

April 25, 2022

Mr. Chris Fenske  
Lakeview Public Schools  
875 Barstad Rd N  
Cottonwood, MN 56229



**RE: 2022 Lead-in-Water First Draw – Initial Testing  
IEA Project #202210362**

Dear Mr. Fenske:

At the request of Lakeview Public Schools, IEA collected 37 water samples from identified potable water sources on April 7, 2022, for lead analyses from the Lakeview Public School K-12 building.

The purpose of the sampling is to document lead content in the sampled locations.

## INTRODUCTION

Minnesota Statute 121A.335 requires public school buildings serving pre-kindergarten through grade 12 to test for lead in potable water fixtures every five years. The *3Ts for Reducing Lead in Drinking Water Toolkit (2018)* and the Lead Contamination Control Act (LCCA) of 1988 were created by the Environmental Protection Agency (EPA) to identify and reduce lead in drinking water. Lead is a metal that usually enters drinking water through the distribution system, including pipes, solders, faucets, and valves. Lead content in water may increase when the water is allowed to sit undisturbed in the system. Exposure to lead is a health concern.

The EPA recommends taking action when elevated lead levels are noted in water fixtures. The MDH and MDE recommend taking a fixture out of service if levels are 20 parts per billion (ppb) or higher. The MDH and MDE also recommend taking action according to their guidelines for fixtures with levels of 2 parts per billion (ppb) or higher.

## METHODOLOGY

IEA collected 37 first-draw (unless otherwise noted) samples of approximately 250 milliliters (ml) of water. “First draw” means the samples are collected before the fixture is used or flushed during the day. The first-draw sample results reflect a worst-case scenario, i.e., the highest lead level that would be consumed by building occupants. MDH recommends fixtures not be used 6 to 18 hours prior to sampling fixtures.

INSTITUTE FOR ENVIRONMENTAL ASSESSMENT, INC.  
[www.ieasafety.com](http://www.ieasafety.com)

BROOKLYN PARK  
9201 West Broadway, #600  
Brooklyn Park, MN 55445  
763-315-7900 / FAX 763-315-7920  
800-233-9513

MANKATO  
610 North Riverfront Drive  
Mankato, MN 56001  
507-345-8818 / FAX 507-345-5301  
800-233-9513

ROCHESTER  
210 Woodlake Drive SE  
Rochester, MN 55904  
507-281-6664 / FAX 507-281-6695  
800-233-9513

BRainerd  
601 NW 5<sup>th</sup> Street, Ste. #4  
Brainerd, MN 56401  
218-454-0703 / FAX 218-454-0703  
800-233-9513

MARSHALL  
1420 East College Drive  
Marshall, MN 56258  
507-476-3599 / FAX 507-537-6985  
800-233-9513

VIRGINIA  
5525 Emerald Avenue  
Mountain Iron, MN 55768  
218-410-9521  
800-233-9513

Water samples were analyzed by Minnesota Valley Testing Laboratories (MVTL) in New Ulm, Minnesota, which uses EPA-approved analytical methods and quality control/assurance procedures. Samples were analyzed using the ICP/MS EPA Method 200.8.

## RESULTS & DISCUSSION

The lead-in-water sampling results ranged from below the level of detection (<0.5 ppb) to 6.72 ppb. Thus, lead content was below the district designated level of 20 ppb. The laboratory report is provided in Appendix A. Laboratory results are reported in micrograms per liter ( $\mu\text{g/L}$ ) which is equivalent to parts per billion (ppb).

## RECOMMENDATIONS

Sampled fixtures showed lead levels below the district designated level of 20 ppb. Based on the sample results, no further action is required at this time.

In addition, the MDH recommends labeling any water fixtures not included in the sampling program, including bathroom taps, hose bibbs, laboratory faucets/sinks, or custodial closet sinks.

If the school receives its water from a Community Public Water Supply, such as a municipal water supply, MDH encourages the school to work with them to assess the source contribution of lead coming into the school.

It is recommended that a copy of the district's Lead in Water Testing Report be made available to staff and the public through the district's administrative offices. Per Minnesota Statutes, section 121A.335, a school district that has tested its buildings for the presence of lead shall make the results of the testing available to the public for review and must notify parents of the availability of the information.

## GENERAL CONDITIONS

The analysis and opinions expressed in this report are based upon data obtained from the district at the indicated locations. This report does not reflect variations in conditions that may occur across the site, property, or facility. Actual conditions may vary and may not become evident without further assessment.

The report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted environmental, health and safety practices. Other than as provided in the preceding sentence and in our Proposal #10399 dated April 5, 2022, regarding lead-in-water sampling at the district locations, including the General Conditions attached thereto, no warranties are extended or made.

