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ISD# 196 14309 Diamond Path Rosemount, MN 55124 Attn: Mr. Chris Pint

RE: Final Report: Lead in Drinking Water Sampling - Post Mitigation

SITES: Apple Valley High, Rosemount High, School of Environmental Studies, Black Hawk Middle, Dakota Hills Middle, Falcon Ridge Middle, Scott Highlands Middle, Valley Middle and the

**District Service Center** 

PROJECT #: 19179

### I. INTRODUCTION

This report presents the results of testing for lead in drinking water after mitigation methods were completed using first draw sampling following the Minnesota Department of Health (MDH) guide "Reducing Lead in Drinking Water: A Technical Guidance and Model Plan for Minnesota's Public Schools (Revision March 2019)."

Per the Final Report (dated December 20, 2019), Field Environmental Consulting, Inc. (FIELD ENVIRONMENTAL) tested water outlets using *high* and *medium* priority sampling strategies for seventeen (17) sites per District request.

Apple Valley High, Rosemount High, School of Environmental Studies, Black Hawk Middle, Dakota Hills Middle, Falcon Ridge Middle, Scott Highlands Middle, Valley Middle and the District Service Center had drinking or food preparation water outlets with lead concentrations greater than 20 ppb. Priority was given to correct these identified taps/fixtures.

## II. DISCUSSION

Lead is a toxic metal that is harmful to human health when it is ingested or inhaled. Unlike other environmental contaminates, lead is stored in bones and can be released over time into the bloodstream. Lead exposure is a serious health concern, especially for young children and infants. Children's bodies absorb more of the lead they are exposed to than adults. Exposure to high levels of lead in children and infants may result in developmental delays, lower IQ's, hearing loss, hyperactivity, and learning disabilities. Children under the age of six are the most at risk population. Damage from lead exposure in children is permanent. Fortunately, the impacts of lead exposure can be minimized with good nutrition, a stimulating education, and a supportive environment.

High blood lead levels in adults have been linked to increased blood pressure, poor muscle coordination, nerve damage, decreased fertility, and hearing and vision impairment. Pregnant women and their fetuses are especially vulnerable to lead exposure since lead can significantly harm the fetus, causing lower birth weight and slowing normal mental and physical developments.

The only way to determine how much lead may be present in drinking water is to have the water tested. Per Minnesota Statute, Section 121A.335, *Lead in School Drinking Water*, schools are <u>required</u> to test each tap used for drinking or food preparation at least once every five years.

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Report of: Testing for Lead in Drinking Water – Post Mitigation Project No.: 19179

Locations: Apple Valley High, Rosemount High, School of Environmental Studies, Black Hawk Middle, Dakota Hills Middle, Falcon Ridge Middle, Scott Highlands Middle, Valley Middle, District Service Center Date: June 3, 2020

### III. METHODOLOGY

FIELD ENVIRONMENTAL collected first draw water samples. First draw samples are collected prior to the fixture being used or flushed for the day when water has sat undisturbed in the plumbing system for at least six (6) hours; not exceeding eighteen (18) hours. Water was collected immediately in the morning before it could be used for other purposes. First draw samples were collected using sterile 250 milliliter (mL) sampling bottles. The bottles were filled to the top, capped, recorded, and transported to a certified drinking water laboratory. Results from first draw sampling indicate lead levels for water that has been in direct contact with the tap or fixture and the section of plumbing closest to the outlet. Analysis was conducted by Pace Analytical Services, Inc. of Minneapolis, Minnesota using EPA Method 200.8 ICPMS for determination of lead in drinking water. Pace Analytical Services, Inc. provided results in micrograms/Liter (μg/L) which is also commonly expressed as parts per billion (ppb).

In addition to collecting first draw samples, FIELD ENVIRONMENTAL obtained flush draw samples to determine if running the water for one (1) minute was an allowable, successful method to reduce lead content. A flush sample is water emitted from an outlet after a stated flush time (in this case, one (1) minute). This sample is representative of the water that is in the plumbing upstream from the tap. Analysis was conducted by Pace Analytical Services, Inc. of Minneapolis, Minnesota using EPA Method 200.8 ICPMS for determination of trace elements in drinking water.

### **IV. RESULTS**

Given that lead is still found in many environments and products, it is important to recognize that attaining zero exposure to lead in drinking water may not be reasonable, or even possible. However, MDH strongly recommends that schools take remedial action if samples from drinking water produce lead levels greater than 20 ppb (or 20 µg/L). This is commonly referred to as the *action level*.

Following MDH's Recommended Lead Hazard Reduction Options, ISD #196 mitigated lead concentrations by:

- Permanently removing the tap/outlet from service.
- Replacing tap/outlet with "lead free" plumbing components in accordance with the Reduction of Lead in Drinking Water Act. Resampling was performed after replacement.
- Labeling those water taps/outlets that should not be used for drinking or food preparation with a sign or label stating, "water not for drinking" or "water not for consumption."

School Name: A	pple Valley	High School (AVH	IS)		
Date: 11/7/2019					
Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)
First	N/A	Boys Dressing Room	50*	S	50
*UPDATE: Sink in E	Boys Dressing	Room Labeled "Wat	er Not for Drinking'	' in Accordance with MDH Guideli	nes.

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Report of: Testing for Lead in Drinking Water – Post Mitigation

Project No.: 19179

Locations: Apple Valley High, Rosemount High, School of Environmental Studies, Black Hawk Middle, Dakota Hills Middle, Falcon

Ridge Middle, Scott Highlands Middle, Valley Middle, District Service Center

Date: June 3, 2020

School Name	e: <b>Rosemou</b> i	nt High School (Rh	HS)		
Date: 11/8/2	019				
Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)
Basement	N/A	IMC	72*	WC	28.3
*UPDATE: Wa	iter Cooler in E	Basement IMC was Pe	rmanently Remo	oved.	

School Name	e: <b>School of</b>	Environmental St	udies (SES)		
Date: 11/8/2	019				
Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)
First	118	Deli/Serving	3*	S	45.5
Update: Wate	er to Sink in De	li/Serving has been P	ermanently Turn	ed Off.	

School Name	e: <b>Black Hawk</b>	Middle School (E	BHMS)		
Date: 11/7/2	019				
Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)
First	N/A	Kitchen	2*	SPRAY	86.6
Sprayer in Kitc	hen Laheled "Wi	ater Not for Drinking	or Food Prenar	ation" in Accordance with MDH	Guidelines.

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Report of: Testing for Lead in Drinking Water – Post Mitigation

Project No.: 19179

Locations: Apple Valley High, Rosemount High, School of Environmental Studies, Black Hawk Middle, Dakota Hills Middle, Falcon

Ridge Middle, Scott Highlands Middle, Valley Middle, District Service Center

Date: June 3, 2020

School N	lame: <b>Dako</b>	ota Hills Middle	School (DF	HMS)			
Date: 11	7/2019 & 5	5/15/2020					
Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)	Lead Result - Post Replacement (ppb)	Lead Result - Post Replacement - 1 Minute Flush (ppb)
Lower	N/A	Serving	3	S	30.5	45.5	1
Lower	N/A	Kitchen - East by Dish Wash	10	S	49.7	0.79	0.42
Lower	N/A	Kitchen	12	Misc - Steamer	25.7	6	0.9

School N	lame: <b>Falc</b> o	on Ridge Middle	School (F	RMS)			
Date: <b>11</b>	7/2019 & 5	/15/2020					
Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)	Lead Result - Post Replacement (ppb)	Lead Result - Post Replacement - 1 Minute Flush (ppb)
Lower	N/A	Kitchen	37	S	34.5	18.8	1.5
Lower	N/A	Serving Area	42	S	27.2	3.4	0.13

School N	lame: <b>Scot</b>	t Highlands Midd	lle School	(SHMS)			
Date: <b>11</b>	7/2019 & 5	/15/2020					
Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)	Lead Result - Post Replacement (ppb)	Lead Result - Post Replacement - 1 Minute Flush (ppb)
First	N/A	Kitchen - South Wall - Right	4	SPRAY	23.9	81.4	6

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Report of: Testing for Lead in Drinking Water - Post Mitigation

Project No.: 19179 Locations: Apple Valley High, Rosemount High, School of Environmental Studies, Black Hawk Middle, Dakota Hills Middle, Falcon

Ridge Middle, Scott Highlands Middle, Valley Middle, District Service Center Date: June 3, 2020

School	Name: <b>Va</b>	lley Middle So	chool (VM	S)			
Date: 1	1/7/2019 8	5/15/2020					
Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)	Lead Result - Post Replacement (ppb)	Lead Result - Post Replacement - 1 Minute Flush (ppb)
First	N/A	Kitchen	2	S	43.7	7.4	1.8
First	516	Left Sink	37*	S	23.8	-	-
First	516	Middle Sink	38*	S	24.5	-	-
First	516	Right Sink	39*	S	21.2	-	-

UPDATE: Sinks in Room 516 Labeled "Water Not for Drinking" in Accordance with MDH Guidelines.

School Name: District Service Center (DSC)								
Date: 11/8/2019								
Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)			
First	N/A	Conf Hall	4*	S	26.3			
*UPDATE: Sink in (	Conference H	Hall was Permanently Re	emoved.					

## V. RECOMMENDATIONS AND CONCLUSIONS

Lead in water concentrations were below the action level for those replaced fixtures at Dakota Hills Middle School kitchen, Falcon Ridge Middle School kitchen and serving area and Valley Middle School kitchen. First draw lead in water levels were still above 20 ppb for the Dakota Hills Middle School sink located in the serving area and spray nozzle within the kitchen of Scott Highlands Middle School. However, flushing for one (1) minute for both these taps greatly reduces lead concentrations to well below 20 ppb. Therefore, per MDH guidelines, ISD #196 can institute a flush program for those taps and mark with a label that states, "flush water for 1 min prior to use."

Minnesota Statutes section 121A.335 requires a school district to "make the results of testing available to the public for review and must notify parents of the availability of the information." ISD #196 is required to communicate lead in drinking water results. School employees, students, and parents shall be informed of the results within a reasonable time. Results of first draw sampling and any follow-up testing should be easily accessible.

Per statue, follow-up testing is required every five years.

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**Report of:** Testing for Lead in Drinking Water – Post Mitigation **Project No.:** 19179

Locations: Apple Valley High, Rosemount High, School of Environmental Studies, Black Hawk Middle, Dakota Hills Middle, Falcon Ridge Middle, Scott Highlands Middle, Valley Middle, District Service Center Date: June 3, 2020

### VI. REMARKS

The environmental services performed by FIELD ENVIRONMENTAL's technicians, analysts and project managers for this project have been conducted in a manner consistent with the degree of care and technical skill exercised by environmental professionals currently practicing in this area under similar budget and time constraints. Recommendations contained in this report represent our professional judgment at the time the project was performed.

No warranty or guarantee, expressed or implied, is made regarding the findings, conclusions, or recommendations contained in this report.

FIELD ENVIRONMENTAL appreciates the opportunity to provide services to meet your environmental needs. Any questions regarding the fieldwork, sample results or presented findings should be directed to Field Environmental Consulting, Inc.

## PREPARED and REVIEWED BY:

Field Environmental Consulting, Inc.

