CERTIFICATE OF ANALYSIS

Maryland Water Quality Lab #262W

NY ELAF

10920

Chain of Custody: 612165

Client: Howard County Public School System

Address: 10910 Route 108

Ellicott City, MD 21042

Attention: Jeff Klenk

Job Name: West Friendship Elementary School

Job Location: 12500 MD-144, West Friendship, MD

21794

Job Number: 13.032

P.O. Number: Not Provided

Date Sampled: 12/13/2018 - 12/14/2018

12/21/2018

12/31/2018

01/02/2019

Person Submitting: Jeff Klenk

Date Submitted:

Date Analyzed:

Report Date:

Summary of Drinking Water Analysis for Metals

| AMA Sample Number | Client Sample Number | Sample Collection Information | | Analysis | Sample | Reporting | Final Result | Comments |
|----------------------|-------------------------|-------------------------------|----------|----------|---------|-----------|--------------|----------|
| | | Date/Time | Location | Туре | Analyte | Limit | | |
| 612165-1 | WFES 2 1st Draw | 12/13/2018 5:15 am | DF/C | ICP | Lead | 0.5 ug/L | 0.51 ug/L | |
| 612165-2 | WFES 4F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 2.1 ug/L | |
| 612165-3 | WFES 5F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 2.5 ug/L | |
| 612165-4 | WFES 6F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 3.3 ug/L | |
| 612165-5 | WFES 7F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 6.5 ug/L | |
| 612165-6 | WFES 8F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 3.1 ug/L | |
| 612165-7 | WFES 9 1st Draw | 12/13/2018 5:15 am | DF/C | ICP | Lead | 0.5 ug/L | 0.63 ug/L | |
| 612165-8 | WFES 10F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 2 ug/L | |
| 612165-9 | WFES 11F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 2.5 ug/L | |
| 612165-10 | WFES 12F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 1.3 ug/L | |
| 612165-11 | WFES 13F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 4.4 ug/L | |
| 612165-12 | WFES 14F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 1.1 ug/L | |
| 612165-13 | WFES 16F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 1.3 ug/L | |
| 612165-14 | WFES 17F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 1.4 ug/L | |
| 612165-15 | WFES 18F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 1 ug/L | |
| 612165-16 | WFES 19F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 0.83 ug/L | |
| 612165-17 | WFES 20F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 0.76 ug/L | |
| 612165-18 | WFES 21F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 1.7 ug/L | |
| 612165-19 | WFES 22F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 1.2 ug/L | |
| 612165-20 | WFES 23F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 1.4 ug/L | |



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| | Number | Date/Time | Location | Туре | Analyte | Limit | | |
| 612165-21 | WFES 24F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 1.4 ug/L | |
| 612165-22 | WFES 25 1st Draw | 12/13/2018 5:15 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 612165-23 | WFES 26F 1st Draw | 12/13/2018 5:15 am | DF/B | ICP | Lead | 0.5 ug/L | 1.4 ug/L | |
| 612165-24 | WFES 27F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 0.95 ug/L | |
| 612165-25 | WFES 28F 1st Draw | 12/13/2018 5:15 am | CC/B | ICP | Lead | 0.5 ug/L | 0.97 ug/L | |
| 612165-26 | WFES 29 1st Draw | 12/13/2018 5:15 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 612165-27 | WFES 31 1st Draw | 12/13/2018 5:15 am | DF/C | ICP | Lead | 0.5 ug/L | 0.76 ug/L | |
| 612165-28 | WFES 1 1st Draw | 12/14/2018 5:43 am | KS | ICP | Lead | 0.5 ug/L | 14 ug/L | 14.3 ug/L. |
| 612165-29 | WFES 3 1st Draw | 12/14/2018 5:43 am | TL | ICP | Lead | 0.5 ug/L | 1 ug/L | |
| 612165-30 | WFES 4S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 5.5 ug/L | |
| 612165-31 | WFES 5S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 3.5 ug/L | |
| 612165-32 | WFES 6S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 2.4 ug/L | |
| 612165-33 | WFES 7S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 6.5 ug/L | |
| 612165-34 | WFES 8S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 4.6 ug/L | |
| 612165-35 | WFES 10S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 3.1 ug/L | |
| 612165-36 | WFES 11S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 3.4 ug/L | |
| 612165-37 | WFES 12S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 2.1 ug/L | |
| 612165-38 | WFES 13S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 4.1 ug/L | |
| 612165-39 | WFES 14S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 2.7 ug/L | |
| 612165-40 | WFES 15 1st Draw | 12/14/2018 5:43 am | OT.7 | ICP | Lead | 0.5 ug/L | 9.9 ug/L | |



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| 612165-41 | WFES 16S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 2.1 ug/L | |
| 612165-42 | WFES 17S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 3.6 ug/L | |
| 612165-43 | WFES 18S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 2.4 ug/L | |
| 612165-44 | WFES 19S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 2 ug/L | |
| 612165-45 | WFES 20S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 2.6 ug/L | |
| 612165-46 | WFES 21S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 3.9 ug/L | |
| 612165-47 | WFES 22S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 2.2 ug/L | |
| 612165-48 | WFES 23S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 2 ug/L | |
| 612165-49 | WFES 24S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 3.9 ug/L | |
| 612165-50 | WFES 26S 1st Draw | 12/14/2018 5:43 am | NO | ICP | Lead | 0.5 ug/L | 3.1 ug/L | |
| 612165-51 | WFES 27S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 3 ug/L | |
| 612165-52 | WFES 28S 1st Draw | 12/14/2018 5:43 am | CC/S | ICP | Lead | 0.5 ug/L | 2.5 ug/L | |
| 612165-53 | WFES 30 1st Draw | 12/14/2018 5:43 am | CR | ICP | Lead | 0.5 ug/L | 6.2 ug/L | |
| 612165-54 | WFES 32 1st Draw | 12/14/2018 5:43 am | IM | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| | | | | | | | | |



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|---------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------|----------|----------|------------------------------------------------------------------------------------------------------------|-----------|--------------|----------|--|--|
| | | Date/Time | Location | Туре | Analyte | Limit | | | | |
| Analysis Methods: Flame AA: APHA SM3111B (1999, 22nd Ed.), Furnace AA: APHA SM3113B (2010, 22nd Ed.), ICP: EPA 200.8 (Rev. 5.4) | | | | | Sample Collector: Jeff Klenk Certification: | | | | | |
| $mg/L = Parts \ Per \ Million \ (ppm), \ N/A = Not \ Applicable, \ \mu g/L = Parts \ Per \ Billion, \ N/P = Not \ Provided$ | | | | | All results are to be considered preliminary and subject to change unless signed by the Technical Director | | | | | |
| Analyst(s): Jean-Paul | ittleton | or Deputy. | | | | | | | | |

Technical Director

G. Edward Carney

NE Edul Cy

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