

Office of the Chief Engineer 2829 W. Howard Place Denver, CO 80204-2305

January 22, 2020

Mr. Gabriel Cosyleon Environmental Program Manager/Ecologist – Region 2 Colorado Department of Transportation 1480 Quail Lake Loop Colorado Springs, CO 80906

RE: Asbestos and Lead-Based Paint Inspection Report for Bridge M-21-C located at US Highway 350 over Hoe Ranch Arroyo at MM 50.582 Southwest of Timpas, Colorado

Dear Mr. Cosyleon,

The Colorado Department of Transportation (CDOT) Environmental Project Coordinator (EPC) completed an asbestos and lead-based paint inspection at bridge M-21-C located at US Highway 350 over Hoe Ranch Arroyo at Mile Marker (MM) 50.582 southwest of Timpas, Colorado. The CDOT-EPC is a certified asbestos building inspector, certification # 13915.

On January 8, 2020 the CDOT-EPC performed the asbestos and lead-based paint inspection of the bridge. The bridge is approximately 126 feet in length by 30 feet in width and was constructed in 1937. The bridge is a concrete on I-beam structure with painted concrete guardrails and wing walls.

One suspect asbestos-containing material (ACM) was identified during the inspection. Two bulk samples of a black, fibrous tar-impregnated expansion joint material were collected from the northeast guardrail. The two bulk samples were non-detect for asbestos.

Two paints were sampled from the bridge structure. A white paint chip sample was collected from a concrete wing wall from the northeast of the bridge (sample M-21-C-LP01). This paint contains 6.5% lead and is considered a lead-based paint. A second paint sample was collected from a black paint, from a concrete wing wall (sample M-21-C-LP02). This paint contains 6.9% lead and is considered a lead-based paint. The black paint exists on the concrete wing walls and the metal girders beneath the bridge deck.

As the lead-based paint was observed on a substrate other than metal, a composite sample of bridge components, including the black and white lead-based paints, was collected and submitted for Toxicity Characteristic Leaching Procedure (TCLP) analysis. The sample was collected to determine if the components of the bridge structure would



be considered as hazardous waste. The TCLP laboratory result for this bridge structure revealed a result below the reporting limit of less than 0.25 milligrams per liter (mg/l) of lead. The debris from the bridge is therefore classified as solid waste (and not hazardous waste) as the TCLP result was less than the regulatory limit for lead of 5.0 mg/l.

The bulk samples were submitted and analyzed by Polarized Light Microscopy (PLM) Analysis by Reservoirs Environmental, Inc. (Reservoirs). The paint chip samples were submitted and analyzed by Atomic Absorption Spectroscopy (AAS) / Atomic Emission Spectroscopy – Mass Spectrometry (AES-MS) by Reservoirs. The TCLP sample was analyzed by Reservoirs using Atomic Absorption Spectroscopy (AAS) / Atomic Emission Spectroscopy - Inductively Coupled Plasma (AES-ICP). Reservoirs is an accredited laboratory for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and PLM analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - American Certificate #480.

The black and white paints located on the metal girders, guardrails and wing walls are lead-based paints. If the paints will be disturbed by repair or removal activities, it is recommended that paint removal and waste disposal work be performed in accordance with 29 CFR 1926.62 and Section 250.04 of the 2017 CDOT Standard Specifications for Road and Bridge Construction Handbook. ACMs were not identified on the structure during the bridge inspection. Please contact (720) 582-0694 with any questions or concerns regarding this report.

Sincerely,

COLORADO DEPARTMENT OF TRANSPORTATION

Tim Hagert

Environmental Project Coordinator

Zi & Chagat

Certified Asbestos Building Inspector #13915

Attachments: Suspect Asbestos Bulk Sample Summary Table

Paint Chip Sample Summary Table

TCLP Sample Summary Table Laboratory Results

Sample Location Drawing

Photographic Log Inspector Certificate



Suspect Asbestos Bulk Sample Summary Table

Sample ID	Sample Location	Lab Results	Condition	Material Description	Material Location	Friability	Estimated Quantity
M-21-C- EJM01- 01	Northeast in guardrail	PLM ND	Good	Black, fibrous, tar-	Northeast	Non-	5 SF
M-21-C- EJM01- 02	Northeast in guardrail	PLM ND	- G000	impregnated expansion joint material	guardrail	Friable	5 SF