Amy Murray, CSP (#27824) EHS & IAQ Manager

Amy@fieldconsultinginc.com

Attachments

Appendix A: Results & Locations, Drawings, and Laboratory Reports

# **APPENDIX A**

School Results & Locations, Drawings, and Laboratory Reports



# School Name: Apple Valley High School (AVHS)

Date: 11/7/2	019				
Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)
First	N/A	Kitchen	1	SPRAY	1.2
First	N/A	Kitchen	2	S	7.4
First	N/A	Kitchen	3	S	4
First	N/A	Kitchen	4	WC	3.4
First	N/A	Kitchen	5	S	6.3
First	N/A	Kitchen	6	SPRAY	2.9
First	N/A	Kitchen	7	S	1.3
First	N/A	Kitchen	8	S	3.2
First	N/A	Kitchen	9	S	5.8
First	N/A	Custodial Break Room	10	S	0.94
First	N/A	Cafeteria	11	WC	0.62
First	N/A	Boys Locker Room	12	WC	0.5
First	N/A	Entry Left	13	WC	ND
First	N/A	Entry Right	14	WC	ND
First	N/A	Entry Right	15	BF	ND
First	N/A	Arena	16	WC	1.3
First	N/A	Arena	17	WC	ND ND
First	N/A	Arena	18	BF	ND 0.0
First	N/A	Arena	19	S	9.2
First	N/A	Across from Gym C	20	WC	ND
First	N/A	Across from Gym C	21	BF	ND
First First	F156 N/A	Training Women Team Room	22 23	S DF	1.8 7.5
First	N/A N/A		24	WC	2.5
First	N/A N/A	Gym D F161	25	WC	0.1
First	N/A	Outside D168	26	WC	1.8
First	D168	Classroom	27	S	2.6
First	N/A	Hall Outside D170	28	WC	ND
First	N/A	Hall Outside D170	29	BF	ND
First	D170	Classroom	30	S	2
First	D140	Classroom	31	S	0.94
First	D139	Classroom	32	S	1.6
First	N/A	Hall Outside D137	33	WC	1
First	N/A	Door 4	34	WC	0.32
First	N/A	Door 4	35	WC	0.31
First	N/A	Hall Outside B118	36	WC	ND
First	N/A	Hall Outside B118	37	BF	ND
First	B119	Classroom	38	S	5.9
First	N/A	Nurse	39	S	3.2
First	N/A	Front Office	40	WC	ND
First	A104	Classroom	41	WC	ND
First	A104	Classroom	42	WC	ND
First	A104		43	BF	ND
First	A105	Classroom	44	S	0.75
First	A153	Classroom	45	WC	0.81
First	A154	Classroom	46	WC	ND
First	A154	Classroom	47	BF	ND
First	A154	Classroom	48	S	14.2



Second

Second

Second

N/A

N/A

N/A

Hallway Outside M224

Hallway Outside M224

Hallway Outside M224

\*UPDATE: Sink in Boys Dressing Room Labeled "Water Not for Drinking" in Accordance with MDH Guidelines.

School Name: Apple Valley High School (AVHS) Date: 11/7/2019 Type DF = Drinking Fountain S = Sink Floor **Room Number** Location Sample ID WC = Water Cooler Lead Result (ppb) BF = Bottle Filler K=Kettle Misc=Miscellaneous N/A First Girls Dressing Room 49 20.1 First N/A Boys Dressing Room 50\* S First N/A Hallway Outside E148 51 WC 1.6 52 WC 5.3 Second C216 Classroom 53 Second W219 Classroom WC 1 WC 2 Second K207 Classroom 54 Second K207 Classroom 55 WC 2.3 Second N/A Hallway Outside N237 WC ND 56 Second N/A Hallway Outside N237 57 WC ND Second N/A Hallway Outside N237 58 BF ND N237 59 S 0.4 Second Classroom N/A Hallway Outside M229 WC ND Second 60 WC ND Second N/A Hallway Outside M229 61 Second N/A Hallway Outside M229 62 BF ND WC

63

64

65

WC

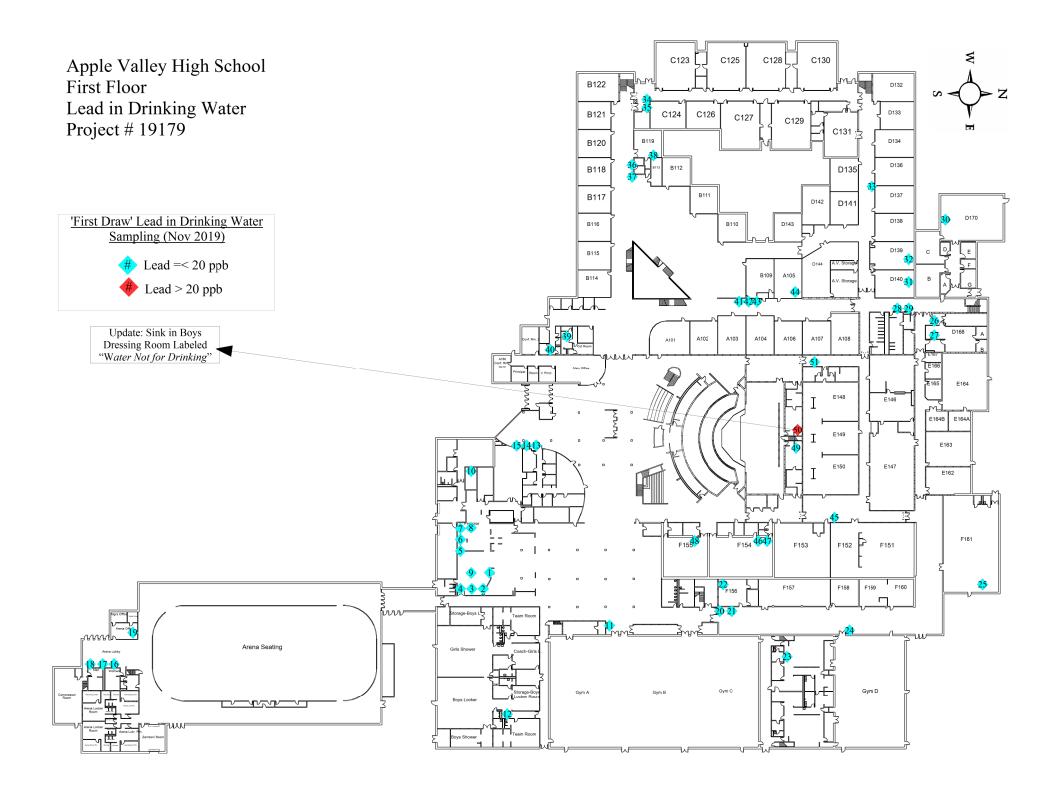
BF



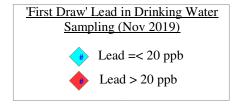
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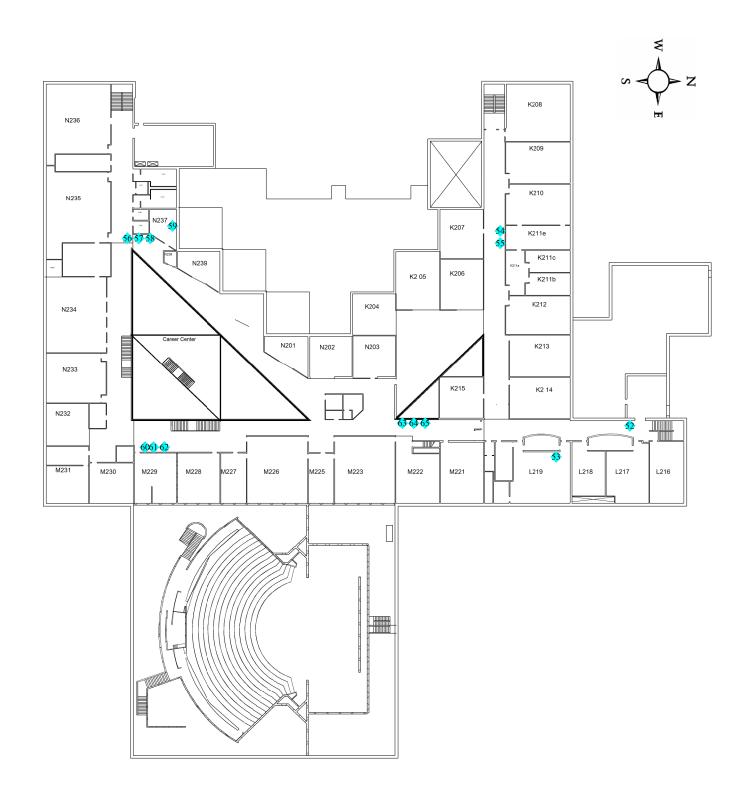
ND

ND



Apple Valley High School Second Floor Lead in Drinking Water Project # 19179





School Name: Rosemount High School (RHS)

1-4-	-	0		7	
)ate		o.	Z	01	М,

Date: 11/8/2	019				
Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)
First	N/A	Hall	1	BF	ND
First	N/A	Hall	2	WC	ND
First	N/A	Hall	3	WC	ND
First	N/A	Hall	4	WC	ND
First	N/A	Hall	5	BF	ND
First	N/A	Hall	6	WC	ND
First	N/A	Hall	7	WC	ND
First	N/A	Hall	8	BF	ND
First	N/A	Hall	9	WC	ND
First	N/A	Hall	10	WC	ND
First	N/A	Hall	11	BF	ND
First	N/A	Hall	12	WC	ND
First	N/A	Hall	13	WC	ND
First	N/A	Hall	14	BF	ND
First	N/A	Hall	15	WC	ND
First	N/A	Hall	16	BF	ND
First	N/A	Hall	17	DF	0.94
First	N/A	Hall	18	DF	0.44
First	N/A	Hall	19	WC	ND
First	N/A	Hall	20	BF	ND
First	N/A	Hall	21	WC	0.12
First	112	FACS	22	S	2.1
First	112	FACS	23	S	0.87
First	112	FACS	24	S	0.4
First	112	FACS	25	S	0.87
First	112	FACS	26	S	0.48
First	112	FACS	27	S	0.46
First	112 N/A	FACS Office	28 29	S WC	4.1
First First	N/A N/A	Hall Hall	30	WC	ND ND
First	N/A N/A	Hall	31	BF	ND ND
First	N/A	IMC	32	WC	2.6
First	N/A	Hall	33	DF	3.6
First	N/A	Faculty	34	S	1.7
First	N/A	Faculty	35	MISC	ND
Basement	N/A	Hall	36	DF	1.2
Basement	N/A	Hall	37	WC	0.36
Basement	N/A	Vestibule	38	WC	ND
Basement	N/A	Vestibule	39	BF	ND
Basement	N/A	Hall	40	DF	5.1
Basement	N/A	Hall	41	WC	ND
Basement	N/A	Hall	42	BF	ND ND
Basement	N/A	Women's Locker Room	43	DF	0.95
Basement	N/A	Women's Locker Room	44	DF	6.6
Basement	N/A	Hall	45	WC	ND
Basement	N/A	Hall	46	BF	ND ND
Basement	N/A	Hall	47	DF	0.23
Basement	N/A	Hall	48	BF	ND



School Name: Rosemount High School (RHS) Date: 11/8/2019 Type DF = Drinking Fountain S = Sink Floor **Room Number** Location Sample ID WC = Water Cooler Lead Result (ppb) BF = Bottle Filler K=Kettle Misc=Miscellaneous N/A WC ND 49 Basement Hall Basement N/A Men's Locker Room 50 WC 0.22 Basement N/A Men's Locker Room 51 WC ND N/A 52 First Kitchen S 1.5 N/A 53 S First Kitchen 0.88 S First N/A Serving 54 6.8 First N/A Kitchen 55 S 1 First N/A S 2.2 Kitchen 56 **SPRAY** First N/A Kitchen 57 0.39 Second N/A Hall 58 WC 0.12 211 Faculty 59 S 2.7 Second N/A Hall WC ND Second 60 N/A BF ND Second Hall 61 Second N/A Hall 62 DF 0.93 Second N/A Hall 63 DF 0.92 Second N/A Hall 64 BF ND N/A WC ND Second Hall 65 N/A WC Second Hall 66 ND Second N/A Hall 67 BF ND Second N/A Hall 68 WC ND N/A WC ND Second Hall 69 N/A 70 BF ND Second Hall Second N/A Hall 71 DF 0.88

