Columbus

Cleveland

Dayton

August 19, 2016

Mr. Tim Gehring Director of Facilities Management Worthington City School District 250 East Wilson Bridge Road Worthington, Ohio 43085

Re: Lead in Water Testing at Sutter Park Preschool

1850 Sutter Parkway, Powell, OH 43065

Sample Date: June 16, 2016 L&A Project No: 16-0311

Dear Mr. Gehring,

Lawhon & Associates, Inc. (L&A) performed water sampling to document concentrations of lead in the potable water system. There is no federal law requiring testing of drinking water in schools, except for schools that have their own water supply and are thus regulated under the Safe Drinking Water Act (SDWA). This testing was performed as a proactive measure to ensure lead in drinking water concentrations remain at acceptable levels. L&A's conclusions and recommendations relevant to the sampling performed are presented in this document.

METHODOLOGY

L&A performed environmental sampling for lead in water at Sutter Park Preschool on June 16, 2016. The sampling was conducted in accordance with the United States Environmental Protection Agency's (US EPA) guidance document "3Ts (Training, Testing, and Telling) for Reducing Lead in Drinking Water in Schools" (3Ts Guidance); however, a larger sample volume was collected due to laboratory requirements for Ohio EPA certified methods. A sampling plan was developed for the facility, which prioritized drinking water sources based on potential use and risk. Field activities included the collection of one (1) liter water samples from the water main service connection, drinking fountains, kitchen sinks, and approximately 10% of classroom sinks or other potential drinking water sources. Both first draw and flush samples were collected at each location. Prior to sample collection, the potable water system was not used for a minimum of 8 hours. Samples were collected by Mr. Shawen Jenkins, Ohio Department of Health (ODH) certified Lead Risk Assessor (LRA) #LA9297. First draw samples were submitted to MASI Environmental Laboratories located in Plain City, Ohio for analysis using the EPA method SM3113B. MASI is certified by the Ohio EPA for lead in drinking water analysis. Flushed samples were held at the L&A office and submitted for analysis only if the first draw sample from the same fixture exceeded the US EPA Action Level.

REGULATORY ACTION LEVELS

US EPA's 3T's Guidance recommends an action level of 20 parts per billion (ppb) for lead; however, Ohio Facilities Construction Commission (OFCC) Lead Plumbing Fixture Replacement Assistance Grants Program has set an action level of 15 ppb for lead which is consistent with

1441 King Avenue | Columbus, Ohio 43212 | P:614.481.8600 | F:614.481.8610 | www.lawhon-assoc.com

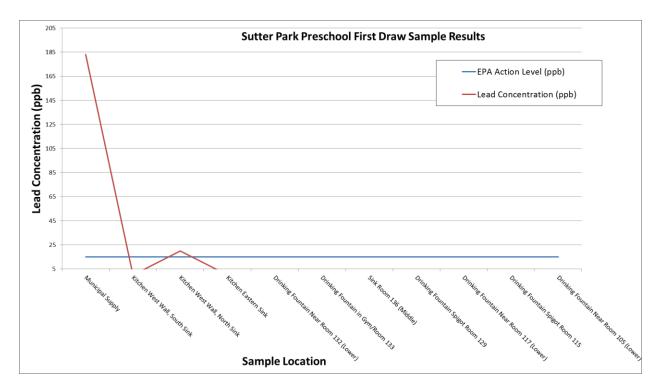
the action level for lead set by EPA's Lead and Copper Rule, under the National Primary Drinking Water Regulations (NPDWR).

For the purposes of this assessment, L&A has utilized an action level of 15 ppb lead for comparison with the laboratory analytical results.