Notes: ND – No Asbestos Detected
PLM – Polarized Light Microscopy
SF – Square Feet

Paint Chip Sample Summary Table

Sample ID	Sample Description & Location	Analytical Result (%)
M-21-C-LP01	White paint collected from concrete wing wall. Sample collected from northeast wall.	<u>Lead</u> 6.5
M-21-C-LP02	Black paint taken from concrete wing wall. Sample collected at northwest wall.	<u>Lead</u> 6.9

Notes: BRL – Below Reporting Limit % - Percent
Lead-Based Paint – 0.5% or greater

Toxicity Characteristic Leaching Procedure (TCLP) Sample Summary Table

Sample ID	Sample ID Sample Description & Location			
M-21-C-TCLP01	Composite sample of bridge components including the black and white lead-based paints	<u>Lead</u> BRL		

Notes: BRL – Below Reporting Limit (less than 0.25 mg/l)

mg/l – milligrams per liter
Regulatory Level as Hazardous Waste (for Lead) – 5.0 mg/l or greater



January 15, 2020

Subcontractor Number:

Laboratory Report: RES 453730-1 Project #/P.O. #: 22362.10.50

Project Description: R2 and R4 bridges

Tim Hagert Colorado Dept. of Transportation (Denver) 2829 West Howard Place Denver CO 80204

Dear Tim,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 453730-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer

President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 453730-1

Client: Colorado Dept. of Transportation (Denver)

Client Project Number / P.O.: 22362.10.50

Client Project Description: R2 and R4 bridges
Date Samples Received: January 13, 2020

Method: EPA 600/R-93/116 - Short Report, Bulk

Turnaround: Standard

Date Samples Analyzed: January 14, 2020 - January 15, 2020

ND=None Detected
TR=Trace, <1% Visual Estimate
Trem/Act=Tremolite/Actinolite

Client	L	Sub	Asbestos Content	Non Asbestos	Non- Fibrous
Sample Number	Y Physical		Mineral Visual	Fibrous	Components
	E Description R	(%)	Estimate (%)	Components (%)	(%)
M-22-U-TR01-01	A Black resinous tar w/ tan granular material	100	ND	0	100
M-22-U-TR01-02	A Black resinous tar	20	ND	0	100
	B Black tar w/ tan granular material	30	ND	0	100
	C Tan granular material	50	ND	0	100
M-21-B-EJM01-01	A Black micaceous tar	100	ND	5	95
M-21-B-EJM01-02	A Black micaceous tar	100	ND	0	100
M-21-C-EJM01-02	A Brown felt	3	ND	65	35
	B Black tar	97	ND	0	100
M-21-C-EJM01-01	A Brown felt	10	ND	65	35
	B Black tar	90	ND	0	100
N-21-C-TR01-01	A Black tar	100	ND	0	100
N-21-C-TR01-02	A Black tar	100	ND	0	100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.

Analyst

Analyst / Data QA

Project Number and/or P.O. #:

Project Description/Location:

COLORADO DEPT. OF TRANSPORTATION (DEN

22362.10.50

R2 AND R4 BRIDGES

an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

2829 WEST HOWARD PLACE

DENVER, CO 80204

SUBMITTED BY

Address:

RES Job #: 453730



Contact:

Phone:

Fax:

Cell:

COLORADO DEPT. OF TRANSPORTATION (DEN .

2829 WEST HOWARD PLACE

TIM HAGERT

DENVER, CO 80204

CONTACT INFORMATION

TIM HAGERT

(720) 582-0694

Final Data Deliverable Email Address:

FIM.HAGERT@STATE.CO.US (+ 1 ADDNL. CONTACTS)

INVOICE TO

Company:

Address:

	1					
ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm	F	REQUESTED ANA	LYSIS	VALID MATRIX	CODES	LAB NOTES
PLM / PCM / TEM DTL RUSH PRIORITY STANDARD				Air = A	Bulk = B	
			ation	Dust = D	Food = F	
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm	p e	ý,	ld, ntific	Paint = P	Soil = S	
Dust RUSH PRIORITY STANDARD	Shatfi	al (7303),	2), Listeria, , Yeast & Mold, Drinking Water I, s (#- or Quant	Surface = SU	Swab = SW	
*PRIOR NOTICE DECLUDED FOR CAME DAY TAT	(ed),	Meta iquid san	1-2), Listeria Ls, Yeast & W r, Drinking W id, Lus (+/- or Qu on	Tape = T	Wipe = W	
Metals RUSH PRIORITY STANDARD *PRIOR NOTICE REQUIRED FOR SAME DAY TAT	uantif 0 137	Multi lon-L als Sc	e, 1-2) reus, Y reus, Y Acid, occus (Drinking Water	= DW	
	2, ISC	are), Jid, N Metz	able, aure Wate tic A ococ	Waste Water :	= WW	
Organics* SAME DAY RUSH PRIORITY STANDARD	(+/- 031;	odw. Full	Culturable, 1-2 3d, S. aureus, State Water, D), Lactic Acid, Enterococcus	**ASTM E1792 approved	wipe media only**	
MICROBIOLOGY LABORATORY HOURS: Weekdays: 8am - 5pm	ovac ISO	ir, Fo), pH Scan	nella (C s - Plate E.coli (S fication) w/ID), t			
Viable Analysis** PRIORITY STANDARD	Micr Micr (+/-	Wate ware ume ? TSS	none ms - l sx/E.c ntifice D, w/			
**TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH	Report (SH 7, Bulk	aste Food ng Fu	Salr Salr form Quar (wo/ll			
Medical Device Analysis RUSH STANDARD	ong F uanti NIO: Vater	e oldi, w	oli/O oli/O i, +/-, yunt			
	or Q ing V, C	s) P	r, Bac Count Vater val C, oal C,	g g		
Mold Analysis RUSH PRIORITY STANDARD	Repo (+/- Jrink 7400	Resp alyte (082, Was '8 Sc Meth	acter 7:H7 ate C ing V ing V crobic	/ Are		
**Turnaround times establish a laboratory priority, subject to laboratory volume and are not	Short F AHERA H- or Q: Water, I	otal,	oylob i O15 Drink e Mic L - Bi	(T)		
guaranteed. Additional fees apply for afterhours, weekends and holidays.**	- · · ·	DUST - Total METALS - An Lead Only (7 6020A 200.8 TCLP RCR.	Campy E.coli C Areobi Non-Di Viable DICAL	de elum		
Special Instructions:	PLM TEM Wipe Wast	DUST METAL Lead C 6020A TCLP	MEDIO Via	ple V		Laboratory Analysis Instructions
Client Sample ID Number (Sample ID's must be unique)	ASBESTOS	CHEMISTRY	MICROBIOLOGY	Sam	Date Collected mm/dd/yy	ilisti uctions
1 M-22-U-TR01-01	X			В		
2 M-22-U-TR01-02	X			В		
3 M-21-B-EJM01-01	X			В		
4 M-21-B-EJM01-02	X			В		
5 M-21-C-EJM01-02	X			В		
6 M-21-C-EJM01-01	X			В		
7 N-21-C-TR01-01	X			В		
8 N-21-C-TR01-02	X			В		
9 M-22-U-LP01		X		P		
10 M-22-U-LP02		X		P		
11 M-22-Y-LP01		X		P		
12 M-22-Y-LP02		X		P		
13 M-21-J-LP01	7	X		Р	-	

