



SGS Silver State Analytical Laboratories
3626 E. Sunset Road, Suite 100
Las Vegas, NV 89120
(702) 873-4478
www.ssalabs.com

March 25, 2025
Workorder 25030654

Randy Sharpe
H2 Analytics
2505 Anthem Village Dr Ste E385
Henderson, NV 89052

Project: H2AP-250313-3

Dear Randy Sharpe:

It is the policy of SGS Silver State Analytical Laboratory - Las Vegas to strictly adhere to a comprehensive Quality Assurance Plan that ensures the data presented in this report are both accurate and precise. SGS Silver State Analytical Laboratory - Las Vegas maintains accreditation in the State of Nevada (NV-00930).

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 hold time for the required analyses. Any anomalies associated with the analysis of the samples have been flagged in the Analytical Report with an appropriate explanation in the Definitions & Qualifiers.

Analytical Comments for SM 4500H+ B, Sample 25030654-01A, Batch ID R99513 : Analytical Method hold time was exceeded by 0.775 days.

Sincerely,

A handwritten signature in black ink, appearing to read 'Carly Wood'. The signature is written in a cursive, flowing style.

Carly Wood
Laboratory Director
3626 E. Sunset Road, Suite 100
Las Vegas, NV 89120



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Analytical Report

Workorder#: 25030654

Date Reported: 3/25/2025

Client: H2 Analytics
Project Name: H2AP-250313-3
PO #:

Sampled By: R Sharpe

Laboratory Accreditation Number: NV930/CA3029

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
25030654-01	Echo Flask	03/13/2025 18:45	3/14/2025

Parameter	Method	Result	Units	PQL	Analyst	Date/Time Analyzed	Data Flag
Aluminum	EPA 200.7	< 0.0500	mg/L	0.05	JG	03/18/2025 16:45	
Antimony	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
Arsenic	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
Barium	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
Beryllium	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
Boron	EPA 200.7	< 0.0500	mg/L	0.05	JG	03/18/2025 16:45	
Cadmium	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
Calcium	EPA 200.7	< 1.00	mg/L	1	JG	03/18/2025 16:45	
Chloride	EPA 300.0	< 0.100	mg/L	0.1	DT	03/14/2025 18:24	
Chromium	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
Copper	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
Cyanide, Free	SM 4500CN E	< 0.0500	mg/L	0.05	DT	03/24/2025 11:19	
Fluoride	EPA 300.0	< 0.0500	mg/L	0.05	DT	03/14/2025 18:24	
Hardness (As CaCO3)	SM 2340 B	ND	mg/L	1	JG	03/21/2025 14:19	
Hardness, Calcium (As CaCO3)	SM 2340 B	ND	mg/L	1	JG	03/21/2025 14:19	
Hardness, Magnesium (As CaCO3)	SM 2340 B	ND	mg/L	1	JG	03/21/2025 14:19	
Iron	EPA 200.7	< 0.100	mg/L	0.1	JG	03/18/2025 16:45	
Lead	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
Magnesium	EPA 200.7	< 1.00	mg/L	1	JG	03/18/2025 16:45	
Manganese	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
MBAS	SM 5540 C	ND	mg/L	0.069	DT	03/14/2025 14:25	
Mercury	EPA 245.1	< 0.320	µg/L	0.32	JG	03/20/2025 15:24	
Nickel	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
Nitrate as N	EPA 300.0	< 0.0500	mg/L	0.05	DT	03/14/2025 18:24	
Nitrite as N	EPA 300.0	< 0.0500	mg/L	0.05	DT	03/14/2025 18:24	
pH	SM 4500H+ B	6.33	pH Units		KR	03/14/2025 13:50	H
Platinum	EPA 6010B	< 0.200	µg/L	0.2	JG	03/17/2025 14:05	
Selenium	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
Silica, Dissolved (as SiO2)	EPA 200.7	< 0.100	mg/L	0.1	JG	03/24/2025 10:34	
Silver	EPA200.8	< 1.0	µg/L	1	JG	03/18/2025 18:06	
Sodium	EPA 200.7	< 1.00	mg/L	1	JG	03/18/2025 16:45	
Sulfate	EPA 300.0	< 0.100	mg/L	0.1	DT	03/14/2025 18:24	
Titanium	EPA 200.7	< 0.0200	mg/L	0.02	JG	03/21/2025 14:26	
Zinc	EPA200.8	< 10	µg/L	10	JG	03/18/2025 18:06	



