

CERTIFICATE OF ANALYSIS

Client:	Jacobs Technology			Report Date:	7/26/2013
	Bldg 1100; Room 21	3		Report Number:	310956
	Stennis Space Ctr.	MS	39529	Project:	B-2 Deflector 7-18-13
				Project No.:	6110-2013

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.	<u>Client No.</u>	Location / Description	Concentration <u>Lead By Weight (%)</u>
5076428	01	Inside Side Wall Of Deflector	0.013***
5076429	02	Top Of Deflector	0.18***
5076430	03	Outside Wall Of Deflector	0.1***

Accreditations:	NATIONAI	NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP) AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021						
Analytical Metho	ds: ASTM D3335-85A "Standard Method T	To Test For Low Concentrations Of Lead In Paint	By Atomic Absorption Spectrophotom	netry"				
	EPA SW846-(3050B:7000B) "Standard	d Method To Test For Low Concentrations Of Lea	d In Soils, Sludges and Sediments By	AAS"				
Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0044% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced excert in full, without written approval of the laboratory.								
Date Received:	7/26/2013		Approved By:	(b)(4)				
Date Analyzed	: 7/26/2013		Арргочей бу:					
Analyst:								
·		Page 1 of 1		Laboratory Director				



DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 07 / 26 / 13)

Standard	Total Lead (mg)		Percent Recovery **
Reagent Blank	0.000		< LOQ
Blank Spike	0.500		100
Lab control Std #401	0.455		-101
Matrix Spike - LBP *	1.04		106
Matrix Spike - Wipe *	0.95		103
Matrix Spike - Soil *	0.199	1	93
Matrix spike - Air *	0.050		98
2.5 ppm Standard	0.25		96
10.0 ppm Standard	1.0		101
40.0 ppm Standard	4.0		100

NYS-DOH ELAP No. 11021

	AIHA LAP-LLC No. 100188	NYS-DOH ELAP No. 11021	l
Analysis Method:	ASTM D3335-85A NIOSH 7082		1
Comments:	IATL assumes that all sampling complies with accepted n All client supplied sampling data is assumed to be correct Detection limit based upon 0.2 mg/L reporting limit and s	nethods. t when calculating results. sample size.	
	* NIST Traceable. ** 80-120% acceptable limits.		
Analyzed By	(b)(4)	Approved E	(b)(4)
Date	7/26/13		
AAS.DailyQC.001		r son Ma	

6110-2013



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody – Environmental Lead –					
Contact InformationClient Company:Acobs FOSCOffice Address:Stennis Space CenterCity, State, Zip:Wayeland MS 39529Fax Number:228 688 - 6456Email Address:(b)(4)	Project Number: Project Name: Primary Contact: Office Phone: Cell Phone:	<u>600 -2013</u> BR-2 Diffector (b)(4)			
iATL is accredited by the National Lead Laboratory Accre environmental samples for lead (Pb). The accreditation is the recognized state programs.	ditation Program (NL hrough AIHA-LAP, L	LAP) to perform analytical testing of LC and several other nationally			
Matrix/Method: ✓ Paint by AAS: ASTM D3335-85a, 2009 → Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010 → Air by AAS: NIOSH 7082, 1994		OSAVIOP OSAVIOP			
 Soil by AAS: EPA SW 846 (Soil) Water by AAS-GF: ASTM D3559-03D, USEPA 4 Other Metals (Cd, Zn, Cr) by AAS Toxicity Characteristic Leaching Procedure (TCLI) 	OCFR 141.11B, 20 P) by AAS: USEPA	10			
Special Instructions:		1-2-27 and a second as a			
	ya katala kat				
Turnaround Time Preliminary Results Requested Date: 22 Specifie date / time 10 Day 5 Day 3 Day 2 Day * End of next business day unless otherwise specified. ** Matrix	Day* 12 Hour** 1 ix Dependent. ***Please n	al Email DFax 6 Hour** RUSH** notify the lab before shipping***			
Chain of CustodyRelinquished (Name/Organizatio Received (Name / iATL): Sample Login (Name / iATL): Analysis(Name(s) / iATL): QA/QC Review (Name / iATL):	(b)(4) Date: Date: Date: Date: Date: Date:	Cine INE			

Celebrating 25 years...one sample at a time www.iatl.com



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Sample Log

-Environmental Lead -

Client:

Project:

13

18 July Sampling Date/Time:

Client Sample #	iATL #	Location/ Description	Flow Rate	<u>Start</u> End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
01	5076428	Inside side Wall of Dellector			Bulk		4 .
02	5076429	Top of Deflector			71		•1
0.3	5076430	Outside WAIT			17	an an ann an	
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							946 / 445 4 4 7 94 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg) ** = Insufficient Sample Provided to Analyze (<50mg) ***= Matrix / Substrate Interference Possible

FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

> Celebrating 25 years...one sample at a time www.iatl.com





(b)(4)		August 09. 2	2013
Jacobs FOSC Group			
Building 1100			
213 G			
Stennis Space Center, MS	i 39529		
5			
DOH ELAP# 11626	Account# (b)(4)	Login# (b)(4)	

AIHA # 100324

Dear (b)(4)

Enclosed are the analytical results for the samples received by our laboratory on August 05, 2013. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

Labo	ratory 1	Director	

Enclosure(s)



LABORATORY ANALYSIS REPORT

	Client	:	Jacobs FOSC Group	
6601 Kirkville Road	Site	:	B-Stand	
East Syracuse, NY 13057	Project No.	:	6116-2013	
(315) 432-5227				
FAX: (315) 437-0571	Date Sampled	:	01-AUG-13	Account No.: (b)(4)
www.galsonlabs.com	Date Received	:	05-AUG-13	Login No. 🗧 (D)(4)
	Date Analyzed	:	06-AUG-13	
	Report ID	:	792993	

Lead

	<u>Sample ID</u>	Lab ID	Area cm2	Total ug	Conc ug/cm2
0	BLANK	L296732-1	NA	<1.3	NA
0	01-LEVEL 7 B STAND	L296732-2	100	170	1.7
G	02-LEVEL 7 B STAND	L296732-3	100	730	7.3
0	03-LEVEL 1 B STAND	L296732-4	100	19	0.19
0	04-ELEVATOR	L296732-5	100	7.0	0.070
9	05-LEVEL 1	L296732-6	100	99	0.99

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

	Level of quantitation: Analytical Method OSHA PEL (TWA) Collection Media	1.3 ug mod. NIOSH 9102/SW846 NA Gauze	6010C; ICP GAUZE Date : QC by:	Submitted by: mlh/kml Approved by : keg 07-AUG-13 NYS DOH # : 11626 (h)(4)
< > NA	-Less Than -Greater Than -Not Applicable	mg -Milligrams ug -Micrograms ND -Not Detected	m3 -Cubic Meters l -Liters ppm -Parts per Mi	kg -Kilograms NS -Not Specified



LABORATORY FOOTNOTE REPORT

Client Name : Jacobs FOSC Group Site : B-Stand Project No. : 6116-2013 6601 Kirkville Road East Syracuse, NY 13057 Date Sampled : C1-AUG-13 Account No.: (315) 432-5227 Date Received: 05-AUG-13 Login No. : (D)(4) FAX: (315) 437-0571 Date Analyzed: 96-AUG-13 www.galsonlabs.com

Unless otherwise noted below, all quality control results associated with the samples were within established control limits.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded in order to fit the report format and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L296732 (Report ID: 792993):

Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low. SOPs: MT-SOP-9(24), im-hbleadwp(13)

@ L296732 (Report ID: 792993):

Samples were unidentified, client provided media. LOQ may not be applicable as it was derived from studies performed using Galson provided gauze wipes.

	-Less Than	тg	-Milligrams	π3	-Cubic Meters	kg	-Kilograms
,	-Greater Than	ug	-Micrograms	1	-liters	NS	-Not Specified
IA	~Not Applicable	ND	-Not Detected	ppm	-Parts per Million		

		<u>i</u>							
		New Client?	Report To*			hivoice Io	*:	Sama	
GALSC		Client Account No		ennis Space	e Center MS 395	29 19			· · · · · · · · · · · · · · · · · · ·
6601 Kirkville East Syracuse Tel: (315) 4 888-432 Fax: (315) 4 www.galson	e Rd 5, NY 13057 32-5227 2-LABS (5227) 37-0571 labs.com		Phone No.* : Cell No. : Email Results to : Email address :	(b)(4)	Phone No Erna RO. No Credit Car	0. : il : 0. : d : Card on F		lit Card Info
Need Results By-	(surcharge)			Samples submitted usin	q the FreePumpLoan™	Program Samples s	abmitted using th	oo FreeSamplingBadoo	rill Drogram
Standard	0%				last 1 + 1			ie neesampingouoge	
4 Business Days	35%	Comments A	J J		Jeu: (011 (COLS Samp	pled by :		·
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2 Business Days	75%				·				:
Next Day by 6pm	100%	List description of ind	ustry or Process/interfe	rences present in same	linn area ·	State camples wore	Plana indicate		
Next Day by Noon	150%			outside	€K.	collected in (e.g., NY)			
Same Day	200%	rea i	Hostoment	Buldin	v v	MS		Other (specify)-	
Sample Identificat (Maxmium of 20 Char	tion* acters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Reques	ted*.	Method Reference*	Hexavalent Chromium Process (e.g., welding
EXAMPLE		04/24/13	2pc UW PVC	960	L	Hexavalent Chromi	um (Cr6)	Mod OSHA ID-21	Welding
Lead where s	males	1 AVG 13	10:00	- IDDCm	·	Lend	<u></u>		veiding
Blank						11	<u> </u>		
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^Galson Laboratories will	subsititute ou	r routine/preferred me	thod if it does not mate	h the method listed on	the COC unless this bo	is checked: 🔲 Use metho	d(s) listed on CO	 (
For metals analysis: if rec	questing an ana	lyte with the option of	a lower LOQ, please inc	licate if the lower LOQ i	s required (only availat	ble for certain analytes - see	5AG) :		<u> </u>
For crystalline silica: form	n(s) of silica nee	eded must be indicated	(Quartz, Cristoballite, ar	nd/or Tridymite)* :					
Chain of Custod		, re		ate Time					
Relinquished by		/	290	9 332	Received by :			8/2	
Relinguished by					Received by :			8101	12 AT
	<u> </u>		Samples r	eceived after 3pm will I	e considered as next				<u> </u>
	<u> </u>	^ R	equired fields, failure to	complete these fields n	nay result in a delay i			P	age of

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NASA Environmental Services Laboratory

Operated by A2Research Environmental Laboratory Bldg 8100 Rm112 Lab. I.D.# MS00903 228-688-2065 Laboratory Batch Number(s): <u>140318B</u> Customer: NASA Environmental For: Jenette Gordon / (b)(4)

April 11, 2014

Report Generated by:

(b)(4)

B Stand Soil

On March 18th Science Laboratory Services collected eight (8) soil samples from the B Stand Area per request by FOSC Environmental for Metals and PCB analyses. Sample point locations were documented using GPS. The samples were assigned laboratory identification numbers as indicated on the attached chain of custody. Results follow on pages two (2) thru nine (9) of this report.

