS	1	PASI-M
10411754037	GMS-19a Main Gym DWC	EPA 200.8	WBS	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1798621-01 S.D.#16 Glenside
Pace Project No.: 10411754

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10411754038	GMS-19b Main Gym DWC	EPA 200.8	WBS	1	PASI-M
10411754039	GMS-20a Main Gym BFS	EPA 200.8	WBS	1	PASI-M
10411754040	GMS-20b Main Gym BFS	EPA 200.8	WBS	1	PASI-M
10411754041	GMS-21a Secondary Gym DWC Left	EPA 200.8	WBS	1	PASI-M
10411754042	GMS-21b Secondary Gym DWC Left	EPA 200.8	WBS	1	PASI-M
10411754043	GMS-22a Secondary Gym DWC BFS	EPA 200.8	WBS	1	PASI-M
10411754044	GMS-22b Secondary Gym DWC BFS	EPA 200.8	WBS	1	PASI-M
10411754045	GMS-23a Secondary Gym DWC Righ	EPA 200.8	WBS	1	PASI-M
10411754046	GMS-23b Secondary Gym DWC Righ	EPA 200.8	WBS	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

Sample: **GMS-01a Upper Level Hallway DW** Lab ID: **10411754001** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 18:36	7439-92-1	

Sample: **GMS-01b Upper Level Hallway DW** Lab ID: **10411754002** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 18:28	7439-92-1	

Sample: **GMS-02a Upper Level Hallway DW** Lab ID: **10411754003** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 18:29	7439-92-1	

Sample: **GMS-02b Upper Level Hallway DW** Lab ID: **10411754004** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 18:42	7439-92-1	

Sample: **GMS-03a Upper Level Hallway DW** Lab ID: **10411754005** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 18:43	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

Sample: **GMS-03b Upper Level Hallway DW** Lab ID: **10411754006** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 18:45	7439-92-1	

Sample: **GMS-04a Music Room DWC** Lab ID: **10411754007** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	0.20	ug/L	0.10	0.010	1		11/22/17 18:46	7439-92-1	

Sample: **GMS-04b Music Room DWC** Lab ID: **10411754008** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 18:48	7439-92-1	

Sample: **GMS-05a Office DWC Left** Lab ID: **10411754009** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 18:49	7439-92-1	

Sample: **GMS-05b Office DWC Left** Lab ID: **10411754010** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 18:54	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1798621-01 S.D.#16 Glenside

Pace Project No.: 10411754

Sample: **GMS-06a Office DWC Right** Lab ID: **10411754011** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 18:55	7439-92-1	

Sample: **GMS-06b Office DWC Right** Lab ID: **10411754012** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 18:58	7439-92-1	

Sample: **GMS-07a Office BFS** Lab ID: **10411754013** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:00	7439-92-1	

Sample: **GMS-07b Office BFS** Lab ID: **10411754014** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:01	7439-92-1	

Sample: **GMS-08a West Corridor
DWC Sout** Lab ID: **10411754015** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	0.72	ug/L	0.10	0.010	1		11/22/17 19:03	7439-92-1	

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ANALYTICAL RESULTS

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

Sample: **GMS-08b West Corridor** Lab ID: **10411754016** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Sout

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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200.8 MET ICPMS, DW Analytical Method: EPA 200.8
 Lead 0.17 ug/L 0.10 0.010 1 11/22/17 19:04 7439-92-1

Sample: **GMS-09a West Corridor** Lab ID: **10411754017** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Nort

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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200.8 MET ICPMS, DW Analytical Method: EPA 200.8
 Lead 0.62 ug/L 0.10 0.010 1 11/22/17 19:06 7439-92-1

Sample: **GMS-09b West Corridor** Lab ID: **10411754018** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Nort

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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200.8 MET ICPMS, DW Analytical Method: EPA 200.8
 Lead 0.24 ug/L 0.10 0.010 1 11/22/17 19:08 7439-92-1

Sample: **GMS-10a Cafeteria DWC** Lab ID: **10411754019** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
Left

