

State of Michigan Laboratory ID: 8001

August 29, 2018

Mr. Stephen King
 Birmingham Public Schools
 2305 Cole Street
 Birmingham, MI 48009

PROJECT: Derby

TRACE ID: T18H465-01

| | | | |
|---------------------------------|------------------|---------------------|-------------------------------|
| <i>Sample Point Description</i> | <i>Collected</i> | <i>Collected By</i> | <i>Received at Laboratory</i> |
| D-80-DF | 8/16/18 5:25 | twb | 8/20/18 9:04 |

| Metals, Total | RESULT | * MCL | PREPARED | ANALYZED | BY | METHOD |
|---------------|-------------|-------|---------------|---------------|-----|--------------------|
| Copper | 0.41 mg/L | 1.3 | 8/27/18 12:39 | 8/28/18 10:14 | jbb | EPA 200.8 Rev. 5.4 |
| Lead | 0.0010 mg/L | 0.015 | 8/27/18 12:39 | 8/28/18 10:14 | jbb | EPA 200.8 Rev. 5.4 |

TRACE ID: T18H465-02

| | | | |
|---------------------------------|------------------|---------------------|-------------------------------|
| <i>Sample Point Description</i> | <i>Collected</i> | <i>Collected By</i> | <i>Received at Laboratory</i> |
| D-81-DF | 8/16/18 5:26 | twb | 8/20/18 9:04 |

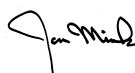
| Metals, Total | RESULT | * MCL | PREPARED | ANALYZED | BY | METHOD |
|---------------|-------------|-------|---------------|---------------|-----|--------------------|
| Copper | 0.39 mg/L | 1.3 | 8/27/18 12:39 | 8/28/18 10:16 | jbb | EPA 200.8 Rev. 5.4 |
| Lead | 0.0038 mg/L | 0.015 | 8/27/18 12:39 | 8/28/18 10:16 | jbb | EPA 200.8 Rev. 5.4 |

TRACE ID: T18H465-03

| | | | |
|---------------------------------|------------------|---------------------|-------------------------------|
| <i>Sample Point Description</i> | <i>Collected</i> | <i>Collected By</i> | <i>Received at Laboratory</i> |
| D-84-KF | 8/16/18 5:27 | twb | 8/20/18 9:04 |

| Metals, Total | RESULT | * MCL | PREPARED | ANALYZED | BY | METHOD |
|---------------|--------------|-------|---------------|---------------|-----|--------------------|
| Copper | 0.27 mg/L | 1.3 | 8/27/18 12:39 | 8/28/18 10:22 | jbb | EPA 200.8 Rev. 5.4 |
| Lead | <0.0010 mg/L | 0.015 | 8/27/18 12:39 | 8/28/18 10:22 | jbb | EPA 200.8 Rev. 5.4 |

* The MCL (Maximum Contamination Limit) is the maximum concentration allowed under the Federal Safe Drinking Water Act. Results that are reported in bold or red have equaled or exceeded the MCL.



Jon Mink
 Senior Project Manager

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 2305 Cole Street
 Birmingham, MI 48009

PROJECT: Derby

TRACE ID: T18H465-04

| | | | |
|---------------------------------|------------------|---------------------|-------------------------------|
| <i>Sample Point Description</i> | <i>Collected</i> | <i>Collected By</i> | <i>Received at Laboratory</i> |
| D-123-KF | 8/16/18 5:28 | twb | 8/20/18 9:04 |

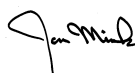
| Metals, Total | RESULT | * MCL | PREPARED | ANALYZED | BY | METHOD |
|---------------|-------------|-------|---------------|---------------|-----|--------------------|
| Copper | 0.23 mg/L | 1.3 | 8/27/18 12:39 | 8/28/18 10:23 | jbb | EPA 200.8 Rev. 5.4 |
| Lead | 0.0031 mg/L | 0.015 | 8/27/18 12:39 | 8/28/18 10:23 | jbb | EPA 200.8 Rev. 5.4 |