09-Apr-14

Project: Other

Customer: FOSC

69.6

Field Sample ID: B STAND SOIL #1

List Type:	% Solids				
Sample ID:	141210	Matrix:	Soil	Date Received:	3/18/2014 12:47:18 PM
		Analyst:	(b)(4)	Date Analyzed:	4/2/2014 2:55:00 PM
		Analyte		Concentration	Units
		% Solids		69.6	%

List Type:	ICP Metals - EPA Method 2	200.7
------------	---------------------------	-------

CAS No.AnalyteConcentration007440-22-4Ag328.0.06007429-90-5Al309.2027007440-38-2As189.0.38007440-42-8B249.7< 0.03007440-39-3Ba455.37.4	3/18/2014 12:47:18 PM 4/4/2014 2:12:00 PM
007440-22-4 Ag328. 0.06 007429-90-5 Al309. 2027 007440-38-2 As189. 0.38 007440-42-8 B249.7 < 0.03 007440-39-3 Ba455. 37.4	Units
007429-90-5 Al309. 2027 007440-38-2 As189. 0.38 007440-42-8 B249.7 < 0.03 007440-39-3 Ba455. 37.4	mg/kg
007440-38-2 As189. 0.38 007440-42-8 B249.7 < 0.03	mg/kg
007440-42-8 B249.7 < 0.03 007440-39-3 Ba455. 37.4	mg/kg
007440-39-3 Ba455. 37.4	mg/kg
	mg/kg
007440-41-7 Be313. 0.11	mg/kg
007440-43-9 Cd228. 1.69	mg/kg
007440-47-3 Cr267. 15.5	mg/kg
007440-50-8 Cu327. 84.9	mg/kg
007439-96-5 Mn257. 294	mg/kg
007440-02-0 Ni221. 11.6	mg/kg
007439-92-1 Pb220. 404	mg/kg
007440-36-0 Sb206. 0.94	mg/kg
007782-49-2 Se196. 0.37	mg/kg
007440-21-3 Si251. 2437	mg/kg
007440-31-5 Sn189. 1.30	mg/kg
007440-24-6 Sr407. 60.5	mg/kg
007440-32-6 Ti334. 43.9	mg/kg
007440-28-0 TI190. < 0.18	mg/kg
007440-62-2 V292.4 8.68	mg/kg
007440-66-6 Zn213. 737	mg/kg

Comments: Metals reported in mg/kg according to dry sample weight

List Type: PCBs – Method 8082

Sample ID	: 14121	0	Matrix:	Soil	Date Received:	3/18/2014 12:47:18 PM
			Analyst:	(b)(4)	Date Analyzed:	4/9/2014 12:42 PM
	CAS No.		Analyte		Concentration	Units
(001336-36-3	Aroclor 1254	959		0.12	mg/kg

Comments: PCBs reported in mg/kg according to dry sample weight

Page | 3

SAMPLE RESULTS - BATCH 140318B

09-Apr-14		Project:	Other		Customer: F	OSC
Field Samp	le ID: B STAN	D SOIL	#2			
List Type:	% Solids					
Sample ID:	141211		Matrix:	Soil	Date Received	: 3/18/2014 12:47:18 P

41211	Matrix:	Soil	Date Received:	3/18/2014 12:47:18 PM
	Analyst:	(b)(4)	Date Analyzed:	4/2/2014 2:55:00 PM
	Analyte		Concentration	Units
	% Solids		86.2	%

List Type: ICP Metals - EPA Method 200.7

Sample ID:	141211		Matrix: Analyst:	Soil	Date Received: Date Analyzed:	3/18/2014 12:47:18 PM 4/4/2014 2:23:10 PM
	CAS No.		Analyte		Concentration	Units
0074-	40-22-4	Ag328.			< 0.02	mg/kg
00743	29-90-5	AI309.			1055	mg/kg
00744	40-38-2	As189.			< 0.11	mg/kg
00744	40-42-8	B249.7			< 0.03	mg/kg
00744	40-39-3	Ba455.			7.69	mg/kg
00744	40-41-7	Be313.			0.041	mg/kg
00744	40-43-9	Cd228.			0.063	mg/kg
00744	40-47-3	Cr267.			1.87	mg/kg
00744	40-50-8	Cu327.			4.00	mg/kg
00743	39-96-5	Mn257.			48.0	mg/kg
00744	40-02-0	Ni221.			1.65	mg/kg
00743	39-92-1	Pb220.			85.0	mg/kg
00744	10-36-0	Sb206.			< 0.11	mg/kg
00778	32-49-2	Se196.			< 0.21	mg/kg
00744	40-21-3	Si251.			1228	mg/kg
00744	40-31-5	Sn189.			0.47	mg/kg
00744	10-24-6	Sr407.			12.4	mg/kg
00744	10-32-6	Ti334.			14.6	mg/kg
00744	10-28-0	TI190.			< 0.18	mg/kg
00744	10-62-2	V292.4			5.20	mg/kg
00744	10-66-6	Zn213.			90.5	mg/kg

Comments: Metals reported in mg/kg according to dry sample weight

List Type: PCBs – Method 8082 Sample ID: 141211 Matrix: Soil Date Received: 3/18/2014 12:47:18 PM Analyst: Date Analyzed: 4/9/2014 12:57 PM CAS No. Analyte Concentration Units 001336-36-3 Aroclor 1254 0.96 mg/kg

Comments: PCBs reported in mg/kg according to dry sample weight

09-Apr-14

4 Project: Other

Customer: FOSC

Field Sample ID: B STAND SOIL #5

List Type:	% Solids				
Sample ID:	141214	Matrix:	Soil	Date Received:	3/18/2014 12:47:18 PM
		Analyst:	(b)(4)	Date Analyzed:	4/2/2014 2:55:00 PM
		Analyte		Concentration	Units
		% Solids		77.2	%

List Type:	ICP Metals -	EPA Method 200.7
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Sample ID:	141214	l.	Matrix:	Soil	Date Received:	3/18/2014 12:47:18 PM
			Analyst:	(b)(4)	Date Analyzed:	4/4/2014 2:37:28 PM
	CAS No.		Analyte		Concentration	Units
00744	0-22-4	Ag328.	(T-1)		< 0.02	mg/kg
00742	9-90-5	AI309.			3312	mg/kg
00744	0-38-2	As189.			1.83	mg/kg
00744	0-42-8	B249.7			< 0.03	mg/kg
00744	0-39-3	Ba455.			22.7	mg/kg
00744	0-41-7	Be313.			0.15	mg/kg
00744	0-43-9	Cd228.			0.152	mg/kg
00744	0-48-4	Co228.			15.9	mg/kg
00744	0-47-3	Cr267.			1.00	mg/kg
00744	0-50-8	Cu327.			15.5	mg/kg
00743	9-96-5	Mn257.			156	mg/kg
00744	0-02-0	Ni221.			6.01	mg/kg
00743	9-92-1	Pb220.			193	mg/kg
00744	0-36-0	Sb206.			0.75	mg/kg
00778	2-49-2	Se196.			< 0.21	mg/kg
00744	0-21-3	Si251.			2522	mg/kg
00744	0-31-5	Sn189.			1.28	mg/kg
00744	0-24-6	Sr407.			66.3	mg/kg
00744	0-32-6	Ti334.			18.2	mg/kg
00744	0-28-0	TI190.			< 0.18	mg/kg
00744	0-62-2	V292.4			14.2	mg/kg
00744	0-66-6	Zn213.			121	mg/kg

Comments: Metals reported in mg/kg according to dry sample weight

Matrix: Analyst:	Soil Date Received: (b)(d) Date Analyzed:	3/18/2014 12:47:18 PM 4/9/2014 2:14 PM
Analyte	Concentration	Units ma/ka
r	Matrix: Analyst: Analyte oclor 1254	Matrix: Soil Date Received: Analyst: (b)(4) Date Analyzed: Concentration 0.71

Comments: PCBs reported in mg/kg according to dry sample weight

09-Apr-14	Proj	ect: Other		Customer: FO:	SC
Field Samp	le ID: B STAND SC	<u> 01L #6</u>			
List Type:	% Solids				
Sample ID:	141215	Matrix: Analyst: Analyte % Solids	Soil (b)(4)	Date Received: Date Analyzed: Concentration 90.7	3/18/2014 12:47:18 PM 4/2/2014 2:55:00 PM Units %
List Type:	ICP Metals - EPA	1 Method 200.	7		
Sample ID:	141215	Matrix:	Soil	Date Received:	3/18/2014 12:47:18 PM

		Analyst: (b)	(4) Date Analyzed:	4/4/2014 2:48:40 PM	
CAS No.		Analyte	Concentration	Units	
007440-22-4	Ag328.		0.05	mg/kg	
007429-90-5	AI309.		1139	mg/kg	
007440-38-2	As189.		1.58	ma/ka	
007440-42-8	B249.7		< 0.03	mg/kg	
007440-39-3	Ba455.		19.4	ma/ka	
007440-41-7	Be313.		0.064	ma/ka	
007440-43-9	Cd228.		1.01	ma/ka	
007440-48-4	Co228.		17.02	ma/ka	
007440-47-3	Cr267.		1.72	ma/ka	
007440-50-8	Cu327.		19.0	ma/ka	
007439-96-5	Mn257.		131	ma/ka	
007440-02-0	Ni221.		10.1	ma/ka	
007439-92-1	Pb220.		241	ma/ka	
007440-36-0	Sb206.		3.92	ma/ka	
007782-49-2	Se196.		0.39	ma/ka	
007440-21-3	Si251.		1458	ma/ka	
007440-31-5	Sn189.		0.81	ma/ka	
007440-24-6	Sr407.		136	ma/ka	
007440-32-6	Ti334.		22.2	mg/kg	
007440-28-0	TI190.		< 0.18	ma/ka	
007440-62-2	V292.4		8.87	ma/ka	
007440-66-6	Zn213.		188	ma/ka	

Comments: Metals reported in mg/kg according to dry sample weight

List Type:	PCB	s – Method 80	82			
Sample ID:	14121	5	Matrix:	Soil	Date Received:	3/18/2014 12:47:18 PM
	CAS No.		Analyst:	(b)(4)	Concentration	4/9/2014 2:29 PM Units
001	336-36-3	Aroclor 1254			0.46	mg/kg

