

Approved Ed Green 01 Aug 18

July 30, 2018

Ms. Jennifer Simpkins Kimley-Horn and Associates 7740 N. 16<sup>th</sup> Street, Suite 300 Phoenix, Arizona 85020

No ACM detected LCP > OSHA (Sample # L-6)

RE: **Job# 01-18-0142** 

Limited Asbestos and Lead Paint Survey
Chandler Heights Rd Improvements

Chandler Heights Road (<u>McQueen Road to Gilbert Road</u>)

ADOT TRACS NO. 0000 MA CHN T0099 01C

Chandler, Maricopa County, Arizona

### Dear Ms. Simpkins:

In accordance with your authorization to proceed, The Green Way Environmental Group (GWEG) has conducted a Limited Asbestos and Lead Paint Survey at the above-referenced project location. Based on information provided by Kimley-Horn and Associates, Inc. (Kimley-Horn) the project includes impacts on a select few utility monuments, underground pipes, fences, as well as some concrete sidewalk, gutter, irrigations canals, valley gutter, irrigation feature head walls, and associated materials. The scope of work for this Limited Asbestos and Lead Paint Survey is consistent with the Maricopa County and federal NESHAP regulations, as well as, ADOT Specifications. This letter report includes summaries of our activities, findings, and recommendations.

### PROJECT BACKGROUND

GWEG was retained by Kimley-Horn to conduct a limited asbestos and lead paint survey located at various locations along Chandler Heights Road from McQueen Road to Gilbert Road. The survey was limited to the suspect building materials scheduled to be impacted by a road improvement project.

### **ACTIVITIES**

On July 15 & 24, 2018 Mr. Ritchie Bump, an Environmental Protection Agency (EPA) Lead-Paint Inspector and Asbestos Hazard Emergency Response Act (AHERA) Certified Building Inspector with GWEG, collected Seventy-One (71) bulk samples of suspect asbestos-containing



building materials from the site and nine (9) sample materials suspected of containing lead-based paint (LBP).

The asbestos samples were submitted via chain of custody protocol to EMSL Analytical, Inc. (EMSL) of Phoenix, Arizona for analysis. EMSL is approved by the Arizona Department of Health Services pursuant to Arizona Revised Statute (A.R.S.) § 36-495.02 (5) to perform airborne and bulk asbestos fiber analysis (ADHS No. AZ0912). In addition, EMSL is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP No. 200811-0) for bulk asbestos fiber analysis. Sample analysis was conducted via Polarized Light Microscopy (PLM) in general accordance with EPA Method 600/R-93/116 and/or 600/M4-82-020. The analytical laboratory reports are attached to this letter report.

The LBP samples were also submitted via chain of custody protocol to Fiberquant Analytical Services, Inc. (FBQT) and EMLab P&K (EMLAB) both of Phoenix, Arizona for analysis. FBQT and EMLAB are both American Industrial Hygiene Association (AIHA) Accredited Laboratories for Environmental Lead. LBP sample analysis was conducted in general accordance with EPA SW-846 Method 7420. The analytical laboratory reports are attached to this letter report.

### **FINDINGS**

According to federal regulations, any material containing greater than one percent (1%) asbestos as determined by PLM or greater than 0.5% lead by weight as determined by the above Method is considered asbestos-containing material (ACM) and/or LBP, respectively. Materials considered asbestos or containing lead are highlighted in **bold**. A summary of the samples collected by GWEG is presented in the following tables:

Table 1 – Asbestos Results					
Sample No.	Sample Description	Location	Approximate Quantity (SF/LF/EA/NM)	Friable Y/N	Asbestos Content
1A	Saw-cut Concrete	Near South Bedford Drive	580 SF	N	ND
1B	Location	Near South Senate Street	300 SF	N	ND



Table 1 – Asbestos Results					
Sample No.	Sample Description	Location	Approximate Quantity (SF/LF/EA/NM)	Friable Y/N	Asbestos Content
1C		Adams Avenue Intersection		N	ND
1D		Near San Tan Junior High School		N	ND
1E		Near 130 <sup>th</sup> Street & CHR		N	ND
1F		Near Riggs Meadows Drive & CHR		N	ND
2A		Near South Bedford Drive		N	ND
2B		Near South Senate Street		N	ND
2C		Adams Avenue Intersection		N	ND
2D	Concrete	Near San Tan Junior High School	4.040.05	N	ND
2E	Curb/Gutter	South Tower Avenue	1,240 SF	N	ND
2F		Salt Cedar Street & CHR		N	ND
2G		130 <sup>th</sup> Street & CHR		N	ND
2H		132 <sup>nd</sup> Street & CHR		N	ND



	Table 1 – Asbestos Results				
Sample No.	Sample Description	Location	Approximate Quantity (SF/LF/EA/NM)	Friable Y/N	Asbestos Content
21		Lindl Drive & CHR		N	ND
2J		Riggs Ranch Street & CHR		N	ND
2K		East Side of Retention Pond & CHR		N	ND
2L		West Drive into Shopping Center & CHR		N	ND
2M		East Drive into Shopping Center & CHR		N	ND
ЗА		Near South Bedford Drive		N	ND
3B		Near South Senate Street		N	ND
3C	Concrete	Adams Avenue Intersection	4 67E OF	N	ND
3D	Sidewalk	Near San Tan Junior High School	1,675 SF	N	ND
3E		Salt Cedar Street & CHR		N	ND
3F		East Drive into Shopping Center & CHR		N	ND
4A	Valley Gutter Concrete	Near South Bedford Drive	760 SF	N	ND



Table 1 – Asbestos Results					
Sample No.	Sample Description	Location	Approximate Quantity (SF/LF/EA/NM)	Friable Y/N	Asbestos Content
4B		Near San Tan Junior High School		N	ND
4C		Salt Cedar Street & CHR		N	ND
4D		East Side of Retention Pond & CHR		N	ND
4E		West Drive into Shopping Center & CHR		N	ND
4F		East Drive into Shopping Center & CHR		N	ND
5A		East of South Sen- ate Street		N	ND
5B		West of Adams Av- enue		N	ND
5C		Across From San Tan Jr. High School		N	ND
5D	Concrete irrigation Ditch	Just West of South Tower Avenue	31,350 SF	N	ND
5E		Just West of Cooper Road		N	ND
5F		SWC of Cooper Road & CHR		N	ND
5G		Near Salt Cedar Street		N	ND



