UTAH DEPARTMENT OF HEALTH

# Final Results

Report To:
Steve Christensen
DEPT OF NATURAL RESOURCES-OGM (WT1177)
1594 W NORTH TEMPLE-SUITE 1210
Salt Lake City, UT 84114

Bill To:
Steve Christensen
DEPT OF NATURAL RESOURCES-OGM
1594 W NORTH TEMPLE-SUIT 1210
Salt Lake City, UT 84114

Project ID: C2018-02255

Steve Christensen,

Your sample(s) submitted to Utah Public Health Laboratory (UPHL) on Monday, June 4, 2018 were assigned the UPHL Project ID **C2018-02255**. Enclosed are the analytical results pertaining to that Project ID.

Herein are the results relating only to the sample(s) received and tested for the project C2018-02255. All associated analyses were performed following the UPHL Quality Assurance Plan. This report and its contents have been reviewed and approved by the appropriate Laboratory Staff and Supervisor(s). This report shall not be reproduced, except in full, without the written permission of UPHL.

If you have any questions regarding your results, please contact UPHL at (801) 965-2400 and reference the Project ID C2018-02255.

Reviewed by: Kyle Ashby
Reviewed on: 6/13/2018

UTAH DEPARTMENT OF HEALTH

# Project Summary

Report To:
Steve Christensen (WT1177)
DEPT OF NATURAL RESOURCES-OGM (WT1177)
1594 W NORTH TEMPLE-SUITE 1210
Salt Lake City, UT 84114

Phone: 801-538-5262
Fax: 801-359-3940
E-mail: stevechristensen@utah.gov

Bill To:
Steve Christensen
DEPT OF NATURAL RESOURCES-OGM
1594 W NORTH TEMPLE-SUIT 1210
Salt Lake City, UT 84114

Phone: 801-538-5262
Fax: 801-539-3940
E-mail: stevechristensen@utah.gov

Project ID: C2018-02255

| Sample # | Date Collected | Date Received | Facility | Sampling Point | Site Description |
|---|---|---|---|---|---|
| 2128765 | 05/29/18 | 06/04/18 | N/A | N/A | 002 |
| 2128767 | 05/29/18 | 06/04/18 | N/A | N/A | 002 |

UTAH DEPARTMENT OF HEALTH

# Analytical Report

Project ID: C2018-02255

| | | | |
|---|---|---|---|
| Facility: | N/A | | |
| Sampling Point: | N/A | | |
| Site Description: | 002 | | |
| Sample ID: | 2128765 | Date Collected | 5/29/2018 1:00:00PM |
| Text ID: | TCH18-0992 | Collected By: | JE |
| Matrix: | Water | COC Initiated: | Yes |
| Bottle Type: | Total Chemistry - 1 L unpreserved plastic | Condition of Seal: | Not Present |
| SDWIS Type: | Private Investigative | | |

**Analysis Method - EPA 375.2**

| | | | |
|---|---|---|---|
| Analyzed By: | Keith Henderson | Reviewed By: | Boyd Neilson |
| Analysis Date: | 06/08/2018 | Reviewed Date: | 06/12/2018 |
| Analysis Batch: | EPA375.2-20180608-1 | Prep Method: | |
| Instrument ID: | CHM_LACHAT_02 | Prep Batch: | |
| | | Prep Date: | |

| Analyte | Result | Dil Fac | Qualifier | MDL | MRL | SRL |
|---|---|---|---|---|---|---|
| Sulfate | 130 mg/L | 1 | | 10.2 mg/L | 20.00 mg/L | 20.0 mg/L |

| | | | |
|---|---|---|---|
| Facility: | N/A | | |
| Sampling Point: | N/A | | |
| Site Description: | 002 | | |
| Sample ID: | 2128767 | Date Collected | 5/29/2018 1:00:00PM |
| Text ID: | UFL18-0238 | Collected By: | JE |
| Matrix: | Water, Non-filtered | COC Initiated: | Yes |
| Bottle Type: | UnFiltered water for Drinking Water | Condition of Seal: | Not Present |
| SDWIS Type: | Private Investigative | | |

**Analysis Method - Turbidity for Metals**

| | | | |
|---|---|---|---|
| Analyzed By: | | Reviewed By: | Kyle Ashby |
| Analysis Date: | | Reviewed Date: | 06/06/2018 |
| Analysis Batch: | | Prep Method: | |
| Instrument ID: | | Prep Batch: | |
| | | Prep Date: | |

| Analyte | Result | Dil Fac | Qualifier | MDL | MRL | SRL |
|---|---|---|---|---|---|---|
| Turbidity | <1 NTU | 1 | | 0.0382 NTU | 1.0 NTU | 1.0 NTU |