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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200.8 MET ICPMS, DW Analytical Method: EPA 200.8
 Lead ND ug/L 0.10 0.010 1 11/22/17 19:20 7439-92-1

Sample: **GMS-10b Cafeteria DWC** Lab ID: **10411754020** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
Left

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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200.8 MET ICPMS, DW Analytical Method: EPA 200.8
 Lead ND ug/L 0.10 0.010 1 11/22/17 19:21 7439-92-1

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ANALYTICAL RESULTS

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

Sample: **GMS-11a Cafeteria DWC Left BFS** Lab ID: **10411754021** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:14	7439-92-1	

Sample: **GMS-11b Cafeteria DWC Left BFS** Lab ID: **10411754022** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:23	7439-92-1	

Sample: **GMS-12a Cafeteria DWC Right** Lab ID: **10411754023** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:25	7439-92-1	

Sample: **GMS-12b Cafeteria DWC Right** Lab ID: **10411754024** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:31	7439-92-1	

Sample: **GMS-13a North Corridor DWC Out** Lab ID: **10411754025** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 200.8									
Lead	0.15	ug/L	0.10	0.010	1		11/22/17 19:32	7439-92-1	

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ANALYTICAL RESULTS

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

Sample: GMS-13b North Corridor **Lab ID: 10411754026** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Out

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:34	7439-92-1	

Sample: GMS-14a North Corridor **Lab ID: 10411754027** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Lef

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:35	7439-92-1	

Sample: GMS-14b North Corridor **Lab ID: 10411754028** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Lef

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:37	7439-92-1	

Sample: GMS-15a North Corridor **Lab ID: 10411754029** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Rig

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:38	7439-92-1	

Sample: GMS-15b North Corridor **Lab ID: 10411754030** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Rig

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:40	7439-92-1	

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ANALYTICAL RESULTS

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

Sample: **GMS-16a Gym Corridor DW** Lab ID: **10411754031** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:41	7439-92-1	

Sample: **GMS-16b Gym Corridor DW** Lab ID: **10411754032** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:44	7439-92-1	

Sample: **GMS-17a Boy's Locker Room DW** Lab ID: **10411754033** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.60	ug/L	0.10	0.010	1		11/22/17 19:51	7439-92-1	

Sample: **GMS-17b Boy's Locker Room DW** Lab ID: **10411754034** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.56	ug/L	0.10	0.010	1		11/22/17 19:52	7439-92-1	

Sample: **GMS-18a Girl's Locker Room DW** Lab ID: **10411754035** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	2.0	ug/L	0.10	0.010	1		11/22/17 19:54	7439-92-1	

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ANALYTICAL RESULTS

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

Sample: **GMS-18b Girl's Locker Room DWC** Lab ID: **10411754036** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	2.4	ug/L	0.10	0.010	1		11/22/17 19:55	7439-92-1	

Sample: **GMS-19a Main Gym DWC** Lab ID: **10411754037** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:57	7439-92-1	

Sample: **GMS-19b Main Gym DWC** Lab ID: **10411754038** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 19:58	7439-92-1	

Sample: **GMS-20a Main Gym BFS** Lab ID: **10411754039** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 20:00	7439-92-1	

Sample: **GMS-20b Main Gym BFS** Lab ID: **10411754040** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 20:01	7439-92-1	

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ANALYTICAL RESULTS

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

Sample: **GMS-21a Secondary Gym** Lab ID: **10411754041** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Left

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 21:27	7439-92-1	

Sample: **GMS-21b Secondary Gym** Lab ID: **10411754042** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Left

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 21:29	7439-92-1	

Sample: **GMS-22a Secondary Gym** Lab ID: **10411754043** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC BFS

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 21:30	7439-92-1	

Sample: **GMS-22b Secondary Gym** Lab ID: **10411754044** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC BFS

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		11/22/17 21:32	7439-92-1	

Sample: **GMS-23a Secondary Gym** Lab ID: **10411754045** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Righ

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.33	ug/L	0.10	0.010	1		11/22/17 21:33	7439-92-1	

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ANALYTICAL RESULTS

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

Sample: **GMS-23b Secondary Gym** Lab ID: **10411754046** Collected: 11/15/17 05:00 Received: 11/20/17 10:30 Matrix: Water
DWC Righ