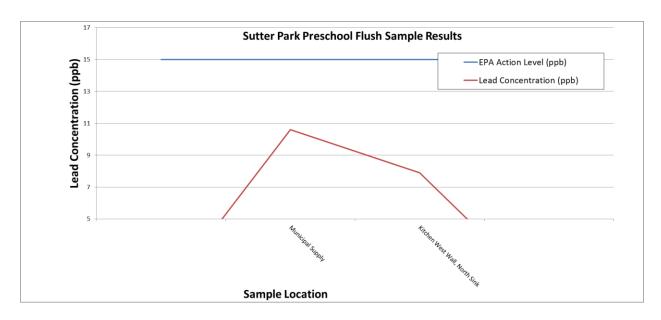
FINDINGS

L&A collected 21 water samples at Sutter Park Preschool, of which 11 first draw samples were submitted for laboratory analysis. A diagram of the sampling locations is presented in Appendix A. As illustrated on the following graph, lead was detected above the action level in two sample locations:

- Municipal Supply Service Connection (183 μg/L)
- Kitchen-West Wall-North Sink(20 µg/L)



L&A submitted the flush samples for these locations. As illustrated on the following graph, the lead concentrations in the flush samples were reported below the action level as well as the detection limit.



A comprehensive data table is included as Appendix B. A copy of the laboratory report is included in Appendix C.

CONCLUSIONS

The results of L&A's sampling indicate that the following locations had lead concentrations found in excess of the action level in the first draw sample but below the action level in the subsequent flush sample, indicating that the source of lead is likely in the fixture itself or the plumbing connecting the fixture to the lateral, and very little lead is likely coming from the plumbing upstream of the fixture:

- Municipal Supply Service Connection
- Kitchen-West Wall-North Sink

Based on the results, L&A recommends cleaning out the aerator screen of the Kitchen-West Wall-North Sink, replacing any lead containing components, or replacing the entire fixture and retesting to confirm that the lead in water concentration no longer exceeds the action level.

Considering that the municipal supply service connection is not used directly as a drinking water outlet and that the lead concentration in the flush sample from the municipal supply service connection was below the action level, it is L&A's opinion that no further action is necessary at this time with regard to the municipal supply service connection.

CLOSURE

L&A has prepared this report for your use in accordance with generally accepted inspection and testing practices. The information obtained in this report is site and time specific and pertains to this project only. This inspection evaluated the conditions that were readily accessible at the time of the investigation of the subject property and does not warrant against hidden conditions or future alteration of conditions at the site, as well as subsequent changes in regulations. This report should not be construed as a full Lead Risk Assessment.

This report was prepared for the exclusive use of the Worthington City School District. No other party may rely on this report unless expressly designated by the Client in writing. The use of the report is subject to the limitations and exceptions set forth in this report, as well as the terms and conditions contained in the original contract documents. L&A will not distribute or publish this report without the Client's consent, except as required by law or court order.

Thank you for the opportunity to assist you in this important matter. If you have any questions concerning this report, please contact Shawen Jenkins or Tim Price at (614) 481-8600. Sincerely,