**Analysis Method - EPA 200.8**

| | | | |
|---|---|---|---|
| Analyzed By: | Robert Lo | Reviewed By: | Stefan Liao |
| Analysis Date: | 06/04/2018 | Reviewed Date: | 06/13/2018 |
| Analysis Batch: | EPA200.8-20180605-1 | Prep Method: | |
| Instrument ID: | CHM_AGILENT_7700 | Prep Batch: | |
| | | Prep Date: | |

| Analyte | Result | Dil Fac | Qualifier | MDL | MRL | SRL |
|---|---|---|---|---|---|---|
| Selenium | <1.00 µg/L | 1.00 | U | 0.5 µg/L | 1 µg/L | 1.0 µg/L |

| | | | |
|---|---|---|---|
| Facility: | N/A | | |
| Sampling Point: | N/A | | |
| Site Description: | 002 | | |
| Sample ID: | 2128767 (Continued) | Date Collected | 5/29/2018 1:00:00PM |
| Text ID: | UFL18-0238 | Collected By: | JE |
| Matrix: | Water, Non-filtered | COC Initiated: | Yes |
| Bottle Type: | UnFiltered water for Drinking Water | Condition of Seal: | Not Present |
| SDWIS Type: | Private Investigative | | |

**Analysis Method - EPA 200.8**

| | | | |
|---|---|---|---|
| Analyzed By: | Robert Lo | Reviewed By: | Stefan Liao |
| Analysis Date: | 06/04/2018 | Reviewed Date: | 06/13/2018 |
| Analysis Batch: | EPA200.8-20180605-1 | Prep Method: | |
| Instrument ID: | CHM_AGILENT_7700 | Prep Batch: | |
| | | Prep Date: | |

| Analyte | Result | Dil Fac | Qualifier | MDL | MRL | SRL |
|---|---|---|---|---|---|---|
| Aluminum | 789 µg/L | 10.0 | | 5 µg/L | 10 µg/L | 100.0 µg/L |

**Analysis Method - EPA 200.8**

| | | | |
|---|---|---|---|
| Analyzed By: | Robert Lo | Reviewed By: | Stefan Liao |
| Analysis Date: | 06/08/2018 | Reviewed Date: | 06/13/2018 |
| Analysis Batch: | EPA200.8_M-20180608-1 | Prep Method: | |
| Instrument ID: | CHM_AGILENT_7700 | Prep Batch: | |
| | | Prep Date: | |

| Analyte | Result | Dil Fac | Qualifier | MDL | MRL | SRL |
|---|---|---|---|---|---|---|
| Iron | 442 µg/L | 1.00 | | 15 µg/L | 30 µg/L | 30.0 µg/L |

# Report Notes

**Report Comments**

This report contains only the results for analyses requested and tested.
Unless otherwise noted:

- Samples were received in acceptable condition.
- Samples have not been blank corrected.
- All Quality Control Samples processed yielded acceptable results.

**Report Symbol Definitions**

MDL - Method Detection Limit, a statistically estimated concentration for instrument/method/matrix sensitivity.
MRL - Method Reporting Limit, the minimum concentration that can be reported as a quantitated value.
SRL - Sample Reporting Limit, the minimum concentration that can be reported as a quantitated value taking into account limitations inherent in the sample matrix.
ND - Not Detected, tested result was not detected above MDL or MRL.
< - Less than, tested result is less than the numerical value.
U - Not detected/reported

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UTAH DEPARTMENT OF HEALTH

# Final Results

Report To:
Steve Christensen
DEPT OF NATURAL RESOURCES-OGM (WT1177)
1594 W NORTH TEMPLE-SUITE 1210
Salt Lake City, UT 84114

Bill To:
Steve Christensen
DEPT OF NATURAL RESOURCES-OGM
1594 W NORTH TEMPLE-SUIT 1210
Salt Lake City, UT 84114

Project ID: C2018-02256

Steve Christensen,

Your sample(s) submitted to Utah Public Health Laboratory (UPHL) on Monday, June 4, 2018 were assigned the UPHL Project ID **C2018-02256**. Enclosed are the analytical results pertaining to that Project ID.

Herein are the results relating only to the sample(s) received and tested for the project C2018-02256. All associated analyses were performed following the UPHL Quality Assurance Plan. This report and its contents have been reviewed and approved by the appropriate Laboratory Staff and Supervisor(s). This report shall not be reproduced, except in full, without the written permission of UPHL.

If you have any questions regarding your results, please contact UPHL at (801) 965-2400 and reference the Project ID C2018-02256.