72\*

WC



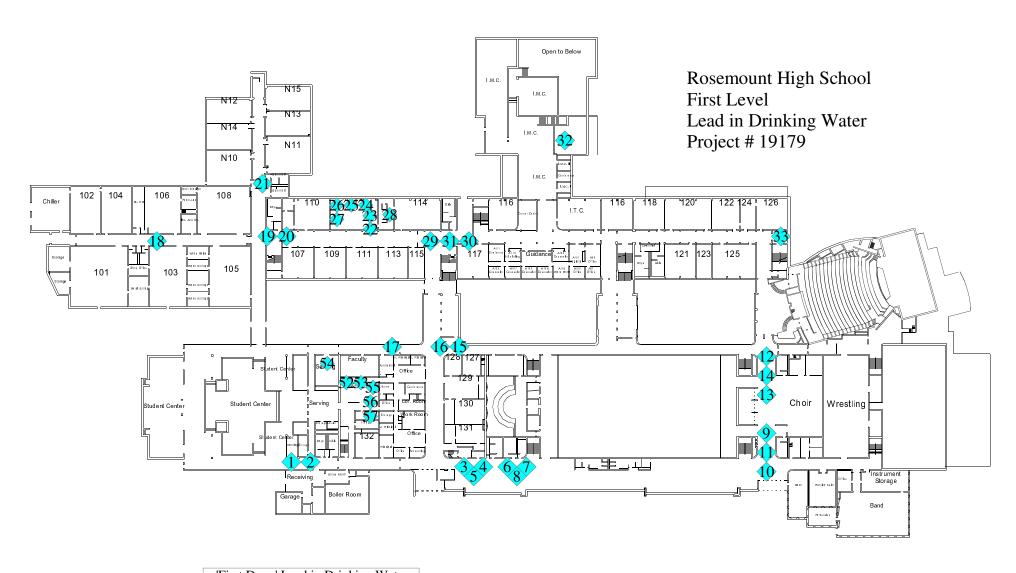
28.3

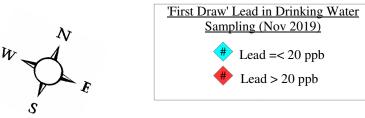
Basement

N/A

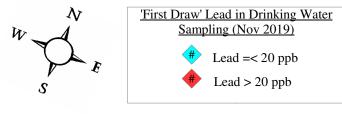
\*UPDATE: Water Cooler in Basement IMC was Permanently Removed.

**IMC** 

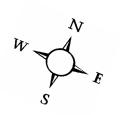


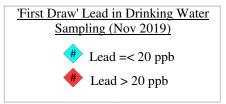


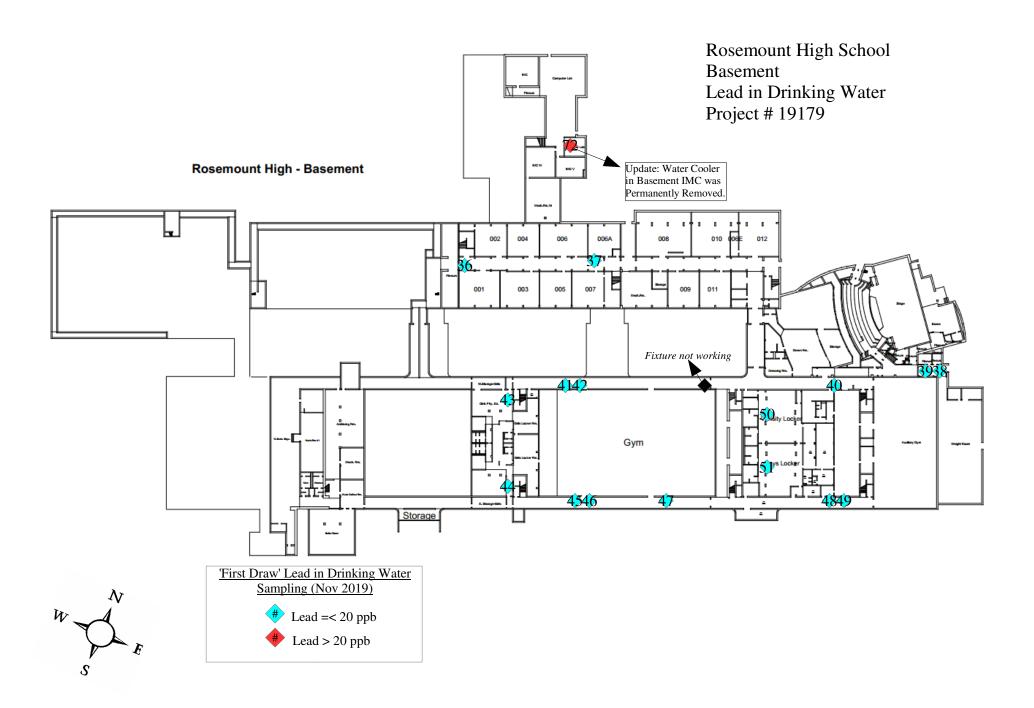






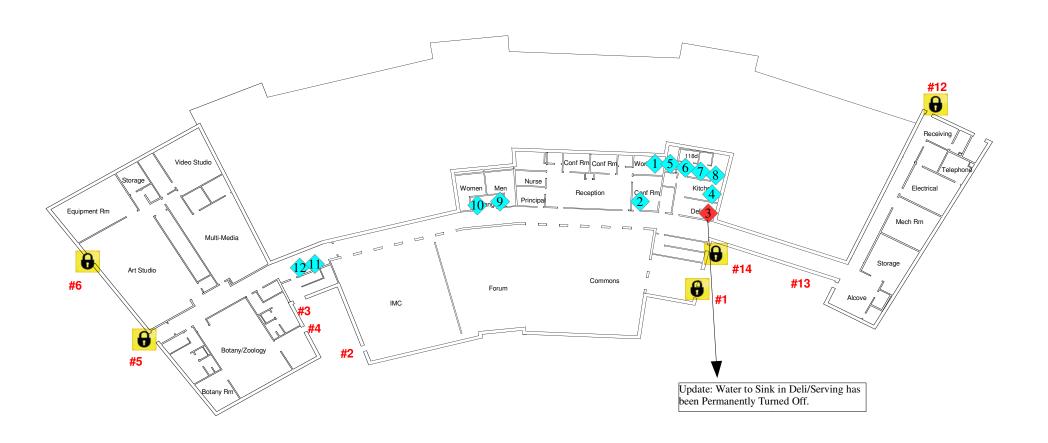


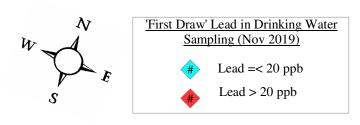




#### School Name: School of Environmental Studies (SES) Date: 11/8/2019 Type DF = Drinking Fountain S = Sink Floor **Room Number** Location Sample ID WC = Water Cooler Lead Result (ppb) BF = Bottle Filler K=Kettle Misc=Miscellaneous 120 First 1 S 3.3 Nurse First 119 Work Room 2 S 4 Deli/Serving First 118 3\* S 45.5 S First 118 Kitchen 4 11.2 118 Dishwash 5 S 4.7 First SPRAY First 118 Dishwash 6 1.3 First 118 Dishwash 4.6 S 118 8 S First Dishwash 6.8 First 130 Hallway 9 WC 0.17 WC First 131 Hallway 10 0.28 First WC 0.36 116 Hallway - Left 11 116 Hallway - Right 12 WC 0.7 First 239 Hallway - Left WC Second 13 0.43 Second 239 Hallway - Left 14 WC 0.39 Hallway - Right Second 239 15 BF 0.25 Second 218 Hallway - Left 16 WC 0.38 Hallway - Left 17 WC Second 218 0.45 Hallway - Right 18 BF Second 218 0.23 Update: Water to Sink in Deli/Serving has been Permanetly Turned Off.

School of Environmental Studies First Level Lead in Drinking Water Project # 19179





School of Environmental Studies Second Level Lead in Drinking Water Project # 19179





First Draw' Lead in Drinking Water
Sampling (Nov 2019)

Lead =< 20 ppb

Lead > 20 ppb

#### School Name: Scott Highlands Middle School (SHMS) Date: 11/7/2019 & 5/15/2020 Type DF = Drinking Fountain S = Sink Lead Result - Post Lead Result Lead Result - Post Location Sample ID WC = Water Cooler Replacement - 1 Minute Floor Room Number Replacement (ppb) (ppb) Flush (ppb) BF = Bottle Filler K=Kettle Misc=Miscellaneous First N/A Custodian Office WC 0.48 First N/A 2 S 97 Kitchen - East wall First N/A Kitchen - South Wall - Left 3 S 1.8 Kitchen - South Wall - Right SPRAY First N/A 4 6 First N/A Kitchen - North Wall 5 S 3.5 First N/A Dishwash - South West 6 SPRAY 2.8 First N/A Dishwash - West SPRAY 3.5 First N/A Dishwash - North West 8 S 6.7 First N/A Dishwash - North 9 S 11.7 First N/A Staff Breakroom Hall 10 WC 0.34 First N/A WC 0.52 Outside Fitness Room 11 First N/A Staff Lounge 12 S 5.1 First N/A WC East Gym 13 1.3 First N/A West Gym 14 WC 1.2 N/A Boys Locker Room 15 WC 26 First First N/A Girls Locker Room 16 WC 1.7 First N/A Pool 17 WC 1.7 First N/A Workroom 18 S 4.4 N/A WC 0.32 First Lecture Room A 19 Nurses Office First N/A 20 S 0.95 WC First 23 Classroom 21 0.43 First 22 22 S Classroom 6.7 First 21 Classroom 23 S 2.1 First 18 Classroom 24 S 4.2 First N/A Hallway Outside Classroom 10 25 WC ND First N/A Hallway Outside Classroom 10 26 BF ND First 14 Classroom - South Fixture 27 S 7.3 FACS Room First 28 S 2.9 6 First 6 FACS Room 29 S 1.7 FACS Room First 6 30 S 1.3 First 6 FACS Room 31 S 2 First 6 FACS Room 32 S 1.7 First 6 FACS Room 33 S 1.9 First 6 FACS Room 34 S 2 First Classroom 35 S 8 1 1 First 8 Classroom 36 S 0.59

S

S

WC

3.2

2.2

0.28

Art Classroom

Art Classroom

Music Classroom

37

38

39



First

First

First

9

9

N/A



ISD #196 School Name: Black Hawk Middle School (BHMS) Date: 11/7/2019 Type DF = Drinking Fountain S = SinkFloor **Room Number** Location Sample ID WC = Water Cooler Lead Result (ppb) BF = Bottle Filler K=Kettle Misc=Miscellaneous N/A S 3.4 First Serving 1 2\* SPRAY First N/A Kitchen N/A First Kitchen - Sink next to Spray 3 S 6.4 N/A First Kitchen - East 4 S 1.1 N/A Kitchen - Northeast 5 First S 5.3 First N/A Dish Room - South 6 S 15.8 First N/A Dish Room - North S 16.2 N/A Dish Room 8 SPRAY 1.7 First First N/A Café by Bathroom 9 WC 0.41 First N/A Boys Locker Room 10 WC ND N/A Girls Locker Room WC 0.38 First 11 N/A Vocal Room WC First 12 0.82 Woods Room First N/A 13 S 0.65 First N/A Industrial Tech Room 14 S 1.1 First N/A 6T Hall 15 WC ND First N/A 6C Hall 16 WC 0.22 Foods/FACS - Northeast Second N/A 17 S 2.9 N/A Second Foods/FACS - Southeast 18 S 3.6 Second N/A Foods/FACS - Southwall 19 S 5.9 Second N/A Foods/FACS - Southwall 20 S 2.7 S N/A 21 Second Foods/FACS - Southwest 15.9 N/A Foods/FACS - Northwest 22 Second S 4.9 2.6 Second N/A Foods/Facs - North 23 S Second N/A 7T Hall 24 WC ND Second N/A 7S Hall 25 WC 1.4 N/A 26 S 3.2 Third Special Ed Third N/A Special Ed 27 S 4.6 Third N/A Work Room 28 S 9.7 Third N/A Nurse 29 S 3.5 Third N/A Nurse - Bath 30 S 1.5

