



Analytica Group, LLC-Thornton
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10/28/2014

NGL Water Solutions
8207 W 20 St
Greeley, CO 80634
Attn: Joan Chavez

Work Order #: B1410132
Date: 10/28/2014
Work ID: TDS Initial
Date Received: 10/20/2014
Proj #: None

Sample Identification

Lab Sample Number	Client Description	Lab Sample Number	Client Description
B1410132-01	C1 Post Filter	B1410132-02	C2 Post Filter
B1410132-03	C3 Post Filter	B1410132-04	C4 Post Filter
B1410132-05	C8 Post Filtration		

Enclosed are the analytical results for the submitted sample(s). Please review the CASE NARRATIVE for a discussion of any data and/or quality control issues. Listings of data qualifiers, analytical codes, key dates, and QC relationships are provided at the end of the report.

Sincerely,

Carissa Cumine
Project Manager

"The Science of Analysis, The Art of Service"

Case Narrative

Analytica Group, LLC - Thornton
Work Order: B1410132

Samples were prepared and analyzed according to EPA or equivalent methods outlined in the following references:

Standard Methods for the Examination of Water and Wastewater, 21st Edition, 2005.

SAMPLE RECEIPT:

Five (5) samples were received on 10/20/2014 4:11:00 PM at ambient temperature at Analytica-Thornton. The samples were received in good condition and in order per chain of custody.

REVIEW FOR COMPLIANCE WITH ANALYTICA QA PLAN

A summary of our review is shown below.

All analytical results contained in this report have been reviewed under Analytica's internal quality assurance and quality control program. Any deviations in quality control parameters for specific analyses are noted in the following text. A complete quality assurance report, including laboratory control, matrix spike, and sample duplicate recoveries is kept on file in our office and is available upon request.

All method specifications were met for the following tests, unless otherwise noted:

Test Method: SM2540C - Total Dissolved Solids dried at 180°C - SM-TDS - Aqueous

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1410132

Project: TDS Initial

Client: NGL Water Solutions

Client Project Number: None

Report Section: Client Sample Report

Client Sample Name: C1 Post Filter

Matrix: Aqueous

Collection Date: 10/20/2014 2:44:00PM

The following test was conducted by: Analytica - Thornton

Lab Sample Number: B1410132-01A

Analysis Date: 10/24/2014 4:51:03PM

Prep Date: 10-23-2014 15:10

Instrument: SCALE

Analytical Method ID: SM2540C - Total Dissolved Solids dried at 180°C - SM-TDS

File Name:

Prep Method ID: 2540C

Dilution Factor: 1

Prep Batch Number: T141024003

Report Basis: As Received

Analyst Initials: MN

Sample prep wt./vol: 15.00 ml

Prep Extract Vol: 1.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Total Dissolved Solids		40,500		mg/L	67	55	1

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1410132

Project: TDS Initial

Client: NGL Water Solutions

Client Project Number: None

QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: 165,310

Lab Project Number: B1410132

Prep Date: 10/23/2014

Lab Method Blank Id: T141024003-MB

Prep Batch ID: T141024003

Method: SM2540C - Total Dissolved Solids dried at 180°C - SM-TDS

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

<u>SampleNum</u>	<u>ClientSampleName</u>	<u>DataFile</u>	<u>AnalysisDate</u>
B1410132-01A	C1 Post Filter		10/24/2014 4:51:03PM
B1410132-02A	C2 Post Filter		10/24/2014 4:51:03PM
B1410132-03A	C3 Post Filter		10/24/2014 4:51:03PM
B1410132-04A	C4 Post Filter		10/24/2014 4:51:03PM
B1410132-05A	C8 Post Filtration		10/24/2014 4:51:03PM
B1410135-01A	Batch QC		10/24/2014 4:51:03PM
T141024003-LCS	LCS		10/24/2014 4:51:03PM
B1410135-01A-DUP	DUP		10/24/2014 4:51:03PM
B1410135-01A-MS	MS		10/24/2014 4:51:03PM

Detailed Analytical Report

Analytica Group, LLC - Thornton

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Client Project Number: None

DATA FLAGS AND DEFINITIONS

The PQL is the Method Quantitation Limit as defined by USACE.

Reporting Limit: Limit below which results are shown as "ND". This may be the PQL, MDL, or a value between. See the report conventions below.

Result Field:

ND = Not Detected at or above the Reporting Limit
NA = Analyte not applicable (see Case Narrative for discussion)

Qualifier Fields:

LOW = Recovery is below Lower Control Limit
HIGH = Recovery, RPD, or other parameter is above Upper Control Limit
E = Reported concentration is above the instrument calibration upper range

Organic Analysis Flags:

B = Analyte was detected in the laboratory method blank
J = Analyte was detected above MDL or Reporting Limit but below the Quant Limit (PQL)

Inorganic Analysis Flags:

J = Analyte was detected above the Reporting Limit but below the Quant Limit (PQL)
W = Post digestion spike did not meet criteria
S = Reported value determined by the Method of Standard Additions (MSA)

Several ways of defining the limit of detection and quantitation are prevalent in the laboratory industry and may appear in Analytica reports. These include the following:

MRL = "minimum reporting level", from the EPA Safe Drinking Water program (SDW)
PQL = "practical quantitation limit", from SW-846
EQL = "estimated quantitation limit", from SW-846
LOQ = "limit of quantitation", from a number of authoritative sources

In Analytica's work, all of these terms have the same meaning, equivalent to the EPA definition of the MRL. This reporting level is supported by a satisfactory calibration data point which is at that level or lower, and also is supported by a method detection limit (MDL) determined by the procedure in 40CFR. The MDL is lower than the MRL and represents an estimate of the level where positive detections have a 99% probability of being real, but where quantitation accuracy is unknown.

The MRL as defined by Analytica is the lowest demonstrated point of known quantitation accuracy.

The MRL should not be confused with the MCL, which is the EPA-defined "maximum contaminant level" allowed for certain regulated targets under specific regulations, such as the National Primary Drinking Water Regulations. Normally, the MRL is set at a level which is much lower than the MCL in order to ensure that levels are well below those limits. Not all target analytes have MCL levels established.

Other Flags may be applied. See Case Narrative for Description

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): B1410132

Project: TDS Initial

Client: NGL Water Solutions

Client Project Number: None

REPORTING CONVENTIONS FOR THIS REPORT

B1410132

<u>TestPkgName</u>	<u>Basis</u>	<u># Sig Figs</u>	<u>Reporting Limit</u>
2540C/2540C (Aqueous) - SM-TDS	As Received	3	Report to PQL