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Quality Control Report

WO#: 25030654
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Analysis: PH - CWA
Method: SM 4500H+ B

Batch ID: R99513

Duplicate

RunID: 99513 SeqNo 2738938 Units: pH Units
 Analysis Date: 3/14/2025 1:50:00 PM Analyst: KR

Analyte	Result	Rep Limit	Rep Qual	RPD	Sample Value
pH	7.25		H	0.0027624	7.23

Laboratory Control Sample (LCS)

RunID: 99513 SeqNo 2738936 Units: pH Units
 Analysis Date: 3/14/2025 1:50:00 PM Analyst: KR

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
pH	7.000	7.02	100								

Analysis: MBAS (surfactants) - CWA
Method: SM 5540 C

Batch ID: R99515

Method Blank

RunID: 99515 SeqNo 2738963 Units: mg/L
 Analysis Date: 3/14/2025 2:25:00 PM Analyst: DT

Analyte	Result	Rep Limit	Rep Qual
MBAS	ND	0.0690	

Laboratory Control Sample (LCS)

RunID: 99515 SeqNo 2738964 Units: mg/L
 Analysis Date: 3/14/2025 2:25:00 PM Analyst: DT

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
MBAS	0.7500	0.739	98.5								

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

Sample Spiked: 25030654-01C

RunID: 99515 SeqNo 2738967 Units: mg/L
 Analysis Date: 3/14/2025 2:25:00 PM Analyst: DT

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
MBAS	0	0.5000	0.407	81.4								

Analysis: Metals - Precious
Method: EPA 6010B

Batch ID: R99547

Original



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Quality Control Report

WO#: 25030654
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Method Blank

RunID: 99547 SeqNo 2739649 Units: µg/L
 Analysis Date: 3/17/2025 1:53:10 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Platinum	< 0.500	0.500	

Laboratory Control Sample (LCS)

RunID: 99547 SeqNo 2739647 Units: µg/L
 Analysis Date: 3/17/2025 1:45:26 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Platinum	100.0	95.6	95.6								

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

Sample Spiked: 25030654-01E

RunID: 99547 SeqNo 2739657 Units: µg/L
 Analysis Date: 3/17/2025 2:20:41 PM Analyst: JG

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
Platinum	0	10.00	10.0	100	10.00	10.0	100	0.209	20	70	130	

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

Sample Spiked: 25030654-01E

RunID: 99547 SeqNo 2739658 Units: µg/L
 Analysis Date: 3/17/2025 2:24:25 PM Analyst: JG

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
Platinum	0	10.00	10.0	100								

Analysis: Anions-CWA (Cl, F, NO2, NO3, SO)
Method: EPA 300.0

Batch ID: R99635

Method Blank

RunID: 99635 SeqNo 2741584 Units: mg/L
 Analysis Date: 3/14/2025 5:39:00 PM Analyst: DT

Analyte	Result	Rep Limit	Rep Qual
Chloride	< 0.100	0.100	
Fluoride	< 0.0500	0.0500	
Nitrate as N	< 0.0500	0.0500	
Nitrite as N	< 0.0500	0.0500	
Sulfate	< 0.100	0.100	

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Laboratory Control Sample (LCS)

RunID: 99635 SeqNo 2741580 Units: mg/L
 Analysis Date: 2/24/2025 5:26:00 PM Analyst: DT

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Chloride	5.000	5.31	106								
Fluoride	5.000	5.10	102								
Nitrate as N	5.000	5.01	100								
Nitrite as N	5.000	5.04	101								
Sulfate	5.000	5.02	100								

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

Sample Spiked: 25030654-01A
 RunID: 99635 SeqNo 2741587 Units: mg/L
 Analysis Date: 3/14/2025 6:47:00 PM Analyst: DT