31

32

33

34



0.25

1.5

ND

0.2

WC

S

Misc - Culligan

WC

Third

Third

Third

Third

N/A

N/A

N/A

N/A

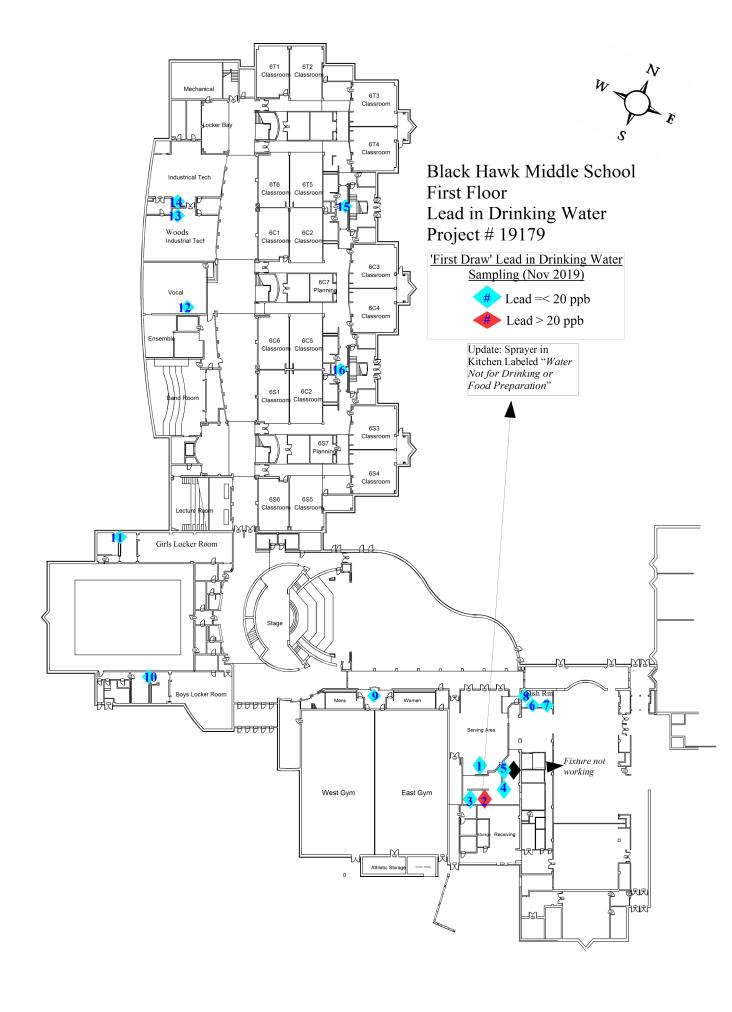
8T Hall

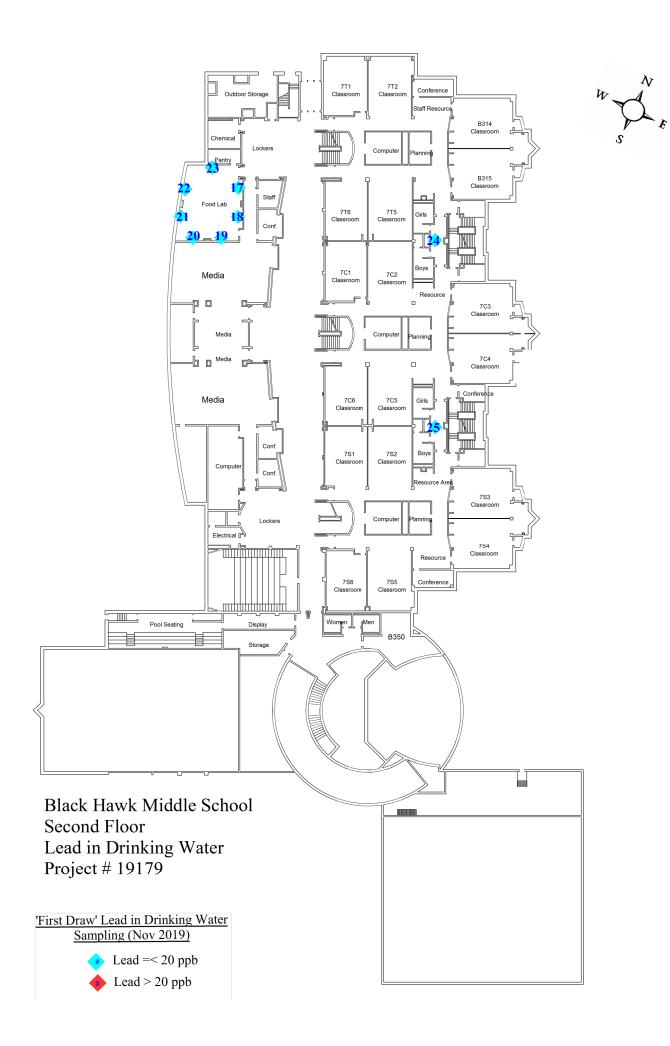
Lounge

Lounge

8S Hall

\*UPDATE: Sprayer in Kitchen Labeled "Water Not for Drinking or Food Preparation" in Accordance with MDH Guidelines.

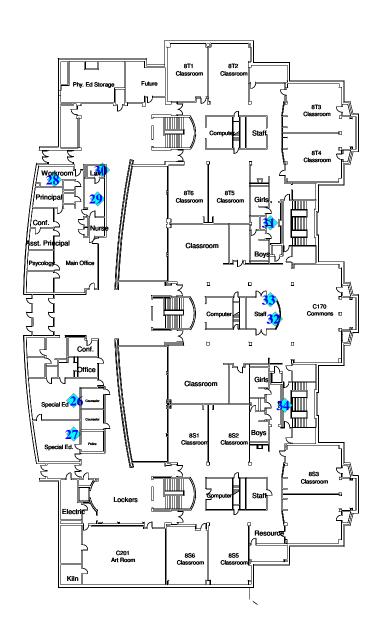




# Black Hawk Middle School Third Floor Lead in Drinking Water Project # 19179



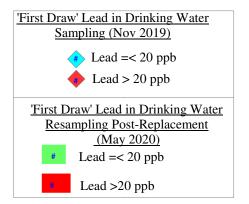




# School Name: Dakota Hills Middle School (DHMS)

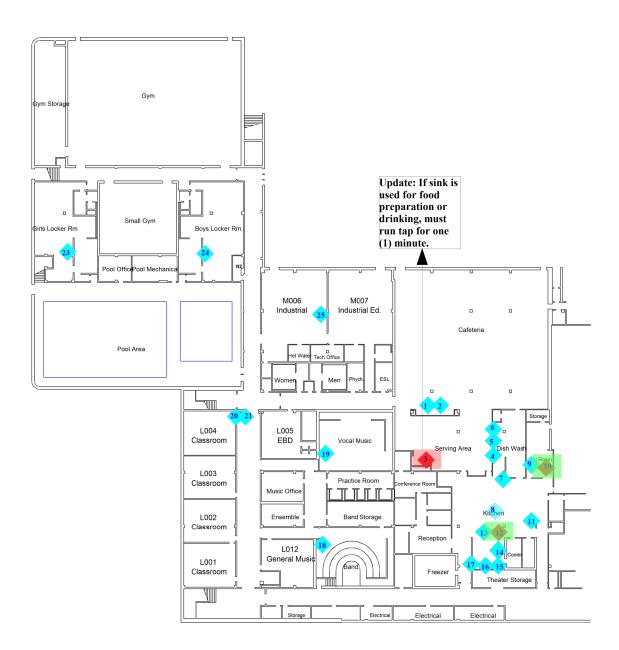
Floor	019 & 5/15/2020 Room Number	Location	Sample ID	Type  DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)	Lead Result - Post Replacement (ppb)	Lead Result - Post Replacement - 1 Minute Flush (ppb)
Lower	N/A	Cafeteria	1	BF	ND	-	-
Lower	N/A	Cafeteria	2	WC	ND	-	-
Lower	N/A	Serving	3	S	30.5	45.5	1
Lower	N/A	Kitchen - Dish Wash	4	Spray	5.2	-	-
Lower	N/A	Kitchen - Dish Wash	5	S	7.6	-	-
Lower	N/A	Kitchen - Dish Wash	6	S	10.7	-	-
Lower	N/A	Kitchen	7	WC	ND	-	-
Lower	N/A	Kitchen - Center	8	S	9.1	-	-
Lower	N/A	Kitchen - East by Dish Wash	9	S	8.1	-	-
Lower	N/A	Kitchen - East by Dish Wash	10	S	49.7	0.79	0.42
Lower	N/A	Kitchen - Southeast	11	S	15.6	-	-
Lower	N/A	Kitchen	12	Misc - Steamer	25.7	6	0.9
Lower	N/A	Kitchen	13	Misc - Kettle	12.6	-	-
Lower	N/A	Kitchen - South by Cooler	14	S	9.5	-	-
Lower	N/A	Kitchen - South by Cooler	15	S	11.5	-	-
Lower	N/A	Kitchen - South	16	Spray	2.3	-	-
Lower	N/A	Kitchen - South	17	S	1.6	-	-
Lower	N/A	Band Room	18	WC	1.5	-	-
Lower	N/A	Vocal Room	19	WC	0.18	-	-
Lower	N/A	LL Hall	20	BF	ND	-	-
Lower	N/A	LL Hall	21	WC	ND	-	-
Lower	N/A	Girls Locker Room	22	WC	1.3	-	-
Lower	N/A	Boys Locker Room	23	WC	0.72	-	-
Lower	M006	Industrial Tech	24	S	0.42	-	-
Main	N/A	Main Hall	25	BF	ND	-	-
Main	N/A	Main Hall	26	WC	0.11	-	-
Main	N/A	Nurse Bath	27	S	2	-	-
Main	N/A	Nurse	28	S	6.4	-	-
Main	N/A	Work Room	29	S	1.7	-	-
Main	N/A	Upper Level Café Hall	30	WC	0.27	-	-
Main	N/A	Upper Level Café Hall	31	BF	0.18	-	-
Main	N/A	Upper Level Café Hall	32	WC	0.2	-	-
Main	N/A	East Hall	33	BF	ND	-	-
Main	N/A	East Hall	34	WC	0.16	-	-
Upper	N/A	Foods/FACS - Southwest	35	S	0.47	-	-
Upper	N/A	Foods/FACS - West	36	S	0.67	-	-
Upper	N/A	Foods/FACS - Northwest	37	S	0.85	-	-
Upper	N/A	Foods/FACS - North	38	S	0.67	-	-
Upper	N/A	Foods/FACS - Northeast	39	S	0.54	-	-
Upper	N/A	Foods/FACS - East	40	S	0.34	-	-
Upper	N/A	Foods/FACS - Southeast	41	S	0.9	-	-
Upper	N/A	220 Hall	42	BF	ND	-	-
Upper	N/A	220 Hall	43	WC	ND	-	-
Upper	N/A	210 Hall	44	BF	ND	-	-
Upper	N/A	210 Hall	45	WC	0.13	-	-
Main	N/A	Pool Balcony	46	WC	0.17	-	-

