November 7, 2016

Mr. Mike Vogel
Interim Director of Facilities and Construction Management
South Washington County Schools
7362 East Douglas Point Road S
Cottage Grove, MN 55016
P 651-425-6274
E mvogel@sowashco.org



Providing Trusted
Health & Safety Solutions

RE: Valley Crossing

Lead-in-Water Testing IEA Project #201610819

Dear Mr. Vogel,

At the request of South Washington County Schools, IEA collected a total of 96 samples of drinking water, 84 samples on September 20, 2016, 9 samples on September 28, 2016, and 3 samples on October 26, 2016, for lead analyses from the Valley Crossing building.

The purpose of the site sampling was to document lead levels in the sampled locations and compare them to the EPA action level of 20 parts per billion (ppb).

INTRODUCTION

The Environmental Protection Agency (EPA) established the Lead Contamination Control Act (LCCA) of 1988 to identify and reduce lead in drinking water. Both the EPA and the Minnesota Department of Health (MDH) recommend testing of potable water sources (water used for consumption) every five years for the presence of lead. Lead is a metal that usually enters drinking water through the distribution system, including pipes, solders, faucets, and valves. Lead levels in water may increase when the water is allowed to sit undisturbed in the system, such as in science, biology, or art areas. Exposure to lead is a significant health concern, especially to infants and young children whose growing bodies absorb lead more readily than adult bodies do. Lead exposure can cause delays in physical and/or mental development in children and damage to the brain, kidneys, nervous system, and red blood cells. The EPA and MDH recommend that action be taken at a specific fixture when the lead concentration exceeds the EPA's action level for schools of 20 parts per billion (ppb).

METHODOLOGY

IEA collected 96 first-draw (unless otherwise noted) samples of approximately 500 milliliters (ml). "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. Current protocol calls for flushing locations 8-18 hours prior to sampling.

Site map with sample locations are included in Appendix A. 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 (<0.05 ppb) to 55.6 ppb. There are three (3) sample results greater than 20 ppb. See *Table 1: Water Testing Results Exceeding 20 ppb*. The laboratory report is provided in Appendix B. Laboratory results are reported in micrograms per liter (μ g/L) which is equivalent to parts per billion (ppb).

Table 1: Water Testing Results Exceeding 20 ppb – September 20, 2016 & October 26, 2016

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A49434	Valley Crossing	Kitchen Sink #2	Faucet	44.5
16-A49434	Valley Crossing	Sink Room D138	Faucet	38.4
16-A58107	Valley Crossing	Kitchen Sprayer on Steam Cabinet next to Kitchen Sprayer on the wall	Sprayer	55.6

ppb - parts per billion

In addition, six (6) results showed lead levels between 15 ppb and 20 ppb. See *Table 2: Water Testing Results Approaching 20 ppb* for these results. Although the EPA recommends that school drinking water not exceed 20 ppb, the MDH recommends schools seek to reduce the amount of lead in drinking water to as close to zero as possible.

Table 2: Water Testing Results Approaching 20 ppb – September 20, 2016 & October 26, 2016

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A49434	Valley Crossing	Kitchen Sink #1	Faucet	17.8
16-A49434	Valley Crossing	Sink Room D101	Faucet	18.4
16-A49434	Valley Crossing	Sink Room D116	Faucet	17.9
16-A49434	Valley Crossing	Sink Room D131	Faucet	17.2
16-A49434	Valley Crossing	Sink Room C122	Faucet	17.4
16-A58106	Valley Crossing	Kitchen Sprayer on Wall next to Steam Kettle #1	Sprayer	17.2

ppb - parts per billion

RECOMMENDATIONS

IEA recommends implementing one of the following treatment options for the fixtures with lead level exceeding the EPA action level of 20 ppb. These recommendations should also be considered for the fixtures with lead level approaching 20 ppb.