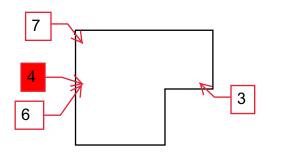
Shawen Jenkins, Lead Risk Assessor

Environmental Scientist

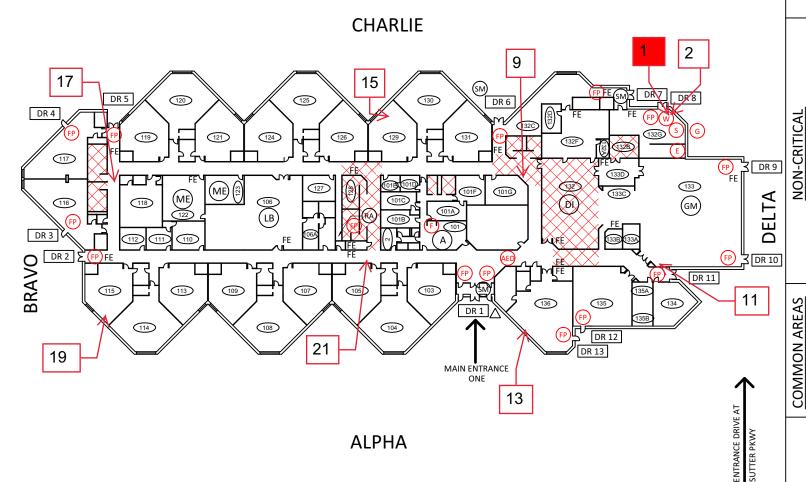
Tim Price Senior Project Manager

APPENDIX A

Sample Location Diagram







TORNADO EVAC. SITE

P FIRE PULL STATIONS

LOCATION OF EXISTING AED

ELECTRICAL SHUTOFF

FIRE ALARM PANEL

G GAS SHUTOFF

KNOX BOX

CRITICAL

S SPRINKLER SHUTOFF

W WATER SHUTOFF

(A) ADMINISTRATIVE SUITE

(R) AREA OF REFUGE

CORRIDOR

E ELEVATOR

DR 1 EXTERIOR DOORS

FE FIRE EXTINGUISHER

P LOCATION OF BLUEPRINTS

(RA) ROOF ACCESS POINT

123 ROOM NUMBER

SECURITY MONITORING AND ACCESS CONTROL

SE 1 SERVICE ENTRANCE

MPR MULTIPURPOSE ROOM

(DI) DINING

GM GYMNASIUM

ME MEDIA
(ST) STAGE

WORTHINGTON SCHOOLS SUTTER PARK ELEMENTARY SCHOOL

1850 SUTTER PKWY
WORTHINGTON
FACILITY SAFETY PLAN
OHIO FACILITIES CONSTRUCTION COMMISSION

 IRN:
 095786

 BUILDING TELEPHONE NUMBER:
 (614) 883-2850

 EMERGENCY TELEPHONE NUMBER:
 (614) 560-4147

APPENDIX B

Comprehensive Data Table

Table 1: Potable Water Sampling Results

Sample ID	Sampling Site	Sample Type	Meets Non-Use Period	Recalled Fixture	Analytical Results (ppb)
SPP-1	Municipal Supply	First Draw	Yes	No	183
SPP-2	Municipal Supply	Flush	Yes	No	10.6
SPP-3	Kitchen, West Wall, South Sink	First Draw	Yes	No	<5
SPP-5	Kitchen, West Wall, North Sink	First Draw	Yes	No	20
SPP-6	Kitchen, West Wall, North Sink	Flush	Yes	No	7.9
SPP-7	Kitchen South Wall Sink	First Draw	Yes	No	<5
SPP-9	Drinking Fountain Near Room 132 (Lower)	First Draw	Yes	No	<5
SPP-11	Drinking Fountain in Gym/Room 133	First Draw	Yes	No	<5
SPP-13	Sink Room 136 (Middle)	First Draw	Yes	No	<5
SPP-15	Drinking Fountain Spigot Room 129	First Draw	Yes	No	<5
SPP-17	Drinking Fountain Near Room 117 (Lower)	First Draw	Yes	No	<5
SPP-19	Drinking Fountain Spigot Room 115	First Draw	Yes	No	<5
SPP-21	Drinking Fountain Near Room 105 (Lower)	First Draw	Yes	No	<5

^{1.} Detection limit is 5.0 ppbl.

^{2.} Bold indicates lead present above detection limits.

^{3.} Highlighting indicates lead concentrations exceed the EPA Action Level.

