



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

[www.svl.net](http://www.svl.net)

**Echo Bay / Reclamation**

363 Fish Hatchery Road  
Republic, WA 99166

Work Order: **X4B0416**

Reported: 08-Mar-24 15:10

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
Key-IN	X4B0416-01	Ground Water	23-Feb-24 13:15	JVN	28-Feb-2024	
Key-OUT	X4B0416-02	Ground Water	23-Feb-24 13:00	JVN	28-Feb-2024	

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Republic, WA 99166

Work Order: **X4B0416**  
Reported: 08-Mar-24 15:10

Client Sample ID: **Key-IN**

Sampled: 23-Feb-24 13:15

Received: 28-Feb-24

Sampled By: JVN

SVL Sample ID: **X4B0416-01 (Ground Water)**

**Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Classical Chemistry Parameters**

EPA 353.2	Nitrate+Nitrite as N	2.77	mg/L	0.250	0.200	5	X410006	DD	03/05/24 14:35	D
SM 2540 C	Total Diss. Solids	1480	mg/L	10			X409142	TJL	03/01/24 14:20	
SM 5310B	Total Organic Carbon	3.76	mg/L	1.00	0.38		X410014	KAG	03/05/24 16:19	

**Anions by Ion Chromatography**

EPA 300.0	Sulfate as SO4	938	mg/L	15.0	9.00	50	X409152	RS	02/29/24 16:19	D2
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This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter  
Project Manager



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Work Order: **X4B0416**

Reported: 08-Mar-24 15:10

Client Sample ID: **Key-OUT**

Sampled: 23-Feb-24 13:00

Received: 28-Feb-24

Sampled By: JVN

SVL Sample ID: **X4B0416-02 (Ground Water)**

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Classical Chemistry Parameters**

EPA 353.2	Nitrate+Nitrite as N	0.086	mg/L	0.050	0.040		X410006	DD	03/05/24 14:46	
SM 2540 C	Total Diss. Solids	1440	mg/L	10			X409142	TJL	03/01/24 14:20	
SM 5310B	Total Organic Carbon	203	mg/L	10.0	3.84	10	X410014	KAG	03/05/24 16:37	D2,Q5

**Anions by Ion Chromatography**

EPA 300.0	Sulfate as SO4	792	mg/L	15.0	9.00	50	X409152	RS	02/29/24 16:37	D2
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Kathryn Salter  
Project Manager

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Republic, WA 99166Work Order: **X4B0416**

Reported: 08-Mar-24 15:10

**Quality Control - BLANK Data**

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
<b>Classical Chemistry Parameters</b>								
EPA 353.2	Nitrate+Nitrite as N	mg/L	<0.050	0.040	0.050	X410006	05-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X409142	01-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	<0.38	0.38	1.00	X410014	05-Mar-24	U
SM 5310B	Total Organic Carbon	mg/L	<0.38	0.38	1.00	X410014	05-Mar-24	U

**Anions by Ion Chromatography**

EPA 300.0	Sulfate as SO <sub>4</sub>	mg/L	<0.18	0.18	0.30	X409152	29-Feb-24	U
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**Quality Control - LABORATORY CONTROL SAMPLE Data**

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
<b>Classical Chemistry Parameters</b>									
EPA 353.2	Nitrate+Nitrite as N	mg/L	1.98	2.00	99.0	90 - 110	X410006	05-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	34.1	34.3	99.5	90 - 110	X410014	05-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	34.3	34.3	100	90 - 110	X410014	05-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	34.2	34.3	99.6	90 - 110	X410014	05-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	34.3	34.3	100	90 - 110	X410014	05-Mar-24	

**Anions by Ion Chromatography**

EPA 300.0	Sulfate as SO <sub>4</sub>	mg/L	10.2	10.0	102	90 - 110	X409152	29-Feb-24	
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**Quality Control - DUPLICATE Data**

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
<b>Classical Chemistry Parameters</b>									
SM 2540 C	Total Diss. Solids	mg/L	266	262	1.5	10	X409142 - X4B0411-02	01-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	287	281	2.1	10	X409142 - X4B0424-02	01-Mar-24	

**Quality Control - MATRIX SPIKE Data**

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
<b>Classical Chemistry Parameters</b>										
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.27	0.201	2.00	103	90 - 110	X410006 - X4B0411-01	05-Mar-24	
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.37	0.312	2.00	103	90 - 110	X410006 - X4B0411-02	05-Mar-24	
SM 5310B	Total Organic Carbon	mg/L	10.2	<0.384	10.0	102	80 - 120	X410014 - X4C0010-04	05-Mar-24	
<b>Anions by Ion Chromatography</b>										
EPA 300.0	Sulfate as SO <sub>4</sub>	mg/L	12.4	2.26	10.0	101	90 - 110	X409152 - X4B0424-01	29-Feb-24	
EPA 300.0	Sulfate as SO <sub>4</sub>	mg/L	11.9	1.69	10.0	102	90 - 110	X409152 - X4B0424-05	29-Feb-24	



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**Quality Control - MATRIX SPIKE DUPLICATE Data**

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
<b>Classical Chemistry Parameters</b>										
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.27	2.27	2.00	0.2	20	104	X410006 - X4B0411-01	
SM 5310B	Total Organic Carbon	mg/L	10.3	10.2	10.0	1.0	20	103	X410014 - X4C0010-04	
<b>Anions by Ion Chromatography</b>										
EPA 300.0	Sulfate as SO <sub>4</sub>	mg/L	12.4	12.4	10.0	0.1	20	101	X409152 - X4B0424-01	



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**Notes and Definitions**

D	The reported value is from a dilution.
D2	Sample required dilution due to high concentration of target analyte.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
U	Less than MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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