

ANALYSIS FOR WATERBORNE PARTICULATES

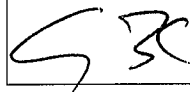
CH Diagnostic and Consulting Service, Inc.
512 5th Street, Berthoud, CO 80513
P: (970) 532-2078 F: (970) 532-3358

Invoice 20140531

Customer 20001144
AAA Operations, Inc.
48 Millcreek Rd
P.O. Box 134
Dumont, CO 80436
PWSID# CO 0159119

Laboratory Information

UPS; 9/19/2014; 1310 Hrs; 8.8°C; Wound
Results submitted by:



Sample Identification: Alpensee Plant, Pump Station, Well #1

Sample Information: SOURCE: Drilled Well; 1/4 mile from surface water; 50' deep; Unchlorinated; pH 7.75 → pH 7.78; 9.4°C → 9.3°C, DISINFECTION: Post-chlorination

Sample Date & Time: 9/17/2014 10:00 PM → 9/18/2014 02:00 PM

Sampler: Shay Sims

Amount: 2308.85 L (610 gal)

Filter Color: Tan

Filter Type: Polypropylene wound cartridge

Date/Time Eluted: 9/19/2014 01:21 PM

Centrifugate: 0.0026 mL/100 L

RESULTS OF MICROSCOPIC PARTICULATE ANALYSIS

Amount of sample assayed: 28 L

Amorphous Debris	inorganic precipitate, clay (1-2 µm), silt (2-50 µm), aggregates
Algae	ND
Diatoms	ND
Plant debris	ND
Rotifers	ND
Nematodes	ND
Pollen (pine)	ND
Ameba	ND
Ciliates	ND
Colorless Flagellates	ND
Crustaceans	ND
Other Arthropods	ND
Other	ND

Giardia and *Coccidia* are none detected (ND) by MPA unless reported under "Other".

This sample was analyzed for particulates following the Environmental Protection Agency Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA). 1992. USEPA, Port Orchard, WA, EPA 910/9-92-029. All limitations stated in the methods apply. If HV capsule or foam filter was received, method was modified by filtering sample through a Pall Envirochek™ HV capsule or IDEXX Filta-Max™ filter at the sample site. If *Giardia* and *Cryptosporidium* Analysis was also performed, particulate extraction was modified.

COMMENTS: Score: 0-Low Risk per EPA Consensus Method referenced above.

LABORATORY ANALYTICAL REPORT

Customer 20001144
AAA Operations, Inc.
48 Mill Creek Rd., PO Box 134
Dumont, CO 80436
PWSID #: CO 0159119

Invoice Number: 20140531
Received Date & Time: 9/19/2014 1:10PM
Arrival Temperature: 7.8°C

Sample Identification: Alpensee Water Plant, Well #1

Sample Information: Source: Drilled Well; 1/4 mile from surface water; 50' deep;

Unchlorinated; DISINFECTION: Post-chlorination

Sample Date & Time: 9/18/2014 11:35AM

Sampler: Shay Sims

Volume Sampled: 100 mL

Sample Type: Grab

Processing Date & Time: 9/19/2014 4:28PM

Analytical Method: Evaluating plant performance with endospores. J. AWWA 88(9)

Start Date & Time: 9/23/2014 9:14PM

Amount Analyzed: 100 mL

Stop Date & Time: 9/24/2014 9:14PM

Dilution factor: N/A

Analytical Results:

Endospores: 1 CFU/100 mL

Reporting Limit: 1.0

This sample was analyzed for the presence of Aerobic Endospores by the method outlined in the following article:
Rice, Eugene W., Kim R. Fox, Richard J. Miltner, Darren A. Lytle and Clifford H. Johnson. 1996. Evaluating plant performance with endospores. J. AWWA 88(9): 122-130.



Report Approved By

CH Diagnostic Consulting Service, Inc.
512 5th Street, Berthoud CO 80513
PH: (970) 532 2078 FX: (970) 532 3358

LABORATORY ANALYTICAL REPORT

Customer 20001144
AAA Operations, Inc.
48 Mill Creek Rd., PO Box 134
Dumont, CO 80436
PWSID #: CO 0159119

Invoice Number: 20140531
Received Date & Time: 9/19/2014 1:10PM
Arrival Temperature: 7.6°C

Sample Identification: Alpensee Water Plant, Well #2

Sample Information:

Sample Date & Time: 9/18/2014 11:50AM

Sampler: Shay Sims

Volume Sampled: 100 mL

Sample Type: Grab

Processing Date & Time: 9/19/2014 4:28PM

Analytical Method: Evaluating plant performance with endospores. J. AWWA 88(9)

Start Date & Time: 9/23/2014 9:14PM

Amount Analyzed: 100 mL

Stop Date & Time: 9/24/2014 9:14PM

Dilution factor: N/A

Analytical Results:

Endospores: 1 CFU/100 mL

Reporting Limit: 1.0

This sample was analyzed for the presence of Aerobic Endospores by the method outlined in the following article:
Rice, Eugene W., Kim R. Fox, Richard J. Miltner, Darren A. Lytle and Clifford H. Johnson. 1996. Evaluating plant performance with endospores. J. AWWA 88(9): 122-130.