Comments: PCBs reported in mg/kg according to dry sample weight

09-Apr-14	Project:	Other		Customer: FOS	SC
Field Sampl	e ID: B STAND SOIL	<u>#7</u>			
List Type:	% Solids				
Sample ID:	141216	Matrix: Analyst: Analyte % Solids	Soil (b)(4)	Date Received: Date Analyzed: Concentration 84	3/18/2014 12:47:18 PM 4/2/2014 2:55:00 PM Units %

List	Type:	ICP Metal	s - EPA	Method 200.7	
			32 #10500.000000000		

Sample ID:	141216		Matrix: Analyst:	Soil (b)(4)	Date Received: Date Analyzed:	3/18/2014 12:47:18 PM 4/4/2014 2:52:38 PM
	CAS No.		Analyte		Concentration	Units
0074	40-22-4	Ag328.	 0.022.00=0.0034 		0.18	mg/kg
0074	29-90-5	AI309.			2623	mg/kg
0074	40-38-2	As189.			1.63	mg/kg
0074	40-42-8	B249.7			< 0.03	mg/kg
0074	40-39-3	Ba455.			21.6	mg/kg
0074	40-41-7	Be313.			0.14	mg/kg
0074	40-43-9	Cd228.			1.00	mg/kg
0074	40-48-4	Co228.			17.65	mg/kg
0074	40-47-3	Cr267.			1.66	mg/kg
0074	40-50-8	Cu327.			23.8	mg/kg
0074	39-96-5	Mn257.			111	mg/kg
0074	40-02-0	Ni221.			10.0	mg/kg
0074	39-92-1	Pb220.			581	mg/kg
0074	40-36-0	Sb206.			0.54	mg/kg
0077	82-49-2	Se196.			< 0.21	mg/kg
0074	40-21-3	Si251.			2098	mg/kg
0074	40-31-5	Sn189.			1.07	mg/kg
0074	40-24-6	Sr407.			8.45	mg/kg
0074	40-32-6	Ti334.			38.4	mg/kg
0074	40-28-0	TI190.			< 0.18	mg/kg
0074	40-62-2	V292.4			9.53	mg/kg
0074	40-66-6	Zn213.			222	mg/kg

Comments: Metals reported in mg/kg according to dry sample weight

List Type:	PCB	s – Method 80	82			
Sample ID:	14121	6	Matrix: Analyst:	$\frac{\text{Soil}}{(b)(4)}$	Date Received: Date Analyzed:	3/18/2014 12:47:18 PM 4/9/2014 2:45 PM
	CAS No.		Analyte		Concentration	Units
0013	36-36-3	Aroclor 1254			0.60	mg/kg

Comments: PCBs reported in mg/kg according to dry sample weight

09-Apr-14 Project: Other Customer: FOSC Field Sample ID: B STAND SOIL #8 List Type: % Solids Sample ID: 141217 Matrix: Soil Date Received: 3/18/2014 12:47:18 PM Analyst: Date Analyzed: 4/2/2014 2:55:00 PM Analyte Concentration Units % Solids % 80.4

List Type: ICP Metals - EPA Method 200.7

Sample ID:	14121	7	Matrix: Analyst:	Soil (b)(4)	Date Received: Date Analyzed:	3/18/2014 12:47:18 PM 4/4/2014 2:56:10 PM
	CAS No.		Analyte		Concentration	Units
0074	40-22-4	Ag328.			0.029	ma/ka
0074	29-90-5	AI309.			1642	ma/ka
0074	40-38-2	As189.			< 0.11	ma/ka
0074-	40-42-8	B249.7			< 0.03	ma/ka
0074-	40-39-3	Ba455.			12.2	ma/ka
0074-	40-41-7	Be313.			0.085	ma/ka
0074	40-43-9	Cd228.			0.36	ma/ka
0074-	40-48-4	Co228.			18.39	ma/ka
00744	40-47-3	Cr267.			1.76	ma/ka
00744	40-50-8	Cu327.			46.9	ma/ka
00743	39-96-5	Mn257.			103	mg/kg
00744	40-02-0	Ni221.			13.8	ma/ka
00743	39-92-1	Pb220.			240	ma/ka
00744	40-36-0	Sb206.			1.24	ma/ka
00778	32-49-2	Se196.			< 0.21	ma/ka
00744	40-21-3	Si251.			1552	ma/ka
00744	40-31-5	Sn189.			2.47	ma/ka
00744	10-24-6	Sr407.			5.80	mg/kg
00744	10-32-6	Ti334.			22.6	ma/ka
00744	10-28-0	TI190.			< 0.18	mg/kg
00744	10-62-2	V292.4			10.8	ma/ka
00744	10-66-6	Zn213.			150	ma/ka

Comments: Metals reported in mg/kg according to dry sample weight

List Type:	PCBs	- Method 808	82			
Sample ID: 00133	141217 CAS No. 36-36-3	Aroclor 1254	Matrix: Analyst: Analyte	Soil (b)(4)	Date Received: Date Analyzed: Concentration 0.80	3/18/2014 12:47:18 PM 4/9/2014 3:00 PM Units mg/kg

Comments: PCBs reported in mg/kg according to dry sample weight

NASA /ENVIR SCIENCE LABORAL STENNIS SPACE CI STENNIS, MS 3952 228-688-1447	IONMENTAL TORY SERVICES ENTER 9 688-1039 (Fax)	4)	ple	CHAIN-OF-CUSTODY RECORD MALYSIS REQUEST Project Name: <u>B Stand Soil Samples</u> C-O-C Number: <u>BATCH1403188</u> NASA Environmental Office - SSC Ph (228) 688-7384 Bidg 1100 Rm 3012B, Stennis Space Center, MS 39529 (March Berling) FAX (228) 688-2660 Parce berling FAX (228) 688-2660			(b)(· An	4)	es de	© o sired	P/	GE_	_1	OF _	_1_ 72	- :4	7 Z			
Sampling year	ris: 2014		(G)rab or (C)omp osite		Temperature on ArrivalC°	al Metals	Bs										03		S04	н
DATE	TIME	CONTAINERS	TYPE	SAMPLE NUMBER	SAMPLE NAME	Tot	DC	1									N I	1 P	H2	Na
03/18/14	1:44	1	G	141210	B Stand Soil Sample # 1	X	X													
03/18/14	11:50	1	G	141211	B Stand Soil Sample # 2	X	X	1												
03/18/14	11:58	1	G	141212	B Stand Soil Sample # 3	X	X													
03/18/14	11:04	1	G	141213	B Stand Soil Sample # 4	X	X													
03/18/14	12:09	1	G	141214	B Stand Soil Sample # 5	X	X													
03/18/14	12:15	1	G	141215	B Stand Soil Sample # 6	X	X													
03/18/14	17:15	1	G	141216	B Stand Soil Sample # 7	X	X											1		
03/18/14	12:25	1	G	14/217	B Stand Soil Sample # 8	X	X							+				+		-
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REMARKS:	KX51 - 0PFL -	- 00 00 - b	stand so	oil samples																

ID	X	Y				
1	748697.0714	316996.4353				
2	748644.469	316865.69				
3	749027.081	317029.259				
4	749082.9239	317048.7371				
5	749110.2888	316962.2231				
6	749123.8424	316899.8136				
7	749143.2033	316844.5284				
8	749214.7141	316867.053				

BStandSoilSampleLocations.xlsx

Page 61 redacted for the following reason:

(b)(7)



CERTIFICATE OF ANALYSIS

Client:	Jacobs Technology	Report Date:	1/5/2015
	Bldg 1100; Suite 213G	Report Number:	353752
	Stennis Space Ctr. MS 39529	Project:	B2 East Pier Handrail
		Project No.:	6510-2014

LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	Location / Description	Concentration <u>Lead By Weight (%)</u>
5516146	6510-2014-001	Paint Grey On Orange	31
		B2 East Pier South Stairwell	
5516147	6510-2014-002	Paint Grey On Orange	55
		B2 East Pier North Stairwell	

Accreditations:	NATIONAL	LEAD LABORATORY AC AIHA-LAP, LLC No. 100188	CREDITATION PROG NYSDOH-ELAP No. 11021	RAM (NLLAP)
Analytical Methods	ASTM D3335-85A "Standard Method To	Test For Low Concentrations Of Lead In Pa	int By Atomic Absorption Spectrophoto	ometry"
	EPA SW846-(3050B:7000B) "Standard M	Aethod To Test For Low Concentrations Of I	Lead In Soils, Sludges and Sediments By	y AAS"
Comments: Reg All n resu (RL) by w (<50 repo repr	ulatory limit is 0.5% lead by weight (EPA/HUE results are based on the samples as received at t lts are based have been accurately supplied by t) based upon Lowest Standard Determined (LSI veight (based upon 100 mg sampled). * Insuf 0 mg) *** Matrix / substrate interference pos rt relates only to those item(s) tested and does r oduced except in full, without written approval	D guidelines). Recommend multiple samplin he lab. IATL assumes that appropriate samp the client. Method Detection Limit (MDL) p D) in accordance with AIHA-ELLAP policie fficient sample provided to perform QC reans ssible. Sample results are not corrected for co not represent an endorsement by NIST-NVL of the laboratory.	g for all samples less than regulatory lin ling methods have been used and the dat er EPA Method 40CFR Part 136 Apend s. LSD=0.2 ppm MDL=0.0044% by v alysis (<200 mg) ** Not enough samp ontamination by field or analytical blank AP, AIHA or any government agency. T	nit for confirmation. ta upon which these dix B. Reporting Limit weight. RL= 0.010% ple provided to analyze cs. This confidential Fhis report shall not be
Date Received:	12/31/2014	_		
Date Analyzed:	1/5/2015	_	Approved By:	(b)(4)
Analyst:	(b)(4)	_		Laboratory Director
		Page 1 of 1		



QA/QC Review (Name / iATL):

Archived / Released:

9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody - Environmental Lead -**Contact Information** Client Company: Jacobs (Stennis Space Center) **Project Number:** 6510-2014 Building 1100 Suite 213G **Office Address: Project Name:** B2 East Pier Handrail City, State, Zip: Stennis Space Center, MS 39529 **Primary Contact:** 228.688.6456 **Fax Number:** Office Phone: Email Address: **Cell Phone:** iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs. **Matrix/Method:** Paint by AAS: ASTM D3335-85a, 2009 Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010 Air by AAS: NIOSH 7082, 1994 Soil by AAS: EPA SW 846 (Soil) Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010 **V** Other Metals (Cd, Zn, Cr) by AAS Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311 □ Other **Special Instructions:** Please analyze for lead and total chromium. **PO Turnaround Time** Preliminary Results Requested Date: Verbal Email DFax Specific date / time 10 Day 5 Day 3 Day 2 Day 1 Day* 12 Hour** 6 Hour** RUSH** * End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping*** **Chain of Custody** Relinquished (Name/Organization Date: 12/34 Time: Received (Name / iATL): Date: Time: Sample Login (Name / iATL): Date: / Time: Analysis(Name(s) / iATL): Date: Tope:

