

June 01, 2021

**Impetro Resources**

**Sam Bradley**

**2820 Logan Dr.**

**Loveland**

**CO 80538**

**Project Name - Christianson #32-12**

**Project Number - [none]**

Attached are your analytical results for Christianson #32-12 received by Origins Laboratory, Inc. May 20, 2021. This project is associated with Origins project number Y105403-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Impetro Resources  
2820 Logan Dr.  
Loveland CO 80538

Sam Bradley  
Project Number: [none]  
Project: Christianson #32-12

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
159103 Christianson 32-12	Y105403-01	Water	May 20, 2021 9:55	05/20/2021 16:50

Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Sam Bradley  
 Project Number: [none]  
 Project: Christianson #32-12

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y105403

Client: Impetro

Client Project ID: Christianson 32-12

Checklist Completed by: JG

Shipped Via: HA

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/21/21

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other

Cooler Number/Temperature: 1, 38.1 °C / °C / °C (Describe) °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date,time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by Jm (Project Manager)

5-24-21  
 Date/Time Reviewed

Origins Laboratory, Inc.



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Impetro Resources  
 2820 Logan Dr.  
 Loveland CO 80538

Sam Bradley  
 Project Number: [none]  
 Project: Christianson #32-12

**159103 Christianson 32-12**  
**5/20/2021 9:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y105403-01 (Water)**

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	1330	5.00	mg/L	1	B1E2515	SCL	05/25/2021	05/26/2021	
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**Total Metals by EPA 200.8**

Barium	0.0910	0.00400	mg/L	1	2131240	SKJ	05/24/2021	05/25/2021	
Boron	0.965	0.300	"	20	"	SKJ	"	"	
Calcium	2.24	0.200	"	1	"	SKJ	"	"	
Iron	0.548	0.100	"	"	"	SKJ	"	"	
Magnesium	0.490	0.0300	"	"	"	SKJ	"	"	
Manganese	0.0124	0.00500	"	"	"	SKJ	"	"	
Potassium	2.89	0.300	"	"	"	SKJ	"	"	
Selenium	ND	0.00500	"	"	"	SKJ	"	"	U
Sodium	566	5.00	"	20	"	SKJ	"	"	
Strontium	0.0856	0.0100	"	1	"	SKJ	"	"	

Origins Laboratory, Inc.



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 Loveland CO 80538

Sam Bradley  
 Project Number: [none]  
 Project: Christianson #32-12

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1E2515 - NO PREP</b>										
<b>Blank (B1E2515-BLK1)</b>					Prepared: 05/25/2021 Analyzed: 05/26/2021					
Total Dissolved Solids	ND	5.00	mg/L							
<b>LCS (B1E2515-BS1)</b>					Prepared: 05/25/2021 Analyzed: 05/26/2021					
Total Dissolved Solids	762	5.00	mg/L	716		106	85-115			
<b>Duplicate (B1E2515-DUP1)</b>		<b>Source: Y105396-01</b>			Prepared: 05/25/2021 Analyzed: 05/26/2021					
Total Dissolved Solids	1380	5.00	mg/L		1320			4.00	20	

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 Loveland CO 80538

Sam Bradley  
 Project Number: [none]  
 Project: Christianson #32-12

**Total Metals by EPA 200.8 - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2131240 - EPA 200.2**

**BLANK (1204828513-BLK)**

Prepared: 05/24/2021 Analyzed: 05/25/2021

Potassium	ND	0.300	mg/L				-			U
Strontium	ND	0.0100	"				-			U
Selenium	ND	0.00500	"				-			U
Manganese	ND	0.00500	"				-			U
Magnesium	ND	0.0300	"				-			U
Iron	ND	0.100	"				-			U
Calcium	ND	0.200	"				-			U
Boron	ND	0.0150	"				-			U
Barium	ND	0.00400	"				-			U
Sodium	ND	0.250	"				-			U

