



Silver State Labs-Reno  
1135 Financial Blvd  
Reno, NV 89502  
(775) 857-2400 FAX: (888) 398-7002  
www.ssalabs.com

November 20, 2018  
Workorder **18101609**

Jay Flakus  
CITY OF YERINGTON  
102 South Main Street  
Yerington, NV 89447

Project: WO7

Dear Jay Flakus:

It is the policy of Silver State Analytical Laboratory - Reno to strictly adhere to a comprehensive Quality Assurance Plan that ensures the data presented in this report are both accurate and precise. Silver State Analytical Laboratory - Reno maintains accreditation in the State of Nevada (NV-00015) and the State of California (ELAP 2990).

The data presented in this report was obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with an appropriate explanation in the Analysis Report section of the Laboratory Report.

Sincerely,

Carly Wood  
Laboratory Director  
1135 Financial Blvd  
Reno, NV 89502



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# Analytical Report

Workorder#: 18101609  
Date Reported: 11/20/2018

**Client:** CITY OF YERINGTON

**Sampled By** J. Flakus

**Project Name:** WO7

**PO #:**

**Laboratory Accreditation Number** NV015/CA2990

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
18101609-01	WO7	10/30/2018 13:30	10/30/2018

Parameter	Method	Result	Units	MCL	Analyst	Date/Time Analyzed	Data Flag
Arsenic	EPA 200.8	0.005	mg/L	0.01	JF	11/15/2018 15:55	
Digestion Turbidity Check	EPA 200.8	< 1.0	NTU		KL	10/31/2018 10:25	
Nitrate as N	EPA 300.0	<0.5	mg/L	10	KL	11/01/2018 12:52	

Original

**Analysis:** Anions 300.0

**Method:** EPA 300.0

**Batch ID:** R23095

**Method Blank**

RunID: 23095 SeqNo 510037 Units: mg/L

Analysis Date: 10/22/2018 10:12:18 AM Analyst: KL

Analyte	Result	Rep Limit	Rep Qual
Nitrate as N	< 0.050	0.050	

**Laboratory Control Sample (LCS)**

RunID: 23095 SeqNo 510040 Units: mg/L

Analysis Date: 10/22/2018 12:55:43 PM Analyst: KL

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Nitrate as N	1.800	1.9	106								

**Matrix Spike (MS) / Matrix Spike Duplicate (MSD)**

Sample Spiked: 18101638-01A

RunID: 23095 SeqNo 510048 Units: mg/L

Analysis Date: 10/31/2018 6:40:47 PM Analyst: KL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Nitrate as N	23.95	100.0	120	100	100.0	120	97.5	2.28	20	90	110	

**Matrix Spike (MS) / Matrix Spike Duplicate (MSD)**

Sample Spiked: 18101655-01A

RunID: 23095 SeqNo 510066 Units: mg/L

Analysis Date: 11/1/2018 2:50:43 AM Analyst: KL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Nitrate as N	0	100.0	100	105	100.0	110	105	0.593	20	90	110	

**Matrix Spike (MS) / Matrix Spike Duplicate (MSD)**

Sample Spiked: 18101493-04A

RunID: 23095 SeqNo 510080 Units: mg/L

Analysis Date: 11/1/2018 9:14:52 AM Analyst: KL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Nitrate as N	6.729	1000	1100	106	1000	1100	106	0.153	20	90	110	

**Analysis:** Metals 200.8

**Method:** EPA 200.8

**Batch ID:** R23542

**Method Blank**

RunID: 23542      SeqNo 520775      Units: mg/L  
Analysis Date: 11/15/2018 1:57:02 PM      Analyst: JF

Analyte	Result	Rep Limit	Rep Qual
Arsenic	< 0.0010	0.0010	

**Laboratory Control Sample (LCS)**

RunID: 23542      SeqNo 520776      Units: mg/L  
Analysis Date: 11/15/2018 2:03:34 PM      Analyst: JF

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Arsenic	0.1000	0.10	102								

**Matrix Spike (MS) / Matrix Spike Duplicate (MSD)**

Sample Spiked: 18101652-01B

RunID: 23542      SeqNo 520786      Units: mg/L  
Analysis Date: 11/15/2018 3:08:45 PM      Analyst: JF

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Arsenic	0004244	0.1000	0.10	104	0.1000	0.11	109	4.19	20	70	130	

Report Results To:  
 Report Attention: Jay Flakus, Public Works Director  
 Project Number:  
 Company: City of Yerington Nevada - Public Works  
 Mailing Address: 102 S Main Street  
 City, State, Zip: Yerington, NV 89447  
 Phone: 775-302-1155  
 Email / Fax: jayf@yerington.net

Send Invoice To:  
 Invoice Attention: Jay Flakus  
 PO# OPEN  
 Quote #  
 Company: City of Yerington Nevada - Public Works  
 Mailing Address: 102 S Main Street  
 City, State, Zip: Yerington, NV 89447  
 Phone: 775-302-1155  
 Email / Fax: jayf@yerington.net

Sampled by: JAY FLAKUS  
 Signature: [Signature]  
 I attest to the validity and authenticity of the sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time is considered fraud and may be grounds for legal action.