Celebrating 25 years...one sample at a time www.iatl.com

OA/OC InterLAB

Date:

Date:

Time:

Time:



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Sample Log

-Environmental Lead -

Jacbos (Stennis Space Center) Client:

6510-2014 Project

12/26/2014; 1430 hours Sampling Date/Time:

Client Sample #	iATL#	Location/ Description	Flow Rate	<u>Start</u> End	Sampling time (min)	Area (ft2) Volume (L)	Results
6510-2014-001	5516146	B2 East Pier South Stairwell/Paint-Grey on Orange		-	9697	anna an ann an Anna ann ann ann ann ann	
6510-2014-002	5516147	B2 East Pier North Stairwell/Paint-Grey on Orange	•	97	1553	85 4	
	Address States - 1 1987 - 1984 1987 - 1989 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 19			,	N TUNG STATISTICS		
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n an Sala Sy van op an an Antonia Sala Sala Sala Sala Sala Sala Sala Sa	. ,						

36

* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg) ** = Insufficient Sample Provided to Analyze (<50mg) ***= Matrix / Substrate Interference Possible FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply

Celebratii	ng 25 yearsone sample at a time	arty
	www.iatl.com	NTPKNATECNUL
		Submit Form
an a familie a state of the second		

All correspondence and remitta JACOBS TECHNOLO Building 2204 Stennis Space Cente	nces to: P GY INC. r, MS. 39529-6000	urchase Order Purchase Order Show our Purchase Ord papers, containers, and	Page: 1 of 3 er Number: (b)(4) MOD: 0 Order No. on all invoices, shipping nd correspondence.
Vendor: INTERNATION 9000 COMMEF SUITE B MT LAUREL, N Attn: N/A	AL ASBESTOS TESTING LA RCE PARKWAY IJ 08054	AB Ship To: JACOE BLDG STENN	3S TECHNOLOGY 2204 NIS SPACE CENTER, MS 39529
Vendor Code: 4965	Date: 29-DEC-2014	Ship Via: FEDX OVERNT	Allot. No. Rating Certified under DMS. Regulation No. 1
Direct Inquiries to: Buyer:		F.O.B.: DESTINATION	DO-09
(0)(4)		Terms: NET 30	Contract No. NNS07AB21C
Business Size: SMALL BU	JSINESS	an den monoran d an manana manana manana kan kan kan kan kan kan kan kan ka	лара на развити и полно и подре в на на полно и подре и подре и подре на подре на подре на подре на подре на п
Delivery Schedule: When ec	uipment is to be delivered un To" address above no later t	der this order, it should be delive han: 31-JAN-2015	ered to
		Description	
For a complete list of the	Supplies/Services to be prov	ided under this order - See the (Continuation sheets
This Purchase Order is E	xempt from Mississippi Sales	/UseTaxes pursuant to Regulat	on A. Permit Number JB215320-23
allowable variations in qu Jacobs Technology Inc. r the Seller waives all right Inc., either be returned unit price."	antity), such excess quantitie nay retain such excess quant s, title or interests therein. Qu at the Seller's expense or b	s will be treated as being deliver ities up to \$250 in value without antities in excess of \$250 will, a e retained and paid for by Jac	red for the convenience of the Seller. compensating the Seller therefor, and t the option of Jacobs Technology obs Technology Inc. at the contract
Three copies of the pack container number one (1) \$50.00. Immediately prior	ng list shall be included in ea . Submit bills of lading or oth r to shipment Seller shall noti	<u>ch shipment.</u> Two copies inside er pertinent documentation to su fy Buyer of all shipping informati	and one copy on the outside of upport freight cost in excess of ion and estimated time of arrival.
Jacobs FOSC Group S1	ANDARD PROVISIONS, are	e made a part hereof and incor	porated by reference.
THIS ORDER IS PLACED			S0742210
This is a DO-09 rated order cert Allocations Systems Regulation	ified for national defense use, and th (15 CFR 700)	e Contractor shall follow all the requirer	nents of the Defense Priorities and
Your order is hereby acknowled Shipment will be made in accor	ged and accepted dance with above schedule	Mail all Invoices Direct to	
Date of Acceptance		Jacobs Technology Inc. Stennis Space Center Building 1100 RM 1017B	(b)(4)
Vendor's Name	Stenn	IIS Space Center, MS. 39529-6000 Attention: Accounts Payable	
Accredited Signing Party and T	tle	Original	
alating taken menerakan kanta karang taken menerakan kanta kanta kanta kanta kanta kanta kanta kanta kanta kant	Manna Anna antici 2014 Anna ann ann ann ann ann ann an Chairtean a bha a ann an an Anna ann an Anna ann ann a	0555465-2565-985-999-999-999-999-999-999-999-999-99	

orr3301b

All correspondence and remittances to: JACOBS TECHNOLOGY INC. **Building 2204**

Stennis Space Center, MS. 39529-6000

Purchase Order

Purchase Order Number:

Û

MOD:

Show our Purchase Order No. on all invoices, shipping papers, containers, and correspondence.

			Quan	tity Unit	Unit Price	Extended Price
ltem: 1	Desc:	PR IS INITIATED TO COVER COS THE SAMPLES WERE COLLECTE WILL BE ANALYZED FOR LEAD A TO (b)(4)	TS FOR ANALYSIS D FROM THE B2 TE ND CHROMIUM. EH	OF 2 SAMF EST STANE IP-6510-201	PLES BEING SHIP DEAST PIER STA 14. SEND THE AN	PED TO IATL. IRWELLS AND IALYSIS REPORT
Model No Part No: New NSN#: -	4 65 65 66 60 CC			2 EA	\$31.00	\$62.00
			Equipment: No			
Warranty Mo	nths:	VPR Code1: 01	VPR Code2:	VPR Coo	de3: VPR C	Code4:
item: 2 Model No	Desc:	COST OF SHIPPING SAMPLES OV	ERNIGHT PRIORIT	Y FROM S	SC TO THE LAB	
Part No:				1 EA	\$25.00	\$25.00
New NSN#:						
Warranty Mo	nths:	VPR Code1: 01	Equipment: No			
			VPR Code2:	VPR Coc	le3: VPR C	ode4:
					Total PO Price:	\$87.00

All correspondence and remittances to:

JACOBS TECHNOLOGY INC. Building 2204 Stennis Space Center, MS. 39529-6000

Purchase Order

3

(b)(4)

0

Purchase Order Number: MOD:

Show our Purchase Order No. on all invoices, shipping papers, containers, and correspondence.

Special Instructions:

None



DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS (DATE: 01/05/15)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	98
Lab Control Std	1.530	96
Matrix Spike - LBP *	0.30	106
Matrix Spike - Wipe *	0.28	102
Matrix Spike - Soil *	0.369	93
Matrix spike - Air *	0.050	104
2.5 ppm Standard	0.25	96
10.0 ppm Standard	1.0	100
40.0 ppm Standard	4.0	99

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analysis Method:	ASTM D3335-85A		
-	NIOSH 7082		
	EPA SW846 3050B 7000B	NO	
Comments:	IATL assumes that all sampling complies with accepted methods.		
	All client supplied sampling data is assumed to be correct when calculating results.		
	Detection limit based upon 0.2 mg/L reporting limit and sample size.		
	* NIST Traceable.		
Management watting and an end of the second statement of the	** 80-120% acceptable limits.		
Analyzed By	(b)(4)	Approved By	(b)(4)
			an in the second se
Date	. 1/5/15-		Laboratory Director
Dutt			
AAS, DailvQC.001			



Chain of Custody

- Environmental Lead -

Contact Information

Client Company:	Jacobs (Stennis Space Center)		
Office Address:	Building 1100 Suite 213G		
City, State, Zip:	Stennis Space Center, MS 39529		
Fax Number:	228.688.6456		
Email Address:	(b)(4)		

Project Number:653.Project Name:B1 LPrimary Contact:Cell Phone:Cell Phone:_____

3-2015	
-8 Vessels	
(b)(4)	

iATL is accredited by the National Lead Laboratory Accreditation Program (NL environmental samples for lead (Pb). The accreditation is through AIHA-LAP, L recognized state programs.	LAP) to perform analytical testing of LC and several other nationally
Matrix/Method:	

$\mathbf{\nabla}$	Paint	by	AAS:	AS	ΤM	D333	5-85a,	2009

L.	Wipe/Dust	by	AAS: SW	846:	3050B:	700B,	2010
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☐ Air by AAS: NIOSH 7082, 1994

Soil by AAS: EPA SW 846 (Soil)

Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010

Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311

Other_

Special Instructions:

Please analyze for lead and total chromium.

PO

Same Day Preliminary Results Requested Date: Same Day Specific date / time 10 Day 10 Day 5 Day 3 Day 2 Day * End of next business day unless otherwise specified. ** Matrix	☐Verbal ☐ Email ☐ Fax Day* ■ 12 Hour** ☐ 6 Hour** ☐ RUSH** ix Dependent. *** Please notify the lab before shipping ***
Chain of Custody Relinguished (Name/Organization (b)(4)	e: 2/0/15 TIM: E295E / VE 5

reeninguisneu (r tuine, organization				100 B 117 11-	11.7
Received (Name / iATL):		Date:	_ Time:		1
Sample Login (Name / iATL):		Date: <u>Z/6/15</u>	Time:		ıl ı
Analysis(Name(s) / iATL):	(b)(4)	Date:	Time:	-6 201E	E
QA/QC Review (Name / iATL):		Date:	Time:		
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			1/311		



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Sample Log

-Environmental Lead -

Jacobs (Stennis Space Center)

6533-2015 Project:____

Sampling Date/Time: 2/5/2015, 1300

Client Sample #	iATL#	Location/ Description	Flow Rate	<u>Start</u> End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
6533-2015-001	5544470	B1 L8 North Vessel					
6533-2015-002	5544471	B1 L8 North Vessel					
						Walk Burg and a Constant of Origin Statement of Original Statements and Andrew	
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			and a state of the				ana da sa da sa
Name and Address of the Address of t					· · · · · · · · · · · · · · · · · · ·		anno an anna ann an ann an ann an ann an

* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)

** = Insufficient Sample Provided to Analyze (<50mg) ***= Matrix / Substrate Interference Possible

FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These **preliminary results** are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.