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
Chloride	0.04720	4.998	4.84	95.8	4.998	4.84	96.0	0.159	20	90	110	
Fluoride	0.01610	4.999	4.97	99.0	4.999	4.98	99.2	0.189	20	90	110	
Nitrate as N	0.02330	4.999	4.98	99.1	4.999	4.98	99.1	0.0382	20	90	110	
Nitrite as N	0	5.000	4.94	98.8	5.000	4.94	98.8	0.0526	20	90	110	
Sulfate	0	5.000	4.80	96.0	5.000	4.81	96.2	0.200	20	90	110	

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

Sample Spiked: 25030654-01A
 RunID: 99635 SeqNo 2741588 Units: mg/L
 Analysis Date: 3/14/2025 7:10:00 PM Analyst: DT

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
Chloride	0.04720	4.998	4.84	96.0								
Fluoride	0.01610	4.999	4.98	99.2								
Nitrate as N	0.02330	4.999	4.98	99.1								
Nitrite as N	0	5.000	4.94	98.8								
Sulfate	0	5.000	4.81	96.2								

Analysis: Metals, 200.7 - CWA
Method: EPA 200.7

Batch ID: R99684

Method Blank

RunID: 99684 SeqNo 2742279 Units: mg/L
 Analysis Date: 3/18/2025 4:06:42 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Aluminum	< 0.0500	0.0500	
Boron	< 0.0500	0.0500	

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Calcium	< 1.00	1.00	
Iron	< 0.100	0.100	
Magnesium	< 1.00	1.00	
Sodium	< 1.00	1.00	



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Method Blank

RunID: 99684 SeqNo 2742280 Units: mg/L
 Analysis Date: 3/18/2025 4:08:54 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Aluminum	< 0.0500	0.0500	
Boron	< 0.0500	0.0500	
Calcium	< 1.00	1.00	
Iron	< 0.100	0.100	
Magnesium	< 1.00	1.00	
Sodium	< 1.00	1.00	

Laboratory Control Sample (LCS)

RunID: 99684 SeqNo 2742277 Units: mg/L
 Analysis Date: 3/18/2025 4:01:22 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Aluminum	10.00	10.0	100								
Boron	10.00	9.92	99.2								
Calcium	10.00	9.92	99.2								
Iron	10.00	10.1	101								
Magnesium	10.00	9.91	99.1								

Laboratory Control Sample (LCS)

RunID: 99684 SeqNo 2742278 Units: mg/L
 Analysis Date: 3/18/2025 4:04:14 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Sodium	10.00	9.67	96.7								

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

Sample Spiked: 25030632-01F

RunID: 99684 SeqNo 2742284 Units: mg/L
 Analysis Date: 3/18/2025 4:19:12 PM Analyst: JG

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
Aluminum	0	5.000	5.43	109	5.000	5.48	110	0.917	20	70	130	
Boron	0.7600	5.000	6.19	109	5.000	6.29	111	1.60	20	70	130	
Calcium	167.1	20.00	187	101	20.00	190	112	1.17	20	70	130	
Iron	0	5.000	5.43	109	5.000	5.50	110	1.28	20	70	130	
Magnesium	61.81	20.00	82.4	103	20.00	83.3	108	1.15	20	70	130	
Sodium	287.1	20.00	307	98.9	20.00	311	118	1.26	20	70	130	

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

Sample Spiked: 25030632-01F

RunID: 99684 SeqNo 2742285 Units: mg/L

Analysis Date: 3/18/2025 4:22:27 PM Analyst: JG

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
Aluminum	0	5.000	5.48	110								
Boron	0.7600	5.000	6.29	111								
Calcium	167.1	20.00	190	112								
Iron	0	5.000	5.50	110								
Magnesium	61.81	20.00	83.3	108								
Sodium	287.1	20.00	311	118								

Analysis: Metals, 200.8 - CWA
Method: EPA200.8

Batch ID: R99686

Method Blank

RunID: 99686 SeqNo 2742369 Units: µg/L

Analysis Date: 3/18/2025 5:21:52 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Antimony	< 1.0	1.0	
Arsenic	< 1.0	1.0	
Barium	< 1.0	1.0	
Beryllium	< 1.0	1.0	
Cadmium	< 1.0	1.0	
Chromium	< 1.0	1.0	
Copper	< 1.0	1.0	
Lead	< 1.0	1.0	
Manganese	< 1.0	1.0	
Nickel	< 1.0	1.0	
Selenium	< 1.0	1.0	
Silver	< 1.0	1.0	
Zinc	< 10	10	