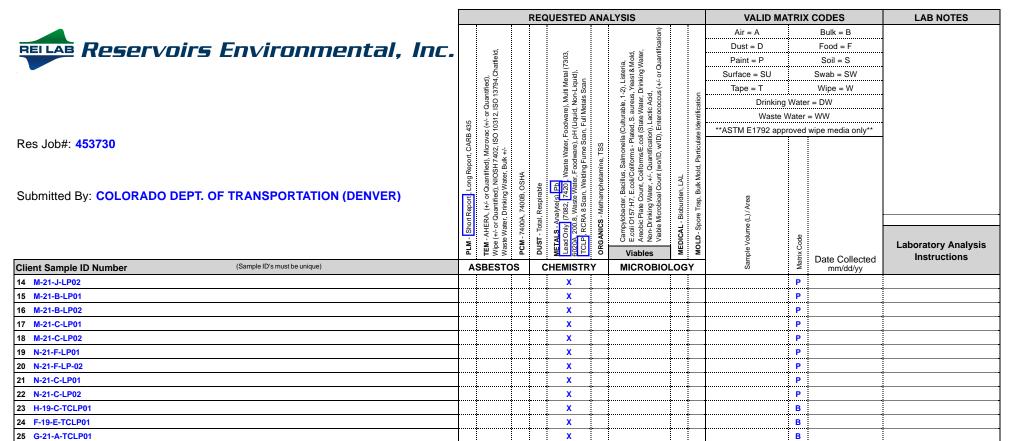
Received By: HANNA MARTI Date/Time: 01/13/2020 12:56:27 Carrier: HAND

Relinquished By:

REI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall consitute

Date/Time: 01/13/2020 12:56:27

Sample Condition: ACCEPTABLE - INTACT





January 20, 2020

Subcontractor Number:

Laboratory Report: RES 453730-2 Project #/P.O. #: 22362.10.50

Project Description: R2 and R4 bridges

Tim Hagert Colorado Dept. of Transportation (Denver) 2829 West Howard Place Denver CO 80204

Dear Tim,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the American Industrial Hygiene Association, Lab ID 101533 - Accreditation Certificate #480. The laboratory is currently proficient in both IHPAT & ELPAT programs respectively.

Reservoirs has analyzed the following sample(s) using Atomic Absorption Spectroscopy (AAS) / Atomic Emission Spectroscopy - Mass Spectrometry (ICP-MS) per your request. Reported sample results were not blank corrected. The analysis has been completed in general accordance with the appropriate methodology as stated in the analysis table. Results have been sent to your office.

RES 453730-2 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Robin Klover Vice President

RESERVOIRS ENVIRONMENTAL, INC

NVLAP Lab Code 101896-0 AIHA Certificate of Accreditation #480 LAB ID 101533

TABLE: I ANALYSIS: LEAD IN PAINT

RES Job Number: RES 453730-2

Client: Colorado Dept. of Transportation (Denver)

Client Project/P.O.: **22362.10.50**

Client Project Description: R2 and R4 bridges
Date Samples Received: January 13, 2020

Analysis Type: REI CHEMISTRY SOP / USEPA SW846 3050B/7420-M

Turnaround: Standard

Date Samples Analyzed: January 15, 2020

NA = Not Analyzed NR = Not Received ND = None Detected

TR = Trace; <1 % Visual Estimate Trem-Act = Tremolite-Actinolite BAS = Below Analytical Sensitivity

BRL = Below Reporting Limit CBR = Cannot Be Read

Client ID Number	Reporting Limit (%)	LEAD CONCENTRATION (%)
M-22-U-LP01	0.0041	0.38
M-22-U-LP02	0.0036	38.5
M-22-Y-LP01	0.0046	1.9
M-22-Y-LP02	0.0041	0.27
M-21-J-LP01	0.0042	0.095
M-21-J-LP02	0.0042	0.89
M-21-B-LP01	0.0048	6.1
M-21-B-LP02	0.0045	38.2
M-21-C-LP01	0.0043	6.5
M-21-C-LP02	0.0040	6.9
N-21-F-LP01	0.0047	0.034
N-21-F-LP-02	0.0045	66.4
N-21-C-LP01	0.0040	6.9
N-21-C-LP02	0.0043	1.4

^{*} Unless otherwise noted all quality control samples performed within specifications established by the laboratory

Analyst/Data QA

Project Number and/or P.O. #:

Project Description/Location:

COLORADO DEPT. OF TRANSPORTATION (DEN

22362.10.50

R2 AND R4 BRIDGES

an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

2829 WEST HOWARD PLACE

DENVER, CO 80204

SUBMITTED BY

Address:

RES Job #: 453730



Contact:

Phone:

Fax:

Cell:

COLORADO DEPT. OF TRANSPORTATION (DEN .

