



Alpha Analytical, Inc.  
255 Glendale Ave, #21  
Sparks, Nevada 89431  
TEL: (775) 355-1044 FAX: (775) 355-0406  
Website: [www.alpha-analytical.com](http://www.alpha-analytical.com)

September 30, 2021

Robert Piekarz  
Nevada DOT Environmental (NDOT)  
1263 S. Stewart St.  
Carson City, NV 89712  
TEL: (775) 888-7692  
FAX: (775) 888-7104

RE: Verdi Bridges, Keystone to Stateline

Order No.: NDO2109325

Dear Robert Piekarz:

The result of this report apply to the sample(s) as received.

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in cursive script that reads "Randy Gardner".

Randy Gardner  
Laboratory Manager  
255 Glendale Ave, #21  
Sparks, Nevada 89431



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# Analytical Report

WO#: NDO2109325

Report Date: 9/30/2021

**CLIENT:** Nevada DOT Environmental (NDOT)

**Collection Date:** 9/16/2021 9:30:00 AM

**Project:** Verdi Bridges, Keystone to Stateline

**Lab ID:** 2109325-01

**Matrix:** OTHER

**Client Sample ID:** I-763

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	2,400	50		mg/Kg	9/29/2021	Metals by EPA 6020
Arsenic (As)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Selenium (Se)	ND	100		mg/Kg	9/29/2021	Metals by EPA 6020
Silver (Ag)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Cadmium (Cd)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Barium (Ba)	2,300	50		mg/Kg	9/29/2021	Metals by EPA 6020
Lead (Pb)	1,200	50		mg/Kg	9/29/2021	Metals by EPA 6020



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# Analytical Report

WO#: NDO2109325

Report Date: 9/30/2021

**CLIENT:** Nevada DOT Environmental (NDOT)

**Collection Date:** 9/16/2021 10:00:00 AM

**Project:** Verdi Bridges, Keystone to Stateline

**Lab ID:** 2109325-02

**Matrix:** OTHER

**Client Sample ID:** G-765

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	12,000	50		mg/Kg	9/29/2021	Metals by EPA 6020
Arsenic (As)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Selenium (Se)	ND	100		mg/Kg	9/29/2021	Metals by EPA 6020
Silver (Ag)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Cadmium (Cd)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Barium (Ba)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Lead (Pb)	21,000	50		mg/Kg	9/29/2021	Metals by EPA 6020



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# Analytical Report

WO#: NDO2109325

Report Date: 9/30/2021

**CLIENT:** Nevada DOT Environmental (NDOT)

**Collection Date:** 9/16/2021 10:30:00 AM

**Project:** Verdi Bridges, Keystone to Stateline

**Lab ID:** 2109325-03

**Matrix:** OTHER

**Client Sample ID:** G-764

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	16,000	50		mg/Kg	9/29/2021	Metals by EPA 6020
Arsenic (As)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Selenium (Se)	ND	100		mg/Kg	9/29/2021	Metals by EPA 6020
Silver (Ag)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Cadmium (Cd)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Barium (Ba)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Lead (Pb)	26,000	50		mg/Kg	9/29/2021	Metals by EPA 6020



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# Analytical Report

WO#: NDO2109325

Report Date: 9/30/2021

**CLIENT:** Nevada DOT Environmental (NDOT)

**Collection Date:** 9/16/2021 10:45:00 AM

**Project:** Verdi Bridges, Keystone to Stateline

**Lab ID:** 2109325-04

**Matrix:** OTHER

**Client Sample ID:** I-773

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	66	50		mg/Kg	9/29/2021	Metals by EPA 6020
Arsenic (As)	54	50		mg/Kg	9/29/2021	Metals by EPA 6020
Selenium (Se)	ND	100		mg/Kg	9/29/2021	Metals by EPA 6020
Silver (Ag)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Cadmium (Cd)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Barium (Ba)	60	50		mg/Kg	9/29/2021	Metals by EPA 6020
Lead (Pb)	27,000	50		mg/Kg	9/29/2021	Metals by EPA 6020



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# Analytical Report

WO#: NDO2109325

Report Date: 9/30/2021

**CLIENT:** Nevada DOT Environmental (NDOT)

**Collection Date:** 9/16/2021 11:00:00 AM

**Project:** Verdi Bridges, Keystone to Stateline

**Lab ID:** 2109325-05

**Matrix:** OTHER

**Client Sample ID:** G-772

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	74	50		mg/Kg	9/29/2021	Metals by EPA 6020
Arsenic (As)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Selenium (Se)	ND	100		mg/Kg	9/29/2021	Metals by EPA 6020
Silver (Ag)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Cadmium (Cd)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Barium (Ba)	ND	50		mg/Kg	9/29/2021	Metals by EPA 6020
Lead (Pb)	47,000	50		mg/Kg	9/29/2021	Metals by EPA 6020