	Table 1 – Asbestos Results				
Sample No.	Sample Description	Location	Approximate Quantity (SF/LF/EA/NM)	Friable Y/N	Asbestos Content
5H		130 <sup>th</sup> Street & CHR		N	ND
6A		West of Adams Avenue	430 SF	N	ND
6B	Concrete	Cooper Road & CHR		N	ND
6C	Pavement	Salt Cedar Street & CHR		N	ND
6D		Lindl Drive & CHR		N	ND
7A		SWC of Adams Ave and CHR	660 SF	N	ND
7B	Concrete	Cooper Road and CHR		N	ND
7C	Headwall	Near 130 <sup>th</sup> Street & CHR		N	ND
7D		SWC of Riggs Ranch Street & CHR		N	ND
8A		NWC of Adams Ave and CHR		N	ND
8B	Concrete Pipe (underground)	NWC of Adams Ave and CHR	300 LF (UAC)	N	ND
8C		NWC of Adams Ave and CHR		N	ND



Table 1 – Asbestos Results					
Sample No.	Sample Description	Location	Approximate Quantity (SF/LF/EA/NM)	Friable Y/N	Asbestos Content
8D		Just West of Cooper Road & CHR		N	ND
9A		Near South 126 <sup>th</sup> Street		N	ND
9B		Near South 126 <sup>th</sup> Street		N	ND
9C	Concrete	Between 126 <sup>th</sup> Street & Cooper Road	770 SF	N	ND
9D	Bridges	Between 126 <sup>th</sup> Street & Cooper Road		N	ND
9E		Between 126 <sup>th</sup> Street & Cooper Road		N	ND
9F		Just West of Cooper Road		N	ND
10A		Monument Fence Across From School		N	ND
10B	Block/ Concrete Wall	East of Cooper Road	3,300 SF	N	ND
10C		East of Cooper Road		N	ND
LA-1	Green Paint	Utility Pedestal West of Adams Avenue	10 SF	N	ND
LA-2	White Paint	Utility Pedestal West of Adams Avenue	5 SF	N	ND



	Table 1 – Asbestos Results				
Sample No.	Sample Description	Location	Approximate Quantity (SF/LF/EA/NM)	Friable Y/N	Asbestos Content
LA-3	Tan Paint	Monument Fence Across From School	30 SF	N	ND
ADA-A		SEC of CHR & Adams Avenue		N	ND
ADA-B	Concrete ADA Pads	SEC of CHR & Adams Avenue	70 SF	Z	ND
ADA-C		SEC of CHR & Adams Avenue		N	ND
L-5	White/Asphalt	West End of Project	5,380 SF	Z	ND
L-6	Yellow/Asphalt	West End of Project	2,050 SF	N	ND
L-7	Yellow/Fire Hydrant	Just East of Copper Road on South Side of CHR	15 SF	N	ND
L-8	White/Asphalt	East End of Project	6,210 SF	Z	ND
L-9	Yellow/Asphalt	East End of Project	2,440 SF	Z	ND

CHR = Chandler Heights Road

**UAQ = Unable to Accurately Quantify (Underground)** 

SF = Square Feet

LF = Linear Feet

EA = Each

NM = Not Measured

ND = Non-Detect or Below Laboratory Detection Limits



	Table 2 – Lead Results				
Sample No.	Paint Description/Substrate	Location	Lead Content (% by Weight)		
L-1	Green/Metal	Utility Pedestal West of Adams Avenue	<0.0075		
L-2	White/Metal	Utility Pedestal West of Adams Avenue	<0.0092		
L-3	Tan/Block Fence	Monument Fence Across From School	<0.0015		
L-4	Red/Concrete	ADA Pads	<0.0040		
L-5	White/Asphalt	West End of Project	<0.0039		
L-6	Yellow/Asphalt	West End of Project	0.0240		
L-7	Yellow/Fire Hydrant	Just East of Copper Road on South Side of CHR	<0.0040		
L-8	White/Asphalt	East End of Project	<0.0039		
L-9	Yellow/Asphalt	East End of Project	<0.0036		
% = Percent by Weight BRL = Below Lab Reporting	Limits				

### **CONCLUSIONS AND RECOMMENDATIONS**

None of the above materials, sampled by GWEG, contained asbestos above 1%.

None of the paint chip samples, collected by GWEG, contained lead at levels greater than 0.5% by weight (lead).



If additional suspect building materials are discovered during the road improvement project activities, the materials should be sampled and analyzed for asbestos and/or lead content prior to disturbance or should be assumed ACM or LBP and handled as such.

### **LIMITATIONS**

The Green Way Environmental Group's conclusions and recommendations, as presented in this report, are based on limited sampling and analysis. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated.

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No other warranty, expressed or implied, is made regarding the professional conclusions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

The Green Way Environmental Group, LLC appreciates the opportunity to provide environmental consulting services to Kimley-Horn and Associates, Inc. and looks forward to future projects. Please contact us at (480) 639-0389 if you have any questions pertaining to this report.