APPENDIX C

Laboratory Analytical Reports

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: 1 Date: 06/23/16

LAWHON & ASSOCIATES, INC. CHUCK WILSON

1441 KING AVENUE

COLUMBUS OH 43212

Client No: 0000005911 AR Sheet No: 04153/c-mm MASI Dublin Laboratory: 877

PWS ID No:

STU ID No: PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC. Private

Sampler Name: SHAWEN JENKINS County: FRANKLIN

Sample Date: 06/16/16 Chlorinated: Sample Time: 08:00 Repeat No: Sample Matrix: POTABLE C12 Total: C12 Free: Sample Monitoring Point: Sample Tap: WATER MAIN C12 Combined:

Sample Type:

Sample Address: 1850 SUTTER PKWY POWELL OHIO 43065 SPP 1

Sample ID:

____ Lab Method Analyst Date Number Number Analyzed Test Requested

Test Result

LEAD 44354 3113B 4792 06/21/16

183 uq/l

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: Date: 06/23/16

LAWHON & ASSOCIATES, INC. CHUCK WILSON

1441 KING AVENUE

COLUMBUS OH 43212

Client No: 0000005911 AR Sheet No: 0415374-AR
MASI Dublin Laboratory: 877

County: FRANKLIN

Chlorinated:

C12 Combined:

Repeat No:

C12 Total: C12 Free:

PWS ID No:

Private

Dear Client:

STU ID No: PO No:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.

Sampler Name: SHAWEN JENKINS

Sample Date: 06/16/16 Sample Time: 08:04 Sample Matrix: POTABLE Sample Monitoring Point:

Sample Tap: NW KITCHEN SINK Sample Type:

Sample Address: 1850 SUTTER PKWY SPP-3

Sample ID:

Lab Metho**d** Analyst Date Number Number Number Analyze**d** Test Requested Test Result

LEAD 44347 3113B 4792 06/21/16

<5.0 u**g**/1

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: 1 Date: 06/23/16

LAWHON & ASSOCIATES, INC. CHUCK WILSON

1441 KING AVENUE

COLUMBUS OH 43212

Client No: 0000005911 AR Sheet No: 04153/5 mm.
MASI Dublin Laboratory: 877

County: FRANKLIN

Chlorinated:

C12 Combined:

Repeat No:

Cl2 Total:

C12 Free:

PWS ID No:

Private

STU ID No: PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.

Sampler Name: SHAWEN JENKINS

Sample Date: 06/16/16 Sample Time: 08:06 Sample Matrix: POTABLE Sample Monitoring Point:

Sample Tap: NE KITCHEN SINK

Sample Type:

Sample Address: 1850 SUTTER PKWY SPP-4

Sample ID:

____ Lab Method Analyst Date Number Number Number Analyzed Test Requested

Test Result

LEAD 44345 3113B 4792 06/21/16

20.0 ug/1

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: Date: 06/23/16

LAWHON & ASSOCIATES, INC. CHUCK WILSON

1441 KING AVENUE

COLUMBUS OH 43212

Client No: 0000005911 AR Sheet No: 0415378-AR
MASI Dublin Laboratory: 877

County: FRANKLIN

Chlorinated:

C12 Combined:

Repeat No:

C12 Total: C12 Free:

PWS ID No:

Private

STU ID No: PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.

Sampler Name: SHAWEN JENKINS

Sample Date: 06/16/16 Sample Time: 08:12 Sample Matrix: POTABLE Sample Monitoring Point: Sample Tap: S KITCHEN SINK Sample Type:

Sample Address: 1850 SUTTER PKWY SPP-7

Sample ID:

Lab Metho**d** Analyst Date Number Number Number Analyze**d** Test Requested

Test Result

LEAD 44327 3113B 4792 06/21/16

<5.0 u¶/1

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: Date: 06/23/16

> > 0000005911

LAWHON & ASSOCIATES, INC. CHUCK WILSON 1441 KING AVENUE

COLUMBUS OH 43212

Client No: AR Sheet No: 0415300 mm.
MASI Dublin Laboratory: 877

County: FRANKLIN

Chlorinated:

C12 Combined:

Repeat No:

C12 Total: C12 Free:

PWS ID No:

Private

STU ID No: PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.