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LABORATORY ANALYTICAL REPORT

Customer 20001144
AAA Operations, Inc.
48 Mill Creek Rd., PO Box 134
Dumont, CO 80436
PWSID #: CO 0159119

Invoice Number: 20140531
Received Date & Time: 9/19/2014 1:10PM
Arrival Temperature: 7.4°C

Sample Identification: Alpensee Water Plant, Dillon Reservoir

Sample Information:

Sample Date & Time: 9/18/14 12:10PM

Sampler: Shay Sims

Volume Sampled: 100 mL

Sample Type: Grab

Processing Date & Time: 9/19/2014 4:28PM

Analytical Method: Evaluating plant performance with endospores. J. AWWA 88(9)

Start Date & Time: 9/23/2014 9:14AM

Amount Analyzed: 10 mL

Stop Date & Time: 9/24/2014 9:14AM

Dilution factor: N/A

Analytical Results:

Endospores: 600 CFU/100 mL

Reporting Limit: 1.0

This sample was analyzed for the presence of Aerobic Endospores by the method outlined in the following article:
Rice, Eugene W., Kim R. Fox, Richard J. Miltner, Darren A. Lytle and Clifford H. Johnson. 1996. Evaluating plant performance with endospores. J. AWWA 88(9): 122-130.



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LABORATORY ANALYTICAL REPORT

Customer 20001144
AAA Operations, Inc.
48 Millcreek Rd.
Dumont, CO 80436
PWSID: CO 0159119

Invoice Number: 20140531
Received Date & Time: 9/19/2014 13:10PM
Arrival Temperature: 7.2°C

Sample Identification: Alpensee Pump Station; Well #1

Sample Information: Source: Drilled Well; 1/4 mile from surface water; 50' deep;
Unchlorinated

Sample Date & Time: 9/18/2014 11:20AM

Sampler: Shay Sims

Volume Sampled: 100ml

Sample Type: Grab

Processing Date & Time: 9/19/2014 2:20PM

Analytical Method: 9223B, IDEXX Colilert® with QuantiTray® 2000

Start Date & Time: 9/19/2014 2:20PM

Amount Analyzed: 100ml

Stop Date & Time: 9/20/2014 2:20PM

Additional Start Date & Time: N/A

Dilution factor: N/A

Additional Stop Date & Time: N/A

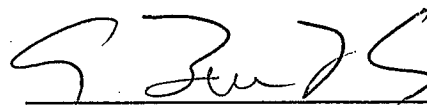
Analytical Results:

***E. coli* coliform:** 0 MPN/100ml

Analyte Reporting Limit: 1.0

Coliform bacteria: 0 100ml

This sample was analyzed for the presence of *Escherichia coli* (*E. coli*) by the method outlined in: Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998, 9223 B, Enzyme Substrate Test. All limitations stated in the method apply.



Report Approved By

Procedent 10/19/14

Title

Date

CH Diagnostic Consulting Service, Inc.
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LABORATORY ANALYTICAL REPORT

Customer 20001144
AAA Operations, Inc.
48 Millcreek Rd.
Dumont, CO 80436
PWSID: CO 0159119

Invoice Number: 20140531
Received Date & Time: 9/19/2014 13:10PM
Arrival Temperature: 8.2°C

Sample Identification: Alpensee Pump Station; Well #2

Sample Information: Source: Drilled Well; 1/4 mile from surface water; 50' deep;
Unchlorinated

Sample Date & Time: 9/18/2014 11:25AM

Sampler: Shay Sims

Volume Sampled: 100ml

Sample Type: Grab

Processing Date & Time: 9/19/2014 2:20PM

Analytical Method: 9223B, IDEXX Colilert® with QuantiTray® 2000

Start Date & Time: 9/19/2014 2:20PM

Amount Analyzed: 100ml

Stop Date & Time: 9/20/2014 2:20PM

Additional Start Date & Time: N/A

Dilution factor: N/A

Additional Stop Date & Time: N/A

Analytical Results:

***E. coli* coliform:** 0 MPN/100ml

Analyte Reporting Limit: 1.0

Coliform bacteria: 0 100ml

This sample was analyzed for the presence of *Escherichia coli* (*E. coli*) by the method outlined in: Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998, 9223 B, Enzyme Substrate Test. All limitations stated in the method apply.


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Title

Date

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