**LCS (1204828514-BKS)**

Prepared: 05/24/2021 Analyzed: 05/25/2021

Strontium	0.0489	0.0100	mg/L	0.0500		97.7	85-115			
Barium	0.0516	0.00400	"	0.0500		103	85-115			
Boron	0.108	0.0150	"	0.100		108	85-115			
Calcium	2.12	0.200	"	2.00		106	85-115			
Iron	2.03	0.100	"	2.00		102	85-115			
Magnesium	2.06	0.0300	"	2.00		103	85-115			
Manganese	0.0505	0.00500	"	0.0500		101	85-115			
Potassium	1.99	0.300	"	2.00		99.5	85-115			
Selenium	0.0516	0.00500	"	0.0500		103	85-115			
Sodium	2.06	0.250	"	2.00		103	85-115			

**DUP (1204828515 D)**

Source: 545370001

Prepared: 05/24/2021 Analyzed: 05/25/2021

Sodium	631	5.00	mg/L		653		0-20	3.42	20	
Strontium	0.713	0.0100	"		0.735		0-20	3.07	20	
Selenium	ND	0.00500	"		<0.00200		0-20	31.4	20	U

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 Loveland CO 80538

Sam Bradley  
 Project Number: [none]  
 Project: Christianson #32-12

**Total Metals by EPA 200.8 - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 2131240 - EPA 200.2**

**DUP (1204828515 D)**

**Source: 545370001**

Prepared: 05/24/2021 Analyzed: 05/25/2021

Potassium	2.73	0.300	mg/L		2.83		0-20	3.66	20	
Manganese	0.0119	0.00500	"		0.0125		0-20	4.92	20	
Magnesium	0.776	0.0300	"		0.802		0-20	3.29	20	
Iron	0.749	0.100	"		0.779		0-20	3.9	20	
Calcium	4.73	0.200	"		4.89		0-20	3.32	20	
Boron	0.422	0.0750	"		0.456		0-20	7.77	20	
Barium	0.611	0.00400	"		0.651		0-20	6.27	20	

**MS (1204828516 S)**

**Source: 545370001**

Prepared: 05/24/2021 Analyzed: 05/25/2021

Strontium	0.767	0.0100	mg/L	0.0500	0.735	0	75-125			
Boron	0.550	0.0750	"	0.100	0.456	0	75-125			
Calcium	6.82	0.200	"	2.00	4.89	96.6	75-125			
Iron	2.62	0.100	"	2.00	0.779	92	75-125			
Magnesium	2.63	0.0300	"	2.00	0.802	91.4	75-125			
Manganese	0.0575	0.00500	"	0.0500	0.0125	90	75-125			
Potassium	4.67	0.300	"	2.00	2.83	92	75-125			
Selenium	0.0432	0.00500	"	0.0500	<0.00200	85.8	75-125			
Sodium	626	5.00	"	2.00	653	0	75-125			
Barium	0.674	0.00400	"	0.0500	0.651	0	75-125			

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Sam Bradley  
Project Number: [none]  
Project: Christianson #32-12

---

**Notes and Definitions**

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

### Origins Laboratory

Y105403

SGS Job Number: DA34661

Sampling Date: 05/20/21

#### Report to:

Origins Laboratory  
1725 Elk Place  
Denver, CO 80211  
ndoyle@originslab.com; jpellegrini@originslab.com;  
jmerrill@originslab.com; jmerrill@originslab.com  
ATTN: Noelle Doyle

Total number of pages in report: 14



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



**Jason Savoie**  
General Manager

**Client Service contact: Carissa Cumine 303-425-6021**

Certifications: CO (CO00049), NE (NE-OS-06-04), ND (R-027), UT (NELAP CO00049)  
LA (LA150028), TX (T104704511), WY (8TMS-L)

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Test results relate only to samples analyzed.

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## Sample Summary

Origins Laboratory

Job No: DA34661

Y105403

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
DA34661-1	05/20/21	09:55	05/21/21	AQ	Water	Y105403-01

## CASE NARRATIVE / CONFORMANCE SUMMARY

2

**Client:** Origins Laboratory

**Job No:** DA34661

**Site:** Y105403

**Report Date** 5/28/2021 4:57:28 PM

On 05/21/2021, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 5.8 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA34661 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### General Chemistry By Method EPA300.0

**Matrix:** AQ

**Batch ID:** GP29169

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA34631-2MS, DA34631-2MSD were used as the QC samples for the Bromide, Chloride, Fluoride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Bromide analysis.
- DA34661-1 for Nitrogen, Nitrate: Elevated detection limit due to matrix interference.
- DA34661-1 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Friday, May 28, 2021