Sincerely,

THE GREEN WAY ENVIRONMENTAL GROUP, LLC

Mr. Ritchie Bump Principal Hygienist

Figures: Figures 1 through 4 (Sample Location Maps)

Appendices: Appendix A – Personnel Certifications

Appendix B – Asbestos Laboratory Reports and Chain-of-Custodies Appendix C – Lead Paint Laboratory Reports and Chain-of-Custodies

Distribution: (1) Addressee



### **FIGURES**

FIGURES 1 THROUGH 4 (SAMPLE LOCATION MAPS)

### **Chandler Heights Road Improvements - McQueen to Adams Avenue**



NO
ASBESTOS
DETECTED

NO LEAD
PAINT
DETECTED



### **LEGEND**

√¹X Asbestos Sample Location (typical)

Lead Paint Sample Location (typical)

THE GREEN WAY ENVIRONMENTAL GROUP, LLC
3370 North Hayden Road Suite 123–187
Scottsdale, Arizona 85251

Sample Location Map	DATE	FIGURE
Chandler Heights Road Improvements - McQueen Road to Gilbert Road Chandler, Arizona	July 2018	1

### **Chandler Heights Road Improvements - Adams Avenue to Cooper Road**



NO
ASBESTOS
DETECTED

NO LEAD
PAINT
DETECTED



### **LEGEND**

√1X Asbestos Sample Location (typical)

**∠**L-X Lead Paint Sample Location (typical)

THE GREEN WAY	<b>ENVIRONMENTAL GROUP, LLC</b>
3370 North	Hayden Road Suite 123-187

Scottsdale, Arizona 85251

Sample Location Map	DATE	FIGURE
Chandler Heights Road Improvements - McQueen Road to Gilbert Road Chandler, Arizona	July 2018	2

### **Chandler Heights Road Improvements - Cooper Road to 132nd Street**



### **LEGEND**

√¹X Asbestos Sample Location (typical)

Lead Paint Sample Location (typical)

THE GREEN WAY ENVIRONMENTAL GROUP, LLC
3370 North Hayden Road Suite 123-187
Scottsdale, Arizona 85251

Sample Location Map	DATE	FIGURE
Chandler Heights Road Improvements - McQueen Road to Gilbert Road Chandler, Arizona	July 2018	3

### **Chandler Heights Road Improvements - 132nd Street to Gilbert Road**



### **LEGEND**

√¹X Asbestos Sample Location (typical)

Lead Paint Sample Location (typical)

THE GREEN WAY	ENVIRONMENTAL	GROUP, LLC
	Hayden Road Suite 123-187	,
Scot	ttsdåle. Arizona 85251	

Sample Location Map	DATE	FIGURE
Chandler Heights Road Improvements - McQueen Road to Gilbert Road Chandler, Arizona	July 2018	4



### **ATTACHMENT A**

### **PERSONNEL CERTIFICATIONS**

## THE ASBESTOS INSTITUTE

Certifies that

## Ritchie Bump

has attended and received instruction in the EPA approved course

## AHERA Building Inspector Refresher

o

## November 07, 2017

and successfully completed and passed the competency exam.

4646-352-110717

Date of Examination: 7-Nov-2017

Date of Expiration: 07-Nov-2018

William T. Cavness. Director

Approved Instructor

## THE ASBESTOS INSTITUTE

20033 N. 19th Ave, Building 6, Phoenix, AZ 85027 602-864-6564 – www.theasbestosinstitute.com

This training meets all requirements for asbestos certification under Toxic Substance Control Act Title II.

# Anited States Environmental Protection Agency

## This is to certify that

Richard A Bump



has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

### life Jurisdiction of

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires June 20, 2020

JMITED STATES WAL PROTECTION

Adrienne Priselac, Manager, Toxics Office

Land Division

LBP-I-I177458-1

June 06, 2017

Certification #

Issued On



### **ATTACHMENT B**

**ASBESTOS LABORATORY REPORTS AND CHAIN-OF-CUSTODIES** 



**EMSL Order:** 121804448 **Customer ID:** GWEG25

Customer PO: Project ID:

Fax:

Attention: Ritchie Bump Phone: (480) 440-5664

The Green Way Environmental Group

PO Box 5705 Received Date: 07/17/2018 4:55 PM

Scottsdale, AZ 85261 Analysis Date: 07/18/2018

Collected Date: 07/17/2018

Project: 01-18-0142 KH (CHR - McQueen To Gilbert)

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-A	<u>sbestos</u>	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
1A	Sawcut Concrete Material	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0001 1B	Sawcut Concrete	Homogeneous Gray		100% Non-fibrous (Other)	None Detected
121804448-0002	Material	Non-Fibrous Homogeneous			
1C 121804448-0003	Sawcut Concrete Material	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
1D	Sawcut Concrete Material	Homogeneous Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0004		Homogeneous			
1E	Sawcut Concrete Material	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0005		Homogeneous			
1F 121804448-0006	Sawcut Concrete Material	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2A	Concrete Curb / Gutter	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0007		Homogeneous			
2B	Concrete Curb / Gutter	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0008		Homogeneous			
2C	Concrete Curb / Gutter	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0009	On a sector Occube /	Homogeneous		4000/ Nov. Electric (Otton)	Non-Batastad
2D 121804448-0010	Concrete Curb / Gutter	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2E	Concrete Curb / Gutter	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0011		Homogeneous			
2F	Concrete Curb / Gutter	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0012		Homogeneous			
2G	Concrete Curb / Gutter	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0013	0 1011	Homogeneous		4000/ N 51 (0/1 )	
2H 121804448-0014	Concrete Curb / Gutter	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
	Concrete Curb /	Homogeneous		100% Non-fibrous (Other)	None Detected
2I 121804448-0015	Gutter	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2J	Concrete Curb / Gutter	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0016	- Cattor	Homogeneous			



**EMSL Order:** 121804448 **Customer ID:** GWEG25

Customer PO: Project ID:

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-As	sbestos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
2K	Concrete Curb / Gutter	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0017		Homogeneous			
2L	Concrete Curb / Gutter	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0018		Homogeneous			
2M	Concrete Curb / Gutter	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0019		Homogeneous			
BA	Concrete Sidewalk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0020		Homogeneous			
3B	Concrete Sidewalk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0021		Homogeneous			
3C	Concrete Sidewalk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0022		Homogeneous			
3D	Concrete Sidewalk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0023		Homogeneous			
3E	Concrete Sidewalk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0024		Homogeneous			
3F	Concrete Sidewalk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
21804448-0025		Homogeneous		1000/ N 51 (OII )	
1A 121804448-0026	Valley Gutter Concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
	Valley Cutter			1000/ Non fibrous (Other)	None Detected
4B 121804448-0027	Valley Gutter Concrete	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4C	Valley Gutter	Gray		100% Non-fibrous (Other)	None Detected
121804448-0028	Concrete	Non-Fibrous Homogeneous		100% Non-librous (Other)	None Detected
4D	Valley Gutter	Gray		100% Non-fibrous (Other)	None Detected
21804448-0029	Concrete	Non-Fibrous Homogeneous		100 % Non-librous (Other)	None Detected
4E	Valley Gutter Concrete	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
21804448-0030		Homogeneous			
4F	Valley Gutter Concrete	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0031		Homogeneous			
5A	Concrete Irrigation Ditch	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0032		Homogeneous			
5B	Concrete Irrigation Ditch	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0033		Homogeneous			
5C	Concrete Irrigation Ditch	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0034		Homogeneous			
5D	Concrete Irrigation Ditch				Not Submitted
121804448-0035					