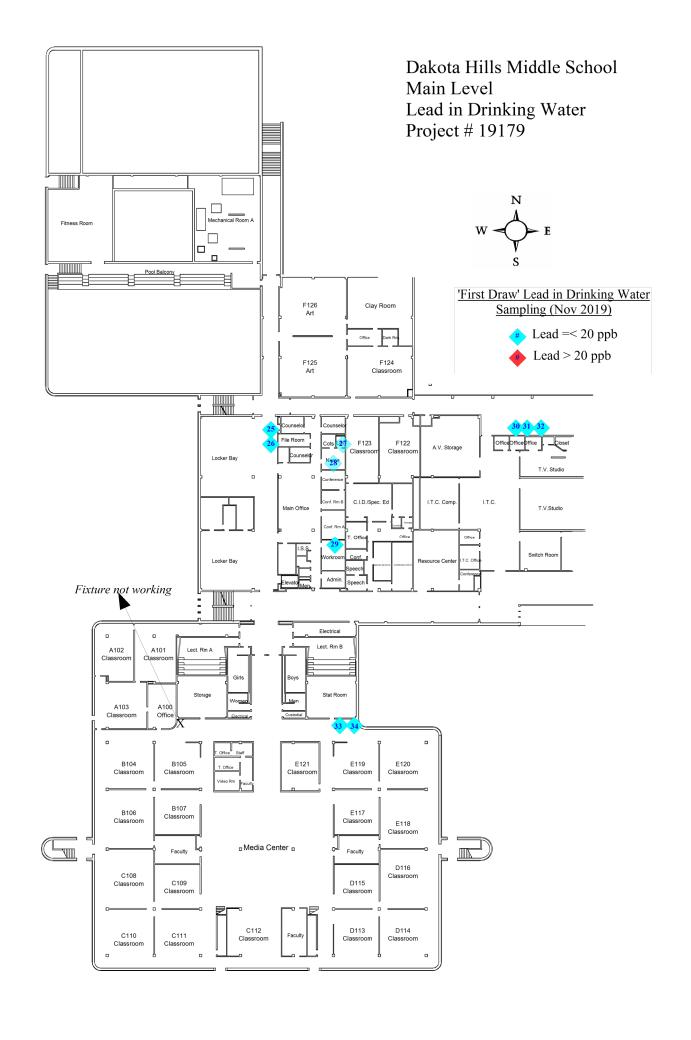






Dakota Hills Middle School Lower Level Lead in Drinking Water Project # 19179





Dakota Hills Middle School Upper Level Lead in Drinking Water Project # 19179



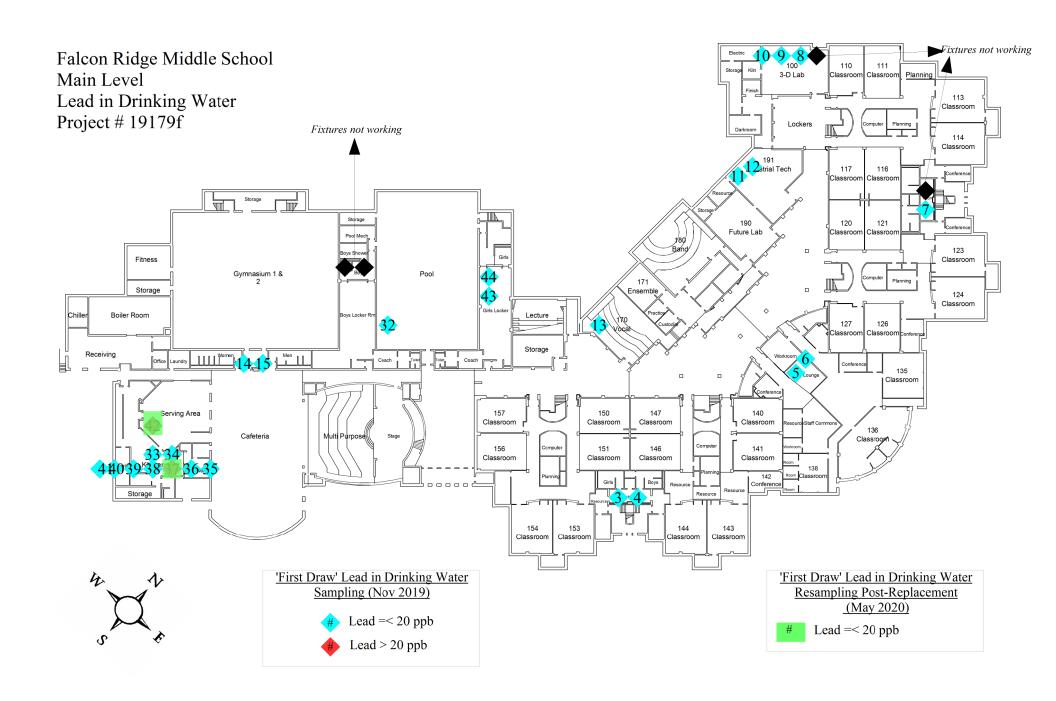


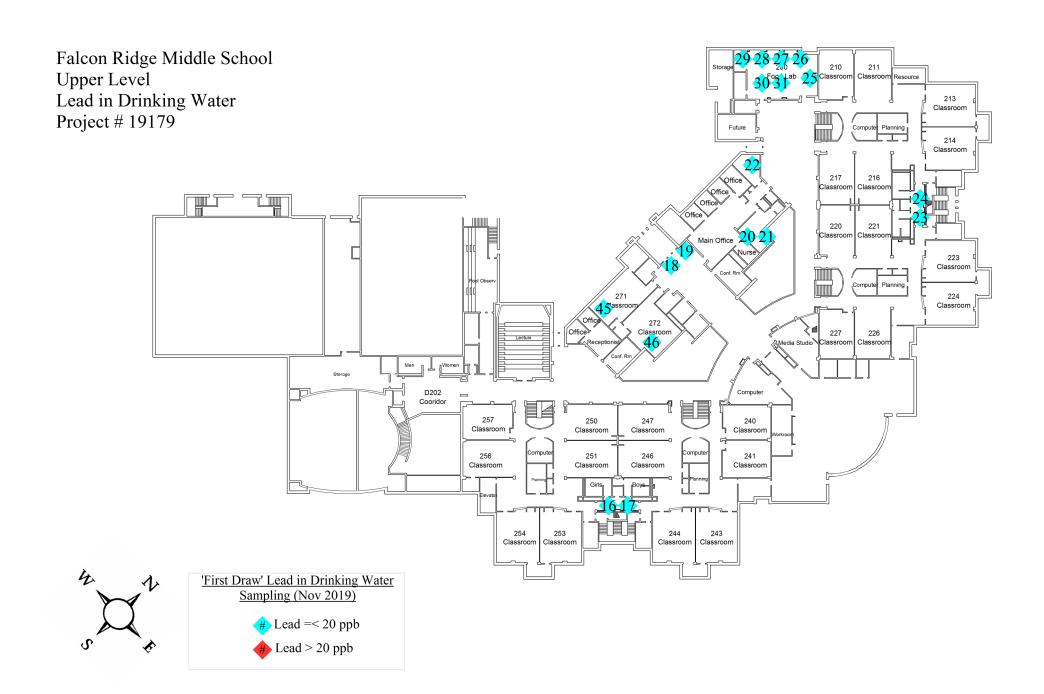


# School Name: Falcon Ridge Middle School (FRMS)

Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)	Lead Result - Post Replacement (ppb)	Lead Result - Post Replacement - 1 Minute Flush (ppb)
Lower	N/A	NO SAMPLE COLLECTED - ART ROOM - SINK MARKED WATER NOT FOR CONSUMPTION	1	S	N/A	-	-
Lower	N/A	NO SAMPLE COLLECTED - ART ROOM - SINK MARKED WATER NOT FOR CONSUMPTION	2	S	N/A	•	-
Lower	N/A	Hall/Bathroom	3	WC	0.62	•	-
Lower	N/A	Hall/Bathroom	4	WC	0.68	=	=
Lower	N/A	Staff	5	S	8.2	-	-
Lower	N/A	Staff	6	MISC	1.1	-	-
Lower	N/A	Hall/Bathroom	7	WC	1.6	-	-
Lower	100	3D Lab	8	S	4	-	-
Lower	100	3D Lab	9	S	7.4	-	-
Lower	100	3D Lab	10	S	8	-	-
Lower	191	Industrial Tech	11	DF	3.3	-	-
Lower	191	Industrial Tech	12	S	3.4	-	-
Lower	170	Vocal	13	DF	0.38	-	-
Lower	N/A	Hall	14	WC	0.17	-	-
Lower	N/A	Hall	15	WC	0.4	-	-
Upper	N/A	Hall/Bathroom	16	WC	0.78	=	-
Upper	N/A	Hall/Bathroom	17	WC	0.68	=	-
Upper	N/A	Hall	18	WC	0.44	=	-
Upper	N/A	Hall	19	WC	0.46	-	-
Upper	N/A	Nurse	20	MISC	ND	-	-
Upper	N/A	Nurse	21	S	9.1	=	-
Upper	N/A	Staff	22	S	6.1	-	-
Upper	N/A	Hall/Bathroom	23	WC	1.6	-	-
Upper	N/A	Hall/Bathroom	24	WC	1.4	-	-
Upper	200	Foods Lab	25	S	4.1	-	-
Upper	200	Foods Lab	26	S	3.2	-	-
Upper	200	Foods Lab	27	S	0.94	-	-
Upper	200	Foods Lab	28	S	4	-	-
Upper	200	Foods Lab	29	S	7.3	-	-
Upper	200	Foods Lab	30	S	3.2	-	-
Upper	200	Foods Lab	31	S	1.6	-	-
Lower	N/A	Pool	32	BF	0.22	-	-
Lower	N/A	Kitchen	33	S	10.8	-	-
Lower	N/A	Kitchen	34	SPRAY	7.4	=	-
Lower	N/A	Kitchen- Dish Room	35	SPRAY	4.2	-	-
Lower	N/A	Kitchen- Dish Room	36	SPRAY	2.3	-	-
Lower	N/A	Kitchen	37	S	34.5	18.8	1.5
Lower	N/A	Kitchen	38	SPRAY	12.2	-	-
Lower	N/A	Kitchen	39	S	7.4	-	-
Lower	N/A	Kitchen	40	SPRAY	5.5	=	=
Lower	N/A	Kitchen	41	S	8.7	-	-
Lower	N/A	Serving Area	42	S	27.2	3.4	0.13
Lower	N/A	Girl's Locker Room	43	wc	0.11	-	-
Lower	N/A	Girl's Locker Room	44	WC	0.13	-	-
Upper	271	Classroom	45	S	5.5	-	-
Upper	272	Classroom	46	S	9.5	-	-







