

October 28, 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



**RE: Grey Cloud Elementary
Lead-in-Water Testing
IEA Project #201610819**

Dear Mr. Vogel,

At the request of South Washington County Schools, IEA collected a total of 100 samples of drinking water on September 23, 2016, for lead analyses from the Grey Cloud Elementary 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 100 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 (MVTTL) 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.

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MANKATO
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210 Woodlake Drive SE
Rochester, MN 55904
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13432 Elmwood Drive, Ste. #5
Baxter, MN 56425
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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
FAX 763-315-7920
800-233-9513

RESULTS & DISCUSSION

The lead-in-water sampling results ranged from below the level of detection (<0.05 ppb) to 88.3 ppb. There are eighteen (18) 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 (µg/L) which is equivalent to parts per billion (ppb).

Table 1: Water Testing Results Exceeding 20 ppb – September 23, 2016

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A51314	Grey Cloud Elementary	Kitchen Sprayer #2	Sprayer	33.3
16-A51351	Grey Cloud Elementary	Sink Room 128	Faucet	29.0
16-A51357	Grey Cloud Elementary	Sink Room 134	Faucet	32.2
16-A51358	Grey Cloud Elementary	Sink Room 135	Faucet	31.0
16-A51361	Grey Cloud Elementary	Sink Room 138	Faucet	27.0
16-A51362	Grey Cloud Elementary	Sink Media Center Workroom	Faucet	50.1
16-A51390	Grey Cloud Elementary	Sink Room 115	Faucet	49.5
16-A51391	Grey Cloud Elementary	Sink Room 116	Faucet	20.8
16-A51393	Grey Cloud Elementary	Sink Room 118	Faucet	21.9
16-A51395	Grey Cloud Elementary	Sink Room 121	Faucet	23.0
16-A51399	Grey Cloud Elementary	Sink POD #1	Faucet	44.4
16-A51400	Grey Cloud Elementary	Sink POD #2	Faucet	39.5
16-A51401	Grey Cloud Elementary	Sink POD #3	Faucet	80.2
16-A51402	Grey Cloud Elementary	Sink POD #4	Faucet	88.3
16-A51403	Grey Cloud Elementary	Sink POD #5	Faucet	21.7
16-A51404	Grey Cloud Elementary	Sink POD #6	Faucet	25.6
16-A51405	Grey Cloud Elementary	Sink POD #7	Faucet	30.0
16-A51406	Grey Cloud Elementary	Sink POD #8	Faucet	33.0

ppb – parts per billion

In addition, eight (8) 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 23, 2016

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A51341	Grey Cloud Elementary	Drinking Fountain Room 130	Drinking Fountain	15.0
16-A51349	Grey Cloud Elementary	Drinking Fountain Room 138	Drinking Fountain	15.3
16-A51350	Grey Cloud Elementary	Sink Room 127	Faucet	16.1
16-A51354	Grey Cloud Elementary	Sink Room 131	Faucet	17.3
16-A51356	Grey Cloud Elementary	Sink Room 133	Faucet	16.1
16-A51360	Grey Cloud Elementary	Sink Room 137	Faucet	15.9
16-A51371	Grey Cloud Elementary	Drinking Fountain Room 102	Drinking Fountain	19.8
16-A51379	Grey Cloud Elementary	Sink Room 116	Faucet	15.4