International Asbestos Testing Laboratories

IATL

aj a

9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054 Telephone: 856-231-9449 Fax: 856-231-9818 INFO@IATL.COM

DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 02/06/15)

Standard	Total Lead	Percent
	(mg)	Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	106
Lab Control Std	1.300	97
Matrix Spike - LBP *	0.27	99
Matrix Spike - Wipe *	0.33	102
Matrix Spike - Soil *	and and the second of the seco	
Matrix spike - Air *		
2.5 ppm Standard	0.25	101
10.0 ppm Standard	1.0	102
40.0 ppm Standard	4.0	98

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Edd Dataset and an and a second s			
Analysis Method:	ASTM D3335-85A	999), 188 (1997) - Harrison Constant, 1997) - Harrison Constant, 1997) - Harrison Constant, 1997) - Harrison Constant	
	NIOSH 7082		
Non state of the	EPA SW846 3050B 7000B		
Comments:	IATL assumes that all sampling complies with accepted methods.	and a second	Фундун на алан на алан адаа на алан на Ката и даа на алан на а
с. К	All client supplied sampling data is assumed to be correct when calculating results.		
	Detection limit based upon 0.2 mg/L reporting limit and sample size.		
	* NIST Traceable.		
n	** 80-120% acceptable limits.		
Analyzed By	(b)(4)	Approved E	
Date:	2/6/15		Laboratory Director
AAS.DailyQC.001			

CERTIFICATE OF ANALYSIS

Client: Jacobs Technology Bldg 1100; Suite 213G Stennis Space Ctr. MS 39529

 Report Date:
 2/6/2015

 Report Number:
 355906

 Project:
 B1 L8 Vessels

 Project No.:
 6533-2015

CHROMIUM PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	Description / Location	Chromium Concentration <u>(% By Weight)</u>
155544470	6533-2015-001	B1 L8 North Vessel	0.033
155544471	6533-2015-002	B1 L8 North Vessel	0.39

Analysis Methods:	ASTM D3335-85A "Standard Method EPA SW846-(7420/7421) "Standard I	To Test For Low Concentrations Of Chromium in Paint By Atomic Absorption Spectrophotomety" Aethod To Test For Low Concentrations Of Chromium In Soils, Sludges and Sediments By AAS"					
Comments:	Recommend multiple sampling for all data upon which these results are base Determined (LSD) in accordance with Insufficient sample provided to perfor substrate interference possible.	ommend multiple sampling for all samples less than regulatory limit for confirmation. IATL assumes that all of the sampling methods and upon which these results are based, have been accurately supplied by the client. Reporting Limit (RL) based upon Lowest Standard ermined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.50 ppm RL= 0.013% by weight (based upon 100 mg sampled). * ifficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<60 me) *** Motein / strate interference possible.					
Date Received:	2/6/2015	(b)(4)					
Date Analyzed:	2/6/2015	Approved By:					
Analyst:	(b)(4)	Page 1 of 1					



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody – Environmental Lead –

Contact Informa Client Company: Office Address: City, State, Zip: Fax Number: Email Address:	ation Jacobs (Stennis Space Center) Building 1100 Suite 213G Stennis Space Center, MS 39529 228.688.6456 (h)(4)	Project Number: Project Name: Primary Contact: Office Phone: Cell Phone:	6533-2015 B1 L8 Vessels (b)(4)					
 iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs. Matrix/Method: Paint by AAS: ASTM D3335-85a, 2009 Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010 Air by AAS: NIOSH 7082, 1994 Soil by AAS: EPA SW 846 (Soil) Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010 Vater by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010 Other Metals (Cd, Zn, Cr) by AAS Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311 								
Special Instruct Please analyze fo PO (b)(4)	Special Instructions: Please analyze for lead and total chromium. PO (b)(4)							
Turnaround Tin Preliminary Results Ro * End of next	me equested Date: Same Day Specific date / time 10 Day 5 Day 3 Day 2 Day business day unless otherwise specified. ** M	□Verb 1 Day* ■ 12 Hour** □ atrix Dependent. ***Please r	al Email Fax 6 Hour** RUSH** notify the lab before shipping***					
Chain of Custoc Relinquished (Nar Received (Name / Sample Login (Na Analysis(Name(s) QA/QC Review (N Archived / Release	ly ne/Organization) (b)(4) iATL): me / iATL): / iATL): (b)(4) Name / iATL): ed:QA/QC InterLAB Use: _	vate: 2/15/15 Date: 2/6/15 Date: 2/6/15 Date: 2/6/15 Date: 2/6/15 Date: 2/6/15 Date: 2/15 Date: 2/15	Time: $FEB = 6 2015$					



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Sample Log

-Environmental Lead -

Jacobs (Stennis Space Center) Client:

6533-2015 Project:

Sampling Date/Time: _____ 1300

Client Sample #	iATL#	Location/ Description	Flow Rate	<u>Start</u> End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
6533-2015-001	5544470	B1 L8 North Vessel					
6533-2015-002	5544471	B1 L8 North Vessel					
		· · · · · · · · ·					
		nyanyya di Manana kata kata kata kata kata kata kata	*****		1008 - 1775 (n. e. 760), de 2.226 (n. e. 60) e e e e e e e e e e e e e e e e e e e		
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Michael Michael and American Michael Reserves and any person of the second second second second second second s							
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* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)

** = Insufficient Sample Provided to Analyze (<50mg) ***= Matrix / Substrate Interference Possible FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

Celebrating 25 years...one sample at a time www.iatl.com





DAILY QUALITY CONTROL DATA

CHROMIUM SAMPLE ANALYSIS

(DATE: 02 / 06 / 15)

Standard	Total Chromium (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	107
Matrix Spike - LBP *	0.05	92
Matrix Spike - Wipe *		
Matrix Spike - Soil *		
Matrix spike - Air *		
0.75 ppm Standard	0.75	104
5.0 ppm Standard	5.0	101
10.0 ppm Standard	10.0	100

AIHA-LAP, LCC No. 100188

AIHA Cert No. 444

Analysis Method:	ASTM D3335-85A	ny panjanya mangambanana mananana na ana ana na manana na manana da ana ana da baha mana manana na A	entioobileatilatikaanaaraaa		
	NIOSH 7024				
and and a second se	EPA SW846 3050 7420/21				
Comments:	IATL assumes that all sampling complies with accepted methods.				
· · ·	All client supplied sampling data is assumed to be correct when calculating results.				
· .	Detection limit based upon 0.25 mg/L reporting limit and sample size.				
	* NIST Traceable.				
·	** 80-120% acceptable limits.				



AAS.InitSumCr.002



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054 Phone: 877-428-4285/856-231-9449 . Fax: 856-231-9818

Chain of Custody

Environmental Lead

	1.711 V 1.	Tonnental Leau –				
Contact Informa	ation					
Client Company:	Jacobs (Stennis Space Cente	er) Project Number:	6534-2015			
Office Address:	Building 100, Suite 213D	Project Name:	B2 Soft Core			
City, State, Zip:	Stennis Space Center, MS, 39	9529 Primary Contact:				
Fax Number:		Office Phone:	(b)(4)			
Email Address:	(b)(4)	Cell Phone:				
Basalan kanan k						
iATL is accredited environmental samp recognized state pro	by the National Lead Laborator ples for lead (Pb). The accredita ograms.	ry Accreditation Program (NL ation is through AIHA-LAP, I	LAP) to perform analytical testing of LLC and several other nationally			
Matrix/Method:		10000	2018 90000 20000 4200 4200 Find			
Paint by AAS:	: ASTM D3335-85a, 2009					
Wipe/Dust by	AAS: SW 846: 3050B: 700F	B, 2010	210/15 NB			
Air by AAS: N	NIOSH 7082, 1994					
Soil by AAS:	EPA SW 846 (Soil)					
Water by AAS	5-GF: ASTM D3559-03D, U	SEPA 40CFR 141.11B, 20	10			
Uther Metals (Other Metals (Cd, Zn, Cr) by AAS					
Toxicity Chara	icteristic Leaching Procedure	e (TCLP) by AAS: USEPA	1311			
Special Instrumentic						
<u>Special Instruction</u>	$\frac{\text{ons:}}{\text{P}}$	(b)(4)				
Turnaround Tim	e 4/0/45	poonty				
Preliminary Results Requested Date: 1/9/15 IVerbal Email Fax						
10	Day 5 Day 3 Day 2 Da	ay 🔲 1 Day* 🛄 12 Hour** 🔳 (5 Hour** RUSH**			
* End of next bu	isiness day unless otherwise specified.	. ** Matrix Dependent. ***Please n	otify the lab before shipping***			
Chain of Custody		$p = \overline{y} / 6 / rs$	12:50 PM			
Relinquished (Name	Organization	ate: 2/1 /on	ETIES CLE- WE'D			

Time: Received (Name / iATL): Date: Sample Login (Name / iATL): Date: 2 Time: М Analysis(Name(s) / iATL): Date: U Time: FEB 20 QA/QC Review (Name / iATL): Date: Time: Archived / Released: QA/QC InterLAB Use: Date: Time:

> 88986 S Celebrating 25 years...one sample at a time www.iatl.com

Nice State

1111770



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Sample Log

-Environmental Lead -

Jacobs (Stennis Space Center)

6534-2015 Project:____

Sampling Date/Time: 2/5/2015

Client Sample #	iATL #	Location/ Description	Flow Rate	<u>Start</u> End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
001	5546484	Cleanroom floor				100 cm2	
002	5546485	21 ft. outside cleanroom entrance				100 cm2	
003	5546486	2 ft. outside cleanroom entrance				156.45 cm2	
004	5546487	31 ft, outside cleanroom entr., Facility Spares	-			100 cm2	
005	5546488	8 ft. outside cleanroom entr., elevator call panel				100 cm2	
006	5546489	Level 12, below cleanroom entrance				100 cm2	
007	5346490	Inside west elevator, floor				100 cm2	
008	5546491	Inside #2 (west) elevator, call panel				100 cm2	
009	5546492	(Blank)	6.2014.0.2014.0.0014.0.001			0 cm2	
			****	*****			
				*****			1

* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)
 ** = Insufficient Sample Provided to Analyze (<50mg)
 ***= Matrix / Substrate Interference Possible
 FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

AND COMPANY

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

- 2 -Submit Form

National Aeronautics and Space Administration	REQUEST FOR SHIPPING NOTICE
John C. Stennis Space Center Stennis Space Center, MS 39529-6000	(Implemented by NPG 4100.1)

SHIP TO:	2499449925255555555557925294734699457344789449446495						IMPO	RTANT INSTRUC	FION:
International Asbestos T 9000 Commerce Parkwa Mt. Laurel, New Jersey C Ph. 877-428-4285, 856-2 Fx. 856-231-9818	esting Laborator ay, Suite B 08054 231-9449	y				SN N	0.		
THE MATERIAL LISTED	BELOW IS BEING	SHIPPED TO YOU FO	R THE FOLLOWIN	IG REASONS:					
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(b)(4)							8-12	34	
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SSC-280 (08/99) (MS Word 97) C.G. (08/99) pc



DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS (DATE: 02/10/15)

Total Lead Percent Standard Recovery ** (mg) 0.000 < LOQReagent Blank Blank Spike 0.500 105 Lab Control Std 1.320 103 107 Matrix Spike - LBP * 0.37 Matrix Spike - Wipe * 0.37 105 98 Matrix Spike - Soil * 0.379 98 Matrix spike - Air * 0.050 96 0.25 2.5 ppm Standard 100 10.0 ppm Standard 1.0 4.0 101 40.0 ppm Standard