EMSL Order: 121804448 Customer ID: GWEG25

Customer PO: Project ID:

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-A	sbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
5E	Concrete Irrigation Ditch	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0036		Homogeneous			
5F	Concrete Irrigation Ditch	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0037	One seeks below the	Homogeneous		4000/ New Shares (Others)	News Betested
5G 121804448-0038	Concrete Irrigation Ditch	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
	Canarata Irrigation	Homogeneous			Not Cubmitted
5H	Concrete Irrigation Ditch				Not Submitted
121804448-0039	Concrete Dayoment	Crov		1000/ Non Fibrous (Othor)	None Detected
5A 121804448-0040	Concrete Pavement	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6B	Concrete Pavement	Gray		100% Non-fibrous (Other)	None Detected
121804448-0041	Concrete Favernent	Non-Fibrous Homogeneous		100% Non-librous (Ottler)	None Detected
6C	Concrete Pavement	Gray		100% Non-fibrous (Other)	None Detected
121804448-0042	Concrete Favernerit	Non-Fibrous Homogeneous		100 % Non-indicas (Other)	None Detected
6D	Concrete Pavement	Gray		100% Non-fibrous (Other)	None Detected
121804448-0043	Concrete Favernent	Non-Fibrous Homogeneous		100% Non-librous (Other)	None Detected
	Concrete Headwall	-		1000/ Non fibrous (Other)	None Detected
7A 121804448-0044	Concrete Headwall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
	Concrete Headwall			1000/ Non fibrous (Other)	None Detected
7B 121804448-0045	Concrete Headwall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7C	Concrete Headwall	Gray		100% Non-fibrous (Other)	None Detected
121804448-0046	Concrete Headwall	Non-Fibrous Homogeneous		100 % Non-indicas (Other)	None Detected
7D	Concrete Headwall	Gray		100% Non-fibrous (Other)	None Detected
		Non-Fibrous		,	
121804448-0047		Homogeneous			
3A	Concrete Pipe (Underground)	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0048	Compando Dino	Homogeneous		4000/ Non Sharry (Other)	Nama Datastad
3B 121804448-0049	Concrete Pipe (Underground)	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
	Concrete Pipe	Homogeneous		100% Non-fibrous (Other)	None Detected
8C	(Underground)	Gray Non-Fibrous		100% Non-librous (Other)	None Detected
121804448-0050		Homogeneous			
8D	Concrete Pipe (Underground)	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0051		Homogeneous			
9A	Concrete Bridges	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0052		Homogeneous			
9B	Concrete Bridges	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0053		Homogeneous			
9C	Concrete Bridges	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0054		Homogeneous			



**EMSL Order:** 121804448 **Customer ID:** GWEG25

Customer PO: Project ID:

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Ask	<u>pestos</u>	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
9D	Concrete Bridges	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0055		Homogeneous			
9E	Concrete Bridges				Not Submitted
121804448-0056					
9F	Concrete Bridges				Not Submitted
121804448-0057					
10A	Block/Concrete Wall	Gray Fibrous	2% Glass	98% Non-fibrous (Other)	None Detected
121804448-0058 Paint excluded.		Homogeneous			
10B	Block/Concrete Wall	Gray Non-Fibrous	2% Glass	98% Non-fibrous (Other)	None Detected
121804448-0059 Paint excluded.		Homogeneous			
10C	Block/Concrete Wall	Gray Non-Fibrous	2% Glass	98% Non-fibrous (Other)	None Detected
121804448-0060 Paint excluded.		Homogeneous			
LA-1	Green Paint	Green Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0061		Homogeneous			
LA-2	White Paint	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0062		Homogeneous			
LA-3	Tan Paint	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804448-0063		Homogeneous			

Analyst(s)

Jessica Garza (18) Jacob Markey (41) Michelle Wilson

Michelle Wilson, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Phoenix, AZ NVLAP Lab Code 200811-0, AZ0937

OrderID: 121804448



### Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

121804448

EMSL ANALYTICAL, INC. 3356 W CATALINA PHOENIX, AZ 85017

PHONE: (602) 276-4344 FAX: 4053

EMSL-Bill to: Same Different Company: The Greenway Group If Bill to is Different note instructions in Comments\* Street: 3370 North Hayden Road Suite 123-187 Third Party Billing requires written authorization from third party City: Scottsdale State/Province: AZ Zip/Postal Code: 85251 Country: Report To (Name): Ritchie Bump; Fax #: Email:LABRESULTS@GWEG-AZ.COM Telephone #: 480-888-6938-... Project Name/Number: 01-18-Please Provide Results: Fax U.S. State Samples Taken: Turnaround Time (TAT) Options\* - Please Check 3 Hours 6 Hours 24 Hrs 48 Hrs 3 Days 4 Days 5 Days 10 Days
\*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign 3 Hours an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. PCM - Air TEM - Air TEM- Dust ☐ NIOSH 7400 AHERA 40 CFR, Part 763 Microvac - ASTM D 5755 ☐ w/ OSHA 8hr. TWA ☐ NIOSH 7402 ☐ Wipe - ASTM D6480 PLM - Bulk (reporting limit) ☐ EPA Level II ☐ Carpet Sonication (EPA 600/J-93/167) PLM EPA 600/R-93/116 (<1%) ☐ ISO 10312 Soil/Rock/Vermiculite ☐ PLM EPA NOB (<1%) TEM - Bulk ☐ PLM CARB 435 - A (0.25% sensitivity) Point Count ☐ TEM EPA NOB ☐ PLM CARB 435 - B (0.1% sensitivity) 400 (<0.25%) 1000 (<0.1%) NYS NOB 198.4 (non-friable-NY) ☐ TEM CARB 435 - B (0.1% sensitivity) Point Count w/Gravimetric ☐ Chatfield SOP ☐ TEM CARB 435 - C (0.01% sensitivity) 400 (<0.25%) 1000 (<0.1%) ☐ TEM Mass Analysis-EPA 600 sec. 2.5 ☐ EPA Protocol (Semi-Quantitative) NYS 198.1 (friable in NY) TEM - Water: EPA 100.2 ☐ EPA Protocol (Quantitative) NYS 198.6 NOB (non-friable-NY) Other: All Fiber Sizes Waste Drinking ■ NIOSH 9002 (<1%)</p> Check For Positive Stop - Clearly Identify Homogenous Argup Samplers Name: Samplers Signature: Volume/Area (Air) Date/Time Sample # Sample Description HA # (Bulk) Sampled Total # of Samples: Client Sample # (s): 18-7/17/18 Relinquished (Client): Time: Received (Lab): / Time: Comments/Special Instructions:

Controlled Document - Asbestos COC - R1 - 3/18/2009

Page 1 of 4

Job#: 01-18-0142 7/15/2018

Address CHR (McQueen Road to Gilbert Road)

Space:

Inspector: アムムへ

Ritchie Bump

Cert #:

BULK SAMPLING LOG

The Green Way Environmental Group, LLC

3370 North Hayden Road Suite 123-187 Scottsdale, Arizona

O: (480) 639-0389



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## **BULK SAMPLING LOG**

Address: Job # : CHR (McQueen Road to Gilbert Road) 7/15/2018 01-18-0142

Date:

Space: Lab: **EMLab** 

The Green Way Environmental Group, LLC 3370 North Hayden Road Suite 123-187

Scottsdale, Arizona O: (480) 639-0389



Ord	erII	D Conditi	12	180	444	18																			Lab	Inspector:
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## **BULK SAMPLING LOG**

Date : Job # : 7/15/2018 01-18-0142

Address: Space: CHR (McQueen Road & Gilbert Road)

Lab: **EMLab** 

Inspector: Ritchie Bump

Cert #:

The Green Way Environmental Group, LLC 3370 North Hayden Road Suite 123-187

Scottsdale, Arizona O: (480) 639-0389



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Page 4 Of

4



PO Box 5705

Scottsdale, AZ 85261

The Green Way Environmental Group

EMSL Order: 121804609 Customer ID: GWEG25

Customer PO: Project ID:

Phone: (480) 440-5664

Fax:

**Received Date:** 07/24/2018 4:10 PM **Analysis Date:** 07/24/2018 - 07/25/2018

Collected Date: 07/24/2018

Project:

Attention: Ritchie Bump

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-A	<u>sbestos</u>	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
ADA-A	ADA PAD	Red Non-Fibrous		100% Non-fibrous (Other)	None Detected
121804609-0001		Homogeneous			
ADA-B	ADA PAD	Red		100% Non-fibrous (Other)	None Detected
		Non-Fibrous			
121804609-0002		Homogeneous			
ADA-C	ADA PAD	Red		100% Non-fibrous (Other)	None Detected
		Non-Fibrous			
121804609-0003		Homogeneous			

Analyst(s)

Isai Portillo (1) Lindsay Rye (2) Michelle Wilson

Michelle Wilson, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Phoenix, AZ NVLAP Lab Code 200811-0, AZ0937

Initial report from: 07/25/2018 12:46:11

OrderID: 121804609



### **Asbestos Bulk Building Material Chain of Custody**

EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 3356 W CATALINA PHOENIX, AZ 85017

PHONE: (602) 276-4344

FAX: 4053

Company :	The Greenway Gr	oup				Same Different instructions in Comments**
Street: 3370	North Hayden Roa	d Suite 123-187		Third Party B	Billina reauires writ	tten authorization from third party
City: Scotts	dale	State/Province: AZ	Zip	/Postal Code:		Country:
Report To (Name	e): Ritchie Bump		Tel	ephone #: 4	80-888-6938	Fax #:
Email Address:	labresults@gweg-az	.com	•			
Project Name/Nu	ımber:					
U.S. State Samp	les Taken:	Please Provide Results			Purchase Or	rder:
		Turnaround Time (1		_		15
		24 Hour 48 Hou		72 Hour	96 Hour	PA Level II TAT. You will be asked to sign
an authoriza	tion form for this service.	Analysis completed in accor	dance w	ith EMSL's Terms	and Conditions loc	cated in the Analytical Price Guide.
	LM - Bulk (reportin	g limit)			TEM -	
PLM EPA 600						/116 Section 2.5.5.1
☐ PLM EPA NO	CONTRACTOR OF THE PARTY OF THE				d 198.4 (TEM)	
	00 (<0.25%) 🗌 1000		The second second		ol (semi-quantita	
Point Count w/Gra	avimetric 🗌 400 (<0	.25%) 🗌 1000 (<0.1%)	☐ TE	M % by Mass	- EPA 600/R-93	3/116 Section 2.5.5.2
☐ NIOSH 9002	N				via Filtration Pre	
The second of th	thod 198.1 (friable in	10 TO 10 M	_ TE	M Qualitative	via Drop Mount	Prep Technique
	thod 198.6 NOB (nor	n-friable-NY)			<u>Oth</u>	ner
OSHA ID-191			П			
☐ Standard Add	ition Method					
☐ Check For Po	sitive Stop – Clearl	y Identify Homogenous	Group	Date Samp	oled:	
Samplers Name:				Samplers Sigr	nature:	±
Sample #	M	aterial Description			Sa	mple Location
APA - A	ADA pad	-		51E	Corner o	1 Adams Are +CHR
ADA-B	ADA pad			SIE	Corner of	Adams Ave + CHR
ADA-C	ADA pul			5/11/	Corner of	Adams Ave + CHR
	,					
						i.
Client Sample #	(s):	_			Total #	of Samples:
Relinquished (C	lient): Rason	Forest Da	te: 7	7-24-18	<i>Y</i>	Time: 4:10
Received (Lab):		Da	te:	124/18		Time: 4:10
Comments/Spec	ial Instructions:			11		



