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Independent School District #197
1897 Delaware Avenue
Mendota Heights, MN 55118
Attn: Mr. Mark Fenton

RE: Lead in Drinking Water Resampling
SITE: Moreland Elementary
DATE: February 5, 2020

Dear Mark Fenton,

Field Environmental Consulting, Inc. (FIELD ENVIRONMENTAL) appreciates the opportunity to provide results for lead in drinking water sampling conducted at Moreland Elementary.

Initial sampling (“first draw”) was completed on Thursday, October 4, 2018. Results indicated seven (7) fixtures above the action level of 20 ppb (or µg/L). Provided with verbal results on October 23, 2018, ISD #197 Operations Department cleaned aerators for these seven (7) taps. After aerator cleaning was completed, FIELD ENVIRONMENTAL re-sampled these faucets on Friday, November 16, 2018. Results at four (4) areas were still above the recommended action level; all other locations were satisfactory. After receiving these results, water supplying the following fixtures in these rooms was permanently suspended*:

- Sink & drinking fountain - Room 14
- Sink & drinking fountain – Office 28
- Sink - Room 100G
- Sink & drinking fountain - B035 Staff Lounge

**fixtures will be addressed during summer construction.*

Room 100G was reconfigured during summer construction and the sink was permanently removed. In October 2019, faucets in Room 14, Office 28, B035 Staff Lounge were resampled. This resampling (post-fixture replacement) indicated lead in water levels below the action level for this room. Room 14 and Office 28 continued to have lead in water concentrations above the action level therefore posters were posted within these rooms instructing not to use the water for consumption. ISD 197 installed point-of-use treatment filters (Watts® Purse H₂O H20-F46 Lead Reduction Filters) within these rooms in January 2020. Resampling indicated that such filters mitigated lead hazards well below 20 ppb. ISD 197 is required to change these filters every (6) months or 2,000 gallons.

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.

PREPARED and REVIEWED BY:

Field Environmental Consulting, Inc.

Amy Weinzierl (CSP #27824)

Environmental Health and Safety Manager

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School Name: Moreland Elementary (MOR)

