

ATTACHMENT A



Rincon Consultants, Inc.

180 North Ashwood Avenue
Ventura, California 93003

805 644 4455

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www.rinconconsultants.com

December 4, 2015

Project 15-02264

Ryan Gohlich
City of Beverly Hills
455 N. Rexford Dr.
Beverly Hills, CA 90210

Subject: Arsenic Toxicity

Dear Mr. Gohlich:

This letter provides information about arsenic and the health risks it poses to humans. Arsenic is a naturally occurring element (element 23 on the Periodic Table of the Elements). It is a metalloid that is widely distributed in the earth's crust. Arsenic is found in both inorganic and organic forms based on its combination with other elements. Inorganic arsenic is associated with minerals and ores, especially those that contain copper or lead, and can become air borne when the ores are mined or smelted. Small amounts of arsenic may also be released into the atmosphere with particles from coal-fired power plants and incinerators. Arsenic was also used in home pesticides, such as rat poison and weed killer. Most of those uses have ended so exposure in the home is unlikely (Public Health, 2007).

Trace quantities of arsenic are an essential dietary supplement for many animal species. It is still used as a feed additive in the US for poultry and swine production to increase weight gain, improve feed efficiency, and prevent disease.

Humans normally take in small amounts of arsenic in the air we breathe, water we drink, and the food we eat. Toxic arsenic exposure occurs near soils with unusually high natural levels of arsenic in soil or water. Children may be taking in higher amounts of arsenic because of hand-to-mouth contact or eating soil in areas with higher than usual arsenic concentrations. Toxic arsenic exposure can also occur when sanding, cutting, or burning arsenic-treated wood.

Exposure to arsenic via dust inhalation is a function of the amount of dust present, the concentration of arsenic in that dust, and the time spent breathing in the dust. The amount of dust present will depend on the wind speed and availability of small particle sizes that can be airborne by the wind. The concentration of arsenic in the dust can be estimated by sampling the soil in the general area of concern. In California, the naturally occurring concentration of arsenic in soil is about 0.3 to 11 milligrams per kilogram (mg/kg) (Kearney, 1996). At the request of the City of Beverly Hills, Rincon Consultants collected 8 soil samples from along Civic Center Drive and had those samples analyzed for total arsenic. The concentration of

arsenic in the soil samples ranged from 2.28 mg/kg to 9.03 mg/kg. This concentration range is within the general concentration range of arsenic in soil in California. Using the results of the soil samples collected by Rincon and analyzed for arsenic, the exposure of arsenic from breathing dust is not substantially different than breathing dust anywhere in Beverly Hills.

If you have any questions or require any additional information, please do not hesitate to contact us.

Sincerely,
RINCON CONSULTANTS, INC.

Walter Hamann, PG, CEG
Vice President, Environmental Services

References:

Appendix D. Individual Acute, 8-Hour, and Chronic Reference Exposure Level Summaries. Office of Environmental Health Hazard Assessment. 2008. Updated July 2014.
<http://oehha.ca.gov/air/allrels.html>

Kearney Foundation Special Report, Background Concentration of Trace and Major Elements in California Soils, Kearney Foundation of Soil Science, Division of Agricultural and Natural Resources, University of California, March, 1996.

Public Health Statement for Arsenic. Toxic Substances Portal-Arsenic. Agency of Toxic Substances and Disease Registry. August 2007.
<http://www.atsdr.cdc.gov/substances/toxsubstance.asp?toxid=3>

Ratnaike, R.N. *Review: Acute and Chronic Arsenic Toxicity*. Postgrad Medical Journal 2003; 79:933-391-396 doi:10.1136/pmj.79.933.391.



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

Rincon Consultants, Inc.
180 North Ashwood Avenue
Ventura, CA 93003-

Number of Pages 3
Date Received 12/03/2015
Date Reported 12/04/2015

Telephone (805) 644-4455
Attn Devin DiNapoli

Job Number	Ordered	Client
66440	12/03/2015	RINCON

Project ID: 15-02264
Project Name: Civic Center Dr.
Site: Civic Center Dr.
Beverly Hills, CA

Enclosed are the results of analyses on 8 samples analyzed as specified on attached chain of custody.

