OCCU-TEC
Protecting People, Places and Performance

2604 NE Industrial Dr., Ste. 230
North Kansas City, MO 64117

August 29, 2024

Jeremie Kahler
Park Hill School District
9501 N. Seymour Ave.
Kansas City, MO 64153

**RE: Drinking Water Sampling – Graden Elementary -Post Remediation Sampling**
8804 NW 45 Highway, Kansas City, MO 64152
**Project Number: 923386**

Mr. Kahler,

OCCU-TEC, Inc. (OCCU-TEC) is pleased to present the following report for post-remediation drinking water sampling completed on recently replaced sources at Graden Elementary in Kansas City, Missouri. The sampling was requested and approved by Mr. Jeremie Kahler of Park Hill School District (PHSD). OCCU-TEC completed sampling of sources that contained concentrations of lead above 5.0 parts per billion (ppb) and where fixtures had been subsequently replaced or repaired. Drinking water sampling was completed in accordance with the requirements set forth in Missouri Senate Bill #681/662 known as the "Get the Lead Out of School Drinking Water Act".

**METHODOLOGY**

On August 6, 2024, Mr. Jay Hurst of OCCU-TEC completed testing of four (4) sources at Graden Elementary. Samples were collected as 'First Draw' samples after the fixtures had remained unused for a minimum period of eight (8) hours while not exceeding a maximum period of eighteen (18) hours. Samples were collected in dedicated 250 milliliter laboratory-provided plastic sample containers.

Samples were shipped to Pace Analytical Services, LLC (Pace) of Peoria, Illinois for analysis using Environmental Protection Agency (EPA) method 200.8. Pace is approved for sample analysis by the Missouri Department of Natural Resources (MDNR) under certification numbers 00236 and 00870. A copy of the laboratory analytical results and Chain of Custody documentation are attached to this report.

**RESULTS**

Sample results were compared to the regulatory limit of 5.0 parts per billion (ppb) or micrograms per liter (ug/L) outlined in Missouri Senate Bill 681/662. Below is a list of samples collected and the associated analytical results.

| Sample ID | Location | Type | Result (ppb or ug/L) |
|---|---|---|---|
| 386-GE-03R (Original Sample 386-GE-03) | Kitchen | Dish Sprayer | <1.0 |
| 386-GE-13R (Original Sample 386-GE-13) | Room 40 | Ice Machine | <1.0 |
| 386-GE-88R (Original Sample 386-GE-88) | Room 27 | Sink | 3.8 |
| 386-GE-90R (Original Sample 386-GE-90) | Library Media Center | Sink | 5.21 |

Note: Samples were not collected from sources which had been removed from service or labeled as non-drinking water.

**RECOMMENDATIONS**

The following recommendations are in accordance with Senate Bill 681/662.

In accordance with the requirements set forth in Missouri Bill 681/662, fixtures exhibiting lead concentrations above 5.0 ppb must be remediated by replacement of lead-containing pipes, solder, fittings or fixtures with lead-free components. Until such time as the source of the contamination has been remediated, the school shall install a filter that reduces the lead in drinking water on each water outlet inventoried with results above 5.0 ppb to ensure lead concentrations are below 5.0 ppb.

Within two weeks after receiving test results, the school shall make all testing results and any lead remediation plans available on the school's website. The school shall notify parents and staff via written notification within seven (7) business days after receiving test results exceeding 5.0 ppb. The notification shall include the following:

- Test results and a summary explaining the results.
- A description of any remedial steps taken.
- A description of the general health effects of lead contamination and community specific resources.

- Provide bottled water if there is not enough water to meet the drinking water needs of the students, teachers, and staff.

For fixtures exhibiting results above 5.0 ppb, follow up random "Flush" sampling shall be conducted annually on at least 25-percent of the remediated outlets until all outlets have been remediated. Drinking water sampling shall be conducted annually and annual drinking water test results shall be submitted by the district to the Department of Health and Senior Services (MDHSS).

**LIMITATIONS**

OCCU-TEC did not complete remediation of the sources sampled and cannot verify the completeness of remediation.

**SIGNATURE(S)**

OCCU-TEC appreciates the opportunity to provide the above referenced consulting services to PHSD. If you have any questions regarding the contents of this report, please contact us at (816) 231-5580.