Laboratory Control Sample (LCS)

RunID: 99686 SeqNo 2742366 Units: µg/L

Analysis Date: 3/18/2025 5:05:08 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Antimony	40.00	37	92.8								

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Laboratory Control Sample (LCS)

RunID: 99686 SeqNo 2742367 Units: µg/L
 Analysis Date: 3/18/2025 5:10:43 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Arsenic	40.00	41	102								
Barium	40.00	40	101								
Beryllium	40.00	41	102								
Cadmium	40.00	40	100								
Chromium	40.00	41	102								
Copper	40.00	40	101								
Lead	40.00	41	102								
Manganese	40.00	42	105								
Nickel	40.00	41	101								
Selenium	200.0	200	101								
Silver	40.00	40	101								
Zinc	40.00	42	106								

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

Sample Spiked: 25030667-01A
 RunID: 99686 SeqNo 2742375 Units: µg/L
 Analysis Date: 3/18/2025 5:55:19 PM Analyst: JG

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
Antimony	1.486	40.00	40	96.9	40.00	40	97.1	0.211	20	70	130	
Arsenic	0.7870	40.00	40	97.6	40.00	40	97.4	0.209	20	70	130	
Barium	529.0	40.00	570	94.0	40.00	570	94.3	0.0240	20	70	130	
Beryllium	0	40.00	39	97.0	40.00	39	97.5	0.511	20	70	130	
Cadmium	0	40.00	37	91.9	40.00	37	91.7	0.229	20	70	130	
Chromium	3.993	40.00	41	92.3	40.00	41	91.7	0.520	20	70	130	
Copper	63.66	40.00	100	91.2	40.00	99	89.4	0.716	20	70	130	
Lead	0.7980	40.00	39	96.2	40.00	39	96.3	0.0814	20	70	130	
Manganese	5.756	40.00	43	92.5	40.00	43	94.3	1.73	20	70	130	
Nickel	9.015	40.00	45	90.2	40.00	45	90.6	0.343	20	70	130	
Selenium	0.7440	200.0	190	93.5	200.0	190	93.7	0.229	20	70	130	
Silver	0.1370	40.00	36	90.3	40.00	36	90.4	0.130	20	70	130	
Zinc	289.1	40.00	320	88.5	40.00	320	85.5	0.371	20	70	130	

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

Sample Spiked: 25030667-01A
 RunID: 99686 SeqNo 2742376 Units: µg/L
 Analysis Date: 3/18/2025 6:00:51 PM Analyst: JG

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
Antimony	1.486	40.00	40	97.1								
Arsenic	0.7870	40.00	40	97.4								

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Barium	529.0	40.00	570	94.3
Beryllium	0	40.00	39	97.5
Cadmium	0	40.00	37	91.7
Chromium	3.993	40.00	41	91.7
Copper	63.66	40.00	99	89.4
Lead	0.7980	40.00	39	96.3
Manganese	5.756	40.00	43	94.3
Nickel	9.015	40.00	45	90.6
Selenium	0.7440	200.0	190	93.7
Silver	0.1370	40.00	36	90.4
Zinc	289.1	40.00	320	85.5

Analysis: Mercury - CWA
Method: EPA 245.1

Batch ID: R99692

Method Blank

RunID: 99692 SeqNo 2742717 Units: µg/L
 Analysis Date: 3/20/2025 2:59:00 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Mercury	< 0.160	0.160	



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WO#: 25030654
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Method Blank

RunID: 99692 SeqNo 2742720 Units: µg/L
 Analysis Date: 3/20/2025 3:10:00 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Mercury	< 0.320	0.320	

Laboratory Control Sample (LCS)

RunID: 99692 SeqNo 2742716 Units: µg/L
 Analysis Date: 3/20/2025 2:56:00 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Mercury	5.000	4.90	98.0								