•	AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021
Analysis Method:	ASTM D3335;85A
• 196	NIOSH 7082
	EPA SW846 3050B 7000B
Comments:	IATL assumes that all sampling complies with accepted methods.
x	All client supplied sampling data is assumed to be correct when calculating results.
	Detection limit based upon 0.2 mg/L reporting limit and sample size.
197	* NIST Traceable.
	** 80-120% acceptable limits.
Norman and an and any first a server second solution provide an and solution of the second and an and a second	
	(b)(4)
Analyzed By:	(b)(4) Approved By
	Laboratory Director
Date:	

AAS.DailyQC.001


CERTIFICATE OF ANALYSIS

Client:	Jacobs Technology		Report Date:	2/10/2015
	Bldg 1100; Suite 213G		Report Number:	356104
	Stennis Space Ctr. MS	39529	Project:	B2 Soft Core; 2/5/15
			Project No.:	6534-2015

LEAD WIPE SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	Location / Description	Area Sampled (<u>ft²)</u>	Concentration <u>(µg/ft²)</u>
5546484	001	Cleanroom; FL	0.11	<93.0
5546485	002	21' Outside Cleanroom Entrance	0.11	730.0
5546486	003	2' Outside Cleanroom Entrance	0.17	12000.0
5546487	004	31' Outside Cleanroom Entrance Facility Spares	0.11	500.0
5546488	005	8' Outside Cleanroom Entrance Elevator Call Panel	0.11	<91.0
5546489	006	Level 12; Below Cleanroom Entrance	0.11	41000.0
5546490	007	Inside West Elevator; FL	0.11	1000.0
5546491	008	Inside #2; West Elevator; Call Panel	0.11	320.0
5546492	009	Blank	Blank	<10.0 ug

Accreditation:	NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP) AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021					
Analysis Method:	EPA SW846-3050B:7000B "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges And Sediments By AAS"					
Comments:	Regulatory limit varies by surface location (EPA/HUD guidelines). Unless otherwise stated, results assume one square foot sampled. Method requires submittal of blanks. IATL assumes that all of the sampling methods and data upon which these results are based, have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD= 0.2 ppm MDL=4.4 µg/ft ² RL=10.0 µg/ft ² (based upon 1.0 square foot sampled). The EPA 403 Final Rule (40 CFR 745.63) requires that all wipe samples of settled dust shall be collected using a wipe that meets ASTM E1792. Sample results are not corrected for contamination by field or analystical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.					
Date Received: Date Analyzed: Analyst:	$\begin{array}{c} 2/10/2015 \\ \hline 2/10/2015 \\ \hline (b)(4) \\ \hline (b)(4) \\ \hline (b)(4) \\ \hline \end{array}$					
	Page 1 of 1					

B-Stand Soft-core Lead Wipe Samples 3-30-2015 Ø

Ø

Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only)

1885

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE. (800) 220-3675 FAX: (856) 786-5974

EMOL ANALYTICAL, INC.	
LABORATORY - PROCUETE-TRAMING	

company: Jacobs FOSC G	FOUP		EMSL-Bill If Bill to is Differ	to: M Sa ent note inst	ame 📙 Di ructions in Ce	fferent	
Street: BUILDING 1100, SUIT	E 2139	Th	ırd Party Billing regu	ures writter	authonzati	on from third o	artv
City 2000 DAVE (ENTER State/P	rovince: MS	Zip/Posta	I Code: 2952	29	Cou	ntry: USA	<i></i>
Report To (Name) (b)		Telephon	e #:	(b)(4)			
Email Address: (b)(4	()	Fax #: 2	28.688.6	ASID	Pur	hase Order:	
Project Name/Number: 4544-2	015	Please Pr	rovide Results:		M Email		
U.S. State Samples Taken: MS		CT Samo	les: Commerc	ial/Taxat	le 🗌 Re	sidential/Tax	Exempt
$1 \frac{P_{12}}{P_{12}}$ (b)(4)	naround Time (TA	T) Option	s* - Please Che	ck			exompt
	Hour 48 Hour	72	2 Hour 🛛 🗍 96	6 Hour	🗌 1 W	eek 🗌	2 Week
*Analysis complete	d in accordance with EMS	L's Terms a	nd Conditions locate	d in the Pr	ce Guide		
Matrix	Method		Instrume	nt	Report	ing Limit	Check
Chips 🗌 % by wt. 🗌 mg/cm² 🔲 ppm	SW846-7000E	3	Flame Atomic Ab	sorption	0.	01%	
Air	NIOSH 7082		Flame Atomic Ab	sorption	4 µ	g/filter	
	NIOSH 7105		Graphite Furna	ce AA	0.03	µg/filter	
	NIOSH 7300 mod	lified	ICP-AES/ICP	-MS	0.5	ug/filter	
Wipe* ASTM non ASTM	SW846-7000E	3	Flame Atomic Ab	sorption	10 µ	g/wipe	
*if no box is checked, non-ASTM Wipe is assumed	SW846-6010B o	or C	ICP-AES		1.0 µ	ıg/wipe	
TCLP	SW846-1311/7000B/S	M 3111B Flame Atomic Absorption		sorption	0 4 mg/L (ppm)		
	SW846-1131/SW846-6	010B or C	ICP-AES		0 1 mg	/L (ppm)	
Soil	SW846-7000E	3	Flame Atomic Ab	sorption	40 mg/	'kg (ppm)	
	SW846-6010B o	or C	ICP-AES		2 mg/l	kg (ppm)	
	SM3111B/SW846-7000B		Flame Atomic Absorption 0.4		0.4 mg	ı/L (ppm)	
Preserved with HNO ₃ pH < 2 \Box	EPA 200.9		Graphite Furnace AA 0		0.003 m	ıg/L (ppm)	
	EPA 200.7		ICP-AES		0.020 m	ig/L (ppm)	
Drinking water Unpreserved \square	EPA 200.9 EPA 200.8		Graphite Furna	CE AA	0.003 n	ig/L (ppm)	
TSP/SPM Filter	40 CFR Part 50 (2	2013)	ICP-MS		1.2 µg/filter		
Other:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				·····	grinter	
Name of Sampler: 2/20/2015		Signa	ture of Sample	.			
Sample #	on		Volume/Are	a	(~)() Jate/Lime S	ampled
22015-001 Lill FLOOR BOTTOM	FCTMPNEL		v oranio, rite	16	2	420/15,0	1-2
	GOT- CUD9			<u> </u>		<u>1-41-1</u>	
22-15 - 0.2 LIL FLOOP DEHIND	OHE CIUT						
33015-003 LII TLOOP UNDER ON HEATER PANE				· · · ·		<u>I.</u>	
5015-004 LII TOP OF LIGHT FIXTUPE							
53015-005 LII BEAM N. WALL	3 1164		T	1	<u> </u>	<u>у</u>	
Client Sample #'s 00] - 04		}		<u> # 01 58</u>			
Relinquished (Client):	Date:	,		Time:		-	
Received (Lab): (b)(4)	Date:	3/.	31/15	Time:		8: Dan	
Comments:							

Controlled Document --- Lead (Pb) COC - R9- 3/4/2015

Page 1 of <u>3</u> pages

Page 1 Of 3

Rig. Fider



LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

1885

EMSL ANALYTICAL, INC 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX. (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
33015-201	D LI FLOOP IN FRONT CI103	lfi ²	2/30/15 9-3p
33015-007	LIZ FLOOP BOTTOM OF GAIPWELL	· (ti,
33015-00	L12 GATE DOOP	le	<u>и</u>
23015-009	LIZ TOP OF LIGHT FIXTURE	11	ų
3305-010	LIZ BEAM ON WEST WALL 5' HIGH	li -	LT
32015-011	LI3 C 1307 STOPART DOOP	le le	ч
33015-012.	LI3 HANDBAIL	ι.	1
33015-013.	LIY NOPTH HANDRALL	tı .	ł,
33015-014	LI4 SOUTH HANDRAIL	(}	(1
3305-015	LI4 BEAM NE CORNER	ц	ti .
33015-016	LIS BEAM NORTH	ц	h
33015-017	LIS SOUTH HANDRAIL	\ <u>ı</u>	4
37:05-018	L15 12 STAIRWELL LANDING	ų	41
33015-019	LIS TOP OF HOO TANK 2	tı	u
37015-020	LIG BEAM South 6' High	ų	Ч
33015-021	LIG MIDDLE HANDRAIL	L1	
33015-022	46 SELOND STEP	(1	ų
23015-023	116 TOP OF LIGHT FIXTUPE	ų	u u
Comments/Sp	pecial Instructions:		

Page 2 of 3 pages

Controlled Document --- Lead (Pb) COC -- R9-- 3/4/2015

Page 2 Of 3

 LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

1885

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX. (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample # Location Volume/Area Date/Time Sampled 33015-02 in S ^? $\boldsymbol{\lambda}$ **Comments/Special Instructions:**

Page pages

Controlled Document --- Lead (Pb) COC - R9- 3/4/2015



Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

					Leau		
Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Concentration		
33015-001	251501885-00	01 3/30/2015	3/31/2015	144 in ²	2400 μg/ft²		
	Site: L11 Flr B	ottom of Stairw	vell				
33015-002	251501885-00	02 3/30/2015	3/31/2015	144 in ²	3900 μg/ft²		
	Site: L11 Flr B	ehind Gate C1	109				
33015-003	251501885-00	03 3/30/2015	3/31/2015	144 in ²	920 μg/ft²		
	Site: L11 Flr U	Inder GN Heate	er Panel				
33015-004	251501885-00	04 3/30/2015	3/31/2015	144 in ²	790 μg/ft²		
	Site: L11 Top	of Light Fixture					
33015-005	251501885-00	05 3/30/2015	3/31/2015	144 in ²	300 µg/ft²		
	Site: L11 Bean	n N Wall 3' Hig	h				
33015-006	251501885-00	06 3/30/2015	3/31/2015	144 in ²	210 µg/ft ²		
	Site: L11 Flr in	Front C1103					
33015-007	251501885-00	07 3/30/2015	3/31/2015	144 in ²	1200 µg/ft²		
	Site: L12 Flr Bottom of Stairwell						
33015-008	251501885-00	08 3/30/2015	3/31/2015	144 in ²	110 µg/ft²		
	Site: L12 C120	06 Storage Doo	or				
33015-009	251501885-00	09 3/30/2015	3/31/2015	144 in ²	590 µg/ft²		
	Site: L12 Top	of Light Fixture					
33015-010	251501885-00	10 3/30/2015	3/31/2015	144 in ²	260 µg/ft ²		
	Site: L12 Bean	n on W Wall 5'	High				
33015-011	251501885-00	11 3/30/2015	3/31/2015	144 in ²	160 µg/ft²		
	Site: L13 C130	07 Storage Doo	or				
33015-012	251501885-00	12 3/30/2015	3/31/2015	144 in ²	33 µg/ft²		
	Site: L13 Hand	drail					
33015-013	251501885-00	13 3/30/2015	3/31/2015	144 in ²	140 µg/ft²		
	Site: L14 N Ha	andrail					
33015-014	251501885-00	14 3/30/2015	3/31/2015	144 in ²	21 µg/ft ²		
	Site: L14 S Ha	andrail					
33015-015 ***	251501885-00	15 3/30/2015		n/a	µg/wipe		
	Site: L14 Bean *** Not submit	n NE Corner ted.					



