



# 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: C2019-00570

Steve Christensen,

Your sample(s) submitted to Utah Public Health Laboratory (UPHL) on Wednesday, February 27, 2019 were assigned the UPHL Project ID **C2019-00570**. 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 C2019-00570. 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 C2019-00570.

A handwritten signature in black ink, appearing to read 'Kyle Ashby', written over a horizontal line.

Reviewed by: Kyle Ashby  
Reviewed on: 3/8/2019



# Project Summary

**Report To:**

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

**Bill To:**

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1594 W NORTH TEMPLE-SUIT 1210  
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E-mail: [stevechristensen@utah.gov](mailto:stevechristensen@utah.gov)

Project ID: C2019-00570

<u>Sample #</u>	<u>Date Collected</u>	<u>Date Received</u>	<u>Facility</u>	<u>Sampling Point</u>	<u>Site Description</u>
2173222	02/26/19	02/27/19	N/A	N/A	002
2173224	02/26/19	02/27/19	N/A	N/A	002

Facility: N/A Sampling Point: N/A Site Description: 002	
Sample ID: 2173222 Text ID: TCH19-0280 Matrix: Water Bottle Type: Total Chemistry - 1 L unpreserved plastic SDWIS Type: Private Investigative	Date Collected 2/26/2019 1:15:00PM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

**Analysis Method - EPA 375.2**

Analyzed By: Keith Henderson Analysis Date: 03/04/2019 Analysis Batch: EPA375.2-20190305-1 Instrument ID: CHM_LACHAT_02	Reviewed By: Aoi Kan Reviewed Date: 03/06/2019 Prep Method: Prep Batch: Prep Date:														
<table border="1"> <thead> <tr> <th>Analyte</th> <th>Result</th> <th>Dil Fac</th> <th>Qualifier</th> <th>MDL</th> <th>MRL</th> <th>SRL</th> </tr> </thead> <tbody> <tr> <td>Sulfate</td> <td>128 mg/L</td> <td>1</td> <td></td> <td>10.2 mg/L</td> <td>20.00 mg/L</td> <td>20.0 mg/L</td> </tr> </tbody> </table>	Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL	Sulfate	128 mg/L	1		10.2 mg/L	20.00 mg/L	20.0 mg/L	
Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL									
Sulfate	128 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: 2173224 Text ID: UFL19-0074 Matrix: Water, Non-filtered Bottle Type: UnFiltered water for Drinking Water SDWIS Type: Private Investigative	Date Collected 2/26/2019 1:15:00PM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

**Analysis Method - Turbidity for Metals**

Analyzed By: Stefan Liao Analysis Date: 02/27/2019 Analysis Batch: EPA180.1_M-20190227-1 Instrument ID:	Reviewed By: Kyle Ashby Reviewed Date: 03/01/2019 Prep Method: Prep Batch: Prep Date:														
<table border="1"> <thead> <tr> <th>Analyte</th> <th>Result</th> <th>Dil Fac</th> <th>Qualifier</th> <th>MDL</th> <th>MRL</th> <th>SRL</th> </tr> </thead> <tbody> <tr> <td>Turbidity</td> <td>&lt;1 NTU</td> <td>1</td> <td></td> <td>.5 NTU</td> <td>1.0 NTU</td> <td>1.0 NTU</td> </tr> </tbody> </table>	Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL	Turbidity	<1 NTU	1		.5 NTU	1.0 NTU	1.0 NTU	
Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL									
Turbidity	<1 NTU	1		.5 NTU	1.0 NTU	1.0 NTU									

**Analysis Method - EPA 200.8**

Analyzed By: Robert Lo Analysis Date: 03/01/2019 Analysis Batch: EPA200.8-20190301-1 Instrument ID: CHM_AGILENT_7700	Reviewed By: Stefan Liao Reviewed Date: 03/01/2019 Prep Method: Prep Batch: Prep Date:														
<table border="1"> <thead> <tr> <th>Analyte</th> <th>Result</th> <th>Dil Fac</th> <th>Qualifier</th> <th>MDL</th> <th>MRL</th> <th>SRL</th> </tr> </thead> <tbody> <tr> <td>Selenium</td> <td>&lt;1.00 µg/L</td> <td>1.00</td> <td>U</td> <td>0.5 µg/L</td> <td>1 µg/L</td> <td>1.0 µg/L</td> </tr> </tbody> </table>	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	
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									

# Analytical Report

Facility: N/A Sampling Point: N/A Site Description: 002	
Sample ID: 2173224 (Continued) Text ID: UFL19-0074 Matrix: Water, Non-filtered Bottle Type: UnFiltered water for Drinking Water SDWIS Type: Private Investigative	Date Collected 2/26/2019 1:15:00PM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