- Install a point-of-use treatment device, such as the Omnipure OMB934 1M Lead Reduction Filter.
- Conduct flush testing in accordance with EPA or MDH guidelines to determine if flushing will reduce lead levels. If results indicate that flushing will reduce lead to acceptable levels, implement a flushing program which includes documentation of daily flushing and periodic program review.
- Replace fixture with "lead free" fixture certified to NSF/ANSI 372 or NSF/ANSI 61-G. The *Reduction of Lead in Drinking Water Act* redefines "lead free" as "not more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures." Effective January 4, 2014, drinking water system components sold or installed must adhere to this new requirement.
- Remove fixture from service by disconnecting it from the water supply.
- Post signs that the water is not potable and to notify staff of this.

In addition, IEA recommends that a copy of the district's Lead- in-Drinking Water Testing Report be made available to staff and the public through the district's administrative offices.

GENERAL CONDITIONS

The analysis and opinions expressed in this report are based upon water testing at South Washington County Schools. This report does not reflect variations in conditions that may occur. 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 #5406A dated August 5, 2016 regarding Lead-in-Water Testing, 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.

Amy Satterfield, CPPM I

Director of Business Development

Karen Weiblen Karen Weiblen

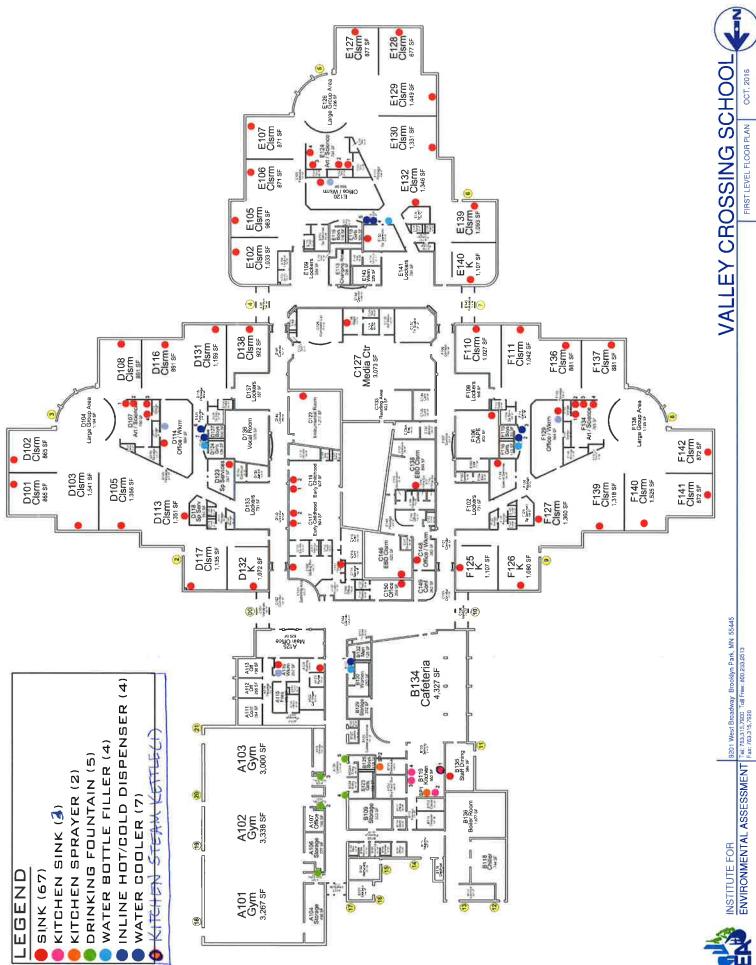
EHS/IEQ Consultant

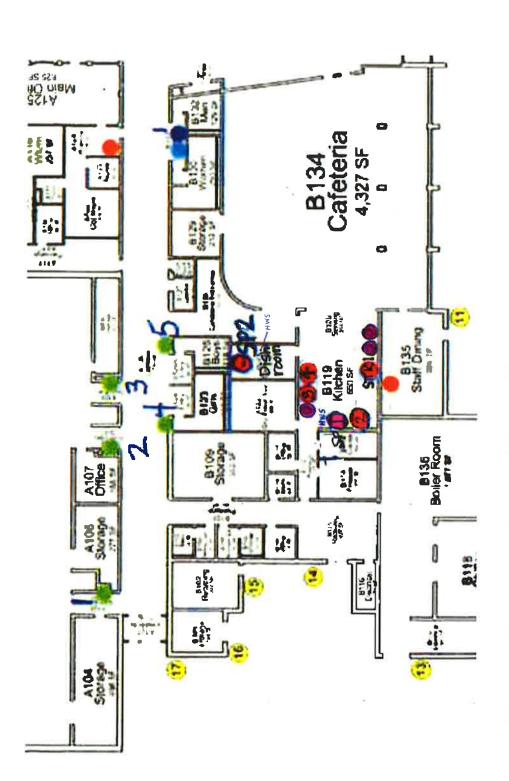
Enclosure