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AlHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/31/2015 13:07:32



Attn:

(228) 688-3368

Phone: Fax:

Received:

Collected:

EMSL Order: CustomerID: CustomerPO: ProjectID:

JCWS50

03/31/15 8:00 AM

3/30/2015

Jacobs FOSC Group Building 1100 Stennis Space Center Waveland, MS 39529

Project: 6544-2015

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lah ID	Collected	Analyzed	Area Sampled	Leaa Concentration
2204E 046	251501895.00	16 2/20/2015	2/21/2015	111 in2	500
33015-016	231301863-00 Site: 1 15 Boon	10 3/30/2015	3/31/2015	144 112	580 µg/n²
22015 017	251501995 00	17.2/20/2015	2/21/2015	111 :	1000
33015-017	231301663-00	17 3/30/2015	3/31/2015	144 112	1000 μg/π²
22015 019	SILE: L 15 5 Ha	101211	2/21/2015	111 :	1000
33015-018	201001860-00 Site: 145 1/2 S	18 3/30/2015	3/31/2015	144 112	1600 μg/π²
22045 040	Sile: L15 1/2 3		y 2/24/2045	444 :2	600
33015-019	251501885-00	19 3/30/2015	3/31/2015	144 IN ²	620 µg/tt²
22045 020	Site: L15 Top 0	DT H20 Tank 2	2/24/2045	444 :2	200
33015-020	251501885-00	20 3/30/2015	3/31/2015	144 IN ²	200 µg/tt²
22045 024	Site: L16 Bean		2/24/2045	444 :2	24
33015-021	251501885-00	27 3/30/2015	3/31/2015	144 IN ²	34 µg/tt²
22045 022	Site: L16 Midd		2/24/2045	444 :2	4000
33015-022	251501885-00	22 3/30/2015	3/31/2015	144 IN ²	1600 μg/π²
22045 022	Site: L16 Seco	na Step	2/24/2045	444 :2	F70
33015-023	251501885-00	23 3/30/2015	3/31/2015	144 IN ²	570 µg/ft²
00045-004	Site: L16 Top (of Light Fixture	0/04/0045	444 1.2	74
33015-024	251501885-00	24 3/30/2015	3/31/2015	144 IN ²	71 μg/ft²
00045.005	Site: L17 Trans	stormer 00137	4	444 1.2	000
33015-025	251501885-00	25 3/30/2015	3/31/2015	144 IN ²	220 µg/ft²
	Site: Level 17	Beam NE Cor	ner		
33015-026	251501885-00	26 3/30/2015	3/31/2015	144 in ²	1500 µg/ft²
	Site: L17 Top (of Table Tray			100 // 10
33015-027	251501885-00	27 3/30/2015	3/31/2015	144 in ²	400 µg/ft ²
	Site: Top of Lig	ght Fixture			
33015-028	251501885-00	28 3/30/2015	3/31/2015	144 in ²	330 µg/ft²
	Site: I-Beam S				
33015-029	251501885-00	29 3/30/2015	3/31/2015	144 in ²	3300 µg/ft ²
	Site: Top of El	ectrical Panel L	.P-117		
33015-030	251501885-00	30 3/30/2015	3/31/2015	144 in ²	31 µg/ft²
	Site: I beam S	N Corner			



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/tt2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/lt² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/31/2015 13:07:32



Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lah ID (Collected	Analyzad	Area Sampled	Lead
22015 021	251501885 0021 2	/20/2015	2/21/2015	144 in2	220 ug/##2
33013-031	231301003-0031 3	/30/2013	3/31/2015	144 11-	220 µg/π-
	Site: Top of Unit N	VV			
33015-032	251501885-0032 3	/30/2015	3/31/2015	144 in ²	510 µg/ft²
	Site: I-Beam NE				
33015-033	251501885-0033 3	/30/2015	3/31/2015	144 in ²	8100 μg/ft ²
	Site: Top of Light a	t C1803			
33015-034	251501885-0034 3	/30/2015	3/31/2015	144 in²	1600 μg/ft²
	Site: Floor				
33015-035	251501885-0035 3	/30/2015	3/31/2015	144 in²	100 μg/ft²
	Site: Table in C904	Ļ			
33015-036	251501885-0036 3	/30/2015	3/31/2015	144 in²	1000 μg/ft²
	Site: Floor in 904				
33015-037	251501885-0037 3	/30/2015	3/31/2015	144 in²	300 μg/ft²
	Site: I Beam NW 5	" up			
33015-038	251501885-0038 3	/30/2015	3/31/2015	144 in²	39 µg/ft²
	Site: Beam on E W	all			
33015-039	251501885-0039 3	/30/2015	3/31/2015	144 in²	15 μg/ft²
	Site: Handrail				
33015-040	251501885-0040 3	/30/2015	3/31/2015	144 in²	180 μg/ft²
	Site: I-Beam 2' up \$	SWall			
33015-041	251501885-0041 3	/30/2015	3/31/2015	144 in ²	1200 μg/ft²
	Site: Light fixture al	bove fire ex	tinguisher		



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/31/2015 13:07:32

	EMSL ANALY LASORATONY- PROD	TICAL, INC.	Lead (Pb) Cl EMSL Orde	hain of r ID (Lab (/	Custody Jse Only): 212]	EM 200 CINN PHC F	SL ANALYTI() ROUTE 13(JAMINSON, N)NE: (800) 2 FAX: (856) 7	CAL, INC. D NORTH IJ 08077 20-3675 86-5974
Wavela	Company : Street: Bui	Jacobs FOSC Iding 1100, Ste Space Conter States	Group U3G Province: MS	Th Zip/Posta	EMSL-Bi If Bill to is Diffe Ind Party Billing req Il Code: 34 52	II to: Sa erent note inst uires writter	arne D ructions in C n authorizat	ifferent omments** ion from third p intry: ルバ	party A
æ	Report To (Na Email Address Project Name/	me): (h s (b)(Number: 6544 ~20 nales Teken: (X15	4) 4) 2/5	Telephon Fax #: Please Pl	e #: 2, 2,8 - 6,88 - rovide Results: les:	(b)(4) (456 Fax	Pur DEEmail	chase Order	: (b)(4)
	U.S. State San	npies raken: 775	urnaround Time (TA	T) Option	es. 🔄 commer			sidentiali i a	x Exempt
(re	3 Hour	6 Hour 2	4 Hour 48 Hour	r 72 SL's Terms al	2 Hour 9	6 Hour	ice Guide	/eek] 2 Week
		Matrix	Method		Instrum	ent	Repor	ting Limit	Check
	Chips 🗌 % b	y wt. 🗋 mg/cm² 🔲 ppm	SW846-7000	в	Flame Atomic A	bsorption	0	.01%	
	Air		NIOSH 7082		Flame Atomic A	bsorption	4 µ	g/filter	
1			NIOSH 7105	i	Graphite Furn	ace AA	0.03	µg/filter	
			NIOSH 7300 mod	lified	ICP-AES/IC	P-MS	0.5	ug/filter	
æ	Wipe*	ASTM	SW846-7000	В	Flame Atomic Absorption		10 µg/wipe		
ver	*if no box is	non ASTM	SW846-6010B or C		ICP-AES		1.0 µg/wipe		
		Wipe is assumed	SW846-7000B/7010		Graphite Furnace AA		0.075 µg/wipe		
	TCLP		SW846-1311/7000B/S	SW846-1311/7000B/SM 3111B		bsorption	0.4 m	g/L (ppm)	
			SW846-1131/SW846-6010B or C		ICP-AE	S	0.1 m	<u>3/L (ppm)</u>	┠─╞╡┙┥
	Soil		SW846-7000B		Flame Atomic A	bsorption	40 mg/kg (ppm)		╏┝╡╌┨
			SW846-7010 SW846-6010B or C		ICP-AES		2 mg/kg (ppm)		╏┝╡┨
			SW846-6010B 0F C		Flame Atomic A	bsorption	0.4 mg/l (ppm)		╉┝╞┥┥
	Wastewater	Unpreserved	EPA 200.9		Graphite Furnace AA		0.003 mg/L (ppm)		╞╴╞╡┈┨
	Preserved w	ith HNO ₃ pH < 2 \Box	EPA 200.7		ICP-AES		0.020 mg/L (ppm)		
	Drinking Wa	ter Unpreserved	EPA 200.9		Graphite Furn	ace AA	0.003 mg/L (ppm)		
	Preserved w	<u>ith HNO₃ pH < 2 </u>	EPA 200.8		ICP-MS		0.001 mg/L (ppm)		
	TSP/SPM Fil	ter	40 CFR Part 50		ICP-AES		12 µg/filter		╽──╞╡──╽
	044		40 CFR Part 5	Part 50 Graphite Furnace A		ace AA	3.6 µg/filter		┠╌╞╡╌┨
	Uther:								┸─└┙──┤
	Name of San	npler:		Signa Signa	ture of Sample	er:			
	Sample #	Loca	lion	•	Volume/Ar	ea	· ·	Date/Time :	Sampled
	3315-001	Middle Table	<u> </u>	I s	ig foot			3/3/15	8.00 am
	3315-002	MILIO Wave 1a	612						
	3315-003	Floor Near Re	fridgerator						
	3315-004	Floor Near F.	ntrance		\mathbf{V}				
	3315-005	Microwave Tu	IN table	154	+ inches				/
	Client Samp	e#'s ??!(-001 - ?	215-011	,	Tot	al # of Sa	mples:	111	
	Relinquished	d (Client)	Date:	3/3/1	rs 3/3/5	Time:	Z	: Jopn a	?'.30 ~~
	Received (Lab);(D)	Date:	3/0	4/15	Time:	/	120 an	د
	vomments;								

Controlled Document --- Lead (Pb) COC -- R6-- 6/12/2012

Page 1 of 2 pages

Page 1 Of 2

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EMBL ANALYTICAL, INC.