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
EHS/IEQ Consultant

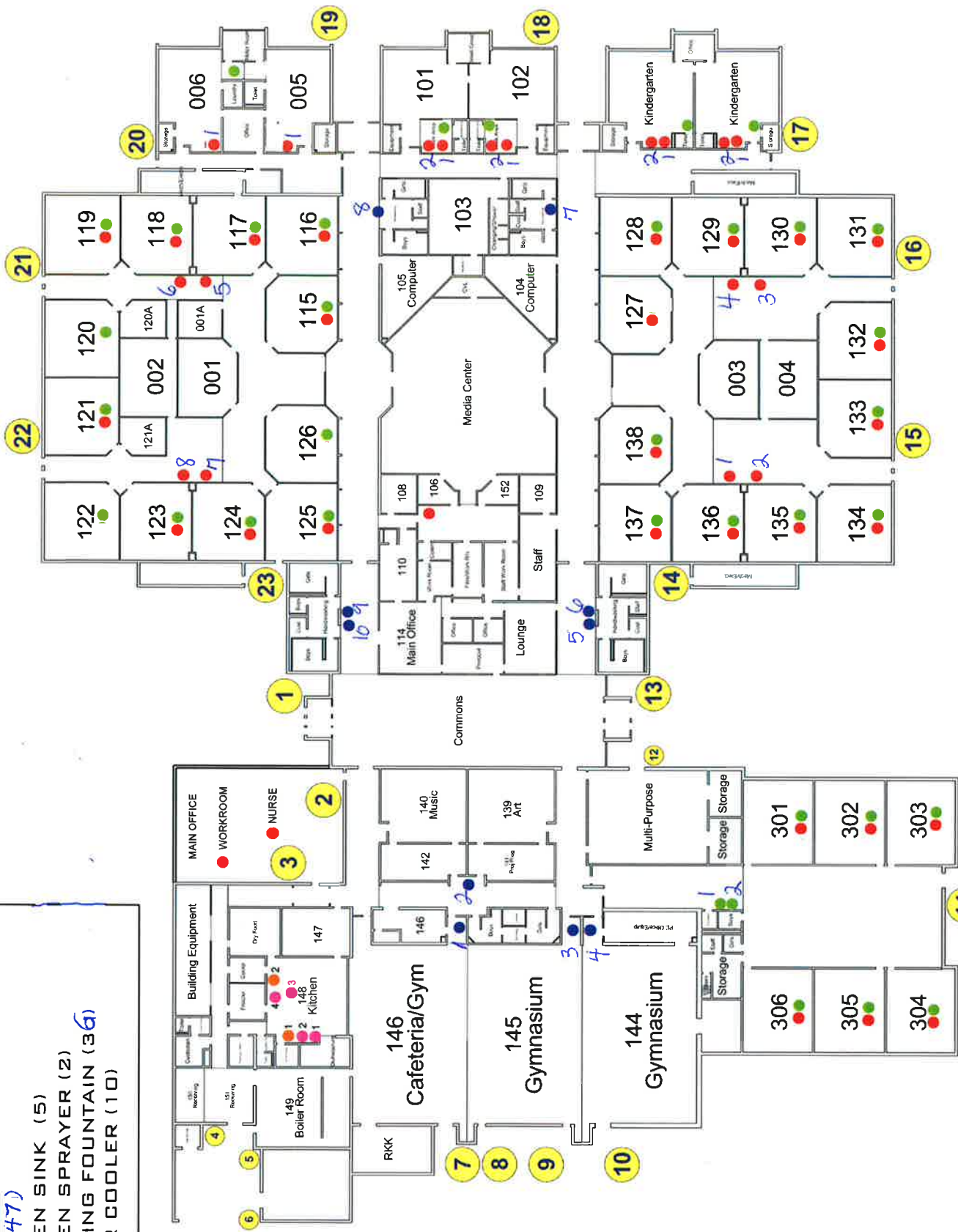
Enclosure

cc: Damien Nelson, Safety & Security

Appendix A
Site Map/Drawing

LEGEND

- SINK (47)
- KITCHEN SINK (5)
- KITCHEN SPRAYER (2)
- DRINKING FOUNTAIN (36)
- WATER COOLER (10)



Appendix B

Laboratory Testing Report



MINNESOTA VALLEY TESTING LABORATORIES, INC.

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Report Date: 28 Oct 2016

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

Work Order #: 12-14696
 Account #: 002190
 Purchase Order #: 201610819

Date Received: 23 Sep 2016
 Date Sampled: 23 Sep 2016
 Temperature at Receipt: 20.1C