cc: Damien Nelson, Safety & Security

Appendix A

Site Map/Drawing

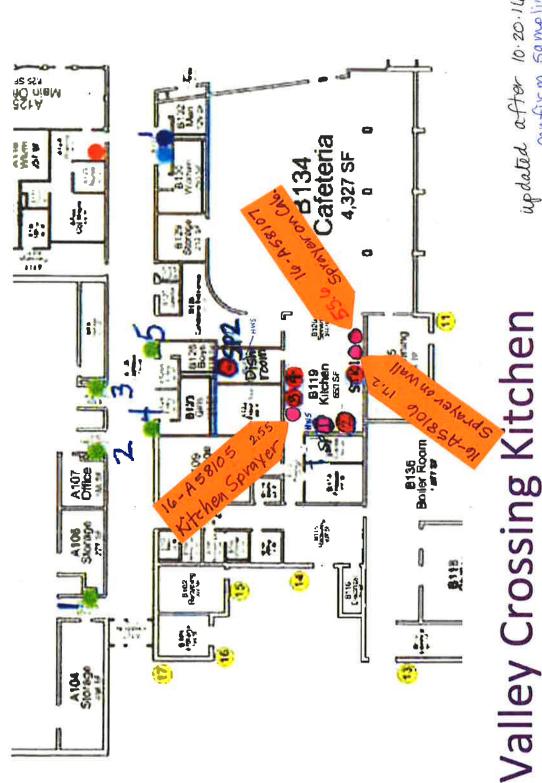




Valley Crossing Kitchen

inpdated after 10.20.16 visit to

3 identified as not sampled.



inpdated after 10:20.16 Visit to confirm sampling locations those 3 identified were sampled on october 26, 2016.

Appendix B

Laboratory Testing Report



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 MEMBER 1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885 www.mvtl.com

Report Date: 11 Oct 2016

Work Order #: 12-14484

Account #: 002190

Purchase Order #: 201610819

Date Received: 20 Sep 2016 Date Sampled: 20 Sep 2016 Temperature at Receipt: 20.1C

HEIDI SOLBERG IEA/BROOKLYN PARK 9201 W BDWY STE #600 BROOKLYN PARK MN 55445

PROJECT NAME: VALLEY CROSSING PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A49433	09202016VC-1 KITCHEN STEAM KETTLE #1	17.8 ug/L	15.0	28 Sep 16	RMV
16-A49434	09202016VC-2 KITCHEN SINK #2	44.5 ug/L	15.0	28 Sep 16	RMV
16-A49435	09202016VC-3 KITCHEN SINK #3	5.80 ug/L	15.0	28 Sep 16	RMV
16-A49436	09202016VC-4 KITCHEN SINK #4	10.1 ug/L	15.0	28 Sep 16	RMV
16-A49437	09202016VC-5 KITCHEN SPRAYER	12.5 ug/L	15.0	28 Sep 16	RMV
16-A49438	09202016VC-6 SPRAYER B121	0.89 ug/L	15.0	28 Sep 16	RMV
16-A49439	09202016VC-7 SINK B135	2.84 ug/L	15.0	28 Sep 16	RMV
16-A49440	09202016VC-8 DF #1	< 0.5 ug/L	15.0	28 Sep 16	RMV
16-A49441	09202016VC-9 DF #2	< 0.5 ug/L	15.0	30 Sep 16	RMV
16-A49442	09202016VC-10 DF #3	< 0.5 ug/L	15.0	30 Sep 16	RMV
16-A49443	09202016VC-11 DF #4	< 0.5 ug/L	15.0	30 Sep 16	RMV
16-A49444	09202016VC-12 DF #5	< 0.5 ug/L	15.0	30 Sep 16	RMV
16-A49445	09202016VC-20 SINK A116	3.21 ug/L	15.0	30 Sep 16	RMV