TRACE ID: T18H465-05

| | | | |
|---------------------------------|------------------|---------------------|-------------------------------|
| <i>Sample Point Description</i> | <i>Collected</i> | <i>Collected By</i> | <i>Received at Laboratory</i> |
| D-128-KF | 8/16/18 5:29 | twb | 8/20/18 9:04 |

| Metals, Total | RESULT | * MCL | PREPARED | ANALYZED | BY | METHOD |
|---------------|-------------|-------|---------------|---------------|-----|--------------------|
| Copper | 0.23 mg/L | 1.3 | 8/27/18 12:39 | 8/28/18 10:25 | jbb | EPA 200.8 Rev. 5.4 |
| Lead | 0.0043 mg/L | 0.015 | 8/27/18 12:39 | 8/28/18 10:25 | jbb | EPA 200.8 Rev. 5.4 |

* The MCL (Maximum Contamination Limit) is the maximum concentration allowed under the Federal Safe Drinking Water Act. Results that are reported in bold or red have equaled or exceeded the MCL.



Jon Mink
 Senior Project Manager

Birmingham Schools Fixture Inventory

Page 1 of

Building: Derby

Date Collected: 8-16-18

Trace ID: T18H465

Sampler's Initials: TWS

Logged by: JS

Checked by: [Signature]

| Trace No. | Time Taken | Sample Point | Location | Photo(s) | Aerator? | Connecting Plumbing | Notes |
|-----------|------------|--------------|-------------------------------|----------|----------|---------------------|-------|
| 1 | 5:25 | D-80-DF | Rm 112 | 3633 | N | Unknown | |
| 2 | 5:26 | D-81-DF | Rm 111 | 3634 | N | Unknown | |
| 3 | 5:27 | D-84-KF | Office Copy Rm- Left | 3638/39 | Y | Br, Cu | |
| 4 | 5:28 | D-123-KF | 2nd Fl Teacher's Lounge- Left | 3664/65 | Y | Br, Cu | |
| 5 | 5:29 | D-128-KF | Rm 208/209 | 3668/69 | Y | Br, Cu | |

Abbreviations:

B= Classroom Bubbler
 BF= Bathroom Faucet
 Bottle= Bottle Filler
 CF= Classroom Faucet
 DF= Drinking Fountain
 DS= Deep Sink
 EW= Eye Wash
 HS= Hand Sink
 KF= Kitchen Faucet

Connecting Plumbing:

Br= Brass
 Cu= Copper
 G= Galvanized
 P= Plastic
 SS= Stainless Steel

Released by: [Signature]

Received by: [Signature]

Date: 8/16/18 Time: 9:04

SAMPLE LOG IN CHECKLIST

Trace ID #: TR8H465 Date: 8/20/18 Package Description: Coke Temperature: 21.0
 Client Name: Birmingham Time: 9:04 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier Hand delivered Commercial courier Name of delivery person: Tom Brewer
 UPS FED EX US Mail

Tracking Number: Not Applicable Tracking #: _____

COC Seals present and intact on cooler? Not Applicable No Yes
 Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used
 Slurry w/ crushed, cubed, or chip ice?
 Multiple bags of ice around samples?
 Ice Packs/ Blue Ice :
 No Coolant Present:
 Ice still present upon receipt (circle one): Yes No N/A

Cooler Temperature
 Correction Factors: •Digital Stick Thermometer CF = -0.6°C
 •IR Thermometer CF = -0.8°C
 Representative Sample Temperature: 20.3 °C (check one below)
 Temp Blank (Stick Thermometer)
 Client Sample (IR Thermometer)
 Melt Water: none °C (Use Digital Stick Thermometer)

General

| | Yes | No | NA | Comments |
|---|-------------------------------------|-------------------------------------|-------------------------------------|------------|
| All bottles arrived unbroken with labels in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Each sample point is in a sealed plastic bag? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Labels filled out completely? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| All bottle labels agree with Chain of Custody (COC)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Sufficient sample to run tests requested? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| pH checked and samples at correct pH? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | See Below* |
| Correct preservative added to samples? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Air bubbles absent from VOAs? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| COC filled out properly and signed by client? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| COC signed in by TRACE sample custodian? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was project manager called and samples discussed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Notes:

***EMD pH Test Strips Used:**
 pH 0-2.5 Lot: HC731452 pH 11.0-13.0 Lot: HC600691
 Other: _____