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November 2, 2016

Ms. Kate Hall
The Dallas School District
111 SW Ash Street
Dallas, OR 97338

Via email to: kate.hall@dsd2.org

**RE: Lead Water Testing
Morrison Campus at District Office
1251 Main Street
Dallas, OR 97338
PO# 170864**

TRC Project: 264210

Ms. Hall:

At your request, TRC Environmental Corporation (TRC) performed lead in water testing at the Morrison Campus located at 1251 Main Street, in Dallas, Oregon.

Testing Procedures

Water testing was performed following the United States Environmental Protection Agency (USEPA) guidance document "3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance." The 3Ts document provides an action limit of 20 parts per billion (ppb) for lead.

Samples were collected from cold water outlets on the interior of the building(s), including drinking fountains, kitchen food preparation sinks, classroom sinks, restroom sinks, mechanical room sinks, faculty lounge sinks, office sinks, plumbed refrigerator water outlets and water bottle refill stations. Any outlets that were broken or not in use at the time sampling was performed were documented as such and were not sampled.

A map of each school was annotated with the sample locations for each outlet and each sample number and location which were recorded on a Drinking Water Sample Data Sheet & Chain of Custody. Sampling for the District was conducted during the school week on Tuesday through Friday. Samples were collected using plastic 250 mL unpreserved bottles. The unpreserved bottles were preserved by the laboratory after receipt per the analytical method. During sample collection, each bottle was marked with a school identification code followed by the sample number (Ex. DSD-07-01A, DSD-07-01B). Water was sampled without touching the mouth of the container to the faucet filling the bottle to approximately one inch from the top. Two samples were collected from each of the cold water outlets being tested. The first sample collected was the first draw sample (also called an A sample). The first draw sample is the first

flow of water from the outlet into the bottle and represents the water standing in the fixture that would initially be consumed. The flush sample (also called a B sample) was collected into a new sample bottle 30 seconds after the water has been allowed to continuously flow from the outlet. The flush sample represents the water from the plumbing line behind the wall and outlet. Upon completion of a sampling event, the sample bottles were packaged and the Water Sample Data Sheet & Chain of Custody Record was signed and delivered with the samples to Edge Analytical, Inc., an independent third-party, accredited laboratory.

Laboratory and Analytical Method

Analysis for lead was performed by Edge Analytical, Inc. an Oregon drinking water accredited laboratory, using the EPA Method 200.8 for analysis.

Samples Collected and Results

TRC identified a total of 27 water fixtures of which one (1) were determined to be “not in use” at the time sampling was conducted. Therefore TRC performed sampling of 26 fixtures within this school. Sampling was conducted on September 23, 2016 in between the hours of 4:00 a.m. and 7:00 a.m. Of the 26 first draw samples collected, two (2) had results greater than or equal to 20 parts per billion (ppb) for lead. The flush draw samples (B samples) have not yet been analyzed for this school. The first draw results (A sample) and flush draw samples (B sample) which were at or greater than 20 ppb for lead are noted in the table below. A complete list of the analytical results noting all rooms and outlets that were sampled can be found in Appendix A.

Samples Collected and Results

TRC identified a total of 27 water fixtures of which one (1) was determined to be “not in use” at the time sampling was conducted and is represented in Table A.1 below. Therefore TRC performed sampling of 26 fixtures within this school. Sampling was conducted on September 23, 2016 in between the hours of 4:00 a.m. and 7:00 a.m. Of the 26 first draw samples collected, two (2) had results greater than or equal to 20 parts per billion (ppb) for lead. The flush draw samples (B samples) for these two (2) samples were analyzed. The two (2) first draw results (A sample) which were at or greater than 20 ppb for lead and the flush draw sample (B sample) results for those two (2) are noted in Table B.1 below. As shown in Table B.1 below, the first draw sample results indicate lead levels above the USEPA action limit, whereas the flush draw sample results indicate levels below the USEPA action limit. Therefore, the results indicate the outlet and or plumbing lead line all the way to the stop, to be the cause of the elevated lead levels in the water and not the associated plumbing line behind the wall. A complete list of the analytical results noting all rooms and outlets that were sampled can be found in Appendix A.

