



ANALYTICAL REPORT
Amended-20140909

Report Date: September 09, 2014

Deborah Grey
Stantec Consulting Services
1500 Lake Shore Dr. Suite 100
Columbus, OH 43204

Phone: (614) 486-4383

E-mail: deb.gray@stantec.com

Workorder: **34-1421629**
Client Project ID: P1403063 080114
Purchase Order: P1403063
Project Manager: Paul Pope

Analytical Results

Sample ID: 729U1-3 HCN		Collected: 07/29/2014		
Lab ID: 1421629001	Sampling Location: P1403063		Received: 08/01/2014	
Method: NIOSH 6010 Mod.		Media: SKC 226-28, Soda Lime-200/600	Analyzed: 08/06/2014	
Sampling Parameter: Air Volume 29.04 L				
Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.0072	<0.0065	0.21

Sample ID: 729U1-5 Hg		Collected: 07/29/2014		
Lab ID: 1421629002	Sampling Location: P1403063		Received: 08/01/2014	
Method: NIOSH 6009 Mod.		Media: SKC 226-17-1A, Hopcalite Tube	Analyzed: 08/12/2014	
Sampling Parameter: Air Volume 47.69 L				
Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Mercury	<0.010	<0.00021	<0.000026	0.010

Sample ID: 729D1-3 HCN		Collected: 07/29/2014		
Lab ID: 1421629003	Sampling Location: P1403063		Received: 08/01/2014	
Method: NIOSH 6010 Mod.		Media: SKC 226-28, Soda Lime-200/600	Analyzed: 08/06/2014	
Sampling Parameter: Air Volume 27.41 L				
Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.0077	<0.0069	0.21

Sample ID: 729D1-5 Hg		Collected: 07/29/2014		
Lab ID: 1421629004	Sampling Location: P1403063		Received: 08/01/2014	
Method: NIOSH 6009 Mod.		Media: SKC 226-17-1A, Hopcalite Tube	Analyzed: 08/12/2014	
Sampling Parameter: Air Volume 47.54 L				
Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Mercury	<0.010	<0.00021	<0.000026	0.010

ADDRESS 960 West LeVoy Drive, Salt Lake City, Utah, 84123 USA | PHONE +1 801 266 7700 | FAX +1 801 268 9992

ALS GROUP USA, CORP. An ALS Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



ANALYTICAL REPORT

Amended-20140909

Workorder: **34-1421629**

Client Project ID: P1403063 080114

Purchase Order: P1403063

Project Manager: Paul Pope

Analytical Results

Sample ID: 729LFF-3 HCN	Collected: 07/29/2014
Lab ID: 1421629005	Received: 08/01/2014
Sampling Location: P1403063	

Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600	Analyzed: 08/06/2014
Sampling Parameter: Air Volume 27.86 L		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.0075	<0.0068	0.21

Sample ID: 729LFF-5 Hg	Collected: 07/29/2014
Lab ID: 1421629006	Received: 08/01/2014
Sampling Location: P1403063	

Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube	Analyzed: 08/12/2014
Sampling Parameter: Air Volume 48.22 L		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Mercury	<0.010	<0.00021	<0.000025	0.010

Sample ID: 729LFSQ-3 HCN	Collected: 07/29/2014
Lab ID: 1421629007	Received: 08/01/2014
Sampling Location: P1403063	

Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600	Analyzed: 08/06/2014
Sampling Parameter: Air Volume 17.91 L		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.012	<0.011	0.21

Sample ID: 729LFSQ-5 Hg	Collected: 07/29/2014
Lab ID: 1421629008	Received: 08/01/2014
Sampling Location: P1403063	

Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube	Analyzed: 08/12/2014
Sampling Parameter: Air Volume 49.38 L		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Mercury	<0.010	<0.00020	<0.000025	0.010

Sample ID: 729-BCN	Collected: 07/29/2014
Lab ID: 1421629009	Received: 08/01/2014
Sampling Location: P1403063	

Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600	Analyzed: 08/06/2014
Sampling Parameter: Air Volume Not Provided		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	NA	NA	0.21



ANALYTICAL REPORT

Amended-20140909

Workorder: **34-1421629**
Client Project ID: P1403063 080114
Purchase Order: P1403063
Project Manager: Paul Pope

Analytical Results

Sample ID: 729-BHg		Collected: 07/29/2014		
Lab ID: 1421629010		Received: 08/01/2014		
Method: NIOSH 6009 Mod.		Media: SKC 226-17-1A, Hopcalite Tube		Analyzed: 08/12/2014
Sampling Parameter: Air Volume Not Provided				
Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Mercury	<0.010	NA	NA	0.010

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method	Analyst	Peer Review
NIOSH 6009 Mod.	/S/ Christopher R. Hansen 08/12/2014 18:08	/S/ Kristie F. Bitner 08/13/2014 08:08
NIOSH 6010 Mod.	/S/ Brittney Austin 08/07/2014 11:08	/S/ Whitney Redd 08/07/2014 13:08

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.alssl.com



ANALYTICAL REPORT

Amended-20140909

Workorder: **34-1421629**

Client Project ID: P1403063 080114

Purchase Order: P1403063

Project Manager: Paul Pope

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACCLASS (DoD ELAP)	ADE-1420	http://www.aiclasscorp.com
	Utah (NELAC)	DATA1	http://health.utah.gov/lab/labimp/
	Nevada	UT00009	http://ndep.nv.gov/bsdwl/labservice.htm
	Oklahoma	UT00009	http://www.deq.state.ok.us/CSDnew/
	Iowa	IA# 376	http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx
	Florida (TNI)	E871067	http://www.dep.state.fl.us/labs/bars/sas/qa/
	Texas (TNI)	T104704456-11-1	http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing:			
CPSC	ACCLASS (ISO 17025, CPSC)	ADE-1420	http://www.aiclasscorp.com
Soil, Dust, Paint ,Air	AIHA (ISO 17025, AIHA ELLAP and NLLAP)	101574	http://www.aihaaccreditedlabs.org
Dietary Supplements	ACCLASS (ISO 17025)	ADE-1420	http://www.aiclasscorp.com

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.

LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.

ND = Not Detected, Testing result not detected above the LOD or LOQ.

NA = Not Applicable.

** No result could be reported, see sample comments for details.

< This testing result is less than the numerical value.

() This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.