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# QC SUMMARY REPORT

WO#: 2109325

30-Sep-21

**Client:** Nevada DOT Environmental (NDOT)

**Project:** Verdi Bridges, Keystone to Stateline

**TestCode:** METALS\_SO

Sample ID: <b>MB-13992</b>	SampType: <b>MBLK</b>	TestCode: <b>METALS_SO</b>	Units: <b>mg/Kg</b>
Client ID: <b>PBS</b>	Batch ID: <b>13992</b>	TestNo: <b>E200.8</b>	
Prep Date: <b>9/28/2021</b>	RunNo: <b>12738</b>	SeqNo: <b>355404</b>	
Analysis Date: <b>9/29/2021</b>			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	ND	1									
Arsenic (As)	ND	1									
Selenium (Se)	ND	2									
Silver (Ag)	ND	1									
Cadmium (Cd)	ND	1									
Barium (Ba)	ND	1									
Lead (Pb)	ND	1									

Sample ID: <b>LCS-13992</b>	SampType: <b>LCS</b>	TestCode: <b>METALS_SO</b>	Units: <b>mg/Kg</b>
Client ID: <b>LCSS</b>	Batch ID: <b>13992</b>	TestNo: <b>E200.8</b>	
Prep Date: <b>9/28/2021</b>	RunNo: <b>12738</b>	SeqNo: <b>355405</b>	
Analysis Date: <b>9/29/2021</b>			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	46.8	1	50	0	93.6	79.51	120.49				
Arsenic (As)	47.3	1	50	0	94.6	79.51	120.49				
Selenium (Se)	49.9	2	50	0	99.7	79.51	120.49				
Silver (Ag)	48.7	1	50	0	97.4	79.51	120.49				
Cadmium (Cd)	46.1	1	50	0	92.1	79.51	120.49				
Barium (Ba)	48.5	1	50	0	97.0	79.51	120.49				
Lead (Pb)	49.6	1	50	0	99.3	79.51	120.49				

Sample ID: <b>2109308-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>METALS_SO</b>	Units: <b>mg/Kg-dry</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>13992</b>	TestNo: <b>E200.8</b>	
Prep Date: <b>9/28/2021</b>	RunNo: <b>12738</b>	SeqNo: <b>355408</b>	
Analysis Date: <b>9/29/2021</b>			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	104	2.17	108.664	7.59	88.3	69.51	130.49	103	0.65	20	
Arsenic (As)	97.6	2.17	108.664	1.25	88.7	69.51	130.49	97.5	0.13	20	
Selenium (Se)	100	4.35	108.664	0	92.3	69.51	130.49	99.8	0.48	20	
Silver (Ag)	99.7	2.17	108.664	0	91.7	69.51	130.49	99.9	0.25	20	
Cadmium (Cd)	94.2	2.17	108.664	0	86.7	69.51	130.49	93.9	0.34	20	
Barium (Ba)	171	2.17	108.664	41.4	119	69.51	130.49	145	17	20	
Lead (Pb)	122	2.17	108.664	0	112	69.51	130.49	104	15	20	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 ND Not Detected at the Reporting Limit  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 2109325  
 30-Sep-21

**Client:** Nevada DOT Environmental (NDOT)  
**Project:** Verdi Bridges, Keystone to Stateline

**TestCode:** METALS\_SO

Sample ID: <b>2109308-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>METALS_SO</b>	Units: <b>mg/Kg-dry</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>13992</b>	TestNo: <b>E200.8</b>	
Prep Date: <b>9/28/2021</b>	RunNo: <b>12738</b>	SeqNo: <b>355407</b>	
Analysis Date: <b>9/29/2021</b>			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	103	2.17	108.664	7.59	87.7	69.51	130.49				
Arsenic (As)	97.5	2.17	108.664	1.25	88.5	69.51	130.49				
Selenium (Se)	99.8	4.35	108.664	0	91.9	69.51	130.49				
Silver (Ag)	99.9	2.17	108.664	0	91.9	69.51	130.49				
Cadmium (Cd)	93.9	2.17	108.664	0	86.4	69.51	130.49				
Barium (Ba)	145	2.17	108.664	41.4	95.4	69.51	130.49				
Lead (Pb)	104	2.17	108.664	0	96.2	69.51	130.49				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 ND Not Detected at the Reporting Limit  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits





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## Definition Only

WO#: 2109325  
Date: 9/30/2021

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### Definitions:

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.