Respectfully,

Jay W. Hurst
Vice President of Operations

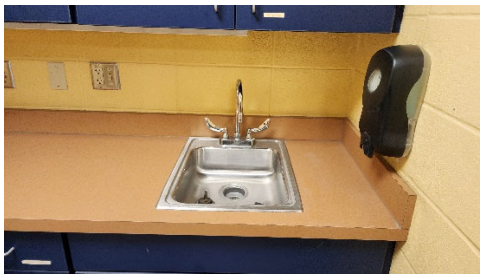
Jeff Smith
Senior Project Manager (QA/QC)

**ATTACHMENTS**

Outlet Inventory with Analytical Results Summary
Laboratory Analytical Results and COC Documentation

| ID: | 386-GE-03R | Location: | Kitchen | | |
|---|---|---|---|---|---|
| Photo: | | Manufacturer: | T&S Brass | | |
| | | Description: | | | |
| | | GR SINK 040 (Dish Sprayer) | | | |
| | | Result: | <1.0 | ppb | |
| | | Date Sampled: | 8/6/2024 | By: | JH |
| Recommended Action: | | | | | |

| ID: | 386-GE-13R | Location: | Room 40 | | |
|---|---|---|---|---|---|
| Photo: | | Manufacturer: | Hoshizaki | | |
| | | Description: | | | |
| | | GR ICE 001 | | | |
| | | Result: | <1.0 | ppb | |
| | | Date Sampled: | 8/6/2024 | By: | JH |
| Recommended Action: | | | | | |

| ID: | 386-GE-88R | Location: | Room 27 | | |
|---|---|---|---|---|---|
| Photo: |  | Manufacturer: | Delta | | |
| | | Description: | | | |
| | | GR Sink 021 | | | |
| | | Result: | 3.8 | ppb | |
| | | Date Sampled: | 8/6/2024 | By: | JH |
| Recommended Action: | | | | | |

Drinking Water Assessment
Graden Elementary
Park Hill School District

| | | | | | |
|---|---|---|---|---|---|
| ID: | 386-GE-090R | Location: | Library Media Center | | |
| Photo: | | Manufacturer: | Chicago Faucet | | |
| | | Description: | | | |
| | | GR Sink 024 | | | |
| | | Result: | **5.21** | ppb | |
| | | Date Sampled: | 8/6/2024 | By: | JEA |
| Recommended Action: | **Remove from Service / Label as Non-Drinking Water** | | | | |

**Pace Analytical Services, LLC**
**2231 W. Altorfer Drive**
**Peoria, IL 61615**
**(800)752-6651**

August 23, 2024

Jeremie Kahler
Park Hill School District
9501 N. Seymour Ave
MO, MO 64153

RE: 923386-Graden Elementary

Dear Jeremie Kahler:

Please find enclosed the analytical results for the **4** sample(s) the laboratory received on **8/12/24 9:30 am** and logged in under work order **HH02217**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Chenise Lambert-Sykes
Project Manager
(314)432-0550
Chenise.Lambert-Sykes@pacelabs.com

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

## SAMPLE RECEIPT CHECK LIST

**Items not applicable will be marked as in compliance**

Work Order HH02217

| | |
|---|---|
| YES | Samples received within temperature compliance when applicable |
| YES | COC present upon sample receipt |
| YES | COC completed & legible |
| YES | Sampler name & signature present |
| YES | Unique sample IDs assigned |
| YES | Sample collection location recorded |
| YES | Date & time collected recorded on COC |
| YES | Relinquished by client signature on COC |
| YES | COC & labels match |
| YES | Sample labels are legible |
| YES | Appropriate bottle(s) received |
| YES | Sufficient sample volume received |
| YES | Sample containers received undamaged |
| NO | Zero headspace, <6 mm present in VOA vials |
| NO | Trip blank(s) received |
| YES | All non-field analyses received within holding times |
| NO | Short hold time analysis |
| YES | Current PDC COC submitted |
| NO | Case narrative provided |

Pace Analytical Services, LLC
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Peoria, IL 61615
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# ANALYTICAL RESULTS

**Sample:** HH02217-01
**Name:** 386-GE-03R
**Matrix:** Drinking Water - Grab

**Sampled:** 08/06/24 17:20
**Received:** 08/12/24 09:30
**PO #:** GR2324

| Parameter | Result | Unit | Qualifier | Prepared | Dilution | MRL | Analyzed | Analyst | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - PIA** | | | | | | | | | |
| Lead | < 1.00 | ug/L | | 08/21/24 09:59 | 1 | 1.00 | 08/21/24 14:49 | BRS | EPA 200.8 REV 5.4 |

**Sample:** HH02217-02
**Name:** 386-GE-13R
**Matrix:** Drinking Water - Grab

**Sampled:** 08/06/24 17:16
**Received:** 08/12/24 09:30
**PO #:** GR2324

| Parameter | Result | Unit | Qualifier | Prepared | Dilution | MRL | Analyzed | Analyst | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - PIA** | | | | | | | | | |
| Lead | < 1.00 | ug/L | | 08/21/24 09:59 | 1 | 1.00 | 08/21/24 14:50 | BRS | EPA 200.8 REV 5.4 |

**Sample:** HH02217-03
**Name:** 386-GE-88R
**Matrix:** Drinking Water - Grab

**Sampled:** 08/06/24 17:13
**Received:** 08/12/24 09:30
**PO #:** GR2324

| Parameter | Result | Unit | Qualifier | Prepared | Dilution | MRL | Analyzed | Analyst | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - PIA** | | | | | | | | | |
| Lead | 3.80 | ug/L | | 08/21/24 09:59 | 1 | 1.00 | 08/21/24 14:51 | BRS | EPA 200.8 REV 5.4 |