2829 WEST HOWARD PLACE

TIM HAGERT

DENVER, CO 80204

CONTACT INFORMATION

TIM HAGERT

(720) 582-0694

Final Data Deliverable Email Address:

FIM.HAGERT@STATE.CO.US (+ 1 ADDNL. CONTACTS)

INVOICE TO

Company:

Address:

	1					
ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm	F	REQUESTED ANA	LYSIS	VALID MATRIX	CODES	LAB NOTES
PLM / PCM / TEM DTL RUSH PRIORITY STANDARD				Air = A	Bulk = B	
			ation	Dust = D	Food = F	
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm	, pe	ý,	ld, ntific	Paint = P	Soil = S	
Dust RUSH PRIORITY STANDARD	Shatfi	al (7303),	2), Listeria, , Yeast & Mold, Drinking Water I, s (#- or Quant	Surface = SU	Swab = SW	
*PRIOR NOTICE DECLUDED FOR CAME DAY TAT	(ed),	Meta iquid san	1-2), Listeria Ls, Yeast & W r, Drinking W id, Lus (+/- or Qu	Tape = T	Wipe = W	
Metals RUSH PRIORITY STANDARD *PRIOR NOTICE REQUIRED FOR SAME DAY TAT	uantif 0 137	Multi lon-L als Sc	e, 1-2) reus, Y reus, Y Acid, occus (Drinking Water	= DW	
	2, ISC	are), Jid, N Metz	able, aure Wate tic A ococ	Waste Water :	= WW	
Organics* SAME DAY RUSH PRIORITY STANDARD	(+/- 031;	odw. Full	Culturable, 1-2 3d, S. aureus, State Water, D), Lactic Acid, Enterococcus	**ASTM E1792 approved	wipe media only**	
MICROBIOLOGY LABORATORY HOURS: Weekdays: 8am - 5pm	ovac ISO	ir, Fo), pH Scan	nella (C s - Plate E.coli (S fication) w/ID), t			
Viable Analysis** PRIORITY STANDARD	Micr Micr (+/-	Wate ware ume ? TSS	none ms - l sxE.c ntifice D, w/			
**TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH	Report (seport SH 7, Bulk	aste Food ng Fu	Salr Salr form Quar (wo/ll			
Medical Device Analysis RUSH STANDARD	ong F uanti NIO: Vater	e oldi, w	oli/O oli/O t, Col t, +/-, bunt			
	or Q ing V, C	s) P	r, Bac Count Vater val C, oal C,	g g		
Mold Analysis RUSH PRIORITY STANDARD	Repo (+/- Jrink 7400	Resp alyte (082, Was '8 Sc Meth	acter 7:H7 ate C ing V ing V crobic	/ Are		
**Turnaround times establish a laboratory priority, subject to laboratory volume and are not	Short F AHERA H- or Q: Water, I	otal,	oylob i O15 Drink e Mic L - Bi	(T)		
guaranteed. Additional fees apply for afterhours, weekends and holidays.**	- · · ·	DUST - Total METALS - An Lead Only (7 6020A 200.8 TCLP RCR.	Campy E.coli C Areobi Non-Di Viable DICAL	de elum		
Special Instructions:	PLM TEM Wipe Wast	DUST METAL Lead C 6020A TCLP	MEDIO Via	ple V		Laboratory Analysis Instructions
Client Sample ID Number (Sample ID's must be unique)	ASBESTOS	CHEMISTRY	MICROBIOLOGY	Sam	Date Collected mm/dd/yy	ilisti uctions
1 M-22-U-TR01-01	X			В		
2 M-22-U-TR01-02	X			В		
3 M-21-B-EJM01-01	X			В		
4 M-21-B-EJM01-02	X			В		
5 M-21-C-EJM01-02	X			В		
6 M-21-C-EJM01-01	X			В		
7 N-21-C-TR01-01	X			В		
8 N-21-C-TR01-02	X			В		
9 M-22-U-LP01		X		P		
10 M-22-U-LP02		X		P		
11 M-22-Y-LP01		X		P		
12 M-22-Y-LP02		X		P		
13 M-21-J-LP01	7	X		Р	-	