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

Sample Spiked: 25030637-01A

RunID: 99692 SeqNo 2742722 Units: µg/L
 Analysis Date: 3/20/2025 3:17:00 PM Analyst: JG

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
Mercury	0	10.00	8.95	89.5	10.00	8.82	88.2	1.52	20	70	130	

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

Sample Spiked: 25030637-01A

RunID: 99692 SeqNo 2742723 Units: µg/L
 Analysis Date: 3/20/2025 3:20:00 PM Analyst: JG

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
Mercury	0	10.00	8.82	88.2								

Analysis: Metals, 200.7 - CWA
Method: EPA 200.7

Batch ID: R99725

Method Blank

RunID: 99725 SeqNo 2743605 Units: mg/L
 Analysis Date: 3/21/2025 2:18:24 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Titanium	< 0.0200	0.0200	

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Method Blank

RunID: 99725 SeqNo 2743606 Units: mg/L
 Analysis Date: 3/21/2025 2:20:18 PM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Titanium	< 0.0200	0.0200	

Laboratory Control Sample (LCS)

RunID: 99725 SeqNo 2743603 Units: mg/L
 Analysis Date: 3/21/2025 2:13:33 PM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Titanium	5.000	5.23	105								

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

Sample Spiked: 25030654-01B

RunID: 99725 SeqNo 2743610 Units: mg/L
 Analysis Date: 3/21/2025 2:28:28 PM Analyst: JG

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
Titanium	0	5.000	5.13	103	5.000	5.15	103	0.389	20	70	130	

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

Sample Spiked: 25030654-01B

RunID: 99725 SeqNo 2743611 Units: mg/L
 Analysis Date: 3/21/2025 2:30:44 PM Analyst: JG

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
Titanium	0	5.000	5.15	103								

Analysis: Cyanide, Free

Method: SM 4500CN E

Batch ID: R99748

Method Blank

RunID: 99748 SeqNo 2744154 Units: mg/L
 Analysis Date: 3/24/2025 11:19:00 AM Analyst: DT

Analyte	Result	Rep Limit	Rep Qual
Cyanide, Free	< 0.0500	0.0500	

Laboratory Control Sample (LCS)

RunID: 99748 SeqNo 2744155 Units: mg/L
 Analysis Date: 3/24/2025 11:19:00 AM Analyst: DT

Original



SGS Silver State Analytical Laboratories
 3626 E. Sunset Road, Suite 100
 Las Vegas, NV 89120
 (702) 873-4478
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Quality Control Report

WO#: 25030654
 3/25/2025

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Cyanide, Free	0.4000	0.397	99.2								

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

Sample Spiked: 25030654-01D

RunID: 99748 SeqNo 2744158 Units: mg/L

Analysis Date: 3/24/2025 11:19:00 AM Analyst: DT

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
Cyanide, Free	0	0.4000	0.452	113	0.4000	0.451	113	0.221	20	80	120	

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

Sample Spiked: 25030654-01D

RunID: 99748 SeqNo 2744159 Units: mg/L

Analysis Date: 3/24/2025 11:19:00 AM Analyst: DT

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
Cyanide, Free	0	0.4000	0.451	113								

Analysis: Metals, 200.7 - CWA
Method: EPA 200.7

Batch ID: R99751

Method Blank

RunID: 99751 SeqNo 2744100 Units: mg/L

Analysis Date: 3/24/2025 10:27:50 AM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Silica, Dissolved (as SiO2)	< 0.100	0.100	

Original



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 3/25/2025

Method Blank

RunID: 99751 SeqNo 2744101 Units: mg/L
 Analysis Date: 3/24/2025 10:29:24 AM Analyst: JG

Analyte	Result	Rep Limit	Rep Qual
Silica, Dissolved (as SiO ₂)	< 0.100	0.100	

Laboratory Control Sample (LCS)

RunID: 99751 SeqNo 2744098 Units: mg/L
 Analysis Date: 3/24/2025 10:24:13 AM Analyst: JG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Silica, Dissolved (as SiO ₂)	5.000	5.08	102								

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

Sample Spiked: 25030654-01B

RunID: 99751 SeqNo 2744105 Units: mg/L
 Analysis Date: 3/24/2025 10:36:04 AM Analyst: JG