Table A.1

Not In Use Fixture Location and Description
Room 2 – Drinking Fountain

Table B.1

Sample #	Location and Fixture Description	Analyte	Result	USEPA Action Limit
DSD-07-04A	Classroom 1 – Sink Faucet	Lead	77 ppb	20 ppb

Sample #	Location and Fixture Description	Analyte	Result	USEPA Action Limit
DSD-07-04B	Classroom 1 – Sink Faucet	Lead	ND	20 ppb
DSD-07-05A	Classroom 1 – Drinking Fountain	Lead	20 ppb	20 ppb
DSD-07-05B	Classroom 1 – Drinking Fountain	Lead	1 ppb	20 ppb

ND = none detected
ppb = parts per billion
USEPA = United States Environmental Protection Agency


Recommendations


TRC recommends that the District suspend the use of the water at the two (2) fixtures listed in Table B.1 above and take action to lower the concentrations for lead to those fixtures by replacing the associated outlet and supply lines from the wall to the outlet. In the interim, as recommended by the USEPA short-term control measures such as flushing the piping in the system at the fixtures noted above, every morning before the facility opens, can be conducted to remove water that has been standing in the interior pipes and or fixtures. Once the replacement is made, TRC recommends the District have the water from the new outlets re-sampled for lead to determine if the outlet and supply line replacement has resolved the issue prior to allowing these faucets to be used without the short-term control measures noted above.

A copy of the sample location map can be found in Appendix B.

TRC appreciates the opportunity to provide you with environmental consulting services. We look forward to working with you on future endeavors. If you have any questions or comments concerning this report, please call TRC at (503) 387-3251.

Sincerely,
TRC Environmental Corporation


Jason Stone
Industrial Hygienist


Ron Landolt
NW Region BSI Practice Manager

Appendix A – Analytical Results



Burlington, WA Corporate Laboratory (a)
1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400
Bellingham, WA Microbiology (b)
805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR Microbiology/Chemistry (c)
9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802
Corvallis, OR Microbiology/Chemistry (d)
540 SW Third Street - Corvallis, OR 97333 - 541.753.4946
Bend, OR Microbiology (e)
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

LEAD & COPPER RULE REPORT

Client Name: TRC - Milwaukie
4120 SE International Way
Suite A110
Milwaukie, OR 97222

Reference Number: **16-23796**
Project: 264210 - Morrison
Campus at District Office

System Name:
System ID Number:
DWP Source Number:
Multiple Sources:
Sample Type:
Sample Purpose: Investigative or Other
County:

Analyst:.mvp
Date Received: 9/23/2016
Report Date: 10/4/2016
Approved By: bj
Authorized by:

Thanh B Phan
Lab Manager, Portland

Lab Number	Date Collected	Site / Location	EPA #	Analyte Name	Result	Units	AL	RL	METHOD	Lab	Comments
16_58247	9/23/2016	DSD-07-01A - Hallway Drink Fountain #1 (Chilled)	1030	LEAD	ND	ppb	20	1	200.8	4072	
16_58248	9/23/2016	DSD-07-02A - Hallway Drink Fountain #2 (Chilled)	1030	LEAD	ND	ppb	20	1	200.8	4072	
16_58249	9/23/2016	DSD-07-03A - Water Bottle Refill (Chilled)	1030	LEAD	ND	ppb	20	1	200.8	4072	
16_58250	9/23/2016	DSD-07-04A - Rm. 1 Sink Faucet	1030	LEAD	77	ppb	20	1	200.8	4072	
16_58251	9/23/2016	DSD-07-05A - Rm. 1 Drink Fountain	1030	LEAD	20	ppb	20	1	200.8	4072	
16_58252	9/23/2016	DSD-07-06A - Rm. 2 Sink Faucet	1030	LEAD	5	ppb	20	1	200.8	4072	
16_58253	9/23/2016	DSD-07-07A - Walker Room Sink Faucet	1030	LEAD	2	ppb	20	1	200.8	4072	
16_58254	9/23/2016	DSD-07-08A - Walker Room Restroom Sink Faucet	1030	LEAD	ND	ppb	20	1	200.8	4072	
16_58255	9/23/2016	DSD-07-09A - Rm. 3 Sink Faucet	1030	LEAD	11	ppb	20	1	200.8	4072	
16_58256	9/23/2016	DSD-07-10A - Rm. 3 Drink Fountain	1030	LEAD	7	ppb	20	1	200.8	4072	
16_58257	9/23/2016	DSD-07-11A - Hallway Drink Fountain #3 (Chilled)	1030	LEAD	ND	ppb	20	1	200.8	4072	
16_58258	9/23/2016	DSD-07-12A - Hallway Drink Fountain #4 (Chilled)	1030	LEAD	ND	ppb	20	1	200.8	4072	
16_58259	9/23/2016	DSD-07-13A - Water Bottle Refill # (Chilled)	1030	LEAD	ND	ppb	20	1	200.8	4072	
16_58260	9/23/2016	DSD-07-14A - Rm. 4 Sink Faucet	1030	LEAD	18	ppb	20	1	200.8	4072	
16_58261	9/23/2016	DSD-07-15A - Rm. 4 Drink Fountain	1030	LEAD	9	ppb	20	1	200.8	4072	