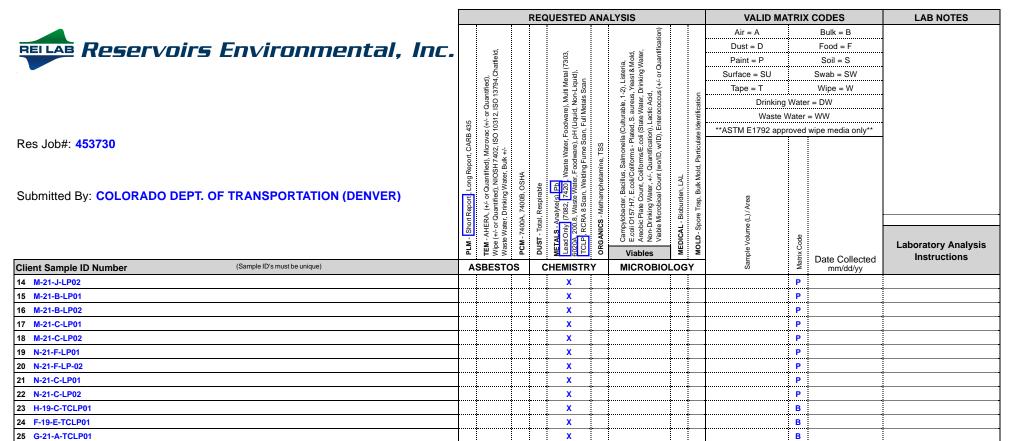
Received By: HANNA MARTI Date/Time: 01/13/2020 12:56:27 Carrier: HAND

Relinquished By:

REI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall consitute

Date/Time: 01/13/2020 12:56:27

Sample Condition: ACCEPTABLE - INTACT





February 03, 2020

Subcontractor Number:

Laboratory Report: RES 454456-1 Project #/P.O. #: 22362.10.50

Project Description: R2 bridge inspections

Tim Hagert Colorado Dept. of Transportation (Denver) 2829 West Howard Place Denver CO 80204

Dear Tim,

Reservoirs has analyzed the following sample(s) using Atomic Absorption Spectroscopy (AAS) / Atomic Emission Spectroscopy - Inductively Coupled Plasma (AES-ICP) per your request. Reported sample results were not blank corrected. The analysis has been completed in general accordance with the appropriate methodology as stated in the analysis table. Results have been sent to your office.

RES 454456-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Robin Klover Vice President

Roll & K

RESERVOIRS ENVIRONMENTAL, INC

NVLAP Lab Code 101896-0 AIHA Certificate of Accreditation #480 LAB ID 101533

TABLE: I ANALYSIS: LEAD VIA TCLP EXTRACTION

RES Job Number: RES 454456-1

Client: Colorado Dept. of Transportation (Denver)

Client Project/P.O.: **22362.10.50**

Client Project Description: R2 bridge inspections
Date Samples Received: January 22, 2020

Analysis Type: REI CHEMISTRY SOP / USEPA SW846 1311/3011A/7420-M

Turnaround: Standard

Date Samples Analyzed: January 28, 2020

NA = Not Analyzed NR = Not Received ND = None Detected

TR = Trace; <1 % Visual Estimate
Trem-Act = Tremolite-Actinolite

BAS = Below Analytical Sensitivity BRL = Below Reporting Limit CBR = Cannot Be Read

Client ID Number	Reporting Limit (µg/L)	LEAD CONCENTRATION (μg/L)
M-22-U-TCLP01	250	270
M-22-Y-TCLP01	250	BRL
M-21-J-TCLP01	250	BRL
M-21-B-TCLP01	250	BRL
M-21-C-TCLP01	250	BRL
N-21-F-TCLP01	250	BRL
N-21-C-TCLP01	250	BRL

^{*} Unless otherwise noted all quality control samples performed within specifications established by the laboratory

Analyst/Data QA

COLORADO DEPT. OF TRANSPORTATION (DEN

SUBMITTED BY

RES Job #: 454456



Contact:

CONTACT INFORMATION

TIM HAGERT

INVOICE TO

Company: COLORADO DEPT. OF TRANSPORTATION (DEN .

