



ANALYTICAL REPORT

Amended-20150220

Report Date: February 23, 2015

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Workorder: **34-1503475**

Client Project ID: P1500371 020315

Purchase Order: P1500371

Project Manager: Paul Pope

Analytical Results

Sample ID: 127UI-CN		Collected: 01/27/2015		
Lab ID: 1503475001	Sampling Location: P1500371		Received: 02/03/2015	
Method: NIOSH 6010 Mod.		Media: SKC 226-28, Soda Lime-200/600		Analyzed: 02/05/2015
Sampling Parameter: Air Volume 16.531 L				
Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.013	<0.011	0.21

Sample ID: 127U1-HG		Collected: 01/27/2015		
Lab ID: 1503475002	Sampling Location: P1500371		Received: 02/03/2015	
Method: NIOSH 6009 Mod.		Media: SKC 226-17-1A, Hopcalite Tube		Analyzed: 02/10/2015
Sampling Parameter: Air Volume 55.013 L				
Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Mercury	<0.012	<0.00022	<0.000027	0.012

Sample ID: 127D1-CN		Collected: 01/27/2015		
Lab ID: 1503475003	Sampling Location: P1500371		Received: 02/03/2015	
Method: NIOSH 6010 Mod.		Media: SKC 226-28, Soda Lime-200/600		Analyzed: 02/05/2015
Sampling Parameter: Air Volume 14.76 L				
Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.014	<0.013	0.21

Sample ID: 127D1-Hg		Collected: 01/27/2015		
Lab ID: 1503475004	Sampling Location: P1500371		Received: 02/03/2015	
Method: NIOSH 6009 Mod.		Media: SKC 226-17-1A, Hopcalite Tube		Analyzed: 02/10/2015
Sampling Parameter: Air Volume 48.48 L				
Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Mercury	<0.012	<0.00025	<0.000030	0.012

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Sample ID: 127F-CN	Collected: 01/27/2015
Lab ID: 1503475005	Received: 02/03/2015
Sampling Location: P1500371	

Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600	Analyzed: 02/05/2015
Sampling Parameter: Air Volume 14.333 L		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.015	<0.013	0.21

Sample ID: 127F-Hg	Collected: 01/27/2015
Lab ID: 1503475006	Received: 02/03/2015
Sampling Location: P1500371	

Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube	Analyzed: 02/10/2015
Sampling Parameter: Air Volume 49.368 L		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Mercury	<0.012	<0.00024	<0.000030	0.012

Sample ID: 127SQ-CN	Collected: 01/27/2015
Lab ID: 1503475007	Received: 02/03/2015
Sampling Location: P1500371	

Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600	Analyzed: 02/05/2015
Sampling Parameter: Air Volume 14.04 L		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.015	<0.014	0.21

Sample ID: 127SQ-Hg	Collected: 01/27/2015
Lab ID: 1503475008	Received: 02/03/2015
Sampling Location: P1500371	

Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube	Analyzed: 02/10/2015
Sampling Parameter: Air Volume 49.08 L		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Mercury	<0.012	<0.00024	<0.000030	0.012

Sample ID: 128N-CN	Collected: 01/28/2015
Lab ID: 1503475009	Received: 02/03/2015
Sampling Location: P1500371	

Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600	Analyzed: 02/05/2015
Sampling Parameter: Air Volume 15.246 L		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.014	<0.012	0.21



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Sample ID: 128N-Hg	Collected: 01/28/2015			
Lab ID: 1503475010	Received: 02/03/2015			
Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube			
	Analyzed: 02/10/2015			
	Sampling Parameter: Air Volume 50.094 L			
Analyte	ug/sample	mg/m³	ppm	RL (ug/sample)
Mercury	<0.012	<0.00024	<0.000029	0.012

Sample ID: 128NQ-CN	Collected: 01/28/2015			
Lab ID: 1503475011	Received: 02/03/2015			
Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600			
	Analyzed: 02/05/2015			
	Sampling Parameter: Air Volume 15.488 L			
Analyte	ug/sample	mg/m³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.014	<0.012	0.21

Sample ID: 128NQ-Hg	Collected: 01/28/2015			
Lab ID: 1503475012	Received: 02/03/2015			
Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube			
	Analyzed: 02/10/2015			
	Sampling Parameter: Air Volume 50.215 L			
Analyte	ug/sample	mg/m³	ppm	RL (ug/sample)
Mercury	<0.012	<0.00024	<0.000029	0.012

Sample ID: 127TB-CN	Collected: 01/27/2015			
Lab ID: 1503475013	Received: 02/03/2015			
Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600			
	Analyzed: 02/05/2015			
Analyte	ug/sample	mg/m³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	NA	NA	0.21