Please contact IEA if you would like assistance with any of the above recommendations or have questions regarding this report.

Sincerely,

IEA, Inc.

A handwritten signature in black ink that reads "Aaron Hess". The signature is written in a cursive style and is contained within a light blue rectangular box.

Aaron Hess  
EH&S Project Manager

AH/wb 042522

Enc.

# **Appendix A**

*Laboratory Testing Report*

# MINNESOTA VALLEY TESTING LABORATORIES, INC.

## MVTL

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890

2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724

1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

www.mvttl.com

MEMBER  
ACIL

Report Date: 20 Apr 2022

AARON HESS  
IEA/BROOKLYN PARK  
9201 W BDWY STE #600  
BROOKLYN PARK MN 55445

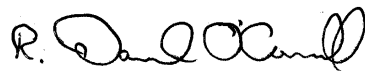
Work Order #: 12-7633  
Account #: 002190  
Purchase Order #: 202210362

Date Received: 8 Apr 2022  
Date Sampled: 7 Apr 2022  
Time Sampled: 6:03  
Temperature at Receipt: 19.5C

PROJECT NAME: LAKEVIEW-2022 LEAD K-12  
PROJECT NUMBER: 202210362

| LAB NUMBER | SAMPLE DESCRIPTION                                    | LEAD RESULTS | MCL  | DATE ANALYZED | ANALYST |
|------------|---|--------------|------|---------------|---------|
| 22-A15100  | 040722-LAKEVIEW-01 FOUNTAIN OUTSIDE AUDITORIUM LEFT   | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15101  | 040722-LAKEVIEW-02 FOUNTAIN OUTSIDE AUDITORIUM RIGHT  | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15102  | 040722-LAKEVIEW-03 BOY'S LOCKER ROOM FOUNTAIN         | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15103  | 040722-LAKEVIEW-04 GIRL'S LOCKER ROOM FOUNTAIN        | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15104  | 040722-LAKEVIEW-05 AG CLASSROOM 451                   | 2.47 ug/L    | 15.0 | 18 Apr 22     | TMM     |
| 22-A15105  | 040722-LAKEVIEW-06 KITCHEN PREP SINK FAUCET           | 0.81 ug/L    | 15.0 | 18 Apr 22     | TMM     |
| 22-A15106  | 040722-LAKEVIEW-07 KITCHEN STEAMER KETTLE             | 0.60 ug/L    | 15.0 | 18 Apr 22     | TMM     |
| 22-A15107  | 040722-LAKEVIEW-08 KITCHEN FAUCET ACROSS FROM STEAMER | 2.23 ug/L    | 15.0 | 18 Apr 22     | TMM     |

Approved by:



Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

Analyses performed under our Minnesota Department of Health Accreditation conform to the current TNI standards. The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix

! = Due to sample quantity

# = Due to concentration of other analytes

+ = Due to internal standard response

CERTIFICATION: MN LAB # 027-015-125 ND WW/DW # R-040

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

AN EQUAL OPPORTUNITY EMPLOYER

# MINNESOTA VALLEY TESTING LABORATORIES, INC.

## MVTL

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890

2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724

1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

www.mvttl.com

MEMBER

ACIL

Report Date: 20 Apr 2022

Work Order #: 12-7633

Account #: 002190

Purchase Order #: 202210362

Date Received: 8 Apr 2022

Date Sampled: 7 Apr 2022

Time Sampled: 6:12

Temperature at Receipt: 19.5C

AARON HESS

IEA/BROOKLYN PARK

9201 W BDWY STE #600

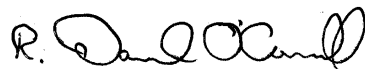
BROOKLYN PARK MN 55445

PROJECT NAME: LAKEVIEW-2022 LEAD K-12

PROJECT NUMBER: 202210362

| LAB NUMBER | SAMPLE DESCRIPTION                            | LEAD RESULTS | MCL  | DATE ANALYZED | ANALYST |
|------------|---|--------------|------|---------------|---------|
| 22-A15108  | 040722-LAKEVIEW-09 COMMONS LEFT FOUNTAIN      | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15109  | 040722-LAKEVIEW-10 COMMONS RIGHT FOUNTAIN     | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15110  | 040722-LAKEVIEW-11 TEACHERS LOUNGE FAUCET 262 | 1.14 ug/L    | 15.0 | 18 Apr 22     | TMM     |
| 22-A15111  | 040722-LAKEVIEW-12 ROOM 253 FOUNTAIN LEFT     | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15112  | 040722-LAKEVIEW-13 ROOM 253 FOUNTAIN RIGHT    | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15113  | 040722-LAKEVIEW-14 ROOM 132 FOUNTAIN LEFT     | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15114  | 040722-LAKEVIEW-15 ROOM 132 FOUNTAIN RIGHT    | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |

Approved by:



Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

Analyses performed under our Minnesota Department of Health Accreditation conform to the current TNI standards. The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix

! = Due to sample quantity

# = Due to concentration of other analytes

+ = Due to internal standard response

CERTIFICATION: MN LAB # 027-015-125 ND WW/DW # R-040

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

AN EQUAL OPPORTUNITY EMPLOYER



# MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890  
 2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724  
 1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER  
ACIL

www.mvttl.com

Report Date: 20 Apr 2022



AARON HESS  
 IEA/BROOKLYN PARK  
 9201 W BDWY STE #600  
 BROOKLYN PARK MN 55445

Work Order #: 12-7633  
 Account #: 002190  
 Purchase Order #: 202210362

Date Received: 8 Apr 2022  
 Date Sampled: 7 Apr 2022  
 Time Sampled: 6:24  
 Temperature at Receipt: 19.5C

PROJECT NAME: LAKEVIEW-2022 LEAD K-12  
 PROJECT NUMBER: 202210362

| LAB NUMBER | SAMPLE DESCRIPTION                           | LEAD RESULTS | MCL  | DATE ANALYZED | ANALYST |
|------------|--|--------------|------|---------------|---------|
| 22-A15115  | 040722-LAKEVIEW-16 ROOM 141 COMM ED FAUCET   | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15116  | 040722-LAKEVIEW-17 ROOM 148 FAUCET           | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15117  | 040722-LAKEVIEW-18 ROOM 149 FAUCET           | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15118  | 040722-LAKEVIEW-19 ROOM 156 FOUNTAIN LEFT    | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15119  | 040722-LAKEVIEW-20 ROOM 156 FOUNTAIN RIGHT   | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15120  | 040722-LAKEVIEW-21 BREAKROOM 156 FAUCET      | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |
| 22-A15121  | 040722-LAKEVIEW-22 FOUNTAIN OUTSIDE 116 LEFT | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |

Approved by:    
 Dan O'Connell David Smahel  
 Chemistry Laboratory Managers New Ulm, MN

Analyses performed under our Minnesota Department of Health Accreditation conform to the current TNI standards. The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix # = Due to concentration of other analytes  
 ! = Due to sample quantity + = Due to internal standard response

CERTIFICATION: MN LAB # 027-015-125 ND WW/DW # R-040

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

# MINNESOTA VALLEY TESTING LABORATORIES, INC.

## MVTL

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890

2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724

1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

www.mvttl.com

MEMBER  
ACIL

Report Date: 20 Apr 2022

AARON HESS  
IEA/BROOKLYN PARK  
9201 W BDWY STE #600  
BROOKLYN PARK MN 55445

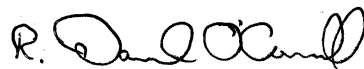
Work Order #: 12-7633  
Account #: 002190  
Purchase Order #: 202210362

Date Received: 8 Apr 2022  
Date Sampled: 7 Apr 2022  
Time Sampled: 6:28  
Temperature at Receipt: 19.5C

PROJECT NAME: LAKEVIEW-2022 LEAD K-12  
PROJECT NUMBER: 202210362

| LAB NUMBER | SAMPLE DESCRIPTION                      | LEAD RESULTS        | MCL  | DATE ANALYZED | ANALYST |
|------------|---|---------------------|------|---------------|---------|
| 22-A15122  | 040722-LAKEVIEW-23 FOUNTAIN OUTSIDE 116 | RIGHT<br>< 0.5 ug/L | 15.0 | 18 Apr 22     | TMM     |
| 22-A15123  | 040722-LAKEVIEW-24 FOUNTAIN ACROSS 204  | < 0.5 ug/L          | 15.0 | 18 Apr 22     | TMM     |
| 22-A15124  | 040722-LAKEVIEW-25 FACS ROOM FAUCET #1  | 3.84 ug/L           | 15.0 | 18 Apr 22     | TMM     |
| 22-A15125  | 040722-LAKEVIEW-26 FACS ROOM FAUCET #2  | 1.87 ug/L           | 15.0 | 18 Apr 22     | TMM     |
| 22-A15126  | 040722-LAKEVIEW-27 FACS ROOM FAUCET #3  | 5.54 ug/L           | 15.0 | 18 Apr 22     | TMM     |
| 22-A15127  | 040722-LAKEVIEW-28 FACS ROOM FAUCET #4  | 5.51 ug/L           | 15.0 | 18 Apr 22     | TMM     |
| 22-A15128  | 040722-LAKEVIEW-29 FACS ROOM FAUCET #5  | 4.74 ug/L           | 15.0 | 18 Apr 22     | TMM     |