SE	RIES			
-1	CHEM	STANDARD		
-2	CHEM	STANDARD		
-3	PLM S	STANDARD		

В

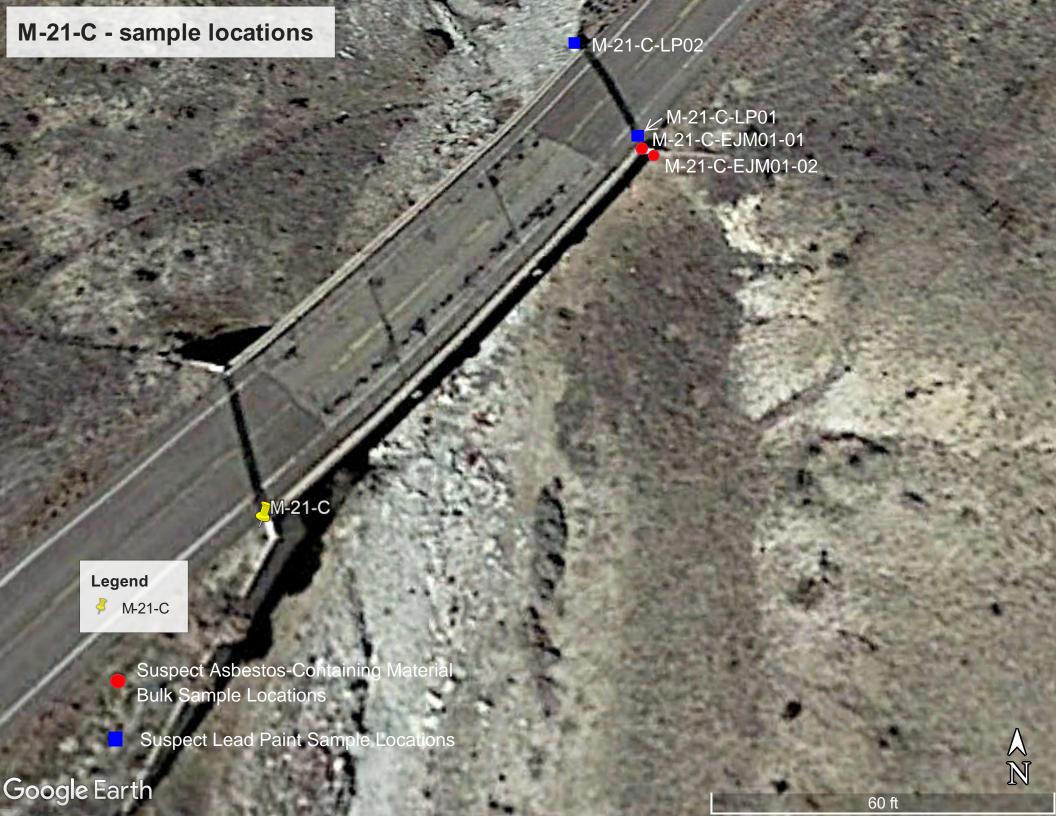
Address: 2829 WEST HOW	ARD PLACE	Address: 2829 WEST HOWARD PLACE	Phone:	(720) 582	-0694			-3 F	PLM STA	ANDARD	
			Fax:								
DENVER, CO 802	204	DENVER, CO 80204	Cell:								
Project Number and/or P.O. #:	22362.10.50		Final Dat	a Deliverable	Email A	ddress:					
Project Description/Location:	R2 BRIDGE INSPECTION	S	TIM.HAG	ERT@STATE	.co.us ((+ 1 ADDNL. CON	TACTS)				
ASBESTOS LABORATOR	Y HOURS: Weekdays: 7am - 7	pm & Sat. 8am - 5pm		REQUEST	TED AN	ALYSIS		VAL	ID MATE	RIX CODES	LAB NOTES
PLM / PCM / TEM	DTL RUSH PRIORITY	STANDARD						Air = A	Ą	Bulk = B	
] [ation		Dust =	D	Food = F	
CHEMISTRY LABORATOR	Y HOURS: Weekdays: 8am -	5pm	je P	303.	ŝ	ild, ter, intific		Paint =	Р	Soil = S	
Dust	RUSH PRIORITY STAND	ARD	Chat		٠	eria, & Mold, g Water r Quanti		Surface =	= SU	Swab = SW	
		*PRIOR NOTICE REQUIRED FOR SAME DAY TAT	ied),	Z eg	Liquid), Scan	, List east inkin inkin		Tape =	Т	Wipe = W	
Metals	RUSH PRIORITY STAND	PARD	uanti 0 13	Σ	lon-I als S	er, Dl cid,	tion	D	rinking Wa	ater = DW	
			2, IS	are).	uid, 7	rable aure Wat ctic A	iffi ca	V	Vaste Wat	ter = WW	
Organics*	SAME DAY RUSH PRIOF	RITY STANDARD	435 (+/- 1031	Ap o	j. j.	Sultu ed, S State State), La	lden	**ASTM E17	92 approv	red wipe media only**	
MICROBIOLOGY LABORA	TORY HOURS: Weekdays: 8a	ım - 5pm	NRB ovac ISO	F.	Scan Scan	lla (C poli (3 ation ID), I	late	(ton			
Viable Analysis**	PRIORITY STANDARD		rt, C/ , Micr , 402, <+/-	Wate	ware ume	mone ms - sx/E.c ntifice D, w/	artic	r Aliq			
		**TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH	Repo fled) SH 7 SUII	aste	Food ng F	Salr oliform iform Qua (wo/l	d, P	a pe			
Medical Device Analysis	RUSH STANDARD		ong f uanti NIO	SSH,	Neld Neta	cillus cillus t, Col t, Col ount	k k	or Are			
			or Q filed),	0B, C	te W.	r, Ba	den, p, Bu	aa idth(c			
Mold Analysis	RUSH PRIORITY STAND	AKD	ğ ÷ i i i	98 as 25	et Scari	g: 8 7 9 6 3	ıa :	₹ ≥			