Report CC's Robert Piekarz

# WORKORDER SUMMARY

# NV

## Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder: NDO2109325  
Report Due By: 04-Oct-21  
EDD Required: NO

Report Attention: Robert Piekarz

**Client:**


Nevada DOT Environmental (NDOT)  
1263 S. Stewart St.  
Carson City, NV 89712

TEL: 7758887692  
FAX: 7758887104  
ProjectNo: Verdi Bridges, Keystone to Stateline

**Date Received:** 20-Sep-21

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests							Sample Remarks		
				Alpha	Sub	TAT	METALS_SO									
NDO2109325-01	I-763	OTHER	9/16/2021 9:30:00 AM	1	0	10	A - As, Ba, Cd, Cr, Pb, Ag, Se									
NDO2109325-02	G-765	OTHER	9/16/2021 10:00:00 AM	1	0	10	A - As, Ba, Cd, Cr, Pb, Ag, Se									
NDO2109325-03	G-764	OTHER	9/16/2021 10:30:00 AM	1	0	10	A - As, Ba, Cd, Cr, Pb, Ag, Se									
NDO2109325-04	I-773	OTHER	9/16/2021 10:45:00 AM	1	0	10	A - As, Ba, Cd, Cr, Pb, Ag, Se									
NDO2109325-05	G-772	OTHER	9/16/2021 11:00:00 AM	1	0	10	A - As, Ba, Cd, Cr, Pb, Ag, Se									

**Comments:** Paint Chips.

Logged in by:	Signature	Print Name	Company	Date/Time
		Haylee Tilton	Alpha Analytical, Inc.	9/20/21 1357

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information:**

Company: NDOT  
 Attn: Robert Piekarz  
 Address: 1263 South Stewart  
 City, State, Zip: Carson City, NV 89712  
 Phone Number: 775-888-7692 Fax: 775-888-7104



**Alpha Analytical, Inc.**

Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431

Phone: 775-355-1044

Fax: 775-355-0406

**Satellite Service Centers:**

Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827

Phone: 916-366-9089

Northern NV: 350 7th St. Elko, NV 89801

Phone: 775-388-7043

**Consultant/ Client Info:**

**Job and Purchase Order Info:**

**Report Attention/Project Manager:**

**QC Deliverable Info:**

Company: as above  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_

Job #: NA  
 Job Name: Verdi Bridges, Keystone to Stateline  
 P.O. #: \_\_\_\_\_

Name: Rob Piekarz  
 Email Address: rpiekarz@ndot.nv.gov  
 Phone #: 775-888-7692  
 Cell #: \_\_\_\_\_

EDD Required? Yes / No EDF Required? Yes / No  
 Global ID: \_\_\_\_\_  
 Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR CA KS **NV** OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered? (Yes / No)		# Containers** (See Key Below)	RCRA 7, total metals	Analysis Requested											Remarks			
						Yes	No																	
9:30	9/16/2021	OT	<u>ND02109325-01</u>	I-763	ST		X	1-OT	X															
10:00	9/16/2021	OT	<u>02</u>	G-765	ST		X	1-OT	X															
10:30	9/16/2021	OT	<u>03</u>	G-764	ST		X	1-OT	X															
10:45	9/16/2021	OT	<u>04</u>	I-773	ST		X	1-OT	X															
11:00	9/16/2021	OT	<u>05</u>	G-772	ST		X	1-OT	X															

**ADDITIONAL INSTRUCTIONS:**  
 \_\_\_\_\_  
 \_\_\_\_\_

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Relinquished by: (Signature/Affiliation): <u>[Signature]</u> <u>NOOT</u>	Date: <u>9/20/2021</u>	Time: <u>13:10</u>	Received by: (Signature/Affiliation): <u>[Signature]</u> <u>Vaughn HT</u>	Date: <u>9/20/2021</u>	Time: <u>13:10</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

\* Key: AQ - Aqueous AR-Air OT - Other SO - Soil WA-Waste \*\*: B - Brass L - Liter O - Orbo OT-Other P-Plastic S-Soil Jar T - Tedlar V-VOA  
 NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.