PROJECT NAME: GREY CLOUD ELEM.
 PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A51309	09232016GCE-1 KITCHEN SINK #1	4.34 ug/L	15.0	24 Oct 16	RMB
16-A51310	09232016GCE-2 KITCHEN SINK #2	2.99 ug/L	15.0	24 Oct 16	RMB
16-A51311	09232016GCE-3 KITCHEN SINK #3	5.87 ug/L	15.0	24 Oct 16	RMB
16-A51312	09232016GCE-4 KITCHEN SINK #4	7.82 ug/L	15.0	24 Oct 16	RMB
16-A51313	09232016GCE-5 KITCHEN SPRAYER #1	5.15 ug/L	15.0	24 Oct 16	RMB
16-A51314	09232016GCE-6 KITCHEN SPRAYER #2	33.3 ug/L	15.0	24 Oct 16	RMB
16-A51315	09232016GCE-7 WATER COOLER #1	< 0.5 ug/L	15.0	24 Oct 16	RMB
16-A51316	09232016GCE-8 WATER COOLER #2	0.73 ug/L	15.0	24 Oct 16	RMB
16-A51317	09232016GCE-9 WATER COOLER #3	2.20 ug/L	15.0	24 Oct 16	RMB
16-A51318	09232016GCE-10 WATER COOLER #4	0.96 ug/L	15.0	24 Oct 16	RMB
16-A51319	09232016GCE-11 WATER COOLER #5	< 0.5 ug/L	15.0	24 Oct 16	RMB
16-A51320	09232016GCE-12 WATER COOLER #6	< 0.5 ug/L	15.0	24 Oct 16	RMB
16-A51321	09232016GCE-13 WATER COOLER #7	0.52 ug/L	15.0	24 Oct 16	RMB
16-A51322	09232016GCE-14 WATER COOLER #8	< 0.5 ug/L	15.0	24 Oct 16	RMB
16-A51323	09232016GCE-15 WATER COOLER #9	< 0.5 ug/L	15.0	24 Oct 16	RMB

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 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040

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16-A51324	09232016GCE-16 WATER COOLER #10	< 0.5 ug/L	15.0	24 Oct 16	RMB
16-A51325	09232016GCE-17 DF #1	0.99 ug/L	15.0	24 Oct 16	RMB
16-A51326	09232016GCE-18 DF #2	0.76 ug/L	15.0	24 Oct 16	RMB
16-A51327	09232016GCE-19 DF RM 301	6.22 ug/L	15.0	24 Oct 16	RMB
16-A51328	09232016GCE-20 DF RM 302	2.65 ug/L	15.0	24 Oct 16	RMB
16-A51329	09232016GCE-21 DF RM 303	3.32 ug/L	15.0	24 Oct 16	RMB
16-A51330	09232016GCE-22 DF RM 304	4.26 ug/L	15.0	24 Oct 16	RMB
16-A51331	09232016GCE-23 DF RM 305	5.24 ug/L	15.0	24 Oct 16	RMB
16-A51332	09232016GCE-24 DF RM 306	4.70 ug/L	15.0	24 Oct 16	RMB
16-A51333	09232016GCE-25 SINK RM 301	4.33 ug/L	15.0	24 Oct 16	RMB
16-A51334	09232016GCE-26 SINK RM 302	3.21 ug/L	15.0	24 Oct 16	RMB
16-A51335	09232016GCE-27 SINK RM 303	6.83 ug/L	15.0	24 Oct 16	RMB
16-A51336	09232016GCE-28 SINK RM 304	1.46 ug/L	15.0	24 Oct 16	RMB
16-A51337	09232016GCE-29 SINK RM 305	5.16 ug/L	15.0	24 Oct 16	RMB

Page: 2

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A51338	09232016GCE-30 SINK RM 306	7.57 ug/L	15.0	24 Oct 16	RMB
16-A51339	09232016GCE-32 DF RM 128	3.16 ug/L	15.0	24 Oct 16	RMB
16-A51340	09232016GCE-33 DF RM 129	1.51 ug/L	15.0	24 Oct 16	RMB
16-A51341	09232016GCE-34 DF RM 130	15.0 ug/L	15.0	24 Oct 16	RMB
16-A51342	09232016GCE-35 DF RM 131	1.42 ug/L	15.0	24 Oct 16	RMB
16-A51343	09232016GCE-36 DF RM 132	0.64 ug/L	15.0	24 Oct 16	RMB
16-A51344	09232016GCE-37 DF RM 133	1.70 ug/L	15.0	24 Oct 16	RMB
16-A51345	09232016GCE-38 DF RM 134	1.48 ug/L	15.0	24 Oct 16	RMB
16-A51346	09232016GCE-39 DF RM 135	0.61 ug/L	15.0	24 Oct 16	RMB
16-A51347	09232016GCE-40 DF RM 136	7.00 ug/L	15.0	24 Oct 16	RMB
16-A51348	09232016GCE-41 DF RM 137	3.79 ug/L	15.0	24 Oct 16	RMB
16-A51349	09232016GCE-42 DF RM 138	15.3 ug/L	15.0	24 Oct 16	RMB
16-A51350	09232016GCE-43 SINK RM 127	16.1 ug/L	15.0	24 Oct 16	RMB
16-A51351	09232016GCE-44 SINK RM 128	29.0 ug/L	15.0	24 Oct 16	RMB