Wendy Lu
Organics Supervisor

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.



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COC# No 52122 GLOBAL ID _____ E REPORT: PDF EDF EDD ASL JOB# 66440

Company: Lincon Consultants		Report To: Devin DiNapoli	ANALYSIS REQUESTED	
Address: 180 N Ashwood		Address:		
Ventura, CA 93003		Invoice To:		
Telephone: 805 644 4455		Address:		
Fax:				
Special Instruction: 24 hr turnaround		Project ID: 15-02264		
E-mail: ddinapoli@linconconsultants.com		Project Manager:		
		P.O.#:		

ITEM	LAB USE ONLY		SAMPLE DESCRIPTION				Containers:		Matrix	Preservation	Remarks
	Lab ID	Sample ID	Date	Time	#	Type					
1	340678	RS1	12-3	10:00	1	30g. Jan Soil					24 hr TAT
2	340679	RS2	12-3	10:15	1						
3	340680	RS3	12-3	10:45	1						
4	340681	RS4	12-3	10:55	1						
5	340682	RS5	12-3	11:10	1						
6	340683	RS6	12-3	11:20	1						
7	340684	RS7	12-3	11:30	1						
8	340685	RS8	12-3	11:40	1						

Collected By	Date	Time	Relinquished By	Date	Time	TAT
			DAI	12-3-15	13:00	<input type="checkbox"/> Normal
Relinquished By	Date	Time	Received For Laboratory	Date	Time	<input checked="" type="checkbox"/> Rush
			Janet chun	12-3-15	13:00	24 hr
Received By	Date	Time	Condition of Sample:			

CHAIN OF CUSTODY RECORD



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ANALYTICAL RESULTS

Ordered By

Rincon Consultants, Inc.
 180 North Ashwood Avenue
 Ventura, CA 93003-

Telephone: (805)644-4455

Attn: Devin DiNapoli

Page: 2

Project ID: 15-02264

Project Name: Civic Center Dr.

Site

Civic Center Dr.
 Beverly Hills, CA

ASL Job Number	Submitted	Client
66440	12/03/2015	RINCON

Method: 6010B, Arsenic (ICP)

QC Batch No: 120315-3

Our Lab I.D.		340678	340679	340680	340681	340682
Client Sample I.D.		RS1	RS2	RS3	RS4	RS5
Date Sampled		12/03/2015	12/03/2015	12/03/2015	12/03/2015	12/03/2015
Date Prepared		12/03/2015	12/03/2015	12/03/2015	12/03/2015	12/03/2015
Preparation Method						
Date Analyzed		12/04/2015	12/04/2015	12/04/2015	12/04/2015	12/04/2015
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
ICP Metals						
Arsenic	0.250	5.78	2.28	8.19	8.36	5.68

QUALITY CONTROL REPORT

QC Batch No: 120315-3

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit				
ICP Metals									
Arsenic	88	93	4.7	80-120	<20				



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Page: **3**

Project ID: 15-02264

Project Name: Civic Center Dr.

Site

Civic Center Dr.
 Beverly Hills, CA

ASL Job Number	Submitted	Client
66440	12/03/2015	RINCON

Method: 6010B, Arsenic (ICP)

QC Batch No: 120315-3

Our Lab I.D.		340683	340684	340685		
Client Sample I.D.		RS6	RS7	RS8		
Date Sampled		12/03/2015	12/03/2015	12/03/2015		
Date Prepared		12/03/2015	12/03/2015	12/03/2015		
Preparation Method						
Date Analyzed		12/04/2015	12/04/2015	12/04/2015		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Dilution Factor		1	1	1		
Analytes	PQL	Results	Results	Results		
ICP Metals						
Arsenic	0.250	6.51	9.03	6.32		

QUALITY CONTROL REPORT

QC Batch No: 120315-3

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit				
ICP Metals									
Arsenic	88	93	4.7	80-120	<20				