Approved by:



Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

Page: 4

Analyses performed under our Minnesota Department of Health Accreditation conform to the current TNI standards. The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix

# = Due to concentration of other analytes

! = Due to sample quantity

+ = Due to internal standard response

CERTIFICATION: MN LAB # 027-015-125 ND WW/DW # R-040

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

AN EQUAL OPPORTUNITY EMPLOYER



# MINNESOTA VALLEY TESTING LABORATORIES, INC.

## MVTL

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890

2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724

1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

www.mvttl.com

MEMBER

ACIL

Report Date: 20 Apr 2022

AARON HESS  
IEA/BROOKLYN PARK  
9201 W BDWY STE #600  
BROOKLYN PARK MN 55445

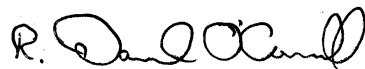
Work Order #: 12-7633  
Account #: 002190  
Purchase Order #: 202210362

Date Received: 8 Apr 2022  
Date Sampled: 7 Apr 2022  
Time Sampled: 6:38  
Temperature at Receipt: 19.5C

PROJECT NAME: LAKEVIEW-2022 LEAD K-12  
PROJECT NUMBER: 202210362

| LAB NUMBER | SAMPLE DESCRIPTION                              | LEAD RESULTS | MCL  | DATE ANALYZED | ANALYST |
|------------|---|--------------|------|---------------|---------|
| 22-A15129  | 040722-LAKEVIEW-30 ROOM 101 FAUCET              | 2.95 ug/L    | 15.0 | 18 Apr 22     | TMM     |
| 22-A15130  | 040722-LAKEVIEW-31 ROOM 103 FAUCET              | 5.41 ug/L    | 15.0 | 18 Apr 22     | TMM     |
| 22-A15131  | 040722-LAKEVIEW-32 ROOM 105 FAUCET              | 0.80 ug/L    | 15.0 | 18 Apr 22     | TMM     |
| 22-A15132  | 040722-LAKEVIEW-33 OFFICE ROOM 103 FAUCET       | 0.68 ug/L    | 15.0 | 18 Apr 22     | TMM     |
| 22-A15133  | 040722-LAKEVIEW-34 CUSTODIAL ROOM 332 FAUCET    | 2.37 ug/L    | 15.0 | 18 Apr 22     | TMM     |
| 22-A15134  | 040722-LAKEVIEW-35 KITCHEN ISLAND MIDDLE FAUCET | 6.72 ug/L    | 15.0 | 18 Apr 22     | TMM     |
| 22-A15135  | 040722-LAKEVIEW-36 KITCHEN PREP SINK SPRAYER    | < 0.5 ug/L   | 15.0 | 18 Apr 22     | TMM     |

Approved by:



Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

Page: 5

Analyses performed under our Minnesota Department of Health Accreditation conform to the current TNI standards. The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix

# = Due to concentration of other analytes

! = Due to sample quantity

+ = Due to internal standard response

CERTIFICATION: MN LAB # 027-015-125 ND WW/DW # R-040

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

AN EQUAL OPPORTUNITY EMPLOYER



# MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890  
 2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724  
 1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885

MEMBER  
ACIL

www.mvttl.com

Report Date: 20 Apr 2022

AARON HESS  
 IEA/BROOKLYN PARK  
 9201 W BDWY STE #600  
 BROOKLYN PARK MN 55445

Work Order #: 12-7633  
 Account #: 002190  
 Purchase Order #: 202210362

Date Received: 8 Apr 2022  
 Date Sampled: 7 Apr 2022  
 Time Sampled: 7:00  
 Temperature at Receipt: 19.5C

PROJECT NAME: LAKEVIEW-2022 LEAD K-12  
 PROJECT NUMBER: 202210362

| LAB NUMBER | SAMPLE DESCRIPTION                         | LEAD RESULTS | MCL  | DATE ANALYZED | ANALYST |
|------------|--|--------------|------|---------------|---------|
| 22-A15136  | 040722-LAKEVIEW-37 CONCESSION STAND FAUCET | 2.38 ug/L    | 15.0 | 18 Apr 22     | TMM     |

Approved by:

Dan O'Connell                      David Smahel  
 Chemistry Laboratory Managers    New Ulm, MN

Page: 6

Analyses performed under our Minnesota Department of Health Accreditation conform to the current TNI standards. The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix                      # = Due to concentration of other analytes  
 ! = Due to sample quantity                    + = Due to internal standard response

CERTIFICATION: MN LAB # 027-015-125    ND WW/DW # R-040

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.