

## Dustin Fisk

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**From:** Amanda Enbysk <aenbysk@efulcrum.net>  
**Sent:** Tuesday, May 23, 2017 8:39 AM  
**To:** Keith Colee  
**Cc:** Dustin Fisk; Ryan Mathews  
**Subject:** Drinking Water Sampling - Chinook Middle School Follow-Up Results  
**Attachments:** Rpt\_1705257\_Kennewick\_SD\_Drinking\_Water-Chinook\_MS\_Final\_v1.pdf

Keith-

Fulcrum received results from follow-up sampling conducted 5/20/2017 on 21 fixtures initially identified with copper concentrations above the action level at Chinook Middle School. The District completed a 30 minute aggressive flush on the fixtures before Fulcrum returned to collect samples. A summary of results is below and analytical results from Fremont Analytical are attached.

| <b>Sample Identification and Location</b>               | <b>Type of Fixture</b>       | <b>Initial Copper Results (µg/L)</b> | <b>5/20/17 Copper Results (µg/L)</b> |
|---|------------------------------|--------------------------------------|--------------------------------------|
| CHK52017-P-KF-03: Kitchen West wall food prep           | Kitchen Faucet               | <b>1,393</b>                         | 661                                  |
| CHK52017-P-KF-04: A la carte food prep                  | Kitchen Faucet               | <b>1,637</b>                         | 885                                  |
| CHK52017-P-CDF-05: Band Classroom                       | Classroom Drinking Fountain  | <b>2,919</b>                         | 680                                  |
| <b>CHK52017-P-CF-06: Choir/Orchestra Classroom</b>      | <b>Classroom Faucet</b>      | <b>1,414</b>                         | <b>3,380</b>                         |
| CHK52017-P-OF-11: Library Workroom                      | Office Faucet                | <b>1,922</b>                         | 657                                  |
| CHK52017-P-CF-16: Room 109, leftmost fixture            | Classroom Faucet             | <b>2,841</b>                         | 1,010                                |
| CHK52017-P-CF-17: Room 109, left of center              | Classroom Faucet             | <b>2,256</b>                         | 1,150                                |
| CHK52017-P-CF-18: Room 109, right of center             | Classroom Faucet             | <b>2,467</b>                         | 1,090                                |
| CHK52017-P-CF-19: Room 109, rightmost fixture           | Classroom Faucet             | <b>2,302</b>                         | 1,100                                |
| <b>CHK52017-P-KF-20: Room 104, east (left) wall</b>     | <b>Kitchen Faucet</b>        | <b>3,266</b>                         | <b>1,320</b>                         |
| CHK52017-P-KF-21: Room 104, north wall, right fixture   | Kitchen Faucet               | <b>2,020</b>                         | 1,270                                |
| CHK52017-P-KF-22: Room 104, north wall, left fixture    | Kitchen Faucet               | <b>2,214</b>                         | 1,070                                |
| CHK52017-P-KF-23; Room 104 west (right) wall            | Kitchen Faucet               | <b>2,119</b>                         | 1,030                                |
| <b>CHK52017-P-CF-24: Room 103, right fixture</b>        | <b>Classroom Faucet</b>      | <b>2,017</b>                         | <b>1,550</b>                         |
| CHK52017-P-CF-25: Room 103 left fixture                 | Classroom Faucet             | <b>1,553</b>                         | 1,100                                |
| CHK52017-P-KF-26: Room 102, left fixture                | Kitchen Faucet               | <b>2,016</b>                         | 874                                  |
| CHK52017-P-KF-27: Room 102, right fixture               | Kitchen Faucet               | <b>1,668</b>                         | 1,140                                |
| CHK52017-P-OF-28: Faculty Breakroom in Area C           | Office Faucet                | <b>1,645</b>                         | 899                                  |
| <b>CHK52017-P-WC-31: South entrance, left fixture</b>   | <b>Water Cooler Fountain</b> | <b>1,836</b>                         | <b>1,640</b>                         |
| CHK52017-P-NF-33: Health Room                           | Nurse's Faucet               | <b>2,075</b>                         | 807                                  |
| <b>CHK52017-P-OF-34: Conference Room in Main Office</b> | <b>Office Faucet</b>         | <b>1,683</b>                         | <b>1,460</b>                         |
| CHK52017-P-WC-35: Laboratory Blank                      | Distilled Water Blank        | <1.00                                | 4.70                                 |
| CHK52017-P-WC-36: Laboratory Spike                      | Lead and Copper Spike        | 1,339                                | 1,300                                |
| <b>EPA Action Level</b>                                 |                              | <b>1,300</b>                         | <b>1,300</b>                         |

Based on analytical results, the 30 minute aggressive flush was successful at reducing the copper concentration below the action level at all but five fixtures initially identified above the action level. Samples in **bold** in the table above, CF-06, KF-20, CF-24, WC-31, and OF-34, remain above the copper action level of 1,300 µg/L.

Fulcrum recommends these fixtures remain out of service until further testing or remediation is completed.

Please feel free to contact me with any questions.

Thank you,



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