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16-A51352	09232016GCE-45 SINK RM 129	11.9 ug/L	15.0	24 Oct 16	RMB
16-A51353	09232016GCE-46 SINK RM 130	1.58 ug/L	15.0	24 Oct 16	RMB
16-A51354	09232016GCE-47 SINK RM 131	17.3 ug/L	15.0	24 Oct 16	RMB
16-A51355	09232016GCE-48 SINK RM 132	14.0 ug/L	15.0	24 Oct 16	RMB
16-A51356	09232016GCE-49 SINK RM 133	16.1 ug/L	15.0	24 Oct 16	RMB
16-A51357	09232016GCE-50 SINK RM 134	32.2 ug/L	15.0	24 Oct 16	RMB
16-A51358	09232016GCE-51 SINK RM 135	31.0 ug/L	15.0	24 Oct 16	RMB
16-A51359	09232016GCE-52 SINK RM 136	2.18 ug/L	15.0	24 Oct 16	RMB
16-A51360	09232016GCE-53 SINK RM 137	15.9 ug/L	15.0	24 Oct 16	RMB
16-A51361	09232016GCE-54 SINK RM 138	27.0 ug/L	15.0	24 Oct 16	RMB
16-A51362	09232016GCE-55 SINK MEDIA CENTER WORK ROOM	50.1 ug/L	15.0	24 Oct 16	RMB
16-A51363	09232016GCE-56 SINK #1 S KINDER	6.30 ug/L	15.0	24 Oct 16	RMB
16-A51364	09232016GCE-57 SINK #2 S KINDER	6.15 ug/L	15.0	24 Oct 16	RMB

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16-A51365	09232016GCE-58 DF S KINDER	4.02 ug/L	15.0	24 Oct 16	RMB
16-A51366	09232016GCE-59 SINK #1 N KINDER	5.71 ug/L	15.0	24 Oct 16	RMB
16-A51367	09232016GCE-60 SINK #2 N KINDER	7.25 ug/L	15.0	24 Oct 16	RMB
16-A51368	09232016GCE-61 DF N KINDER	4.45 ug/L	15.0	24 Oct 16	RMB
16-A51369	09232016GCE-62 SINK #1 102	14.1 ug/L	15.0	24 Oct 16	RMB
16-A51370	09232016GCE-63 SINK #2 102	5.09 ug/L	15.0	24 Oct 16	RMB
16-A51371	09232016GCE-64 DF 102	19.8 ug/L	15.0	24 Oct 16	RMB
16-A51372	09232016GCE-65 SINK #1 101	8.41 ug/L	15.0	24 Oct 16	RMB
16-A51373	09232016GCE-66 SINK #2 101	1.11 ug/L	15.0	24 Oct 16	RMB
16-A51374	09232016GCE-67 DF 101	11.6 ug/L	15.0	24 Oct 16	RMB
16-A51375	09232016GCE-68 SINK #1 006	3.69 ug/L	15.0	24 Oct 16	RMB
16-A51376	09232016GCE-70 DF E SOUTH KINDERGARTEN	2.26 ug/L	15.0	24 Oct 16	RMB
16-A51377	09232016GCE-71 SINK #1 005	2.41 ug/L	15.0	24 Oct 16	RMB
16-A51378	09232016GCE-74 SINK RM 115	3.64 ug/L	15.0	24 Oct 16	RMB