Standard:  Standard TAT 7-10 Business Days. Note that some tests vary.  
 Rush Same Day:  3 Day:  Other (Specify):  
 1 Day:  4 Day:  Rush results will be issued after 4:00 p.m.  
 2 Day:  5 Day:   
 NOTE: A Rush Surcharge is applied for rush samples

Other Pertinent Information / Special Instructions  
 SDW  
 14"

Date Sampled	Time Sampled	Sample Identification	SSAL - SEM Lab No.	Comp. Grab	Matrix	Preservative**	Number / Type of Containers ***	ANALYSES REQUESTED
10/30/18	1330	W07 - NITRATE		G DW		1	X	NITRATE
10/30/18	1330	W07 - ARSENIC		G DW		2	X	ARSENIC

Received By:	Signature	Print Name	Company	Date	Time
Received By:	[Signature]	JAY FLAKUS	City of Yerington, NV	10/30/18	1445
Relinquished By:	[Signature]	Jesslyna Cochran	City of Yerington, NV	10/30/18	2:45
Received By:	[Signature]	Jesslyna Cochran	City of Yerington, NV	10/30/18	4:10
Relinquished By:	[Signature]	SSA	SSA	10/30/18	1610
Received By:	[Signature]	Jay Flakus, Public Works Director	City of Yerington, NV	10/30/18	1445

Authorized By: Jay Flakus, Public Works Director

Matrix\* DW-Drinking Water, WW-Waste Water, GW-Ground Water, SW-Surface Water, SS-Soil, S-Solid, OT-Other  
 Preservative\*\* 1=H<sub>2</sub>SO<sub>4</sub>, 2=HNO<sub>3</sub>, 3=HCl, 4=NaOH, 5=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, 6=None, 7=Other

COCPM SDW SAMPLE COC 2018  
 18021

QC Level Report  
 Send Results Via:  Mail,  Email,  Fax  
 Send Invoice Via:  Mail,  Email,  Fax

Field Measurements  
 On-Site pH: Chlorine:  
 Temperature: Other:

COMPLIANCE MONITORING? Yes  No   
 Applicable Program SDWA  CWA  RCRA   
 Mining  Other \_\_\_\_\_

NEW ADDRESS? Results:  Invoice:

NOTE: Surcharges apply to Level II, III and IV reports

Arrangements are made and storage fees may apply.  
 samples as they are received by the laboratory.

Inter\*\*\*\* P-Plastic, G-Glass, V-Voa Vial, OT-Other



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## Definitions & Qualifiers

WO#: 18101609

Date: 11/20/2018

### Definitions:

LCS: Laboratory Control Sample; prepared by adding a known mass of target analytes to a specified amount of de-ionized water and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: LCS Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

MBLK: Method Blank; a sample of similar matrix that is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.

MS: Matrix Spike; prepared by adding a known mass of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: Matrix Spike Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

RPD: Relative Percent Difference; comparison between sample and duplicate and/or MS and MSD.

PQL: Practical Quantitation Limit; the limit to which data is quantitated for reporting.

MDL: Method Detection Limit; the limit to which the instrument can reliably detect.

MCL: Maximum Contaminant Level; value set according to EPA guidelines.

### Qualifiers:

\* - Analyte exceeds Safe Drinking Water Act MCL, does not meet drinking water standards.

C - Analyte value below Safe Drinking Water Act MCL, does not meet drinking water standards.

B - Analyte found above the PQL in associated method blank.

G - Calibration blank analyte detected above PQL.

H - Sample analyzed beyond holding time for this parameter.

J - Estimated Value; Analyte found between MDL and PQL limits.

L - Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply.

R - RPD between sample and duplicate sample outside the RPD acceptance limits.

S - Batch MS and/or MSD were outside acceptance limits, batch LCS was acceptable.

W - Sample temperature when received was out of limit as specified by method.