# School Name: Valley Middle School (VMS)

Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)	Lead Result - Post Replacement (ppb)	Lead Result - Post Replacement - 1 Minute Flush (ppb)
First	N/A	Kitchen	1	S	12	-	-
First	N/A	Kitchen	2	S	43.7	7.4	1.8
First	N/A	Kitchen	3	S	8	12	1.9
First	N/A	Kitchen	4	S	11.7	=	-
First	N/A	Kitchen	5	SPRAY	9.5	-	-
First	N/A	Dishwasher	6	SPRAY	0.84	-	-
First	N/A	Cafeteria	7	WC	0.39	-	-
First	N/A	C107	8	S	12.8	-	-
First	N/A	Cafeteria	9	WC	ND	-	-
First	N/A	Cafeteria	10	BF	ND	-	-
First	N/A	Cafeteria	11	WC	ND	-	-
First	N/A	Cafeteria	12	BF	ND	-	-
First	N/A	Pool	13	DF	2.4	-	-
First	N/A	118	14	<u>\$</u>	1.3	=	-
First	118	Common Area	15	WC	ND	-	-
First	118	Common Area	16 17	BF WC	ND	-	-
First First	118 105	Common Area Copy Room	18	S S	ND 0.48	-	-
First	106	Nurse	19	S	0.46	-	-
First	507	Classroom	20	WC	0.64	<u>-</u>	-
First	504	Classroom	21	WC WC	3.5	<u> </u>	-
First	N/A	Common Area - Left	22	WC	ND	<u> </u>	-
First	N/A	Common Area - Left	23	BF	ND		-
First	N/A	Common Area - right	24	WC	ND ND	-	-
First	511	South Wall	25	S	0.7	<u>-</u>	-
First	511	West Wall Far Left	26	S	0.6	-	-
First	511	West Wall	27	S	0.55	_	_
First	511	West Wall - Middle Left	28	S	1	_	-
First	511	West Wall - Middle Right	29	S	0.56	-	-
First	511	West Wall	30	S	0.71	-	-
First	511	West Wall - Far Right	31	S	0.43	=	-
First	N/A	NO SAMPLE COLLECTED - ART ROOM - SINK MARKED WATER NOT FOR CONSUMPTION	32	S	N/A	-	-
First	513	Right Sink	33	S	2.7	-	-
First	513	Left Sink	34	S	2.3	=	-
First	513	Corner Sink	35	S	3.4	-	-
First	N/A	NO SAMPLE COLLECTED - STEM ROOM - SINK MARKED WATER NOT FOR CONSUMPTION	36	S	N/A	-	-
First	516	Left Sink	37*	S	23.8	-	-
First	516	Middle Sink	38*	S	24.5	=	-
First	516	Right Sink	39*	S	21.2	-	-
First	N/A	Common Area - Left	40	WC	ND	-	-
First	N/A	Common Area - Left	41	BF	ND	-	-
First	N/A	Common Area - Right	42	WC	ND	-	-
First	416	Hallway	43	WC	ND	-	-
First	416	Hallway	44	BF	ND	-	-
First	416	Hallway	45	WC	ND	-	-

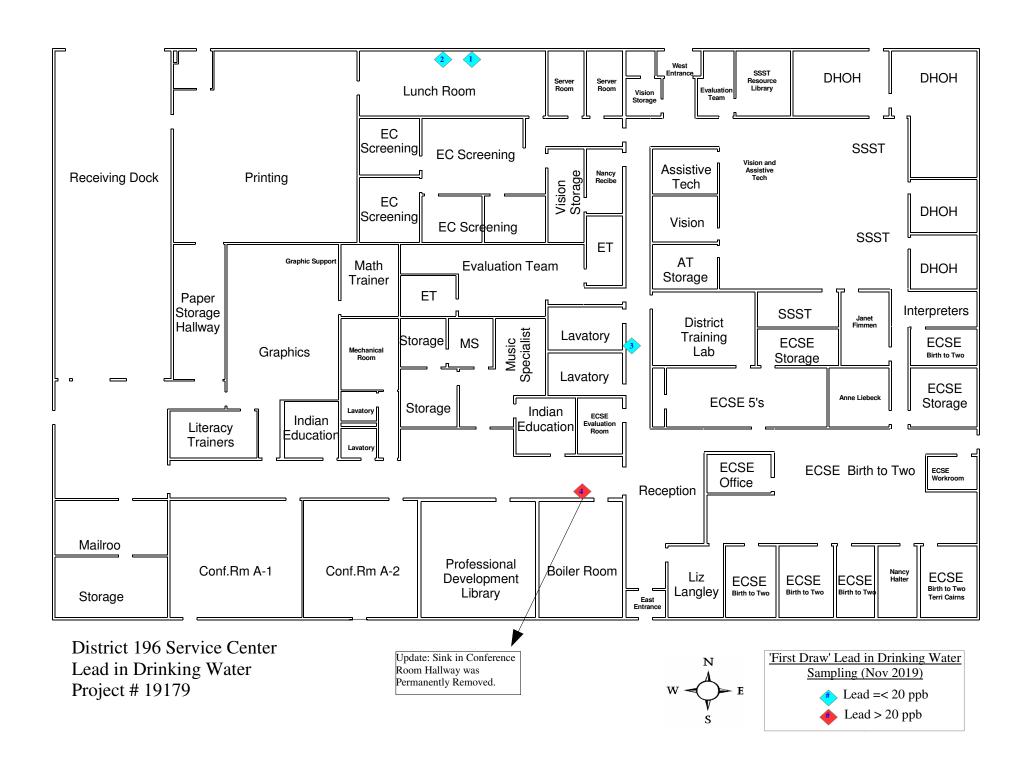
<sup>\*</sup>UPDATE: Sinks in Room 516 Labeled "Water Not for Drinking" in Accordance with MDH Guidelines.



# Valley Middle School Lead in Drinking Water Project # 19179



School Nam	School Name: District Service Center (DSC)								
Date: 11/8/2	2019								
Floor	or Room Number Location		Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Misc=Miscellaneous	Lead Result (ppb)				
First	N/A	Kitchen	1	S	2.3				
First	N/A	Kitchen	2	Misc - Culligan	ND				
First	N/A	Tech Hall	3	WC	1.2				
First	N/A	Conf Hall	4*	S	26.3				
*UPDATE: Sink in Conference Hall was Permanently Removed.									







June 03, 2020

Amy Weinzierl Field Environmental Consulting 8612 Eagle Creek Parkway Savage, MN 55378

RE: Project: 19179 ISD 196 Lead in Drinking

Pace Project No.: 10518161

# Dear Amy Weinzierl:

Enclosed are the analytical results for sample(s) received by the laboratory on May 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jared Dickinson jared.dickinson@pacelabs.com (612)607-1700 Project Manager

**Enclosures** 

cc: Steve Field, Field Environmental Consulting General Mailbox, Field Environmental Consulting







### **CERTIFICATIONS**

Project: 19179 ISD 196 Lead in Drinking

Pace Project No.: 10518161

**Pace Analytical Services Minneapolis** 

A2LA Certification #: 2926.01 Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929

CNMI Saipan Certification #: MP0003 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-

053-137

Florida Certification #: E87605 Georgia Certification #: 959 Guam EPA Certification #: MN00064 Hawaii Certification #: MN00064

Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062 Louisiana DEQ Certification #: 03086 Louisiana DW Certification #: MN00064

Maine Certification #: MN00064 Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647

North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192

Utah Certification #: MN00064 Vermont Certification #: VT-027053137 Virginia Certification #: 460163 Washington Certification #: C486 West Virginia DEP Certification #: 382 West Virginia DW Certification #: 9952 C Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01





# **SAMPLE SUMMARY**

Project: 19179 ISD 196 Lead in Drinking

Pace Project No.: 10518161

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10518161001	02R-VMS-Kitchen-S	Drinking Water	05/15/20 06:30	05/15/20 11:50
10518161002	02R-VMS-Kitchen-S-1MIN	Drinking Water	05/15/20 06:30	05/15/20 11:50
10518161003	37R-FRMS-Kitchen-S	Drinking Water	05/15/20 06:30	05/15/20 11:50
10518161004	37R-FRMS-Kitchen-S-1MIN	Drinking Water	05/15/20 06:30	05/15/20 11:50
10518161005	42R-FRMS-Serving-S	Drinking Water	05/15/20 06:30	05/15/20 11:50
10518161006	42R-FRMS-Serving-S-1MIN	Drinking Water	05/15/20 06:30	05/15/20 11:50
10518161007	04R-SHMS-Kitchen-Spray	Drinking Water	05/15/20 06:30	05/15/20 11:50
10518161008	04R-SHMS-Kitchen-Spray-1MIN	Drinking Water	05/15/20 06:30	05/15/20 11:50
10518161009	03R-DHMS-Serving-S	Drinking Water	05/15/20 06:30	05/15/20 11:50
10518161010	03R-DHMS-Serving-S-1MIN	Drinking Water	05/15/20 06:30	05/15/20 11:50
10518161011	10R-DHMS-Kitchen-S	Drinking Water	05/15/20 06:30	05/15/20 11:50
10518161012	10R-DHMS-Kitchen-S-1MIN	Drinking Water	05/15/20 07:15	05/15/20 11:50
10518161013	12R-DHMS-Kitchen-Misc	Drinking Water	05/15/20 07:15	05/15/20 11:50
10518161014	12R-DHMS-Kitchen-Misc-1MIN	Drinking Water	05/15/20 07:15	05/15/20 11:50
10518161015	03R-VMS-Kitchen-S	Drinking Water	05/15/20 07:15	05/15/20 11:50
10518161016	03R-VMS-Kitchen-S-1MIN	Drinking Water	05/15/20 07:15	05/15/20 11:50

(612)607-1700



# **SAMPLE ANALYTE COUNT**

Project: 19179 ISD 196 Lead in Drinking

Pace Project No.: 10518161

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10518161001	02R-VMS-Kitchen-S	EPA 200.8	BWB	1
10518161002	02R-VMS-Kitchen-S-1MIN	EPA 200.8	BWB	1
10518161003	37R-FRMS-Kitchen-S	EPA 200.8	BWB	1
10518161004	37R-FRMS-Kitchen-S-1MIN	EPA 200.8	BWB	1
10518161005	42R-FRMS-Serving-S	EPA 200.8	BWB	1
10518161006	42R-FRMS-Serving-S-1MIN	EPA 200.8	BWB	1
10518161007	04R-SHMS-Kitchen-Spray	EPA 200.8	BWB	1
10518161008	04R-SHMS-Kitchen-Spray-1MIN	EPA 200.8	BWB	1
10518161009	03R-DHMS-Serving-S	EPA 200.8	BWB	1
10518161010	03R-DHMS-Serving-S-1MIN	EPA 200.8	BWB	1
10518161011	10R-DHMS-Kitchen-S	EPA 200.8	BWB	1
10518161012	10R-DHMS-Kitchen-S-1MIN	EPA 200.8	BWB	1
10518161013	12R-DHMS-Kitchen-Misc	EPA 200.8	BWB	1
10518161014	12R-DHMS-Kitchen-Misc-1MIN	EPA 200.8	BWB	1
10518161015	03R-VMS-Kitchen-S	EPA 200.8	BWB	1
10518161016	03R-VMS-Kitchen-S-1MIN	EPA 200.8	BWB	1

PASI-M = Pace Analytical Services - Minneapolis

700 Elm Street - Suite 200 Minneapolis, MN 55414 (612)607-1700



# **ANALYTICAL RESULTS**

Project: 19179 ISD 196 Lead in Drinking

Pace Project No.: 10518161

Date: 06/03/2020 09:17 AM

Sample: 02R-VMS-Kitchen-S	<b>Lab ID:</b> 10518161001 Collected: 05/15/20 06:30				Received: 05/15/20 11:50 Matrix: Drinking W						
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8										
	Pace Analytica	al Services -	Minneapolis								
Lead	7.4	ug/L	0.10	1		06/02/20 15:54	4 7439-92-1				
Sample: 02R-VMS-Kitchen-S-1MIN	Lab ID: 105	518161002	Collected: 05/15/2	20 06:30	Received: 0	5/15/20 11:50	Matrix: Drinking	Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
200.8 MET ICPMS, DW	Analytical Met Pace Analytica										
Lead	1.8	ug/L	0.10	1		06/02/20 16:02	2 7439-92-1				
Sample: 37R-FRMS-Kitchen-S	Lab ID: 105	18161003	Collected: 05/15/2	20 06:30	Received: 05	5/15/20 11:50	Matrix: Drinking	Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
200.8 MET ICPMS, DW	Analytical Met										
Lead	18.8	ug/L	0.10	1		06/02/20 16:09	05 7439-92-1				
Sample: 37R-FRMS-Kitchen-S-1MIN	Lab ID: 105	518161004	Collected: 05/15/2	20 06:30	Received: 05	5/15/20 11:50	Matrix: Drinking	Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
200.8 MET ICPMS, DW	Analytical Met Pace Analytica										
Lead	1.5	ug/L	0.10	1		06/02/20 16:10	6 7439-92-1				
Sample: 42R-FRMS-Serving-S	Lab ID: 105	518161005	Collected: 05/15/2	20 06:30	Received: 0	5/15/20 11:50	Matrix: Drinking	Water			
	Danilla	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
Parameters	Results	Office									
Parameters 200.8 MET ICPMS, DW	Analytical Met Pace Analytica	hod: EPA 20									