Report for:

Mr. Ritchie Bump, EIT The Green Way Environmental Group PO Box 5705 Scottsdale, AZ 85261-5705

Regarding: Project: 01-18-0142KH; CHR-Mcque Gilbert

EML ID: 1967489

Approved by:

Dates of Analysis:

Asbestos PLM: 07-27-2018 and 07-30-2018

Approved Signatory Danny Li

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Lab ID-Version 1: 9281260-1

Lab ID-Version †: 9281261-1

17461 Derian Ave, Suite 100, Irvine, CA 92614 (866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: The Green Way Environmental Group

C/O: Mr. Ritchie Bump, EIT

Re: 01-18-0142KH; CHR-Mcque Gilbert

Date of Sampling: 07-24-2018 Date of Receipt: 07-25-2018 Date of Report: 07-30-2018

### ASBESTOS PLM REPORT

**Total Samples Submitted:** 5

**Total Samples Analyzed:** 5

**Total Samples with Layer Asbestos Content > 1%:** 0

### Location: L-4. ADA Pad (Red)

Location: L 1, 11D111 au (1teu)	
Sample Layers	Asbestos Content
Red Non-Fibrous Material	ND
Sample Composite Homogeneity:	Moderate

### Location: L-5. White R.S.

Location: L-3, white K.S.	Eas ID Version 1. 7201201 1		
Sample Layers	Asbestos Content		
Off-White Non-Fibrous Material	ND		
Sample Composite Homogeneity:	Moderate		

### Location: L-6, Road Strip (RS) (Yellow)

Location: L-6, Road Strip (RS) (Yellow)	Lab ID-Version‡: 9281262-1
Sample Layers	Asbestos Content
Yellow Non-Fibrous Material	ND
Sample Composite Homogeneity:	Moderate

### Location: L-8. White (Road Stripe)

Location: L-8, White (Road Stripe)	Lab ID-Version‡: 9281263-1
Sample Layers	Asbestos Content
Off-White Non-Fibrous Material	ND
Sample Composite Homogeneity:	Moderate

### Location: L-9. Yellow (Road Stripe)

Location: L-9, Yellow (Road Stripe)	Lab ID-Version‡: 9281264-1
Sample Layers	Asbestos Content
Yellow Non-Fibrous Material	ND
Sample Composite Homogeneity:	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

 $\ddagger$  A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K, LLC EMLab ID: 1967489, Page 2 of 2

## CHAIN OF CUSTODY CHAIN OF CUSTODY

www.EMt.abPK.com

4066 * (866) 896-6653	7 * (800) 651-4802	* (866) 871-1984			THE TON
	Heavy	Moderate	Light	None	
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					, Wind
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Füngi - Spore Trap Analysis  Spore Trap Analysis - Other particles  Direct Microscopia Exam (Qualitative)  Direct Microscopia Exam (Qualitative)  Quantitative Spore Count Direct Exam  1-Media Surface Fungi (Genus ID + Asp. spp.)  2-Media Surface Fungi (Genus ID + Asp. spp.)  3-Media Surface Fungi (Genus ID + Asp. spp.)  Culturable Air Fungi (Genus ID + Asp. spp.)  Gram Stain and Counts (Culturable Air and Surface Bacteriae Examination (Please specify organism)  Membrane Fätration (Please specify organism)  Membrane Fätration (Please specify organism)  Quantitray - Sewage Screen  Asbestos Analysis - PCM Airborne Fither Count (NIOSH 740  Asbestos Analysis - PLM (EPA method 600/R-93-116)  PCR (please specify lest)	CP - Contact Plate NP - Non-Potable Wate O - Other:	SAS - Surface Air Sample P - Potable Water B - Bulk	A1S - Andersen Allergenco, Burkard SW - Swatt SO - Soil / 1/6 50	BC-BioCassette ST-Spore Trap: T-Tape D-Dust (1) 7/24/5		W					1.9 Klb 10 / 100 /	1-8 MHITE / Road Stripe	T. T. TYPE TYDIANT ( Start )	1.6 Road Strip (RS) (YELKS & 1)	L-2 NiHiTG R.S. / feet. Me/cross Cotto	1-4 ADA PAO /RED) KINTOD	Company: The Green Way Environmental Group, LLC Address: S370 North Haydon Road, #123-187, Scottsciale, AZ 88251  Company: The Green Way Environmental Group, LLC Special Instructions; email results to Labyrasuits@gweig-az.com  Phone: (480): 898-6938  Project ID: 21-15-01-42 KW Project Dosc: 24 R7 LLC Quay (2164) NID - Next Business Day Project Code: Date & Time: 15-41-42 SD - Same Business Day Rush  PD Number: WH - Weekend/Holiday	Cherry Hill, NJ: 1936 Chery Avenue, Cherry Hill, NJ 08003 * (866) 871-1984  Phoenix, AZ: 1501 West Knudsen Dave, Phoenix, AZ 85027 * (800) 651-4602  Heavy  Heavy  Heavy		
Spore Trep Analysis - Other particles  Direct Microscopia Exam (Qualitative)  Quantitative Spore Count Direct Exam  1-Medie Surface Fungi (Genus ID + Asp. spp.)  2-Media Surface Fungi (Genus ID + Asp. spp.)  3-Media Surface Fungi (Genus ID + Asp. spp.)  Cultiurable Air Fungi (Genus ID + Asp. spp.)  Gram Stein and Counts (Culturable Air and Surface Bacteriag Disponella culture  Legionella culture  Total Coliform, E. coli (Presence/Absence)  Membrane Fishration (Please specify organism)  MPN Bacteria (Please specify organism)  CuantiTray - Sewage Screen  Asbestos Analysis - PCM Aliborne Fiber Count (NIOSH 740)  Asbestos Analysis - PLM (EPA method 600/R-93-116)  PCR (please specify lest)	<u> </u>	1	<u>                                     </u>		-	<del> -</del>	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u>.                                    </u>	<u>.                                    </u>		<u> </u>	Fundi - Spore Trao Analysis	<u></u> → &	Ť	
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By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at http://www.emiab.com/s/main/serviceterms.html
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### **ATTACHMENT C**