Page 1 of 1

## Summary of Hits

**Job Number:** DA34661  
**Account:** Origins Laboratory  
**Project:** Y105403  
**Collected:** 05/20/21



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>DA34661-1</b>	<b>Y105403-01</b>					
Fluoride		4.2	0.50	0.25	mg/l	EPA300.0
Chloride		205	50	40	mg/l	EPA300.0
Bromide		1.3	0.25	0.13	mg/l	EPA300.0
Sulfate		31.3	2.5	2.0	mg/l	EPA300.0

Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> Y105403-01 <b>Lab Sample ID:</b> DA34661-1 <b>Matrix:</b> AQ - Water <b>Project:</b> Y105403	<b>Date Sampled:</b> 05/20/21 <b>Date Received:</b> 05/21/21 <b>Percent Solids:</b> n/a
--	---

### General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
<b>300.0</b>								
Fluoride	4.2	0.50	0.25	mg/l	5	05/21/21 17:47	JB	EPA300.0
Chloride	205	50	40	mg/l	100	05/21/21 18:01	JB	EPA300.0
Nitrogen, Nitrite <sup>a</sup>	0.015 U	0.020	0.015	mg/l	5	05/21/21 17:47	JB	EPA300.0
Bromide	1.3	0.25	0.13	mg/l	5	05/21/21 17:47	JB	EPA300.0
Nitrogen, Nitrate <sup>a</sup>	0.030 U	0.050	0.030	mg/l	5	05/21/21 17:47	JB	EPA300.0
Sulfate	31.3	2.5	2.0	mg/l	5	05/21/21 17:47	JB	EPA300.0

(a) Elevated detection limit due to matrix interference.

RL = Reporting Limit  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 B = Indicates a result > = MDL but < RL

4.1  
4

Misc. Forms

Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



Your Lab's letterhead here...

Address City, St. Zip

Phone/Fax

SUBCONTRACT ORDER

DA34661

Sending Laboratory:

Origins Laboratory, Inc.
1725 West Elk Place
Denver, CO 80211
Phone: 303.433.1322
Fax: 303.265.9645
Project Manager: Noelle Doyle Mathis

Subcontracted Laboratory:

Accutest Laboratories
4036 Youngfield St.
Wheat Ridge, CO 80033
Phone: (303) 425-6021
Fax: (303) 425-6854

Work Order: Y105403

Table with columns: Analysis, Due, Expires, Comments. Row 1: Sample ID: Y105403-01, Water, Sampled: 05/20/2021 09:55, 01

Table with columns: Analysis, Due, Expires, Comments. Rows for Nitrite, Nitrate, Fluoride, Chloride, Sulfate, Bromide by 300.0.

Containers Supplied:

S.8 7080

Released By [Signature] Date 5/21/21 Received By [Signature] Date 5/21/21

# SGS Sample Receipt Summary

**Job Number:** DA34661

**Client:** ORIGINS LABORATORY

**Project:** Y105403

**Date / Time Received:** 5/21/2021 1:05:00 PM

**Delivery Method:**

**Airbill #'s:** HD

**Cooler Temps (Initial/Adjusted):** #1: (5.8/5.8):

**Cooler Security**

Y or N

- 1. Custody Seals Present:
- 2. Custody Seals Intact:

- Y or N
- 3. COC Present:
  - 4. Smpl Dates/Time OK:

**Cooler Temperature**

Y or N

- 1. Temp criteria achieved:
- 2. Cooler temp verification: IR Gun;
- 3. Cooler media: Ice (Bag)
- 4. No. Coolers: 1

**Quality Control Preservation**

Y or N N/A

- 1. Trip Blank present / cooler:
- 2. Trip Blank listed on COC:
- 3. Samples preserved properly:
- 4. VOCs headspace free:

Comments

**Sample Integrity - Documentation**

Y or N

- 1. Sample labels present on bottles:
- 2. Container labeling complete:
- 3. Sample container label / COC agree:

**Sample Integrity - Condition**

Y or N

- 1. Sample recvd within HT:
- 2. All containers accounted for:
- 3. Condition of sample: Intact