**Sample:** HH02217-04
**Name:** 386-GE-90R
**Matrix:** Drinking Water - Grab

**Sampled:** 08/06/24 17:14
**Received:** 08/12/24 09:30
**PO #:** GR2324

| Parameter | Result | Unit | Qualifier | Prepared | Dilution | MRL | Analyzed | Analyst | Method |
|---|---|---|---|---|---|---|---|---|---|
| **Total Metals - PIA** | | | | | | | | | |
| Lead | 5.21 | ug/L | | 08/21/24 09:59 | 1 | 1.00 | 08/21/24 14:56 | BRS | EPA 200.8 REV 5.4 |

Pace Analytical Services, LLC
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Peoria, IL 61615
(800)752-6651

## NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

**Certifications**

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050
TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615
TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)
Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)
Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807
USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050
Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Certified by: Chenise Lambert-Sykes, Project Manager

Pace Analytical Services
WWW.PACELABS.COM

| REGULATORY PROGRAM (CIRCLE): | NPDES |
|---|---|
| MORBCA | RCRA |
| CCDD | TACO: RES OR IND/COMM |

# CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED MO

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

| 1 CLIENT | PROJECT NUMBER | PROJECT LOCATION | PURCHASE ORDER # |
|---|---|---|---|
| Park Hill School District | 923386 | Graden Elementary | GR2324 |
| ADDRESS: 9501 N. Seymour Ave. | PHONE NUMBER: 8163596731 | E-MAIL: KahlerJ@parkhill.k12.mo.us | DATE SHIPPED: 8/8/2024 |
| CITY STATE ZIP: Kansas City, MO 64153 | SAMPLER (PLEASE PRINT): Jay Hurst | | MATRIX TYPES: WW- WASTEWATER, DW- DRINKING WATER, GW- GROUND WATER, WWSL- SLUDGE, NAS- NON AQUEOUS SOLID, LCHT-LEACHATE, OIL-OIL, SO-SOIL, SOL-SOLID |
| CONTACT PERSON: Jeremie Kahler | SAMPLER'S SIGNATURE: [signature] | | |

3 ANALYSIS REQUESTED

4 (FOR LAB USE ONLY)
LOGIN # HH02217
LOGGED BY: gsx
CLIENT: Park Hill School District
PROJECT: Drinking Water Lead
PROJ. MGR.: Chenise Lambert-Sykes
CUSTODY SEAL #:

| 2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT) | DATE COLLECTED | TIME COLLECTED | SAMPLE TYPE GRAB | SAMPLE TYPE COMP | MATRIX TYPE | BOTTLE COUNT | PRES CODE (CLIENT PROVIDED) | DW Lead | Turb Check | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 386-GE-03R | 8/6/2024 | 1720 | X | | DW | 1 | 6 | X | | | | | | | |
| 386-GE-13R | 8/6/2024 | 1716 | X | | DW | 1 | 6 | X | | | | | | | |
| 386-GE-88R | 8/6/2024 | 1713 | X | | DW | 1 | 6 | X | | | | | | | |
| 386-GE-90R | 8/6/2024 | 1714 | X | | DW | 1 | 6 | X | | | | | | | |
| | | | X | | DW | 1 | 6 | X | | | | | | | |
| | | | X | | DW | 1 | 6 | X | | | | | | | |
| | | | X | | DW | 1 | 6 | X | | | | | | | |
| | | | X | | DW | 1 | 6 | X | | | | | | | |
| | | | X | | DW | 1 | 6 | X | | | | | | | |
| | | | X | | DW | 1 | 6 | X | | | | | | | |
| | | | X | | Dw | 1 | 6 | X | | | | | | | |

CHEMICAL PRESERVATION CODES: 1 – HCL | 2 – H2SO4 | 3 – HNO3 | 4 – NAOH | 5 – NA2S2O3 | 6 – UNPRESERVED | 7 – OTHER

5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH
(RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE)
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE
DATE RESULTS NEEDED
EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:

6 *I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.*
PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) _____

| 7 RELINQUISHED BY: (SIGNATURE) | DATE 8/8/2024 | RECEIVED BY: (SIGNATURE) | DATE |
|---|---|---|---|
| | TIME 8:05 | | TIME |
| RELINQUISHED BY: (SIGNATURE) | DATE | RECEIVED BY: (SIGNATURE) | DATE |
| | TIME | | TIME |
| RELINQUISHED BY: (SIGNATURE) | DATE | RECEIVED BY: (SIGNATURE) [signature] | DATE 8/12/24 |
| | TIME | | TIME 0930 |

8 COMMENTS: (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT — °C
CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N
SAMPLE(S) RECEIVED ON ICE Y OR N
SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N
DATE AND TIME TAKEN FROM SAMPLE BOTTLE _____