Dan O'Connell, Asst. Chemistry Laboratory Manager 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 concentration of other analytes + = Due to internal standard response

@ = Due to sample matrix ! = Due to sample quantity

WI LAB # 999447680 ND MICRO # 1013-M CERTIFICATION: MN LAB # 027-015-125 ND WW/DW # R-040



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PROJECT NAME: VALLEY CROSSING PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A49446	09202016VC-21 INLINE COOLER Al16	< 0.5 ug/L	15.0	30 Sep 16	RMV
16-A49447	09202016VC-22 SINK A124	3.07 ug/L	15.0	30 Sep 16	RMV
16-A49448	09202016VC-23 BOTTLE FILLER NEAR WC #1	< 0.5 ug/L	15.0	30 Sep 16	RMV
16-A49449	09202016VC-24 SINK D132	8.92 ug/L	15.0	30 Sep 16	RMV
16-A49450	09202016VC-25 SINK D117	3.60 ug/L	15.0	30 Sep 16	RMV
16-A49451	09202016VC-26 SINK D113	9.27 ug/L	15.0	30 Sep 16	RMV
16-A49452	09202016VC-27 SINK D105	2.69 ug/L	15.0	30 Sep 16	RMV
16-A49453	09202016VC-28 SINK D103	11.6 ug/L	15.0	30 Sep 16	RMV
16-A49454	09202016VC-29 SINK D101	18.4 ug/L	15.0	30 Sep 16	RMV
16-A49455	09202016VC-30 SINK D102	10.6 ug/L	15.0	30 Sep 16	RMV
16-A49456	09202016VC-31 SINK D108	13.3 ug/L	15.0	30 Sep 16	RMV
16-A49457	09202016VC-32 SINK D116	17.9 ug/L	15.0	30 Sep 16	RMV
16-A49458	09202016VC-33 SINK D131	17.2 ug/L	15.0	30 Sep 16	RMV

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PROJECT NAME: VALLEY CROSSING PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
n :					
16-A49459	09202016VC-34 SINK D138	38.4 ug/L	15.0	7 Oct 16	RMB
16-A49460	09202016VC-35 SINK #1 D107	6.94 ug/L	15.0	30 Sep 16	RMV
16-A49461	09202016VC-36 SINK #2 D107	2.07 ug/L	15.0	30 Sep 16	RMV
16-A49462	09202016VC-37 SINK #3 D107	2.63 ug/L	15.0	30 Sep 16	RMV
16-A49463	09202016VC-38 SINK #4 D107	1.57 ug/L	15.0	30 Sep 16	RMV
16-A49464	09202016VC-39 SINK D114	0.59 ug/L	15.0	30 Sep 16	RMV
16-A49465	09202016VC-40 INLINE COOLER D114	< 0.5 ug/L	15.0	30 Sep 16	RMV
16-A49466	09202016VC-41 SINK D123	11.1 ug/L	15.0	30 Sep 16	RMV
16-A49467	09202016VC-44 SINK E105	4.43 ug/L	15.0	30 Sep 16	RMV
16-A49468	09202016VC-45 SINK E106	1.33 ug/L	15.0	30 Sep 16	RMV
16-A49469	09202016VC-46 SINK E107	2.14 ug/L	15.0	30 Sep 16	RMV
16-A49470	09202016VC-47 SINK E127	1.46 ug/L	15.0	30 Sep 16	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A49471	09202016VC-48 SINK E128	1.25 ug/L	15.0	30 Sep 16	RMV
16-A49472	09202016VC-49 SINK E129	1.04 ug/L	15.0	30 Sep 16	RMV
16-A49473	09202016VC-50 SINK E130	3.44 ug/L	15.0	30 Sep 16	RMV
16-A49474	09202016VC-51 SINK E132	2.81 ug/L	15.0	30 Sep 16	RMV
16-A49475	09202016VC-52 SINK E139	2.67 ug/L	15.0	30 Sep 16	RMV
16-A49476	09202016VC-53 SINK E140	0.91 ug/L	15.0	30 Sep 16	RMV
16-A49477	09202016VC-54 SINK E133	7.05 ug/L	15.0	30 Sep 16	RMV
16-A49478	09202016VC-55 BOTTLE FILLER NEAR WC #4	< 0.5 ug/L	15.0	30 Sep 16	RMV
16-A49479	09202016VC-56 INLINE COOLER E120	< 0.5 ug/L	15.0	30 Sep 16	RMV
16-A49480	09202016VC-57 SINK E120	1.10 ug/L	15.0	30 Sep 16	RMV
16-A49481	09202016VC-58 SINK #1 E124	6.11 ug/L	15.0	30 Sep 16	RMV
16-A49482	09202016VC-59 SINK #2 E124	6.40 ug/L	15.0	30 Sep 16	RMV
16-A49483	09202016VC-60 SINK #3 E124	3.25 ug/L	15.0	30 Sep 16	RMV