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.29	ug/L	0.10	0.010	1		11/22/17 21:35	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

QC Batch: 509875 Analysis Method: EPA 200.8
 QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, Drinking Water
 Associated Lab Samples: 10411754001, 10411754002, 10411754003, 10411754004, 10411754005, 10411754006, 10411754007, 10411754008, 10411754009, 10411754010, 10411754011, 10411754012, 10411754013, 10411754014, 10411754015, 10411754016, 10411754017, 10411754018, 10411754019, 10411754020

METHOD BLANK: 2772157 Matrix: Water
 Associated Lab Samples: 10411754001, 10411754002, 10411754003, 10411754004, 10411754005, 10411754006, 10411754007, 10411754008, 10411754009, 10411754010, 10411754011, 10411754012, 10411754013, 10411754014, 10411754015, 10411754016, 10411754017, 10411754018, 10411754019, 10411754020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	0.010	11/22/17 18:17	

LABORATORY CONTROL SAMPLE: 2772158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	103	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2774481 2774482

Parameter	Units	10411754001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Lead	ug/L	ND	100	100	100	100	100	100	70-130	0	20	

MATRIX SPIKE SAMPLE: 2774483

Parameter	Units	10411754011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	100	99.2	99	70-130	

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QUALITY CONTROL DATA

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

QC Batch: 509876 Analysis Method: EPA 200.8
 QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, Drinking Water
 Associated Lab Samples: 10411754021, 10411754022, 10411754023, 10411754024, 10411754025, 10411754026, 10411754027,
 10411754028, 10411754029, 10411754030, 10411754031, 10411754032, 10411754033, 10411754034,
 10411754035, 10411754036, 10411754037, 10411754038, 10411754039, 10411754040

METHOD BLANK: 2772160 Matrix: Water
 Associated Lab Samples: 10411754021, 10411754022, 10411754023, 10411754024, 10411754025, 10411754026, 10411754027,
 10411754028, 10411754029, 10411754030, 10411754031, 10411754032, 10411754033, 10411754034,
 10411754035, 10411754036, 10411754037, 10411754038, 10411754039, 10411754040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	0.010	11/22/17 19:12	

LABORATORY CONTROL SAMPLE: 2772161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	101	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2774607 2774608

Parameter	Units	10411754021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Lead	ug/L	ND	100	100	95.0	99.4	95	99	70-130	4 20	

MATRIX SPIKE SAMPLE: 2774609

Parameter	Units	10411754031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	100	98.5	98	70-130	

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QUALITY CONTROL DATA

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

QC Batch: 509885 Analysis Method: EPA 200.8
 QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, Drinking Water
 Associated Lab Samples: 10411754041, 10411754042, 10411754043, 10411754044, 10411754045, 10411754046

METHOD BLANK: 2772188 Matrix: Water
 Associated Lab Samples: 10411754041, 10411754042, 10411754043, 10411754044, 10411754045, 10411754046

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	0.010	11/22/17 20:44	

LABORATORY CONTROL SAMPLE: 2772189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	99.6	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2774724 2774725

Parameter	Units	10411196061 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Lead	ug/L	1.1	100	100	90.9	92.6	90	92	70-130	2	20

MATRIX SPIKE SAMPLE: 2774726

Parameter	Units	10411469003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	100	96.9	97	70-130	

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QUALIFIERS

Project: 1798621-01 S.D.#16 Glenside
Pace Project No.: 10411754

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

PASI-M Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1798621-01 S.D.#16 Glenside