(612)607-1700



# **ANALYTICAL RESULTS**

Project: 19179 ISD 196 Lead in Drinking

Pace Project No.: 10518161

Date: 06/03/2020 09:17 AM

I ah ID:	10518161006	Collected: 05/15/	20.06:30	Received:	05/15/20 11:50	Matrix: Drinking	ı Water
							Qual
		<u>·</u>		Tropared	7 (1) (1) 20 (1)		
•							
	•	•					
0.1	<b>3</b> ug/L	0.10	1		06/02/20 16:2	26 7439-92-1	
Lab ID:	10518161007	Collected: 05/15/	20 06:30	Received:	05/15/20 11:50	Matrix: Drinking	y Water
Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Analytical	Method: EPA 20	00.8					
Pace Anal	ytical Services -	Minneapolis					
81.4	<b>4</b> ug/L	0.10	1		06/02/20 16:2	28 7439-92-1	
Lab ID:	10518161008	Collected: 05/15/	20 06:30	Received:	05/15/20 11:50	Matrix: Drinking	y Water
Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Analytical	Method: EPA 20	00.8					
Pace Anal	ytical Services -	Minneapolis					
6.0	<b>0</b> ug/L	0.10	1		06/02/20 16:2	29 7439-92-1	
Lab ID:	10518161009	Collected: 05/15/	20 06:30	Received:	05/15/20 11:50	Matrix: Drinking	y Water
Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
-							
45.	<b>5</b> ug/L	0.10	1		06/02/20 16:3	31 7439-92-1	
Lab ID:	10518161010	Collected: 05/15/	20 06:30	Received:	05/15/20 11:50	Matrix: Drinking	y Water
Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
	Units  Method: EPA 20		DF	Prepared	Analyzed	CAS No.	Qual
Analytical	-	00.8	DF	Prepared	Analyzed	CAS No.	Qual
	Results  Analytical Pace Anal 0.1:  Lab ID: Results  Analytical Pace Anal 81  Lab ID: Results  Analytical Pace Anal 6  Lab ID: Results  Analytical Pace Anal 6	Analytical Method: EPA 20 Pace Analytical Services -  0.13 ug/L  Lab ID: 10518161007  Results Units  Analytical Method: EPA 20 Pace Analytical Services -  81.4 ug/L  Lab ID: 10518161008  Results Units  Analytical Method: EPA 20 Pace Analytical Services -  6.0 ug/L  Lab ID: 10518161009  Results Units  Analytical Method: EPA 20 Pace Analytical Services -  6.0 ug/L  Analytical Method: EPA 20 Pace Analytical Services -  Results Units	Results Units Report Limit  Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis  0.13 ug/L 0.10  Lab ID: 10518161007 Collected: 05/15/ Results Units Report Limit  Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis  81.4 ug/L 0.10  Lab ID: 10518161008 Collected: 05/15/ Results Units Report Limit  Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis  6.0 ug/L 0.10  Lab ID: 10518161009 Collected: 05/15/ Results Units Report Limit  Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis  Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis	Results         Units         Report Limit         DF           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         0.10         1           0.13         ug/L         0.10         1           Lab ID: 10518161007         Collected: 05/15/20 06:30         06:30           Results         Units         Report Limit         DF           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         0.10         1           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         0.10         1           Lab ID: 10518161009         Collected: 05/15/20 06:30         0.10         1           Lab ID: 10518161009         Collected: 05/15/20 06:30         0.10         1           Analytical Method: EPA 200.8 Pace Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         Report Limit         DF	Results         Units         Report Limit         DF         Prepared           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         0.10         1           Lab ID: 10518161007         Collected: 05/15/20 06:30         Received: Prepared           Results         Units         Report Limit         DF         Prepared           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         0.10         1         1           Lab ID: 10518161008         Collected: 05/15/20 06:30         Received: Prepared           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         0.10         1           Lab ID: 10518161009         Collected: 05/15/20 06:30         Received: Prepared           Analytical Method: EPA 200.8 Pace Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         DF         Prepared	Results         Units         Report Limit         DF         Prepared         Analyzed           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         0.10         1         06/02/20 16:2           Lab ID: 10518161007         Collected: 05/15/20 06:30         Received: 05/15/20 11:50           Results         Units         Report Limit         DF         Prepared         Analyzed           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         0.10         1         06/02/20 16:2           Lab ID: 10518161008         Collected: 05/15/20 06:30         Received: 05/15/20 11:50           Results         Units         Report Limit         DF         Prepared         Analyzed           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         0.10         1         06/02/20 16:2           Lab ID: 10518161009         Collected: 05/15/20 06:30         Received: 05/15/20 11:50           Results         Units         Report Limit         DF         Prepared         Analyzed           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         Prepared         Analyzed	Results         Units         Report Limit         DF         Prepared         Analyzed         CAS No.           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis 0.13         ug/L         0.10         1         06/02/20 16:26         7439-92-1           Lab ID: 10518161007         Collected: 05/15/20 06:30         Received: 05/15/20 11:50         Matrix: Drinking Prepared         Analyzed         CAS No.           Results         Units         Report Limit         DF         Prepared         Analyzed         CAS No.           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         06/02/20 16:28         7439-92-1           Results         Units         Report Limit         DF         Prepared         Analyzed         CAS No.           Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         Prepared         Analyzed         CAS No.           Lab ID: 10518161009         Collected: 05/15/20 06:30         Received: 05/15/20 11:50         Matrix: Drinking Prepared           Results         Units         Report Limit         DF         Prepared         Analyzed         CAS No.           Analytical Method: EPA 200.8 Pace Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis         Prepared         Analyzed         CAS No.

Minneapolis, MN 55414 (612)607-1700



# **ANALYTICAL RESULTS**

Project: 19179 ISD 196 Lead in Drinking

Pace Project No.: 10518161

Date: 06/03/2020 09:17 AM

Sample: 10R-DHMS-Kitchen-S	Lab ID: 105	18161011	Collected: 05/15/2	20 06:30	Received: 0	05/15/20 11:50	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Met	hod: EPA 20	00.8			•	•	
	Pace Analytica	al Services -	Minneapolis					
Lead	0.79	ug/L	0.10	1		06/02/20 16:3	5 7439-92-1	
Sample: 10R-DHMS-Kitchen-S-1MIN	Lab ID: 105	18161012	Collected: 05/15/2	20 07:15	Received: 0	05/15/20 11:50	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Met							
	Pace Analytica	al Services -	Minneapolis					
Lead	0.42	ug/L	0.10	1		06/02/20 16:4	4 7439-92-1	
Sample: 12R-DHMS-Kitchen-Misc	Lab ID: 105	18161013	Collected: 05/15/2	20 07:15	Received: 0	05/15/20 11:50	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Met Pace Analytica							
Lead	6.0	ug/L	0.10	1		06/02/20 16:4	6 7439-92-1	
Sample: 12R-DHMS-Kitchen-Misc- 1MIN	Lab ID: 105	18161014	Collected: 05/15/2	20 07:15	Received: 0	05/15/20 11:50	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Met Pace Analytica							
Lead	0.90	ug/L	0.10	1		06/02/20 16:4	8 7439-92-1	
Sample: 03R-VMS-Kitchen-S	Lab ID: 105	18161015	Collected: 05/15/2	20 07:15	Received: 0	05/15/20 11:50	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Met Pace Analytica							
Lead	12.0	ug/L	0.10	1		06/02/20 16:5	0 7439-92-1	





# **ANALYTICAL RESULTS**

Project: 19179 ISD 196 Lead in Drinking

Pace Project No.: 10518161

Date: 06/03/2020 09:17 AM

Sample: 03R-VMS-Kitchen-S-1MIN	Lab ID: 10518161016		Collected: 05/15/2	20 07:15	Received: (	05/15/20 11:50 I	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8  Pace Analytical Services - Minneapolis								
Lead	1.9	ug/L	0.10	1		06/02/20 16:52	7439-92-1		





### **QUALITY CONTROL DATA**

Project: 19179 ISD 196 Lead in Drinking

Pace Project No.: 10518161

Lead

Date: 06/03/2020 09:17 AM

QC Batch: 675857 Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, Drinking Water

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10518161001, 10518161002, 10518161003, 10518161004, 10518161005, 10518161006, 10518161007,

10518161008, 10518161009, 10518161010, 10518161011, 10518161012, 10518161013, 10518161014,

10518161015, 10518161016

METHOD BLANK: 3618301 Matrix: Water

Associated Lab Samples: 10518161001, 10518161002, 10518161003, 10518161004, 10518161005, 10518161006, 10518161007,

10518161008, 10518161009, 10518161010, 10518161011, 10518161012, 10518161013, 10518161014,

10518161015, 10518161016

 Parameter
 Units
 Blank Reporting Result
 Limit
 Analyzed
 Qualifiers

 ug/L
 ND
 0.10
 06/02/20 15:52
 Qualifiers

LABORATORY CONTROL SAMPLE: 3618302

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Lead 100 109 109 85-115 ug/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3632300 3632301

MSD MS 10518161001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual 20 Lead 7.4 100 100 70-130 ug/L 117 107 109 100 8

MATRIX SPIKE SAMPLE: 3632302 10518161011 Spike MS MS % Rec % Rec Qualifiers Parameter Units Result Conc. Result Limits 0.79 104 103 70-130 Lead ug/L 100

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Minneapolis, MN 55414 (612)607-1700

### **QUALIFIERS**

Project: 19179 ISD 196 Lead in Drinking

Pace Project No.: 10518161

### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD - Relative Percent Difference** 

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 06/03/2020 09:17 AM

(612)607-1700



# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 19179 ISD 196 Lead in Drinking

Pace Project No.: 10518161

Date: 06/03/2020 09:17 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10518161001	02R-VMS-Kitchen-S	EPA 200.8	675857		
10518161002	02R-VMS-Kitchen-S-1MIN	EPA 200.8	675857		
10518161003	37R-FRMS-Kitchen-S	EPA 200.8	675857		
10518161004	37R-FRMS-Kitchen-S-1MIN	EPA 200.8	675857		
10518161005	42R-FRMS-Serving-S	EPA 200.8	675857		
10518161006	42R-FRMS-Serving-S-1MIN	EPA 200.8	675857		
10518161007	04R-SHMS-Kitchen-Spray	EPA 200.8	675857		
10518161008	04R-SHMS-Kitchen-Spray-1MIN	EPA 200.8	675857		
10518161009	03R-DHMS-Serving-S	EPA 200.8	675857		
10518161010	03R-DHMS-Serving-S-1MIN	EPA 200.8	675857		
10518161011	10R-DHMS-Kitchen-S	EPA 200.8	675857		
10518161012	10R-DHMS-Kitchen-S-1MIN	EPA 200.8	675857		
10518161013	12R-DHMS-Kitchen-Misc	EPA 200.8	675857		
10518161014	12R-DHMS-Kitchen-Misc-1MIN	EPA 200.8	675857		
10518161015	03R-VMS-Kitchen-S	EPA 200.8	675857		
10518161016	03R-VMS-Kitchen-S-1MIN	EPA 200.8	675857		

# CHAIN-OF-CU≧TODY / Analytical Request Document

The Chain-of-Custody is a Lt. R. DOCUMENT, All relevant fields must be completed accurately.