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PROJECT NAME: VALLEY CROSSING PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A49484	09202016VC-61 SINK #4 E124	12.2 ug/L	15.0	30 Sep 16	RMV
16-A49485	09202016VC-62 SINK F110	9.01 ug/L	15.0	30 Sep 16	RMV
16-A49486	09202016VC-63 SINK F111	6.02 ug/L	15.0	30 Sep 16	RMV
16-A49487	09202016VC-64 SINK F136	1.17 ug/L	15.0	30 Sep 16	RMV
16-A49488	09202016VC-65 SINK F137	11.7 ug/L	15.0	30 Sep 16	RMV
16-A49489	09202016VC-66 SINK F139	7.25 ug/L	15.0	30 Sep 16	RMV
16-A49490	09202016VC-67 SINK F140	9.12 ug/L	15.0	30 Sep 16	RMV
16-A49491	09202016VC-68 SINK F141	8.66 ug/L	15.0	30 Sep 16	RMV
16-A49492	09202016VC-69 SINK F142	12.4 ug/L	15.0	30 Sep 16	RMV
16-A49493	09202016VC-70 SINK F127	3.05 ug/L	15.0	30 Sep 16	RMV
16-A49494	09202016VC-71 SINK #1 F134	4.43 ug/L	15.0	30 Sep 16	RMV
16-A49495	09202016VC-72 SINK #2 F134	2.96 ug/L	15.0	30 Sep 16	RMV

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PROJECT NAME: VALLEY CROSSING PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A49496	09202016VC-73 SINK #3 F134	8.65 ug/L	15.0	30 Sep 16	RMV
16-A49497	09202016VC-74 SINK #4 F134	1.07 ug/L	15.0	30 Sep 16	RMV
16-A49498	09202016VC-75 BOTTLE FILLER NEAR WC #2	< 0.5 ug/L	15.0	30 Sep 16	RMV
16-A49499	09202016VC-76 SINK F129	1.87 ug/L	15.0	30 Sep 16	RMV
16-A49500	09202016VC-77 INLINE COOLER F129	< 0.5 ug/L	15.0	30 Sep 16	RMV
16-A49501	09202016VC-78 SINK F106	3.05 ug/L	15.0	30 Sep 16	RMV
16-A49502	09202016VC-79 SINK F119	11.0 ug/L	15.0	30 Sep 16	RMV
16-A49503	09202016VC-80 SINK F126	4.34 ug/L	15.0	30 Sep 16	RMV
16-A49504	09202016VC-81 SINK F125	4.06 ug/L	15.0	30 Sep 16	RMV
16-A49505	09202016VC-82 SINK C150	0.71 ug/L	15.0	30 Sep 16	RMV
16-A49506	09202016VC-83 SINK C146	6.16 ug/L	15.0	30 Sep 16	RMV
16-A49507	09202016VC-84 SINK C148	2.46 ug/L	15.0	30 Sep 16	RMV
16-A49508	09202016VC-85 SINK C138	2.23 ug/L	15.0	30 Sep 16	RMV