Reviewed by: Kyle Ashby
Reviewed on: 6/13/2018

UTAH DEPARTMENT OF HEALTH

# Project Summary

Report To:
Steve Christensen (WT1177)
DEPT OF NATURAL RESOURCES-OGM (WT1177)
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Bill To:
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Salt Lake City, UT 84114

Phone: 801-538-5262
Fax: 801-539-3940
E-mail: stevechristensen@utah.gov

Project ID: C2018-02256

| Sample # | Date Collected | Date Received | Facility | Sampling Point | Site Description |
|---|---|---|---|---|---|
| 2128766 | 05/29/18 | 06/04/18 | N/A | N/A | PRE-002 |
| 2128768 | 05/29/18 | 06/04/18 | N/A | N/A | PRE-002 |

| | |
|---|---|
| Facility: | N/A |
| Sampling Point: | N/A |
| Site Description: | PRE-002 |
| Sample ID: | 2128766 |
| Text ID: | TCH18-0993 |
| Matrix: | Water |
| Bottle Type: | Total Chemistry - 1 L unpreserved plastic |
| SDWIS Type: | Private Investigative |
| Date Collected | 5/29/2018 1:00:00PM |
| Collected By: | JE |
| COC Initiated: | Yes |
| Condition of Seal: | Not Present |

**Analysis Method - EPA 375.2**

| | | | |
|---|---|---|---|
| Analyzed By: | Keith Henderson | Reviewed By: | Boyd Neilson |
| Analysis Date: | 06/08/2018 | Reviewed Date: | 06/12/2018 |
| Analysis Batch: | EPA375.2-20180608-1 | Prep Method: | |
| Instrument ID: | CHM_LACHAT_02 | Prep Batch: | |
| | | Prep Date: | |

| Analyte | Result | Dil Fac | Qualifier | MDL | MRL | SRL |
|---|---|---|---|---|---|---|
| Sulfate | 130 mg/L | 1 | | 10.2 mg/L | 20.00 mg/L | 20.0 mg/L |

| | |
|---|---|
| Facility: | N/A |
| Sampling Point: | N/A |
| Site Description: | PRE-002 |
| Sample ID: | 2128768 |
| Text ID: | UFL18-0239 |
| Matrix: | Water, Non-filtered |
| Bottle Type: | UnFiltered water for Drinking Water |
| SDWIS Type: | Private Investigative |
| Date Collected | 5/29/2018 1:00:00PM |
| Collected By: | JE |
| COC Initiated: | Yes |
| Condition of Seal: | Not Present |

**Analysis Method - Turbidity for Metals**

| | | | |
|---|---|---|---|
| Analyzed By: | | Reviewed By: | Kyle Ashby |
| Analysis Date: | | Reviewed Date: | 06/06/2018 |
| Analysis Batch: | | Prep Method: | |
| Instrument ID: | | Prep Batch: | |
| | | Prep Date: | |

| Analyte | Result | Dil Fac | Qualifier | MDL | MRL | SRL |
|---|---|---|---|---|---|---|
| Turbidity | <1 NTU | 1 | | 0.0382 NTU | 1.0 NTU | 1.0 NTU |

**Analysis Method - EPA 200.8**

| | | | |
|---|---|---|---|
| Analyzed By: | Robert Lo | Reviewed By: | Stefan Liao |
| Analysis Date: | 06/04/2018 | Reviewed Date: | 06/13/2018 |
| Analysis Batch: | EPA200.8-20180605-1 | Prep Method: | |
| Instrument ID: | CHM_AGILENT_7700 | Prep Batch: | |
| | | Prep Date: | |

| Analyte | Result | Dil Fac | Qualifier | MDL | MRL | SRL |
|---|---|---|---|---|---|---|
| Selenium | <1.00 µg/L | 1.00 | U | 0.5 µg/L | 1 µg/L | 1.0 µg/L |

| | | | |
|---|---|---|---|
| Facility: | N/A | | |
| Sampling Point: | N/A | | |
| Site Description: | PRE-002 | | |
| Sample ID: | 2128768 (Continued) | Date Collected | 5/29/2018 1:00:00PM |
| Text ID: | UFL18-0239 | Collected By: | JE |
| Matrix: | Water, Non-filtered | COC Initiated: | Yes |
| Bottle Type: | UnFiltered water for Drinking Water | Condition of Seal: | Not Present |
| SDWIS Type: | Private Investigative | | |

**Analysis Method - EPA 200.8**

| | | | |
|---|---|---|---|
| Analyzed By: | Robert Lo | Reviewed By: | Stefan Liao |
| Analysis Date: | 06/08/2018 | Reviewed Date: | 06/13/2018 |
| Analysis Batch: | EPA200.8_M-20180608-1 | Prep Method: | |
| Instrument ID: | CHM_AGILENT_7700 | Prep Batch: | |
| | | Prep Date: | |

| Analyte | Result | Dil Fac | Qualifier | MDL | MRL | SRL |
|---|---|---|---|---|---|---|
| Iron | 1020 µg/L | 1.00 | | 15 µg/L | 30 µg/L | 30.0 µg/L |

# Report Notes

**Report Comments**

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