LEAD PAINT LABORATORY REPORTS AND CHAIN-OF-CUSTODIES



### Atomic Absorption Spectrometer (AAS) Analysis of Paint

JobNumber:

201806585

Client:

**GREEN WAY GROUP, THE** 

PO BOX 5705

SCOTTSDALE, AZ 85261-5705 Office Phone: (480) 639-0389 FAX: (480) 588-7856

# Samples: 3 AA Rec: 7/17/2018 Method: Modified SW 846 3050b/7420 Pb in paint by weight AA Analysis

Client Job: 01-18-0142 CHR (McQueen to Gilbert)

PO Number:

Report Date: 7/18/2018 Date Analyzed: 7/18/2018 Routing Number: -

Method and Analysis Information: Fiberquant Internal SOP: AApw

The received samples were analyzed for Pb (total) using "Test Methods for Evaluating Solid Waste" (SW 846, December 1996 updates). The extraction/digestion method was SW 3050b. The analytical method is "flame atomic absorption, direct aspiration", SW 7420.. Briefly the procedures are as follows. The incoming paint samples are first homogenized by mixing and crushing. A sub-sample is weighed to 0.0001 gm into a 50ml centrifuge tube. To the run stream are added the quality assurance samples described below. Six mls of concentrated HNO3 and one ml of 30% H2O2 are added to each container. The tubes are caped and heated for 1 hour at 95 deg. C. After cooling, the contents of the centrifuge tube are brought up to exactly 25 mls, completing the digestion/extraction.

The sample and quality assurance extractions are then analyzed on a Thermo M5 flame atomic absorption spectrometer or a Perkin Elmer Aanalyst 200. The wavelengths and other instrumental settings are set according to the manufacturer's recommendations, or as otherwise specified in the published method. Absorptions are recorded from sample and standard solutions. A calibration curve is fitted to at least three standard solutions, and the concentrations of the sample extracts are calculated from the curve. The ppm (ug/gm) and weight percent for each sample is calculated from the sub-sample weight, extract volume, and extract concentration.

The results from this analysis is generally compared to either the HUD guidelines, in which a sample is positive if it contains >0.5% (5000 ppm) Pb, or the Consumer Products Safety Commission (CPSC) limit, in which a paint or surface coating containing greater than 90 ppm is defined as lead-containing. The expected coefficient of variation for this method is approximately 20-30%. The results are reported to two significant figures. The Sample Reporting Limit (RL) listed below is twice the Sample Detection Limit, which is calculated for each sample from the experimentally determined Method Detection Limit. The limit of reliable quantitation is generally regarded as five to ten times the limit of detection. Therefore, samples smaller than 0.1 gm may give results too near the CPSC standard to be reliable. Problems in analysis or other information is provided in the "Analytical Notes" below. Blanks, if analyzed, are treated the same as samples and are not used for correcting non-blank results.

The following on-going quality assurance program was followed to ensure reproducible and dependable results: All analysts are degreed chemists trained extensively in-house for at least six months prior to un-supervised runs. Blank matrix samples are analyzed at a rate of 5% (at least one per run). Reference standards are analyzed at a rate of 5% (at least one per run), and compared to statistical records via control charts. Spiked matrix samples are analyzed at a rate of 5% (at least one per run), and compared to statistical records via control charts. Duplicate samples are analyzed at a rate of 5% (at least one per run), and compared to statistical records via control charts. For each instrumental run, the spectrometer is checked for sensitivity and stability. The calibration standards are made fresh weekly, and checked each run against a calibration verification standard from another source. All calculations are performed twice - once in a calibration spreadsheet, and once during the report generation, and also checked by hand. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. Fiberquant participates in the Environmental Lead Proficiency Analytical Testing (ELPAT) program, is accredited by AIHA-LAP, LLC for environmental lead in paint (Lab # 101593), and is recognized by the National Lead Laboratory Accreditation Program (NLLAP) for the analysis of Pb in paint. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

5025 S. 33rd Street Phoenix, Arizona 85040-2816 Phone: 602-276-6139 1-800-743-2687 FAX: 602-276-4558

Page 1 of 2 Fiberquant, Inc.

### Calibration Curve:

Pb

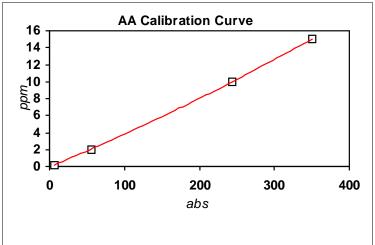
Run # 13052

Instrument: AA200

### 7/17/2018

Standards:		ppm	avg. mAbs.
	1	0.2	6
	2	2	56
	3	10	244
	4	15	351

0.00001733 ax2 0.03686621 bx -0.06094534 С R2 0.99995677



### **Analysis Results:**

Job Number:	201806585

Lab Number	Client Number	Date	Condition
2018-06585- 1	L-1	7/15/2018	acceptable
2018-06585- 2	L-2	7/15/2018	acceptable
2018-06585- 3	L-3	7/15/2018	acceptable

Weight (gm)	ug/ml	ml	Dil	Analyte	wt %	ppm	RL(ppm)
0.0671	-0.061	25	1	Pb	<0.0075	<75	75
0.0542	-0.061	25	1	Pb	<0.0092	<92	92
0.3328	-0.061	25	1	Pb	<0.0015	<15	15

Printed: 18-Jul-18

Original Print Date: 18-Jul-18

Approved Accreditation Signatory

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_	ANALYTICAL SERVICES

Fiberquant Analytical Services 5025 S. 33rd St.; Phoenix, AZ 85040; Phone: 602-276-6139; FAX: 602-276-4558; info@iberquant.com