Sampler Name: SHAWEN JENKINS

Sample Date: 06/16/16 Sample Time: 08:16 Sample Matrix: POTABLE Sample Monitoring Point: Sample Tap: DF NEAR 132 Sample Type:

Sample Address: 1850 SUTTER PKWY SPP-9

Sample ID:

Lab Metho**d** Analyst Date Number Number Number Analyze**d** Test Requested Test Result

LEAD 44324 3113B 4792 06/21/16

<5.0 u¶/1

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: 1 Date: 06/23/16

4792 06/21/16

LAWHON & ASSOCIATES, INC. CHUCK WILSON

1441 KING AVENUE

COLUMBUS OH 43212

Client No: 0000005911 AR Sheet No: 0415362 mm.
MASI Dublin Laboratory: 877

County: FRANKLIN

Chlorinated:

C12 Combined:

Repeat No:

C12 Total:

C12 Free:

PWS ID No:

Private

STU ID No: PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.

Sampler Name: SHAWEN JENKINS

Sample Date: 06/16/16 Sample Time: 08:18 Sample Matrix: POTABLE Sample Monitoring Point:

Sample Tap: DF IN 133 GYM

Sample Type:

Sample Address: 1850 SUTTER PKWY SPP-11

Sample ID:

____ Lab Method Analyst Date Number Number Number Analyzed Test Requested Test Result

44320 3113B

LEAD <5.0 uq/1

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: Date: 06/23/16

LAWHON & ASSOCIATES, INC. CHUCK WILSON

1441 KING AVENUE

COLUMBUS OH 43212

Client No: 0000005911 AR Sheet No: 0415384-Ak MASI Dublin Laboratory: 877

PWS ID No: STU ID No:

PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC. Private

Sampler Name: SHAWEN JENKINS County: FRANKLIN

Sample Date: 06/16/16 Chlorinated: Sample Time: 08:22 Repeat No: Sample Matrix: POTABLE C12 Total: C12 Free: Sample Monitoring Point: Sample Tap: MIDDLE SINK RM 136 Sample Type: C12 Combined:

Sample Address: 1850 SUTTER PKWY SPP-13

Sample ID:

<5.0 u**g**/1

Lab Metho**d** Analyst Date Number Number Number Analyze**d** Test Requested Test Result

LEAD 44315 3113B 4792 06/21/16

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: 1 Date: 06/23/16

LAWHON & ASSOCIATES, INC. CHUCK WILSON

1441 KING AVENUE

COLUMBUS OH 43212

Client No: 0000005911 AR Sheet No: 0415300 mm.
MASI Dublin Laboratory: 877

County: FRANKLIN

Chlorinated:

C12 Combined:

Repeat No:

C12 Total:

C12 Free:

PWS ID No:

Private

STU ID No: PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.

Sampler Name: SHAWEN JENKINS

Sample Date: 06/16/16 Sample Time: 08:26 Sample Matrix: POTABLE Sample Monitoring Point:

Sample Tap: SINK RM 129 DF

Sample Type:

Sample Address: 1850 SUTTER PKWY SPP-15

Sample ID:

Lab Method Analyst Date Number Number Number Analyzed Test Requested Test Result

LEAD 44297 3113B 4792 06/21/16

<5.0 uq/1

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: Date: 06/23/16

LAWHON & ASSOCIATES, INC. CHUCK WILSON

1441 KING AVENUE

COLUMBUS OH 43212

Client No: 0000005911 AR Sheet No: 04153887mm MASI Dublin Laboratory: 877

PWS ID No:

STU ID No: PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC. Private

Sampler Name: SHAWEN JENKINS County: FRANKLIN

Sample Date: 06/16/16 Chlorinated: Sample Time: 08:30 Repeat No: Sample Matrix: POTABLE C12 Total: Sample Monitoring Point: C12 Free: Sample Tap: LOW DF NEAR RM 117 Sample Type: C12 Combined:

Sample Address: 1850 SUTTER PKWY SPP-17

Sample ID:

Lab Metho**d** Analyst Date Number Number Number Analyze**d** Test Requested Test Result

LEAD 44295 3113B 4792 06/21/16

<5.0 u**g**/1

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: 1 Date: 06/23/16

LAWHON & ASSOCIATES, INC. CHUCK WILSON

1441 KING AVENUE

COLUMBUS OH 43212

Client No: 0000005911 AR Sheet No: 0415390-AR MASI Dublin Laboratory: 877

County: FRANKLIN

Chlorinated:

C12 Combined:

Repeat No:

C12 Total:

C12 Free:

MASI Cincinnati Laboratory: 4100

PWS ID No:

Private

STU ID No: PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.