**Analysis Method - EPA 200.8**

Analyzed By: Robert Lo Analysis Date: 03/04/2019 Analysis Batch: EPA200.8-20190304-1 Instrument ID: CHM_AGILENT_7700	Reviewed By: Stefan Liao Reviewed Date: 03/04/2019 Prep Method: Prep Batch: Prep Date:														
<table border="1"> <thead> <tr> <th>Analyte</th> <th>Result</th> <th>Dil Fac</th> <th>Qualifier</th> <th>MDL</th> <th>MRL</th> <th>SRL</th> </tr> </thead> <tbody> <tr> <td>Aluminum</td> <td>&lt;10.0 µg/L</td> <td>1.00</td> <td>U</td> <td>5 µg/L</td> <td>10 µg/L</td> <td>10.0 µg/L</td> </tr> </tbody> </table>	Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL	Aluminum	<10.0 µg/L	1.00	U	5 µg/L	10 µg/L	10.0 µg/L	
Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL									
Aluminum	<10.0 µg/L	1.00	U	5 µg/L	10 µg/L	10.0 µg/L									

**Analysis Method - EPA 200.8**

Analyzed By: Robert Lo Analysis Date: 02/28/2019 Analysis Batch: EPA200.8_M-20190301-1 Instrument ID: CHM_AGILENT_7700	Reviewed By: Stefan Liao Reviewed Date: 03/01/2019 Prep Method: Prep Batch: Prep Date:														
<table border="1"> <thead> <tr> <th>Analyte</th> <th>Result</th> <th>Dil Fac</th> <th>Qualifier</th> <th>MDL</th> <th>MRL</th> <th>SRL</th> </tr> </thead> <tbody> <tr> <td>Iron</td> <td>871 µg/L</td> <td>1.00</td> <td></td> <td>15 µg/L</td> <td>30 µg/L</td> <td>30.0 µg/L</td> </tr> </tbody> </table>	Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL	Iron	871 µg/L	1.00		15 µg/L	30 µg/L	30.0 µg/L	
Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL									
Iron	871 µg/L	1.00		15 µg/L	30 µg/L	30.0 µg/L									

## 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



# 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: C2019-00571

Steve Christensen,

Your sample(s) submitted to Utah Public Health Laboratory (UPHL) on Wednesday, February 27, 2019 were assigned the UPHL Project ID **C2019-00571**. 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 C2019-00571. 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 C2019-00571.

A handwritten signature in black ink, appearing to read 'Kyle Ashby', written over a horizontal line.

Reviewed by: Kyle Ashby  
Reviewed on: 3/8/2019



# Project Summary

**Report To:**

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E-mail: [stevechristensen@utah.gov](mailto:stevechristensen@utah.gov)

Project ID: C2019-00571

<u>Sample #</u>	<u>Date Collected</u>	<u>Date Received</u>	<u>Facility</u>	<u>Sampling Point</u>	<u>Site Description</u>
2173223	02/26/19	02/27/19	N/A	N/A	PRE-002
2173225	02/26/19	02/27/19	N/A	N/A	PRE-002

Facility: N/A Sampling Point: N/A Site Description: PRE-002	
Sample ID: 2173223 Text ID: TCH19-0281 Matrix: Water Bottle Type: Total Chemistry - 1 L unpreserved plastic SDWIS Type: Private Investigative	Date Collected 2/26/2019 1:15:00PM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

**Analysis Method - EPA 375.2**

Analyzed By: Keith Henderson Analysis Date: 03/04/2019 Analysis Batch: EPA375.2-20190305-1 Instrument ID: CHM_LACHAT_02		Reviewed By: Aoi Kan Reviewed Date: 03/06/2019 Prep Method: Prep Batch: Prep Date:				
Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL
Sulfate	127 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: 2173225 Text ID: UFL19-0075 Matrix: Water, Non-filtered Bottle Type: UnFiltered water for Drinking Water SDWIS Type: Private Investigative	Date Collected 2/26/2019 1:15:00PM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

**Analysis Method - Turbidity for Metals**

Analyzed By: Stefan Liao Analysis Date: 02/27/2019 Analysis Batch: EPA180.1_M-20190227-1 Instrument ID:		Reviewed By: Kyle Ashby Reviewed Date: 03/01/2019 Prep Method: Prep Batch: Prep Date:				
Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL
Turbidity	<1 NTU	1		.5 NTU	1.0 NTU	1.0 NTU

**Analysis Method - EPA 200.8**

Analyzed By: Robert Lo Analysis Date: 03/01/2019 Analysis Batch: EPA200.8-20190301-1 Instrument ID: CHM_AGILENT_7700		Reviewed By: Stefan Liao Reviewed Date: 03/01/2019 Prep Method: 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

# Analytical Report

Facility: N/A Sampling Point: N/A Site Description: PRE-002	
Sample ID: 2173225 (Continued) Text ID: UFL19-0075 Matrix: Water, Non-filtered Bottle Type: UnFiltered water for Drinking Water SDWIS Type: Private Investigative	Date Collected 2/26/2019 1:15:00PM Collected By: JE COC Initiated: Yes Condition of Seal: Not Present

**Analysis Method - EPA 200.8**

Analyzed By: Robert Lo Analysis Date: 02/28/2019 Analysis Batch: EPA200.8_M-20190301-1 Instrument ID: CHM_AGILENT_7700	Reviewed By: Stefan Liao Reviewed Date: 03/01/2019 Prep Method: Prep Batch: Prep Date:
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Analyte	Result	Dil Fac	Qualifier	MDL	MRL	SRL
Iron	930 µg/L	1.00		15 µg/L	30 µg/L	30.0 µg/L

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