### Analysis Request/Chain-of-Custody Form

Analysis Kequest/Cnt	un-oj-Custoay Form									
Submitted by (Company) The Green	n Way Env. Group									
Address PO Box 5705										
City, State, Zip Code Scottsdale,	, AZ, 85261-5705									
Phone (480) 639-0389	FAX									
Email LABRESULTS@GWEG-AZ.COM										
Invoice to (Company) Same As Ab	ove									
Address										
City, State, Zip Code										
Phone	FAX									
Contact (print) Ritchie Bump	$\overline{}$									
Sampled by (signature)										
Job Number or Project Name	18-0142									
PO Number CHR(	McQueen to Gilbert									

<analy ONL</analy 	sis Met 7 ONE M	hod F ETHO	Requested>	Tu		ound-ti	
1,000				Ru	sh	Norm	Ext.
Asbestos by <b>PLM</b>	Method > Analyze > If ATPF ther Single Layer	A > by Lay	ed or Interim  II or ATPF  er or by Sample  Yes or No	Urg. Rush <3 hrs	<6 hrs □	1-3 days	15-30 days
Fibers by <b>PCM</b>	Method > 74	00(Area) l	ORM (Personal)	4 [		24hr	٠
	in Air >	AHERA	Mod. AHERA	ê		24 15	종ロ
Asbestos by <b>TEM</b>	in Water* >	Wa	ter Sludge 🗆	1-7		350	N/A
	in Bulk (Ann	ex2) > Ch	atfield Full Quant				
	in Dust >	Vacuum	Dust (ASTM D-5755)	3.5 C		5-104	N/A
Pb by FLAA	Analyte >	₽b□	Other 🔲	<u></u>	hrs	2-3	N/A
	Matrix >	Filter > Paint > Soil > Wipe >	MCE Dby Area (mg/cm2) Dby Weight (ppm)	<b>}</b>	4	days C	
	Check here E1792 comp	certifying	wipes used are ASTM				
	Air Sample:	> Zef [	Aller Oth	<61	ns	1-2	N/A
Fungi	Bulk >	Sam	ole 🔲 Swab 🗀	j L	J	days	
	Tape Lift >		tative (%& type)  or stilative (type/cm2)	<u> </u>			
Soot	ASTM D660	2 020	Optical	<61 	<u> </u>	1-2 days	N/A
3000	WO IN DOOR	2-030	Optical & TEM	1-2 (	lays	3-5days	N/A
Other	1			1 -		A-11	

Sample # (1 per line)	Description/Location	Sample/Date	Sample Time	Vol. or Area
1) 4-1	GREEN / Metal	7/15/18		
2) 6-2	WHITE / METIN			
3) レラ	TAN STUCCO			
4)	7			
5)				
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7)		2222		
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16)				
17)		<u> </u>		
18)				
19)	_			
20)				
1)Relinquished by:	Date 17/8 Time: 503 3	)Relinquished by:	Date: 7/17/18	rime: 15:03
2)Received by:		)Received by:		Time:
* TEM Water: Simpler's name Required by State of Arizona		Fiberquant assigned Job Number>	201801	6585
Review of Analysis			Page of	

Note: Data completed by client (including number and identity of samples) is assumed to be correct until it is verified at time of sample preparation.



Report for:

Mr. Ritchie Bump, EIT The Green Way Environmental Group PO Box 5705 Scottsdale, AZ 85261-5705

Regarding:

Project: 01-18-0142KH; CHR-Mcque Gilbert

EML ID: 1967489

Approved by:

Dates of Analysis:

Lead - Flame AA: 07-25-2018

Technical Manager Andrew Ikeda

Induu Keda

Service SOPs: Lead - Flame AA (EM-BC-S-8443) AIHA-LAP, LLC accredited service, Lab ID #178697

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

17461 Derian Ave, Suite 100, Irvine, CA 92614

(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: The Green Way Environmental Group C/O: Mr. Ritchie Bump, EIT

Re: 01-18-0142KH; CHR-Mcque Gilbert

Date of Sampling: 07-24-2018 Date of Receipt: 07-25-2018 Date of Report: 07-25-2018

### LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	L-4: ADA Pad (Red)	L-5: White R.S.	L-6: Road Strip (RS) (Yellow)
Comments (see below)	A	A	A
Lab ID-Version‡:	9268683-1	9268684-1	9268685-1
Analysis Date:	07/25/2018	07/25/2018	07/25/2018
Sample type	Bulk sample	Bulk sample	Bulk sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	40 ppm	39 ppm	38 ppm
Sample size	0.2518 grams	0.2555 grams	0.2626 grams
§Total Lead Result	< 40 ppm	< 39 ppm	240 ppm

Comments: A) The relative percent difference of the matrix duplicate pair was above control limits. The laboratory control sample and matrix blank were both within control limits and validated the batch.

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

- † The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.
- § Total Lead Result has been rounded to two significant figures to reflect analytical precision.
- ‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K, LLC EMLab ID: 1967489, Page 2 of 3

<sup>\*</sup>Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

17461 Derian Ave, Suite 100, Irvine, CA 92614

(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Date of Sampling: 07-24-2018

Client: The Green Way Environmental Group C/O: Mr. Ritchie Bump, EIT

Date of Receipt: 07-25-2018 Re: 01-18-0142KH; CHR-Mcque Gilbert Date of Report: 07-25-2018

### LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	L-7: Fire Hydrant (Yellow)	L-8: White (Road Stripe)	L-9: Yellow (Road Stripe)
Comments (see below)	A A	A A	A A
Lab ID-Version‡:	9268686-1	9268687-1	9268688-1
Analysis Date:	07/25/2018	07/25/2018	07/25/2018
Sample type	Paint Chip sample	Bulk sample	Bulk sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	40 ppm	39 ppm	36 ppm
Sample size	0.2483 grams	0.2554 grams	0.2764 grams
§Total Lead Result	< 40 ppm	< 39 ppm	< 36 ppm

Comments: A) The relative percent difference of the matrix duplicate pair was above control limits. The laboratory control sample and matrix blank were both within control limits and validated the batch.

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

- † The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.
- § Total Lead Result has been rounded to two significant figures to reflect analytical precision.
- ‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K, LLC EMLab ID: 1967489, Page 3 of 3

<sup>\*</sup>Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

## CHAIN OF CUSTODY CHAIN OF CUSTODY

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					, Wind
	L				Clear
- 1	1 200		Non-Culturable		
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