Sampler Name: SHAWEN JENKINS

Sample Date: 06/16/16 Sample Time: 08:34 Sample Matrix: POTABLE Sample Monitoring Point:

Sample Tap: RM 115 SINK DF

Sample Type:

Sample Address: 1850 SEFTER PKWY SPP-19

Sample ID:

____ Lab Method Analyst Date Number Number Number Analyzed Test Requested

Test Result

LEAD 44292 3113B 4792 06/21/16

<5.0 uq/1

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: Date: 06/23/16

LAWHON & ASSOCIATES, INC. CHUCK WILSON 1441 KING AVENUE

COLUMBUS OH 43212

Client No: 0000005911 AR Sheet No: 0415392-Ak MASI Dublin Laboratory: 877

County: FRANKLIN

Chlorinated:

C12 Combined:

Repeat No:

C12 Total: C12 Free:

PWS ID No:

Private

STU ID No: PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.

Sampler Name: SHAWEN JENKINS

Sample Date: 06/16/16 Sample Time: 08:38 Sample Matrix: POTABLE Sample Monitoring Point: Sample Tap: DF NEAR 105 Sample Type:

Sample Address: 1850 SUTTER PKWY SPP-21

Sample ID:

Lab Metho**d** Analyst Date Number Number Number Analyze**d** Test Requested Test Result

LEAD 44537 3113B 4792 06/21/16

<5.0 u¶/1

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: Date: 07/22/16

> > 0000005911

LAWHON & ASSOCIATES, INC. CHUCK WILSON 1441 KING AVENUE

MASI Dublin Laboratory: 877

Client No:

Private

COLUMBUS OH 43212

MASI Cincinnati Laboratory: 4100 PWS ID No:

AR Sheet No: 0415373-AR

STU ID No: PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC.

Sampler Name: SHAWEN JENKINS County: NO COUNTY

Sample Date: 06/06/16 Chlorinated: Sample Time: 08:06 Repeat No: Sample Matrix: POTABLE C12 Total: C12 Free: Sample Monitoring Point: SPP 2 Sample Tap: WATER MAIN Sample Type: C12 Combined:

Sample Address: 1850 SUTTER PKWY

Sample ID:

Lab Metho**d** Analyst Date Number Number Number Analyze**d** Test Requested Test Result LEAD 60785 3113B 3710 07/20/16

10.6 ug/l

MASI ENVIRONMENTAL SERVICES

P. O. Box 1440 Dublin, Ohio 43017 (614) 873-4654

> Page: Date: 07/22/16

LAWHON & ASSOCIATES, INC. CHUCK WILSON 1441 KING AVENUE

COLUMBUS OH 43212

Client No: 0000005911 AR Sheet No: 04153// m.
MASI Dublin Laboratory: 877

PWS ID No:

STU ID No: PO No:

Dear Client:

Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements.

Account Name: LAWHON & ASSOCIATES, INC. Private

Sampler Name: SHAWEN JENKINS County: NO COUNTY

Sample Date: 06/16/16 Chlorinated: Sample Time: 08:10 Repeat No: Sample Matrix: POTABLE C12 Total: C12 Free: Sample Monitoring Point: SPP 6 Sample Tap: NE KITCHEN SINK Sample Type: C12 Combined:

Sample Address: 1850 SUTTER PKWY

Sample ID:

Lab Metho**d** Analyst Date Number Number Number Analyze**d** Test Requested Test Result

LEAD 60784 3113B 3710 07/20/16

7.9 u**q**/1