Sample ID: 127TB-Hg	Collected: 01/27/2015			
Lab ID: 1503475015	Received: 02/03/2015			
Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube			
	Analyzed: 02/10/2015			
	Sampling Parameter: Air Volume Not Provided			
Analyte	ug/sample	mg/m³	ppm	RL (ug/sample)
Mercury	<0.012	NA	NA	0.012



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Sample ID: 128N-sHCN	Collected: 01/28/2015
Lab ID: 1503475016	Received: 02/03/2015
Sampling Location: P1500371	

Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600	Analyzed: 02/05/2015
Sampling Parameter: Air Volume 366 mL		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.57	<0.52	0.21

Sample ID: 128N-sHg	Collected: 01/28/2015
Lab ID: 1503475017	Received: 02/03/2015
Sampling Location: P1500371	

Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube	Analyzed: 02/10/2015
Sampling Parameter: Air Volume 1.197 L		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Mercury	<0.012	<0.010	<0.0012	0.012

Sample ID: 128NQ-sHCN	Collected: 01/28/2015
Lab ID: 1503475018	Received: 02/03/2015
Sampling Location: P1500371	

Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600	Analyzed: 02/05/2015
Sampling Parameter: Air Volume 366 mL		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.57	<0.52	0.21

Sample ID: 128NQ-sHg	Collected: 01/28/2015
Lab ID: 1503475019	Received: 02/03/2015
Sampling Location: P1500371	

Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube	Analyzed: 02/10/2015
Sampling Parameter: Air Volume 1.197 L		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Mercury	<0.012	<0.010	<0.0012	0.012

Sample ID: 128SQ-sHCN	Collected: 01/28/2015
Lab ID: 1503475020	Received: 02/03/2015
Sampling Location: P1500371	

Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600	Analyzed: 02/05/2015
Sampling Parameter: Air Volume 366 mL		

Analyte	ug/sample	mg/m ³	ppm	RL (ug/sample)
Hydrogen Cyanide	<0.21	<0.57	<0.52	0.21



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Sample ID: 128SQ-sHg	Collected: 01/28/2015
Lab ID: 1503475021	Received: 02/03/2015
Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube
	Analyzed: 02/10/2015
	Sampling Parameter: Air Volume 1.197 L
Analyte	ug/sample
	mg/m³
	ppm
	RL (ug/sample)
Mercury	<0.012
	<0.010
	<0.0012
	0.012

Sample ID: 128F-sHCN	Collected: 01/28/2015
Lab ID: 1503475022	Received: 02/03/2015
Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600
	Analyzed: 02/05/2015
	Sampling Parameter: Air Volume 183 mL
Analyte	ug/sample
	mg/m³
	ppm
	RL (ug/sample)
Hydrogen Cyanide	<0.21
	<1.1
	<1.0
	0.21

Sample ID: 128F-sHg	Collected: 01/28/2015
Lab ID: 1503475023	Received: 02/03/2015
Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube
	Analyzed: 02/10/2015
	Sampling Parameter: Air Volume 598 mL
Analyte	ug/sample
	mg/m³
	ppm
	RL (ug/sample)
Mercury	0.29
	0.48
	0.059
	0.012

Sample ID: 127Dup02	Collected: 01/27/2015
Lab ID: 1503475024	Received: 02/03/2015
Method: NIOSH 6010 Mod.	Media: SKC 226-28, Soda Lime-200/600
	Analyzed: 02/05/2015
	Sampling Parameter: Air Volume 48960 mL
Analyte	ug/sample
	mg/m³
	ppm
	RL (ug/sample)
Hydrogen Cyanide	<0.21
	<0.0043
	<0.0039
	0.21

Sample ID: 128Dup04	Collected: 01/28/2015
Lab ID: 1503475025	Received: 02/03/2015
Method: NIOSH 6009 Mod.	Media: SKC 226-17-1A, Hopcalite Tube
	Analyzed: 02/10/2015
	Sampling Parameter: Air Volume 183 mL
Analyte	ug/sample
	mg/m³
	ppm
	RL (ug/sample)
Mercury	<0.012
	<0.066
	<0.0080
	0.012



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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 02/10/2015 16:02	/S/ Kristie F. Bitner 02/10/2015 16:02
NIOSH 6010 Mod.	/S/ Brittney Austin 02/06/2015 09:02	/S/ Whitney Lewis 02/09/2015 09:02

Laboratory Contact Information

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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	AClass (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	AClass (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	AClass (ISO 17025)	ADE-1420	http://www.aiclasscorp.com



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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.