	aboratory priority, subject to laboratory volume and are not fees apply for afterhours, weekends and holidays.**	PLM - Short Re	TEM - AHERA, (PCM - 7400A, 7.	DUST - Total, Re	METAL S - Analy Lead Only (708 6020A, 200.8, W TCLP, RCRA 8	ORGANICS-M	Campylobac E.coli O157: Araobic Plat Non-Drinkin Viable Micro	MOLD - Spore T	mple Volume (L) / ,	ngth(or Aliquots) x	trix Code	fContainers	ate Collected mm/dd/yy	me Collected hh:mm	Laboratory Analysis Instructions
Client Sample ID Number	(Sample ID's must be unique)	Α	SBEST	os	C	HEMISTR'	Υ	MICROBIOLOG	Υ	Saı		Σ	#	۵	F	
1 M-22-U-TCLP01						X						В				
2 M-22-Y-TCLP01						X						В				
3 M-21-J-TCLP01						X						В				
4 M-21-B-TCLP01						X						В				
5 M-21-C-TCLP01						X						В				
6 N-21-F-TCLP01						X						В				
7 N-21-C-TCLP01						X			Ι			В				
8 H-13-N-LP01						X			Ι			P				
9 H-13-N-TR01-01		X							Ī			В				

REI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall consitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:	mo- (ex-	TIM HAGERT	Date/Time: 01/22/2020 9:28:08	Sample Condition: ACCEPTABLE		
Received By:	ainK	ANNEMARIE KIEFFER	Date/Time: 01/22/2020 9:28:08	Carrier: HAND		

10 H-13-N-TR01-02



Bridge M-21-C Photographic Log



View of bridge M-21-C looking northeast.



Suspect asbestos-containing material M-21-C-EJM01. The expansion joint material is non-detect for asbestos.



Paint sample M-21-C-LP01. The white paint on concrete is considered lead-containing paint.



Paint sample M-21-C-LP02. The black paint on the concrete and metal girders is considered lead-based paint.



Colorado Department of Public Health and Environment

ASBESTOS CERTIFICATION*

This certifies that

Tim Hagert

Certification No.: 13915

has met the requirements of 25-7-507, C.R.S. and Air Quality Control Commission Regulation No. 8, Part B, and is hereby certified by the state of Colorado in the following discipline:

Building Inspector*

Issued:

January 23, 2019

Expires:

January 26, 2020

* This certificate is valid only with the possession of a current Division-approved training course certification in the discipline specified above.

Authorized APCD Representative