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16-A51379	09232016GCE-75 SINK RM 116	15.4 ug/L	15.0	24 Oct 16	RMB
16-A51380	09232016GCE-76 SINK RM 117	9.80 ug/L	15.0	24 Oct 16	RMB
16-A51381	09232016GCE-77 DF RM 118	1.53 ug/L	15.0	24 Oct 16	RMB
16-A51382	09232016GCE-78 DF RM 119	1.41 ug/L	15.0	24 Oct 16	RMB
16-A51383	09232016GCE-79 SINK RM 120	8.57 ug/L	15.0	24 Oct 16	RMB
16-A51384	09232016GCE-80 DF RM 121	2.65 ug/L	15.0	24 Oct 16	RMB
16-A51385	09232016GCE-81 SINK RM 122	3.71 ug/L	15.0	24 Oct 16	RMB
16-A51386	09232016GCE-82 DF RM 123	13.2 ug/L	15.0	24 Oct 16	RMB
16-A51387	09232016GCE-83 DF RM 124	1.56 ug/L	15.0	24 Oct 16	RMB
16-A51388	09232016GCE-84 DF RM 125	1.17 ug/L	15.0	24 Oct 16	RMB
16-A51389	09232016GCE-85 SINK RM 126	9.77 ug/L	15.0	24 Oct 16	RMB
16-A51390	09232016GCE-86 SINK RM 115	49.5 ug/L	15.0	24 Oct 16	RMB
16-A51391	09232016GCE-87 SINK RM 116	20.8 ug/L	15.0	24 Oct 16	RMB
16-A51392	09232016GCE-88 SINK RM 117	2.69 ug/L	15.0	24 Oct 16	RMB

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= Due to concentration of other analytes
+ = Due to internal standard response

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M 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.

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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

PRELIMINARY REPORT ONLY

Report Date: 28 Oct 2016

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

Work Order #: 12-14696
Account #: 002190
Purchase Order #: 201610819

Date Received: 23 Sep 2016
Date Sampled: 23 Sep 2016
Temperature at Receipt: 20.1C

PROJECT NAME: GREY CLOUD ELEM.
PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A51393	09232016GCE-89 SINK RM 118	21.9 ug/L	15.0	24 Oct 16	RMB
16-A51394	09232016GCE-90 SINK RM 119	12.5 ug/L	15.0	24 Oct 16	RMB
16-A51395	09232016GCE-92 SINK RM 121	23.0 ug/L	15.0	24 Oct 16	RMB
16-A51396	09232016GCE-94 SINK RM 123	9.99 ug/L	15.0	24 Oct 16	RMB
16-A51397	09232016GCE-95 SINK RM 124	7.10 ug/L	15.0	24 Oct 16	RMB
16-A51398	09232016GCE-96 SINK RM 125	14.9 ug/L	15.0	24 Oct 16	RMB
16-A51399	09232016GCE-98 POD SINK #1	44.4 ug/L	15.0	24 Oct 16	RMB
16-A51400	09232016GCE-99 POD SINK #2	39.5 ug/L	15.0	24 Oct 16	RMB
16-A51401	09232016GCE-100 POD SINK #3	80.2 ug/L	15.0	24 Oct 16	RMB
16-A51402	09232016GCE-101 POD SINK #4	88.3 ug/L	15.0	24 Oct 16	RMB
16-A51403	09232016GCE-102 POD SINK #5	21.7 ug/L	15.0	24 Oct 16	RMB
16-A51404	09232016GCE-103 POD SINK #6	25.6 ug/L	15.0	24 Oct 16	RMB
16-A51405	09232016GCE-104 POD SINK #7	30.0 ug/L	15.0	24 Oct 16	RMB
16-A51406	09232016GCE-105 POD SINK #8	33.0 ug/L	15.0	24 Oct 16	RMB

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**MEMBER
ACIL**

PRELIMINARY REPORT ONLY

Report Date: 28 Oct 2016

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

Work Order #: 12-14696
Account #: 002190
Purchase Order #: 201610819

Date Received: 23 Sep 2016
Date Sampled: 23 Sep 2016
Temperature at Receipt: 20.1C

PROJECT NAME: GREY CLOUD ELEM.
PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A51407	09232016GCE-106 SINK NURSES OFFICE	< 0.5 ug/L	15.0	24 Oct 16	RMB
16-A51408	09232016GCE-107 SINK WORKROOM	< 0.5 ug/L	15.0	24 Oct 16	RMB

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