Pace Project No.: 10411754

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10411754001	GMS-01a Upper Level Hallway DW	EPA 200.8	509875		
10411754002	GMS-01b Upper Level Hallway DW	EPA 200.8	509875		
10411754003	GMS-02a Upper Level Hallway DW	EPA 200.8	509875		
10411754004	GMS-02b Upper Level Hallway DW	EPA 200.8	509875		
10411754005	GMS-03a Upper Level Hallway DW	EPA 200.8	509875		
10411754006	GMS-03b Upper Level Hallway DW	EPA 200.8	509875		
10411754007	GMS-04a Music Room DWC	EPA 200.8	509875		
10411754008	GMS-04b Music Room DWC	EPA 200.8	509875		
10411754009	GMS-05a Office DWC Left	EPA 200.8	509875		
10411754010	GMS-05b Office DWC Left	EPA 200.8	509875		
10411754011	GMS-06a Office DWC Right	EPA 200.8	509875		
10411754012	GMS-06b Office DWC Right	EPA 200.8	509875		
10411754013	GMS-07a Office BFS	EPA 200.8	509875		
10411754014	GMS-07b Office BFS	EPA 200.8	509875		
10411754015	GMS-08a West Corridor DWC Sout	EPA 200.8	509875		
10411754016	GMS-08b West Corridor DWC Sout	EPA 200.8	509875		
10411754017	GMS-09a West Corridor DWC Nort	EPA 200.8	509875		
10411754018	GMS-09b West Corridor DWC Nort	EPA 200.8	509875		
10411754019	GMS-10a Cafeteria DWC Left	EPA 200.8	509875		
10411754020	GMS-10b Cafeteria DWC Left	EPA 200.8	509875		
10411754021	GMS-11a Cafeteria DWC Left BFS	EPA 200.8	509876		
10411754022	GMS-11b Cafeteria DWC Left BFS	EPA 200.8	509876		
10411754023	GMS-12a Cafeteria DWC Right	EPA 200.8	509876		
10411754024	GMS-12b Cafeteria DWC Right	EPA 200.8	509876		
10411754025	GMS-13a North Corridor DWC Out	EPA 200.8	509876		
10411754026	GMS-13b North Corridor DWC Out	EPA 200.8	509876		
10411754027	GMS-14a North Corridor DWC Lef	EPA 200.8	509876		
10411754028	GMS-14b North Corridor DWC Lef	EPA 200.8	509876		
10411754029	GMS-15a North Corridor DWC Rig	EPA 200.8	509876		
10411754030	GMS-15b North Corridor DWC Rig	EPA 200.8	509876		
10411754031	GMS-16a Gym Corridor DWC	EPA 200.8	509876		
10411754032	GMS-16b Gym Corridor DWC	EPA 200.8	509876		
10411754033	GMS-17a Boy's Locker Room DWC	EPA 200.8	509876		
10411754034	GMS-17b Boy's Locker Room DWC	EPA 200.8	509876		
10411754035	GMS-18a Girl's Locker Room DWC	EPA 200.8	509876		
10411754036	GMS-18b Girl's Locker Room DWC	EPA 200.8	509876		
10411754037	GMS-19a Main Gym DWC	EPA 200.8	509876		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1798621-01 S.D.#16 Glenside
 Pace Project No.: 10411754

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10411754038	GMS-19b Main Gym DWC	EPA 200.8	509876		
10411754039	GMS-20a Main Gym BFS	EPA 200.8	509876		
10411754040	GMS-20b Main Gym BFS	EPA 200.8	509876		
10411754041	GMS-21a Secondary Gym DWC Left	EPA 200.8	509885		
10411754042	GMS-21b Secondary Gym DWC Left	EPA 200.8	509885		
10411754043	GMS-22a Secondary Gym DWC BFS	EPA 200.8	509885		
10411754044	GMS-22b Secondary Gym DWC BFS	EPA 200.8	509885		
10411754045	GMS-23a Secondary Gym DWC Righ	EPA 200.8	509885		
10411754046	GMS-23b Secondary Gym DWC Righ	EPA 200.8	509885		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

12411754

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: United Analytical Services, Inc. (UAS) Report To: The Daniels
 Address: 1429 Centre Circle Drive Copy To:
 Downers Grove, Illinois 60515
 Email: tdaniels@uas1.com
 Phone: 630-691-8271 Fax: 630-691-1819
 Requested Due Date: Standard TAT

Purchase Order #: S.D. #16 - Glenview Middle School
 Project #: 1798621-01
 Pace Project Manager: Jeff Dutton
 Pace Profile #:

Attention: Same Company Name: Same
 Address: Same Pace Quote: 40881
 Regulatory/Agency: IDPH
 State/Location: IL

Page: 1 of 4

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	TEMP IN C	SAMPLES
			START DATE TIME	END DATE TIME							
1	Drinking Water	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	001
2	Water	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	002
3	Waste Water	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	003
4	Product	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	004
5	Solids	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	005
6	Oil	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	006
7	Wipe	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	007
8	Air	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	008
9	Other	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	009
10	Residue	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	010
11	Other	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	011
12	Residue	DW	11/15/2017 5:00a	11/15/2017 5:00a	DW G	DW	1		X	11.9	012

RELINQUISH TO: DATE: 11/15/2017 TIME: 1320
 ACCEPTED BY: AFFILIATION: KATHAN WOODWARD
 DATE: 11/15/2017 TIME: 1030
 SIGNATURE: [Signature]

ADDITIONAL COMMENTS: Water Last Used in School Building on: 11/14/2017 @ 8:00 p.m.

DATE SIGNED: 11/15/2017
 SIGNATURE OF SAMPLER: [Signature]

DATE SIGNED: 11/15/2017
 SIGNATURE OF SAMPLER: Thea Daniels / Brian Grabowski



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 4 Of 4

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: United Analytical Services, Inc. (UAS)	Report To: Thad Daniels	Company Name: Same	Attention: Same	Company Name: Same	Attention: Same
Address: 1429 Centre Circle Drive	Copy To:	Address: Same	Address: Same	Address: Same	Address: Same
Dowdars Grove, Illinois 60515		Purchase Order #:	Pace Quote: 40981	Regulatory Agency:	IDPH
Email: tdaniels@uasf.com		Project Name: S.D. #18 - Glenview Middle School	Pace Project Manager: Jeff Dunton	State/Location:	IL
Phone: 630-691-9271 / Fax: 630-691-1819		Project #: 1798621-01	Face Profile #:		
Requested Due Date: Standard TAT					

ITEM #	MATRIX CODE (see valid codes to left)	MATRIX	COLLECTED		SAMPLE TYPE (G-GRAB O-COMP)	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	RESIDUAL CHLORINE (Y/N)
			START DATE TIME	END DATE TIME					
1	DW/G	DW	11/15/2017 5:00a	11/15/2017 5:00a	1	1	X	X	037
2	DW/G	WT	11/15/2017 5:00a	11/15/2017 5:00a	1	1	X	X	038
3	DW/G	WW	11/15/2017 5:00a	11/15/2017 5:00a	1	1	X	X	039
4	DW/G	P	11/15/2017 5:00a	11/15/2017 5:00a	1	1	X	X	040
5	DW/G	SL	11/15/2017 5:00a	11/15/2017 5:00a	1	1	X	X	041
6	DW/G	OL	11/15/2017 5:00a	11/15/2017 5:00a	1	1	X	X	042
7	DW/G	WP	11/15/2017 5:00a	11/15/2017 5:00a	1	1	X	X	043
8	DW/G	MP	11/15/2017 5:00a	11/15/2017 5:00a	1	1	X	X	044
9	DW/G	OT	11/15/2017 5:00a	11/15/2017 5:00a	1	1	X	X	045
10	DW/G	TS	11/15/2017 5:00a	11/15/2017 5:00a	1	1	X	X	046

REMOVED BY AFFILIATION	DATE	TIME	REMOVED BY AFFILIATION	DATE	TIME
<i>[Signature]</i>	11/15/2017	1320	KATHY GONZALEZ	11/15/2017	1320
<i>[Signature]</i>	11/15/2017	1430	FEEDER	11/15/2017	1430
TEMP IN C					
11.8	17.4	15.4	15.4	15.4	15.4
RECEIVED ON					
11/15/2017					
RECEIVED BY					
<i>[Signature]</i>					
DATE SIGNED					
11/15/2017					

Water Test Used in Seijel Building on 11/14/2017 @ 8:00 p.m.

