



CERTIFICATE OF ANALYSIS

Chain of Custody: 617978
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Folly Quarter Middle School
Job Location: 13500 Triadelphia Road, Ellicott City,
MD 21042
Job Number: 13.081
P.O. Number: Not Provided

Date Submitted: 10/04/2019
Date Analyzed: 10/10/2019
Report Date: 10/11/2019
Date Sampled: 09/26/2019
Person Submitting: Jeff Klenk

Summary of Drinking Water Analysis for Metals

| AMA Sample Number | Client Sample Number | Sample Collection Information | | Analysis Type | Sample Analyte | Reporting Limit | Final Result | Comments |
|-------------------|----------------------|-------------------------------|----------|---------------|----------------|-----------------|--------------|--|
| | | Date/Time | Location | | | | | |
| 617978-1 | FQMS 1 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 617978-2 | FQMS 2 FD | 09/26/2019 5:23 am | CR | ICP | Lead | 0.5 ug/L | 2.3 ug/L | |
| 617978-3 | FQMS 3 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | 0.51 ug/L | |
| 617978-4 | FQMS 4 FD | 09/26/2019 5:23 am | OT.6 | ICP | Lead | 0.5 ug/L | 50 ug/L | 49.6 ug/L. This sample has an elevated level of lead (above 20.5 ppb). |
| 617978-5 | FQMS 5 FD | 09/26/2019 5:23 am | OT.6 | ICP | Lead | 0.5 ug/L | 7.7 ug/L | |
| 617978-6 | FQMS 6 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 617978-7 | FQMS 7 FD | 09/26/2019 5:23 am | CR | ICP | Lead | 0.5 ug/L | 1.1 ug/L | |
| 617978-8 | FQMS 8 FD | 09/26/2019 5:23 am | OT.6 | ICP | Lead | 0.5 ug/L | 39 ug/L | 39.1 ug/L. This sample has an elevated level of lead (above 20.5 ppb). |
| 617978-9 | FQMS 9 FD | 09/26/2019 5:23 am | CR | ICP | Lead | 0.5 ug/L | 2.7 ug/L | |
| 617978-10 | FQMS 10 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 617978-11 | FQMS 12 FD | 09/26/2019 5:23 am | OT.7 | ICP | Lead | 0.5 ug/L | 8.5 ug/L | |
| 617978-12 | FQMS 13 FD | 09/26/2019 5:23 am | NO | ICP | Lead | 0.5 ug/L | 3.3 ug/L | |
| 617978-13 | FQMS 14 FD | 09/26/2019 5:23 am | TL | ICP | Lead | 0.5 ug/L | 2.6 ug/L | |
| 617978-14 | FQMS 15 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 617978-15 | FQMS 16 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 617978-16 | FQMS 17 FD | 09/27/2019 5:45 am | OT.1 | ICP | Lead | 0.5 ug/L | 0.61 ug/L | |
| 617978-17 | FQMS 18 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 617978-18 | FQMS 19 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 617978-19 | FQMS 20 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |



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|-------------------|----------------------|-------------------------------|----------|---------------|----------------|-----------------|--------------|--|
| | | Date/Time | Location | | | | | |
| 617978-20 | FQMS 21 FD | 09/26/2019 5:23 am | HE | ICP | Lead | 0.5 ug/L | 8.9 ug/L | |
| 617978-21 | FQMS 22 FD | 09/26/2019 5:23 am | HE | ICP | Lead | 0.5 ug/L | 15 ug/L | 14.7 ug/L. |
| 617978-22 | FQMS 23 FD | 09/26/2019 5:23 am | HE | ICP | Lead | 0.5 ug/L | 10 ug/L | 10.5 ug/L. |
| 617978-23 | FQMS 24 FD | 09/26/2019 5:23 am | HE | ICP | Lead | 0.5 ug/L | 13 ug/L | 13.1 ug/L. |
| 617978-24 | FQMS 25 FD | 09/26/2019 5:23 am | HE | ICP | Lead | 0.5 ug/L | 23 ug/L | 23.2 ug/L. This sample has an elevated level of lead (above 20.5 ppb). |
| 617978-25 | FQMS 26 FD | 09/26/2019 5:23 am | HE | ICP | Lead | 0.5 ug/L | 9.1 ug/L | |
| 617978-26 | FQMS 27 FD | 09/26/2019 5:23 am | HE | ICP | Lead | 0.5 ug/L | 5.8 ug/L | |
| 617978-27 | FQMS 28 FD | 09/26/2019 5:23 am | CR | ICP | Lead | 0.5 ug/L | 7.1 ug/L | |
| 617978-28 | FQMS 29 FD | 09/26/2019 5:23 am | KS | ICP | Lead | 0.5 ug/L | 7.2 ug/L | |
| 617978-29 | FQMS 30 FD | 09/26/2019 5:23 am | KS | ICP | Lead | 0.5 ug/L | 12 ug/L | 11.8 ug/L. |
| 617978-30 | FQMS 31 FD | 09/26/2019 5:23 am | KK | ICP | Lead | 0.5 ug/L | 15 ug/L | 15.3 ug/L. |
| 617978-31 | FQMS 32 FD | 09/26/2019 5:23 am | KS | ICP | Lead | 0.5 ug/L | 37 ug/L | 36.9 ug/L. This sample has an elevated level of lead (above 20.5 ppb). |
| 617978-32 | FQMS 33 FD | 09/26/2019 5:23 am | CR | ICP | Lead | 0.5 ug/L | 6.6 ug/L | |
| 617978-33 | FQMS 34 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 617978-34 | FQMS 35 FD | 09/26/2019 5:23 am | OT.6 | ICP | Lead | 0.5 ug/L | 49 ug/L | 49.1 ug/L. This sample has an elevated level of lead (above 20.5 ppb). |
| 617978-35 | FQMS 36 FD | 09/26/2019 5:23 am | OT.6 | ICP | Lead | 0.5 ug/L | 12 ug/L | 11.8 ug/L. |
| 617978-36 | FQMS 37 FD | 09/26/2019 5:23 am | TL | ICP | Lead | 0.5 ug/L | 5.5 ug/L | |
| 617978-37 | FQMS 38 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |



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|-------------------|----------------------|-------------------------------|----------|---------------|----------------|-----------------|--------------|----------|
| | | Date/Time | Location | | | | | |
| 617978-38 | FQMS 39 FD | 09/26/2019 5:23 am | CR | ICP | Lead | 0.5 ug/L | 4.5 ug/L | |
| 617978-39 | FQMS 40 FD | 09/26/2019 5:23 am | CR | ICP | Lead | 0.5 ug/L | 5.5 ug/L | |
| 617978-40 | FQMS 41 FD | 09/26/2019 5:23 am | DF/C | ICP | Lead | 0.5 ug/L | 0.54 ug/L | |

Analysis Methods: Flame AA: APHA SM3111B (1999, 22nd Ed.), Furnace AA: APHA SM3113B (2010, 22nd Ed.), ICP: EPA 200.8 (Rev. 5.4)

mg/L = Parts Per Million (ppm), N/A = Not Applicable, ug/L = Parts Per Billion, N/P = Not Provided

Analyst(s): Jean-Paul Littleton

Sample Collector: Jeff Klenk

Certification:

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

Technical Director G. Edward Carney

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