Dates: 10/4/2018, 11/16/2018, 10/31/2019, 1/3/2020, 1/24/2020

Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle	Lead Result 10/4/18 (ppb)	Lead Result 11/16/18 (ppb)	Lead Result 30 Sec Flush 11/16/2018 (ppb)	NOTES	Lead Result 10/31/19 (ppb)	Lead Result 1/3/2020 (ppb)	Lead Result 30 Sec Flush 1/3/2020 (ppb)	Lead Result 1 Min Flush 1/3/2020 (ppb)	Lead Result 1/24/2020 (ppb)	Lead Result 30 Sec Flush 1/24/2020 (ppb)	Lead Result 1 Min Flush 1/24/2020 (ppb)
First	200D	Kitchen	1	S	13.4	-	-	-	-	-	-	-	-	-	-
First	200D	Kitchen	2	S	1.4	-	-	-	-	-	-	-	-	-	-
First	200D	Kitchen	3	S	3.9	-	-	-	-	-	-	-	-	-	-
First	200D	Kitchen	4	K	4.3	-	-	-	-	-	-	-	-	-	-
First	12	Classroom	5	DF	2.6	-	-	-	-	-	-	-	-	-	-
First	12	Classroom	6	S	1.8	-	-	-	-	-	-	-	-	-	-
First	14	Classroom	7	DF	62.3	-	-	Water permanently shut-off to fixture; replace over construction	63.1	10.7	7.2	6.4	1.4	0.15	0.12
First	14	Classroom	8	S	69.9	71.4	46.3	Water permanently shut-off to fixture; replace over construction	53.5	90.8	7.3	5.3	9.1	0.36	0.28
First	15	Classroom	9	DF	9.1	-	-	-	-	-	-	-	-	-	-
First	15	Classroom	10	S	1.6	-	-	-	-	-	-	-	-	-	-
First	15	Classroom	11	S	0.28	-	-	-	-	-	-	-	-	-	-
First	16	Classroom	12	DF	4.9	-	-	-	-	-	-	-	-	-	-
First	16	Classroom	13	S	9.1	-	-	-	-	-	-	-	-	-	-
First	17	Classroom	14	DF	10.9	-	-	-	-	-	-	-	-	-	-
First	17	Classroom	15	S	12.5	-	-	-	-	-	-	-	-	-	-
First	19	Classroom	16	DF	7.4	-	-	-	-	-	-	-	-	-	-
First	19	Classroom	17	S	4.8	-	-	-	-	-	-	-	-	-	-
First	20	Classroom	18	DF	5.6	-	-	-	-	-	-	-	-	-	-
First	20	Classroom	19	S	5.3	-	-	-	-	-	-	-	-	-	-
First	-	Halfway	20	WC	ND	-	-	-	-	-	-	-	-	-	-
First	-	Halfway	21	WC	ND	-	-	-	-	-	-	-	-	-	-
First	21	Classroom	22	DF	4.6	-	-	-	-	-	-	-	-	-	-
First	21	Classroom	23	S	3	-	-	-	-	-	-	-	-	-	-
First	22	Classroom	24	DF	3	-	-	-	-	-	-	-	-	-	-
First	22	Classroom	25	DF	2.9	-	-	-	-	-	-	-	-	-	-
First	24	Classroom	26	DF	0.85	-	-	-	-	-	-	-	-	-	-
First	24	Classroom	27	S	1.4	-	-	-	-	-	-	-	-	-	-
First	25	Classroom	28	DF	3.8	-	-	-	-	-	-	-	-	-	-
First	25	Classroom	29	S	5.6	-	-	-	-	-	-	-	-	-	-
First	25	Classroom	30	S	5.6	-	-	-	-	-	-	-	-	-	-
First	26	Classroom	31	DF	3.3	-	-	-	-	-	-	-	-	-	-
First	26	Classroom	32	S	5.7	-	-	-	-	-	-	-	-	-	-
First	28	Classroom	33	S	1.1	-	-	-	-	-	-	-	-	-	-
First	28	Office (#30)	34	DF	54.3	80.1	21.1	Water permanently shut-off to fixture; replace over construction	41.6	49.4	214	21	1.8	0.11	0.11
First	28	Office (#30)	35	S	134	28.4	7.3	Water permanently shut-off to fixture; replace over construction	24.8	115	8.2	5.3	4.2	0.13	0.1
First	1	Classroom	36	DF	3.8	-	-	-	-	-	-	-	-	-	-
First	1	Classroom	37	S	15.5	-	-	-	-	-	-	-	-	-	-
First	2	Classroom	38	DF	9.1	-	-	-	-	-	-	-	-	-	-
First	2	Classroom	39	S	6.2	-	-	-	-	-	-	-	-	-	-
First	4	Classroom	40	DF	4.4	-	-	-	-	-	-	-	-	-	-
First	4	Classroom	41	S	5.3	-	-	-	-	-	-	-	-	-	-
First	5	Classroom	42	DF	2.8	-	-	-	-	-	-	-	-	-	-
First	5	Classroom	43	S	3.6	-	-	-	-	-	-	-	-	-	-
First	6	Classroom	44	DF	3	-	-	-	-	-	-	-	-	-	-
First	6	Classroom	45	S	6	-	-	-	-	-	-	-	-	-	-
First	7	Classroom	46	DF	4.7	-	-	-	-	-	-	-	-	-	-
First	7	Classroom	47	S	4.1	-	-	-	-	-	-	-	-	-	-
First	9	Classroom	48	DF	17.3	-	-	-	-	-	-	-	-	-	-
First	9	Classroom	49	S	39.5	8	ND	-	-	-	-	-	-	-	-
First	10	Classroom	50	S	5	-	-	-	-	-	-	-	-	-	-
First	11	Classroom	51	S	19.8	-	-	-	-	-	-	-	-	-	-
First	-	Halfway	52	WC	0.11	-	-	-	-	-	-	-	-	-	-
First	-	Halfway	53	WC	ND	-	-	-	-	-	-	-	-	-	-
First	-	Halfway	54	BF	ND	-	-	-	-	-	-	-	-	-	-
First	200E	Classroom	55	S	0.58	-	-	-	-	-	-	-	-	-	-
First	100G	Classroom	56	S	82.6	414	12.8	Water permanently shut-off to fixture; removed completely over summer construction	-	-	-	-	-	-	-
First	100K	Classroom	57	S	0.77	-	-	-	-	-	-	-	-	-	-
First	100N	Classroom	58	S	0.84	-	-	-	-	-	-	-	-	-	-
Basement	B036	Classroom	59	S	7.9	-	-	-	-	-	-	-	-	-	-
Basement	B036	Classroom	60	DF	4.5	-	-	-	-	-	-	-	-	-	-
Basement	B031	Classroom	61	DF	4.1	-	-	-	-	-	-	-	-	-	-
Basement	B031	Classroom	62	S	2.9	-	-	-	-	-	-	-	-	-	-
Basement	B030	Classroom	63	DF	2.6	-	-	-	-	-	-	-	-	-	-
Basement	B030	Classroom	64	S	7.6	-	-	-	-	-	-	-	-	-	-
Basement	B035	Staff Lounge	65	DF	21.6	26.7	4.1	Water permanently shut-off to fixture; replace over construction	14.3	-	-	-	-	-	-
Basement	B035	Staff Lounge	66	S	12.4	-	-	-	9	-	-	-	-	-	-

Moreland Elementary School
 1st Floor
 Lead in Drinking Water
 Project # 19010



First Draw Sampling (October 2018)

- ◆ Lead <= 20 ppb
- ◆ Lead > 20 ppb (Action Level)

First Draw & Flush Sampling
 (January 2020)

- ★ Lead <= 20 ppb
- ★ Lead > 20 ppb (Action Level)



Moreland Elementary School
Lower Level
Lead in Drinking Water
Project # 19010



First Draw Sampling (October 2018)

- ◆ Lead <= 20 ppb
- ◆ Lead > 20 ppb (Action Level)

First Draw Sampling (October 2019)

- Lead <= 20 ppb
- Lead > 20 ppb (Action Level)