Sample Condition Upon Receipt

Client Name: United Analytical

Project #: _____

WO#: 10411754



Courier: Fed Ex UPS USPS Client
 Commercial Pace Speedee Other: _____

Tracking Number: 1212-5349-39105/4016/2057
1212/4001

Custody Seal on Cooler/Box Present? Yes No
 Seals Intact? Yes No

Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____
 Temp Blank? Yes No

Thermometer 151401163 687A9155100842
 Used: 12/2/17-1/17/18 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): _____ Cooler Temp Corrected (°C): 15.4/15.4
 Temp should be above freezing to 6°C Correction Factor: -0.4 Biological Tissue Frozen? Yes No N/A
 Date and Initials of Person Examining Contents: 11/20/17 SD

USDA Regulated Soil N/A, water sample

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.
Sampler Name and/or 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.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
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. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Includes Date/Time/ID/Analysis Matrix: <u>WWT</u>	12. <u>To be filtered by lab</u>
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N Sample # _____ Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 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): _____	15.

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature]

Date: 11/20/17

Note: Whenever there is a discrepancy affecting North 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).



525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

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-mitigation-project-091916.pdf>).



**LEAD RISK
ASSESSOR LICENSE**

LEAD ID	ISSUED	EXPIRES
001047	1/17/2017	1/31/2018

Thad Daniels
1335 Fagan Road
Batavia, IL 60510



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

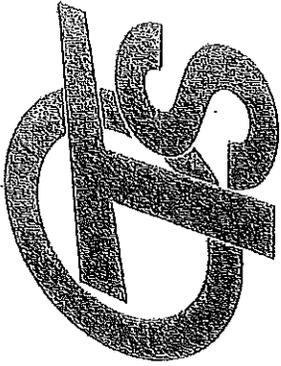
This license is valid only when accompanied by
a valid training course certificate

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

PROTECTING HEALTH, IMPROVING LIVES

Nationally Accredited by PHAB

2016



OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

Lead Risk Assessor Refresher

Occupational Training & Supply, Inc. certifies that

Thad Daniels

has successfully completed the Lead Risk Assessor Refresher course and has passed the competency exam with a minimum score of 70%.
This 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



**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

John D. South

Celeste M. Crowley
Supervisor
Environmental Laboratory Accreditation Program

John South
Accreditation Officer
Environmental Laboratory Accreditation Program

Certificate No.: 003998
Expiration Date: 12/11/2017
Issued On: 11/15/2016

State of Illinois
Environmental Protection Agency
Awards the Certificate of Approval

Certificate No.: 003998

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

FOT Name: Drinking Water, Inorganic

Method: SM4500P-E,20Ed

Matrix Type: Potable Water

Orthophosphate

Method: USEPA180.1

Matrix Type: Potable Water

Turbidity

Method: USEPA200.8R5.4

Matrix Type: Potable Water

Aluminum

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Thallium

Zinc

Method: USEPA245.1R3.0

Matrix Type: Potable Water

Mercury

Method: USEPA300.0R2.1

Matrix Type: Potable Water

Bromide

Chloride

Fluoride

Nitrate

Nitrite

Sulfate

Method: USEPA353.2R2.0

Matrix Type: Potable Water

Nitrate

Nitrite

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

1,1,1-Trichloroethane

1,1,2,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1-Dichloroethane

1,1-Dichloroethene



Mitigation Strategies

for Lead Found in
School Drinking Water

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

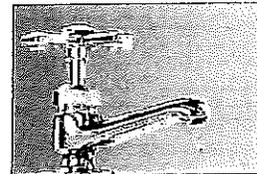
These individuals will be key to implementing whatever program you develop.

Step 2

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:

1. *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.

Step 5

Implement Your Plan

Remove the problem fixture(s) from service

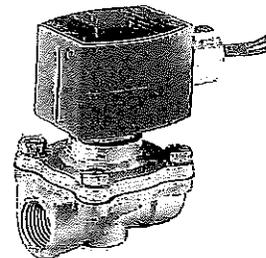
Immediately upon learning that a fixture has tested positive for lead, it should be removed from service. *Install signs, remove handles or bag the device to prevent use until it can be addressed.*



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@isawwa.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