



CERTIFICATE OF ANALYSIS

Chain of Custody: 618956
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Thomas Viaduct Middle School
Job Location: 7000 Banbury Drive, Hanover, 21076
Job Number: 13.087
P.O. Number: Not Provided

Date Submitted: 11/14/2019
Date Analyzed: 11/30/2019
Report Date: 11/30/2019
Date Sampled: 11/13/2019 - 11/14/2019
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 | | | | | |
| 618956-1 | TVMS 45 FD | 11/13/2019 12:00 pm | OT.4 | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-2 | TVMS 3F FD | 11/13/2019 12:00 pm | DF/B | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-3 | TVMS 4 FD | 11/13/2019 12:00 pm | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-4 | TVMS 5 FD | 11/13/2019 12:00 pm | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-5 | TVMS 8F FD | 11/13/2019 12:00 pm | CC/B | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-6 | TVMS 9 FD | 11/13/2019 12:00 pm | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-7 | TVMS 10F FD | 11/13/2019 12:00 pm | CC/B | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-8 | TVMS 11F FD | 11/13/2019 12:00 pm | CC/B | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-9 | TVMS 13 FD | 11/13/2019 12:00 pm | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-10 | TVMS 14 FD | 11/13/2019 12:00 pm | OT.4 | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-11 | TVMS 16 FD | 11/13/2019 12:00 pm | OT.4 | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-12 | TVMS 22 FD | 11/13/2019 12:00 pm | OT.4 | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-13 | TVMS 25 FD | 11/13/2019 12:00 pm | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-14 | TVMS 26 FD | 11/13/2019 12:00 pm | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-15 | TVMS 27 FD | 11/13/2019 12:00 pm | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-16 | TVMS 28 FD | 11/13/2019 12:00 pm | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-17 | TVMS 35F FD | 11/13/2019 12:00 pm | CC/B | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-18 | TVMS 36F FD | 11/13/2019 12:00 pm | CC/B | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-19 | TVMS 37F FD | 11/13/2019 12:00 pm | CC/B | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-20 | TVMS 38 FD | 11/13/2019 12:00 pm | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |



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| | | Date/Time | Location | | | | | |
| 618956-21 | TVMS 42 FD | 11/13/2019 12:00 pm | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-22 | TVMS 44 FD | 11/13/2019 12:00 pm | DF/C | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-23 | TVMS 1 FD | 11/14/2019 12:00 pm | TL | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-24 | TVMS 10S FD | 11/14/2019 12:00 pm | CC/S | ICP | Lead | 0.5 ug/L | 0.54 ug/L | |
| 618956-25 | TVMS 11S FD | 11/14/2019 12:00 pm | CC/S | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-26 | TVMS 6 FD | 11/14/2019 12:00 pm | OT.6 | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-27 | TVMS 7 FD | 11/14/2019 12:00 pm | OT.6 | ICP | Lead | 0.5 ug/L | 0.61 ug/L | |
| 618956-28 | TVMS 8S FD | 11/14/2019 12:00 pm | CC/S | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-29 | TVMS 3S FD | 11/14/2019 12:00 pm | NO | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-30 | TVMS 12 FD | 11/14/2019 12:00 pm | OT.7 | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-31 | TVMS 15 FD | 11/14/2019 12:00 pm | HE | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-32 | TVMS 17 FD | 11/14/2019 12:00 pm | HE | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-33 | TVMS 18 FD | 11/14/2019 12:00 pm | HE | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-34 | TVMS 19 FD | 11/14/2019 12:00 pm | HE | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-35 | TVMS 20 FD | 11/14/2019 12:00 pm | HE | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-36 | TVMS 21 FD | 11/14/2019 12:00 pm | HE | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-37 | TVMS 23 FD | 11/14/2019 12:00 pm | HE | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-38 | TVMS 24 FD | 11/14/2019 12:00 pm | CR | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-39 | TVMS 29 FD | 11/14/2019 12:00 pm | IM | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-40 | TVMS 30 FD | 11/14/2019 12:00 pm | KS | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |



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|-------------------|----------------------|-------------------------------|----------|---------------|----------------|-----------------|--------------|----------|
| | | Date/Time | Location | | | | | |
| 618956-41 | TVMS 32 FD | 11/14/2019 12:00 pm | KS | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-42 | TVMS 33 FD | 11/14/2019 12:00 pm | KS | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-43 | TVMS 35S FD | 11/14/2019 12:00 pm | CC/S | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-44 | TVMS 36S FD | 11/14/2019 12:00 pm | CC/S | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-45 | TVMS 37S FD | 11/14/2019 12:00 pm | CC/S | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-46 | TVMS 39 FD | 11/14/2019 12:00 pm | CR | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 618956-47 | TVMS 40 FD | 11/14/2019 12:00 pm | OT.6 | ICP | Lead | 0.5 ug/L | 2.3 ug/L | |
| 618956-48 | TVMS 41 FD | 11/14/2019 12:00 pm | OT.6 | ICP | Lead | 0.5 ug/L | 0.77 ug/L | |
| 618956-49 | TVMS 43 FD | 11/14/2019 12:00 pm | CR | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |



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|-------------------|----------------------|--|----------|---------------|----------------|-----------------|--------------|----------|

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, µg/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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