Pace Project No./ Lab I.D. PRINKING WATER 2266208 SAMPLE CONDITIONS OTHER 10518161 250 S 33  $\mathcal{Z}$ 3 3 33  $\widetilde{\mathcal{E}}$ £32 ŝ 3 2 GROUND WATER 150 24.8 Ве Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) TIME 051816 Site Location STATE: 5/15/20 NPDES DATE UST UNS NO ACCEPTED BY / AFFILIATION 8. OGC N/A Analysis Test Methanol Preservatives Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> NaOH Attention: Juni HCI Invoice Information: €ОИН 11512020 11.48am Company Mame <sup>†</sup>OS<sup>z</sup>H Section C Reference: Pace Project ace Quote Onpreserved T.WE Address: # OF CONTAINERS SAMPLE TEMP AT COLLECTION DATE 6:30 TIME 75 COMPOSITE END/GRAB 1415 Jane DATE COLLECTED RELINQUISHED BY / AFFILIATION Muwan TIME COMPOSITE DATE Project Information: ANN (G=GRAB C=COMP) SAMPLE TYPE Order No.: umber: 8 (see valid codes to left) MATRIX CODE 1 tehpa - S- IMIN SEVVING-S-IMN FRMS-KITCHON-S-IMIN DW WW SL P WP AR AR TS DOM STrang-S Matrix Codes
MATRIX / CODE Drinking Water Water Waste Water Product Soil/Soild Oil Wipe Air Tissue Other Kitchon -OHMS-KI FORM-S-1 FRMS-SERVING-S Mailbox@fieldconsultinginc.com Field Environmental Consulting tchon-子グストラ ithon 1 thun 952-746-5880 ISD 888 Lead in Drinking Water ADDITIONAL COMMENTS 8619 Eagle Creek Parkway Project #400 19179 (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE RMS-1 ルースアナロ SAMPLE ID 72K-VMC--DH/MS-Attn: Amy Weinzierl Savage, MN 55378 Section D
Required Client Information 42R-13R-IOR 335 15 E # M3TI

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

(N/Y)

Samples Intact

(N/X)

Sealed Cooler

Custody

Ice (Y/N)

Received on

O° ni qmeT

222

DATE Signed (MM/DD/YY):

Surar Junar

るまま

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:

ORIGINAL

Page 12 of 15

F-ALL-C-010-rev.00, 09Nov201

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

field Environmental Consulting

Pace Project No./ Lab I.D. DRINKING WATER 2265978 SAMPLE CONDITIONS T OTHER <u>5</u> 95 3 20 ₽ Ŝ GROUND WATER 24.8 Residual Chlorine (Y/N) Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) TIME 1150 STATE: 5/15/20 Site Location NPDES DATE UST NHOMSING. ACCEPTED BY / AFFILIATION ÎN/A Analysis Test 👃 TedfC Methanol Preservatives Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> NaOH HCI Invoice Information: <sup>8</sup>ОИН <sup>⁵</sup>OS<sup>Z</sup>H Reference: Pace Project Manager: Pace Profile #: Section C Attention: ace Quote Unpreserved TIME # OF CONTAINERS SAMPLE TEMP AT COLLECTION 02/51/5 DATE TIME COMPOSITE END/GRAB 15/20 DATE COLLECTED RELINQUISHED BY / AFFILIATION TIME Chiwar. COMPOSITE START DATE ired Project Information 0 (G=GRAB C=COMP) **SAMPLE TYPE** 3 ase Order No.: ct Number: -VMS - Kitchen -S-MINV (see valid codes to left) MATRIX CODE ct Name: ion B д <u>Т</u>о: ق 12R-DHMS-KITCHOM-MISC-IMIN 무감점증없다 BICK-DHMS- KITCHON - MISC Matrix Codes
MATRIX / CODE Drinking Water Water Waste Water -VMS-Kitchen-S Product Soil/Solid Oil Wipe Air Tissue Other Mailbox@fieldconsultinginc.com 952-746-5880 ISD 841 Lead in Drinking Water ADDITIONAL COMMENTS (A-Z, 0-9 / ,-) Sample IDS MUST BE UNIQUE 8612 Eagle Creek Parkway SAMPLE ID Section D Required Client Information Attn: Amy Weinzierl Savage, MN 55378 Project #4930 OSE OSK 10 11 12 # Mati 20 9 7 ∞ 6

(X/N) Samples Intact

Custody Sealed Cooler (Y/N)

Ice (Y/N)

Received on

O° ni qmeT

DATE Signed (MM/DD/YY):

Importal thote: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

ORIGINAL

Page 13 of 15

PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:

SAMPLER NAME AND SIGNATURE

F-ALL-C-010-rev.00, 09Nov2017

# Pace Analytical\*

hold, incorrect preservative, out of temp, incorrect containers).

### Document Name:

# Sample Condition Upon Receipt (SCUR) - MN

Document No.:

ENV-FRM-MIN4-0150 Rev.00

Document Revised: 27Mar2020

Page 1 of 1

Pace Analytical Services - **Minneapolis** 

Sample Condition Upon Receipt Client Name:		14 -	_	oject #:	W	0#:1	0518	161	
Field Environment  Courier: Fed Ex DUPS	□us	SPS	_ ⊠cii		PM	: JDD :ENT: FIEL	Due D	ate: 06	/01/20
☐Pace ☐SpeeDee Tracking Number:	Со	mmercia	al See Exc آ	eptions					
<u>-</u>	ĴNo	Sea	 ils Intact	 P ∏Yes	ΖŃ	o Biologic	al Tissue Fro	zen? 🗆 🗸	es No MA
Packing Material: Bubble Wrap Bubble Ba		None	☐Oth	_	LAN		Temp Bla		Yes 🔀 No
Thermometer:       ☐ T1(0461)       ☐ T2(1336)       ☐ T3(0459)         ☐ T4(0254)       ☑ T5(0489)		Type of I	ce:	]Wet □B	lue	None	□Dry □I	Melted	
Did Samples Originate in West Virginia? ☐ Yes ☑ No	We	re All Co	ntainer 1	emps Taken	<b>P</b> □Ye	s □No 🖼N/	/A		
Temp should be above freezing to 6°C Cooler Temp Re	ad w/ten	np blank	:			OC A	verage Corre	cted Tem	,
10.2						0-	(no temp bl	ank only):	See Exceptions
Correction Factor: 10,2 Cooler Temp Correcte	d w/tem	p blank	<u>:                                    </u>			oc	<u> 24.</u>		1 Container
USDA Regulated Soil: ( N/A, water sample/Other:		)				Person Examir			
Did samples originate in a quarantine zone within the Unit	_		<u> </u>			ginate from a for	· -	_	ly, including
ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check m		Yes	∐No	Hawaii an		•	∐Yes	∐No	
If Yes to either question, fill out a		a son en	ecklist (F	-IVIN-Q-338) 8	ana in			erwork.	
						С	OMMENTS:		
Chain of Custody Present and Filled Out?	Yes	□No		1.					
Chain of Custody Relinquished?	Yes	□No		2.					
Sampler Name and/or Signature on COC?	∡ZĬŶes	□No	□N/A	3.					
Samples Arrived within Hold Time?	Yes	□No		4.					
Short Hold Time Analysis (<72 hr)?	∐Yes	Mo				m HPC Tota			OD Hex Chrome
Rush Turn Around Time Requested?	□Yes	⊒rÑo		6.					
Sufficient Volume?	Ø₹es	□No		7.					,
Correct Containers Used?	Yes	□No		8.		÷			
-Pace Containers Used?	Ves	□No							
Containers Intact?	✓Yes	□No		9.					
						2.91.1.1.1.1	1 1		
Field Filtered Volume Received for Dissolved Tests?	Yes	□No	☑N/A			visible in the di			
Is sufficient information available to reconcile the samples				11. If no, wri	ite ID/	Date/Time on Co	ntainer Below:		See Exception
to the COC?	Yes	□No							
Matrix: Water Soil Oil Other									
All containers needing acid/base preservation have been	<b>/⁄23</b> ,ye <b>∮</b>	₩o_	→ □N/A	12. Sample #	ŧ				
checked?		RHL	5/19/10	20		1-16:12			
All contains an anadian appropriation and formula by the to-	_	•							<b>_</b>
All containers needing preservation are found to be in compliance with EPA recommendation?	Yes	PMνο	□N/A	יום ו	laOH	<b>⊘</b> KHNO₃	<sub>3</sub> □H <sub>2</sub> :	5U₄ [	Zinc Acetate
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)									
(11103, 11204, 1201, 110011 > 3 dillide, 110011 = 2 dyallide)				Positive for I	Res. F	Tyes			See Exception
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease,	□Yes	□No	<b>□</b> N/A	Chlorine?	````F	=	l Paper Lot#		
DRO/8015 (water) and Dioxin/PFAS				Res. Chlorine	, <u> </u>	0-6 Roll	0-6 Stri	n 1	0-14 Strip
					-		"		
Extra labels present on soil VOA or WIDRO containers?	Yes	□No	ØN/A	13.		l			See Exception
Headspace in VOA Vials (greater than 6mm)?	Yes	□No	ØN/A	-					
Trip Blank Present?	Yes	□No	Z/N/A	14.		•			
Trip Blank Custody Seals Present?	☐Yes	□No	ØN/A	Pace Ti	ip Bla	nk Lot # (if purd	chased):		
CLIENT NOTIFICATION/RESOLUTION						Field F	Data Required	12   Voc	□No
Person Contacted:				Date/Time		rieiu L	zata negunet	<u>Пте</u> з	INO
Comments/Resolution:				Date/ mine	· —	·	•••		
Commental negotiation.	<del>//</del>		•						
Project Manager Review:	=				Date:	<i>E1</i>	19/20		
Note: Whenever there is a discrepancy affecting North Carolina	compliand	e sample	s, a copy					R Certification	 on Office ( i.e out of

Labeled by: AHL Page 14 of 15



Items 1-16

HNO3

76

5/5/20

1440

# Document Name: Sample Condition Upon Receipt (SCUR) **Exception Form**

Document No.: ENV-FRM-MIN4-0142 Rev.00 Document Revised: 26Mar2020

Page 1 of 1

Pace Analytical Services -Minneapolis

SCUR Exceptions:						Wo	rkord	er #:		
Out of Temp Sample IDs	Container Type	# of Containers			PM N	otified? [	]Yes 📈	No		
		THE STREET STREET, SAN	120 1	If yes, i	ndicate v	vho was co	ontacte	d/date/	time.	
					-	ndicate re	ason w	hy.		
					No	ice				
						oler Proje Lyes, fill out in			) di	
			-			No Temp	Blank		T MARKE	
			7	Read Temp	Coi	rrected Te		Ανε	rage Te	emp
			1	24,6		24.8	,		4.8	· · · · · · · · · · · · · · · · · · ·
				24.8		25.0			•	
				23.8		24-0				
				25.0	<u> </u>	25 A		•		
			] [	Total Care Care Care Care Care Care Care Care		Other Is	sues		. F: 1: 0/2 . (5.4) . 超初	
				Issue Type:			-	tainer		of
Tracking Number	/Temperatur	e		Sample ID				уре	Cont	ainers
			4				-			
			-		-		-			
	<del></del>		-				1			
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1119050

^Yes □No

Yes No

Yes No

Yes No