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
Silica, Dissolved (as SiO ₂)	0	5.000	5.32	106	5.000	5.39	108	1.31	20	70	130	

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

Sample Spiked: 25030654-01B

RunID: 99751 SeqNo 2744106 Units: mg/L
 Analysis Date: 3/24/2025 10:37:51 AM Analyst: JG

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
Silica, Dissolved (as SiO ₂)	0	5.000	5.39	108								



3626 E. SUNSET RD., STE 100, LAS VEGAS, NV 89120
 Phone: (702) 873-4478 Fax: (702) 873-7967 (EPA#: NV000930, CA2885)
 1135 FINANCIAL BOULEVARD, RENO, NV 89502
 Phone: (775) 857-2400 Fax: (888) 398-7002 (EPA#: NV00015, CA2526)

Report Results To:

Report Attention: **Randy Sharpe** Project Number: **H2AP-250313-3**
 Company: **H2 Analytics**
 Mailing Address: **2505 Anthem Village Dr. Suite E385**
 City, State, Zip: **Henderson, NV 89052**
 Phone: **719-499-2973** Email / Fax: **Randy@h2-analytics.com**

Send Invoice To:
 Invoice Attention: **Randy Sharpe** PO#
 Company: **H2 Analytics** 2839
 Mailing Address: **2505 Anthem Village Dr. Suite E385**
 City, State, Zip: **Henderson, NV 89052**
 Phone: **719-499-2973** Email / Fax: **Randy@h2-analytics.com**

ANALYSES REQUESTED

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

Date Sampled	Time Sampled	Sample Identification	SSAL - SEM Lab No.	Comp. Grab	Matrix	Preservative**	Number / Type of Containers ***	Anions, pH	Metals, Hardness	MBAS, Silica	Metals-200.8, 200.7, Precious	Cyanide-Free	Mercury
3/13/25	6:45 PM	Echo Flask	25030654	G	AQ	VARIABLES	4	X	X	X	X	X	X

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

Send Results Via:
 Mail: Email: Fax:

Send Invoice Via:
 Mail: Email: Fax:

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

Metals: As, Ca, Cu, Fe, Pb, Mg, Mn, Na, Zn
 Al, Sn, B, Ba, Be, Cd, Cr, Hg, Ni, Se, Ag, Ti
 Precious Metals: Pt
 Anions: Chloride, Fluoride, Nitrate, Nitrite, Sulfate
 COMMENTS:

Relinquished By:	Signature	Print Name	Company	Date	Time
Relinquished By:	<i>Randy Sharpe</i>	Randy Sharpe	H2 Analytics	3-14-25	11:00 AM
Received By:	<i>Randy Sharpe</i>	Randy Sharpe	H2 Analytics	3-14-25	10:58 AM
Relinquished By:					
Received By:					
Relinquished By:					
Received By:					
Relinquished By:					
Received By:					
Relinquished By:					
Received By:					

Authorization is required to process samples. This obligates your organization for service fees. SSAL Standard T & C's or other written agreement applies. If collections or legal services are required to recover said fees, your organization will be responsible for all fees and costs in addition to service fees.

Samples are discarded 30 days after results are reported unless other arrangements are made and storage fees may apply.
 The analytical results associated with this COC apply only to these samples as they are received by the laboratory.
 The liability of the laboratory is limited to the amount paid for the report.

Matrix* DW-Drinking Water, WW-Waste Water, GW-Ground Water, SW-Surface Water, SS-Soil, S-Solid, OT-Other
 Preservative** 1=H₂SO₄, 2=HNO₃, 3=HCl, 4=NaOH, 5=Na₂S₂O₃, 6=None, 7=Other
 Container*** P-Plastic, G-Glass, V-Voa Vial, OT-Other



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Definitions & Qualifiers

WO#: 25030654

Date: 3/25/2025

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.

TNTC: Too Numerous to Count; colony density is too thick to be individually counted or greater than method reporting requirements.

Qualifiers:

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

- Laboratory not accredited for this analyte.

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.

Z - Batch LCS and/or LCSD were outside acceptance limits.