**Sample Integrity - Instructions**

Y or N N/A

- 1. Analysis requested is clear:
- 2. Bottles received for unspecified tests:
- 3. Sufficient volume recvd for analysis:
- 4. Compositing instructions clear:
- 5. Filtering instructions clear:

5.1  
5

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
 GENERAL CHEMISTRY

Login Number: DA34661  
 Account: ORIGLCOD - Origins Laboratory  
 Project: Y105403

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bromide	GP29169/GN53299	0.050	0.0	mg/l	0.5	0.458	91.6	90-110%
Chloride	GP29169/GN53299	0.50	0.0	mg/l	5	5.36	107.2	90-110%
Fluoride	GP29169/GN53299	0.10	0.0	mg/l	1	0.922	92.2	90-110%
Nitrogen, Nitrate	GP29169/GN53299	0.010	0.0	mg/l	0.1	0.101	101.0	90-110%
Nitrogen, Nitrite	GP29169/GN53299	0.0040	0.0	mg/l	0.05	0.0484	96.8	90-110%
Sulfate	GP29169/GN53299	0.50	0.0	mg/l	5	4.76	95.2	90-110%

Associated Samples:  
 Batch GP29169: DA34661-1  
 (\*) Outside of QC limits

6.1  
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MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA34661  
Account: ORIGLCOD - Origins Laboratory  
Project: Y105403

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Bromide	GP29169/GN53299	DA34631-2	mg/l	0.15	12.5	11.8	94.4	80-120%
Bromide	GP29169/GN53299	DA34631-2	mg/l	0.63 U	12.5	11.8	94.4	80-120%
Chloride	GP29169/GN53299	DA34631-2	mg/l	41.6	125	180	101.4	80-120%
Chloride	GP29169/GN53299	DA34631-2	mg/l	53.3	125	180	101.4	80-120%
Fluoride	GP29169/GN53299	DA34631-2	mg/l	1.3 U	25	24.5	98.0	80-120%
Fluoride	GP29169/GN53299	DA34631-2	mg/l	0.15	25	24.5	98.0	80-120%
Nitrogen, Nitrate	GP29169/GN53299	DA34631-2	mg/l	3.1	2.5	5.6	100.0	80-120%
Nitrogen, Nitrate	GP29169/GN53299	DA34631-2	mg/l	3.3	2.5	5.6	100.0	80-120%
Nitrogen, Nitrite	GP29169/GN53299	DA34631-2	mg/l	0.0030 U	1.25	1.2	96.0	80-120%
Sulfate	GP29169/GN53299	DA34631-2	mg/l	15.4	125	137	97.3	80-120%
Sulfate	GP29169/GN53299	DA34631-2	mg/l	12.5	125	137	97.3	80-120%

Associated Samples:

Batch GP29169: DA34661-1

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

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MATRIX SPIKE DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: DA34661  
Account: ORIGLCOD - Origins Laboratory  
Project: Y105403

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Bromide	GP29169/GN53299	DA34631-2	mg/l	0.15	12.5	11.9	0.8	20%
Bromide	GP29169/GN53299	DA34631-2	mg/l	0.63 U	12.5	11.9	0.8	20%
Chloride	GP29169/GN53299	DA34631-2	mg/l	41.6	125	181	0.6	20%
Chloride	GP29169/GN53299	DA34631-2	mg/l	53.3	125	181	0.6	20%
Fluoride	GP29169/GN53299	DA34631-2	mg/l	1.3 U	25	24.4	0.4	20%
Fluoride	GP29169/GN53299	DA34631-2	mg/l	0.15	25	24.4	0.4	20%
Nitrogen, Nitrate	GP29169/GN53299	DA34631-2	mg/l	3.1	2.5	5.6	0.0	20%
Nitrogen, Nitrate	GP29169/GN53299	DA34631-2	mg/l	3.3	2.5	5.6	0.0	20%
Nitrogen, Nitrite	GP29169/GN53299	DA34631-2	mg/l	0.0030 U	1.25	1.2	0.0	20%
Sulfate	GP29169/GN53299	DA34631-2	mg/l	15.4	125	137	0.0	20%
Sulfate	GP29169/GN53299	DA34631-2	mg/l	12.5	125	137	0.0	20%

Associated Samples:

Batch GP29169: DA34661-1

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

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