Approved by:

Dan O'Connell, Asst. Chemistry Laboratory Manager New Ulm, MN 6

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PROJECT NAME: VALLEY CROSSING PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION		LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
9						-
16-A49509	09202016VC-86 SINK	C126	7.06 ug/L	15.0	30 Sep 16	RMV
16-A49510	09202016VC-87 SINK	C122	17.4 ug/L	15.0	30 Sep 16	RMV
16-A49511	09202016VC-88 SINK	#1 C117	8.80 ug/L	15.0	30 Sep 16	RMV
16-A49512	09202016VC-89 SINK	#2 C117	6.75 ug/L	15.0	30 Sep 16	RMV
16-A49513	09202016VC-90 SINK	#1 C118	13.3 ug/L	15.0	30 Sep 16	RMV
16-A49514	09202016VC-91 SINK	#2 C118	10.1 ug/L	15.0	30 Sep 16	RMV
16-A49515	09202016VC-92 SINK	C109	7.24 ug/L	15.0	30 Sep 16	RMV
16-A49516	09202016VC-93 SINK	NEAR C114	3.39 ug/L	15.0	30 Sep 16	RMV

Dan O'Connell, Asst. Chemistry Laboratory Manager 7 Page:

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ND MICRO # 1013-M CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND WW/DW # R-040



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ACIL

Report Date: 1 Nov 2016

Work Order #: 12-14887

Account #: 002190

Purchase Order #: 201610819

Date Received: 28 Sep 2016 Date Sampled: 28 Sep 2016 Temperature at Receipt: 18.6C

HEIDI SOLBERG
IEA/BROOKLYN PARK
9201 W BDWY STE #600
BROOKLYN PARK MN 55445

PROJECT NAME: VALLEY CROSSING PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A52226	09282016VC-1 WATER COOLER #1	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52227	09282016VC-2 WATER COOLER #2	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52228	09282016VC-3 WATER COOLER #3	0.86 ug/L	15.0	28 Oct 16	RMV
16-A52229	09282016VC-4 WATER COOLER #4	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52230	09282016VC-5 WATER COOLER #5	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52231	09282016VC-6 WATER COOLER #6	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52232	09282016VC-7 WATER COOLER #7	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52233	09282016VC-8 BOTTLE FILLER NEAR WC #7	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52234	09282016VC-9 SINK E102	5.72 ug/L	15.0	28 Oct 16	RMV

proved by: Response Occupy

Dan O'Connell, Asst. Chemistry Laboratory Manager 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

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040



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 MEMBER 1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885 ACIL www.mvtl.com

Report Date: 7 Nov 2016

Work Order #: 12-16366

Account #: 002190

Purchase Order #: 201610819

Date Received: 26 Oct 2016 Date Sampled: 26 Oct 2016 Temperature at Receipt: 19.5C

HEIDI SOLBERG IEA/BROOKLYN PARK 9201 W BDWY STE #600 BROOKLYN PARK MN 55445

PROJECT NAME: VALLEY CROSSING PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A58105	10262016VC-1 KITCHEN SPRAYER NEXT TO SINK #3	2.55 ug/L	15.0	3 Nov 16	RMB
16-A58106	10262016VC-2 KITCHEN SPRAYER ON WALL NEXT TO STEAM KETTLE #1	17.2 ug/L	15.0	28 Oct 16	RMB
16-A58107	10262016VC-3 KITCHEN SPRAYER ON STEAM CABINET NEXT TO KITCHEN SPRAYER	55.6 ug/L	15.0	28 Oct 16	RMB

Approved by: Dan O'Connell, Asst. Chemistry Laboratory Manager 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 internal standard response

! = Due to sample quantity CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040