NOTES:

RL (Reporting Level): indicates the minimum reporting level.

AL Federal Action Levels are 0.015 mg/L for Lead and 1.3 mg/L for Copper under the Lead and Copper Rule for public water systems. A blank MCL value indicates a level is not currently established.

ND (Not Detected): indicates that the compound was not detected above the Reporting Level (RL).

These test results meet all the requirements of NELAP, unless otherwise stated in writing, and relate only to these samples. If you have any questions concerning this report contact Lawrence J Henderson at the above phone number.

LEAD & COPPER RULE REPORT

Lab Number	Date Collected	Site / Location	EPA #	Analyte Name	Result	Units	AL	RL	METHOD	Lab	Comments
16_58262	9/23/2016	DSD-07-16A - Rm. 5 Sink Faucet	1030	LEAD	4	ppb	20	1	200.8	4072	
16_58263	9/23/2016	DSD-07-17A - Rm. 5 Drink Fountain	1030	LEAD	5	ppb	20	1	200.8	4072	
16_58264	9/23/2016	DSD-07-18A - Rm. 6 Sink Faucet	1030	LEAD	3	ppb	20	1	200.8	4072	
16_58265	9/23/2016	DSD-07-19A - Rm. 6 Drink Fountain	1030	LEAD	ND	ppb	20	1	200.8	4072	
16_58266	9/23/2016	DSD-07-20A - Rm. 7 Sink Faucet	1030	LEAD	5	ppb	20	1	200.8	4072	
16_58267	9/23/2016	DSD-07-21A - Girl's Restroom Sink Faucet	1030	LEAD	3	ppb	20	1	200.8	4072	
16_58268	9/23/2016	DSD-07-22A - Girl's Restroom Sink Faucet	1030	LEAD	4	ppb	20	1	200.8	4072	
16_58269	9/23/2016	DSD-07-23A - Custodial Closet Sink Faucet	1030	LEAD	12	ppb	20	1	200.8	4072	
16_58270	9/23/2016	DSD-07-24A - Boy's Restroom Sink Faucet	1030	LEAD	ND	ppb	20	1	200.8	4072	
16_58271	9/23/2016	DSD-07-25A - Boy's Restroom Sink Faucet	1030	LEAD	ND	ppb	20	1	200.8	4072	
16_58272	9/23/2016	DSD-07-26A - Boy's Restroom Sink Faucet	1030	LEAD	2	ppb	20	1	200.8	4072	

NOTES:

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Bend, OR *Microbiology (e)*
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LEAD & COPPER RULE REPORT

Client Name: TRC - Milwaukie
 4120 SE International Way
 Suite A110
 Milwaukie, OR 97222

Reference Number: **16-25642**

Project: 264210 - Morrison
 Campus @ District Office

System Name:
 System ID Number:
 DWP Source Number:
 Multiple Sources:
 Sample Type:
 Sample Purpose: Investigative or Other
 County:

Analyst:.mvp
 Date Received: 9/23/2016
 Report Date: 10/20/2016
 Approved By: bj
 Authorized by:

Thanh B Phan
 Lab Manager, Portland

Lab Number	Date Collected	Site / Location	EPA #	Analyte Name	Result	Units	AL	RL	METHOD	Lab	Comments
16_62885	9/23/2016	DSD-07-04B - Room 1 Sink Faucet	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_62886	9/23/2016	DSD-07-05B - Room 1 Drinking Fountain	1030	LEAD	1	ppb	15	1	200.8	4072	

NOTES:

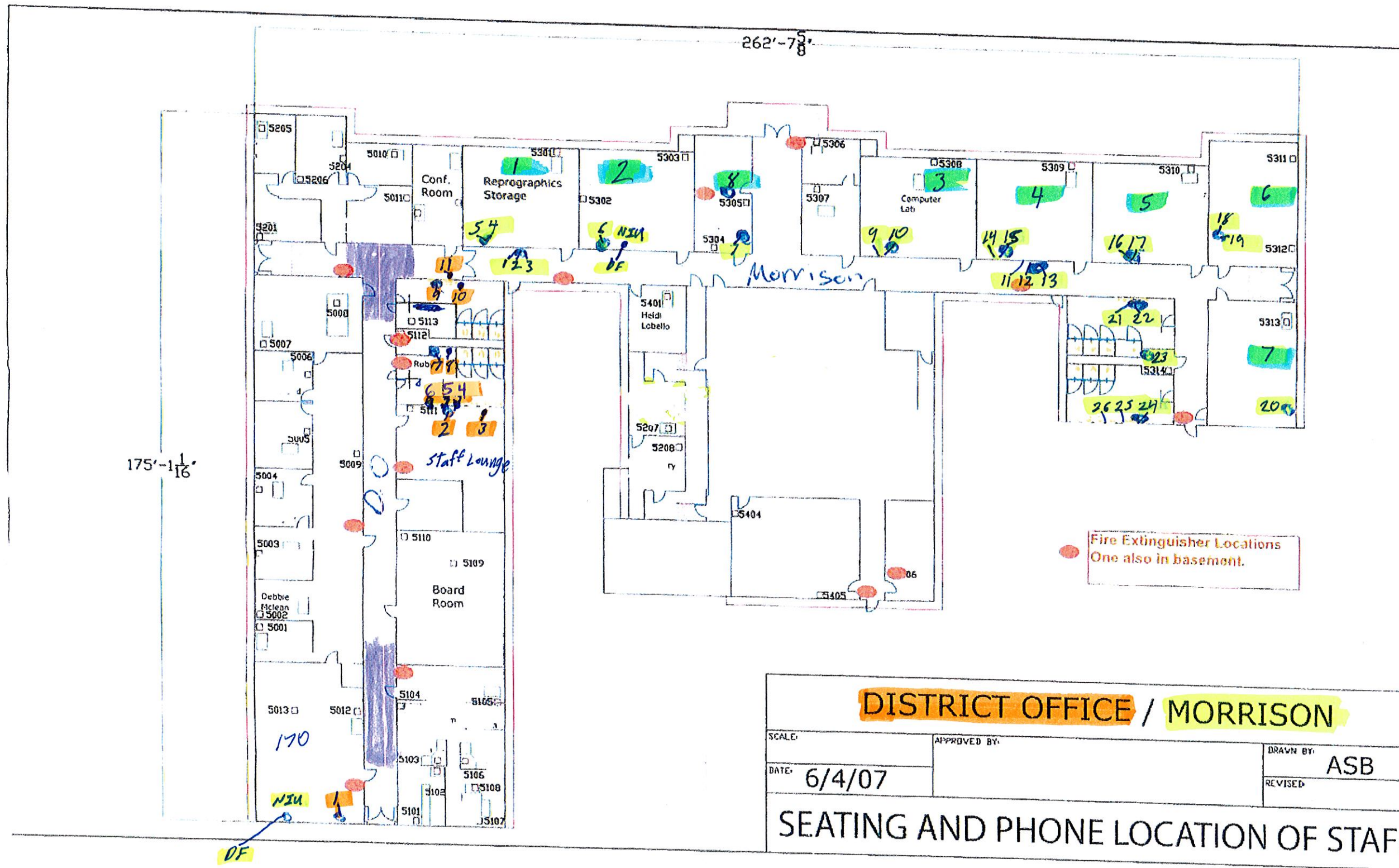
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Appendix B – Location Map



Blue dots are fountains; sinks for testing