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

1212

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled				
3715-006	Middle Table	1 59 foot	3/3/15 1330				
2315-007	Microwave Table						
3315-008	Floor Near VE Gridger ator						
3315-009	Floor near entrance		V				
3315-010	NA	NIA					
3715-011	NIA	NIA					
······································							
Comments/S	Comments/Special Instructions: Die Comments/Special Instructions:						
	(b)(4)						

Page ______ of _____ pages

Controlled Document --- Lead (Pb) COC - R6-- 6/12/2012

Page 2 Of 2



Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Concentration
3315-001	251501212-000	01 3/3/2015	3/4/2015	144 in ²	<10 µg/ft²
	Site: Middle Ta	ble			
3315-002	251501212-000	02 3/3/2015	3/4/2015	144 in ²	16 µg/ft²
	Site: Microwave	e Table			
3315-003	251501212-000	03 3/3/2015	3/4/2015	144 in ²	1200 µg/ft²
	Site: Floor Nea	r Refridgerato	r		
3315-004	251501212-000	04 3/3/2015	3/4/2015	144 in ²	930 µg/ft²
	Site: Floor Nea	r Entrance			
3315-005	251501212-000	05 3/3/2015	3/4/2015	154 in²	<9.4 µg/ft²
	Site: Microwave	e Turntable			
3315-006	251501212-000	06 3/3/2015	3/4/2015	144 in ²	<10 µg/ft²
	Site: Middle Ta	ble			
3315-007	251501212-000	07 3/3/2015	3/4/2015	144 in ²	12 µg/ft²
	Site: Microwave	e Table			
3315-008	251501212-000	08 3/3/2015	3/4/2015	144 in²	250 μg/ft²
	Site: Floor Nea	r refridgerator			
3315-009	251501212-000	09 3/3/2015	3/4/2015	144 in²	170 μg/ft²
	Site: Floor Near entrance				
3315-010	251501212-00	10 3/3/2015	3/4/2015	n/a	<10 µg/wipe
	Site: N/A				
3315-011	251501212-00	11 3/3/2015	3/4/2015	n/a	<10 µg/wipe
	Site: N/A				



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/04/2015 14:30:57

Load

EMSL	-	Lead (I EMS	Pb) Ch	nain of Custody r ID (Lab Use Only)			EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077		
EMSL ANALYTICA	L, INC.			lá	52		Phon FA	⊮E (800) 22 x [.] (856) 78	.0-3675 6-5974
Company : Jac	obs FOSC C	rroup			EMSL-E	Bill to: Sa	ame 🔲 Diff	erent	·····
Street: Building	1100, Suite 21	'36		Third P	arty Billing re	equires writter	authorizatio	n from third p	arty
City: Wavelano	(State/	Province: A	15	Zip/Postal Co	de: 3 9,5	29	Cour	try: USA	
Report To (Name)	: (b			Telephone #:					
Email Address	(b)(4)			Fax #: 22	8-688	-6456	Purc	hase Order:	(b)(4
Project Name/Nur	nber: 6544 -2	015		Please Provid	de Results	: 🗌 Fax	Email		
U.S. State Sample	s Taken: MS			CT Samples:		 ercial/Taxat	 ole	idential/ rax	
	т	urnaround	Time (TAT) Options* -	Please C	heck			
D 3 Hour	6 Hour 24	Hour	348 Hour	's Terms and C	ur	96 Hour ated in the Pri	1 We	ek 🗌	2 Week
M	atrix		Method		Instrur	nent	Reporti	ng Limit	Check
Chips 🗌 % by w t	. 🗌 mg/cm² 📋 ppm	SI	W846-7000B	FI	ame Atomic	Absorption	0.0	1%	
Air		N	IIOSH 7082	FI	ame Atomic	Absorption	4 µg	/filter	
		N	IIOSH 7105		Graphite Fu	rnace AA	0.03 µ	g/filter	
		NIOS	H 7300 modi	fied	ICP-AES/ICP-MS		0.5 µ	g/filter	
⊘ Wipe*	ASTM	S	N846-7000B	FI	Flame Atomic Absorption		10 µg	/wipe	Ľ
*if no hox is che	non ASTM	SW8	SW846-6010B or C		ICP-AES		1 0 µ	g/wipe	
V	Vipe is assumed	SW8	SW846-7000B/7010			rnace AA	0 075	Jg/wipe	
TCLP		SW846-13	11/7000B/SN	/I 3111B FI	ame Atomic	Absorption	0.4 mg/	L (ppm)	
	10	SW846-113	1/SW846-60	10B or C	ICP-A	ES	0.1 mg/	L (ppm)	
Soil		SW846-7000B		FI	ame Atomic	Absorption	40 mg/k	(ppm)	
		SIA	W846-7010	<u></u>	ICP-AES		0.3 mg/l	0.3 mg/kg (ppm)	
		SM3111B/SW846-			Flame Atomic Absorption			y (ppin) 1 (ppm)	
Wastewater		EPA 200.9			Graphite Fu	mace AA	0.003 m	2/L (ppm)	
Preserved with F	$1NO_3 pH < 2$	EPA 200.7			ICP-AES		0.020 mg	g/L (ppm)	
Drinking Water	Unpreserved	EPA 200.9			Graphite Furnace AA		0.003 m	g/L (ppm)	
Preserved with H	INO₃pH<2 ∐		EPA 200.8	3 ICP-MS		IS	0 001 m	g/L (ppm)	
TSP/SPM Filter		40	CFR Part 50		ICP-AES		12 µg)/filter	
Other		40	UFR Fall DU	' <u> </u>	Graphile Ful	nace AA	JOH	g/niter	
Name of Sample	er:	(b)(4)		ignatur	e of Samp	ler	(b)(4)		
Sample #	Locat	ion ′			Volume/A	rea		ate/ I Ime S	ampled
001 Br	eath Room floor N	ear entras	e	1	59 14		3/	5/15 0	8:00
002 R/	Rical Room Mear retringerator								
003 ON	ON dest Office 1 office								
004 fl.	loor entrance office 1 office								
005 on	dest office	ddle		\bigvee			\bigvee		
Client Sample #'	s <u>001 - 0</u>	10		1	T	otal # of Sa	imples:	10	
Relinquished (C	lient):		Date:	315/15		Time:		5	
			1		1				

Controlled Document --- Lead (Pb) COC - R6- 6/12/2012

Ø Page 1 of 2 _pages

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

1252



EMSL ANALYTICAL, INC 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE⁻ (800) 220-3675 FAX (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
006	floor entrance office 2 middle	Isq ft	3/5/15 09:00
007	On desk office 3 office		
008	floor entrance office 3 office		
009	cable tray		V
010	Rlank	NIA	NA
	· · · · · · · · · · · · · · · · · · ·		
Comments/S	pecial Instructions:	<u> </u>	I
Email	results to		

Page ______ of _____ pages

Controlled Document --- Lead (Pb) COC - R6- 6 12:2012

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Page 2 Of 2



Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Concentration
001	251501252-00	01 3/5/2015	3/5/2015	144 in ²	69 µg/ft ²
	Site: Break Ro	om floor Near	entrance		10
002	251501252-00	02 3/5/2015	3/5/2015	144 in²	120 µg/ft²
	Site: Break Ro	om Near refrid	Igerator		
003	251501252-00	03 3/5/2015	3/5/2015	144 in ²	<10 µg/ft²
	Site: On desk o	office 1 N offic	e		
004	251501252-00	04 3/5/2015	3/5/2015	144 in ²	25 μg/ft ²
	Site: Floor entr	ance office 1 I	N office		
005	251501252-00	05 3/5/2015	3/5/2015	144 in ²	25 μg/ft ²
	Site: On desk o	office 2 Middle			
006	251501252-00	06 3/5/2015	3/5/2015	144 in ²	120 µg/ft²
	Site: Floor entr	ance office 2 ı	middle office		
007	251501252-00	07 3/5/2015	3/5/2015	144 in ²	10 µg/ft²
	Site: On desk of	office 3 S offic	e		
008	251501252-00	08 3/5/2015	3/5/2015	144 in ²	150 µg/ft²
	Site: Floor entr	ance office 3			
009	251501252-00	09 3/5/2015	3/5/2015	144 in ²	300 µg/ft²
	Site: Cable tray	/			
010	251501252-00	10 3/5/2015	3/5/2015	n/a	<10 µg/wipe
	Site: Blank				



(b)(4) Laboratory Manager or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:30:06

OrderID: 251501253

EMS

EMEL ANALYTICAL, INC.

Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only).

1253

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-5974

					/		
	Company: Jacobs FOSC	Group	EMSL-Bill to: Same Different				
	Street: Building 1100, Suit	e 2136	Th	ird Party Billing requires writte	n authorization from thırd p	arty	
	City: Waveland Sta	te/Province: MS	Zip/Posta	1 Code: 39529	Country: 45	4	
	Report To (Name): (b)(4)	Telephon	e #: (b)(4)		•	
	Email Address: (b)	(4)	Fax #: 2	28-688-6456	Purchase Order	(b)(4)	
	Project Name/Number: R2 - Sur	v- 01	Please P	rovide Results: 🗌 Fax	A Email Pu	5 5	
	U.S. State Samples Taken: MS	······································	CT Samo	les: 🗌 Commercial/Taxa	ble 🗌 Residential/Tax	Exempt	
		Turnaround Time (TA	T) Option	s* - Please Check			
	🔲 3 Hour 🗌 6 Hour 🗌	24 Hour 48 Hou	r 🗆 7	2 Hour 96 Hour	1 Week	2 Week	
	*Analysis com	leted in accordance with EM	SL's Terms a	nd Conditions located in the P	rice Guide		
	Matrix	Method		Instrument	Reporting Limit	Check	
	Chips 🛛 🖗 by wt. 🗌 mg/cm² 🔲 pp	m SW846-7000	B	Flame Atomic Absorption	0.01%		
	Air	NIOSH 7082	2	Flame Atomic Absorption	4 µg/filter	Ę	
		NIOSH 710	5	Graphite Furnace AA	0.03 µg/filter		
		NIOSH 7300 mo	dified	ICP-AES/ICP-MS	0 5 µg/filter		
	Wipe* АSTM □	SW846-7000	B	Flame Atomic Absorption	10 µg/wipe		
	non ASTM	SW846-6010B	or C	ICP-AES	1.0 µg/wipe		
	Wipe is assumed	SW846-7000B/7	7010	Graphite Furnace AA	0.075 µg/wipe		
	TCLP	SW846-1311/7000B/	SM 3111B	Flame Atomic Absorption	0 4 mg/L (ppm)		
		SW846-1131/SW846-6	6010B or C	ICP-AES	0.1 mg/L (ppm)		
	Soil	SW846-7000	B	Flame Atomic Absorption	40 mg/kg (ppm)		
		SW846-7010	0	Graphite Furnace AA	0.3 mg/kg (ppm)		
		SW846-6010B	or C	ICP-AES	2 mg/kg (ppm)		
	Wastewater Unpreserved	SM3111B/SVV846-	-70008	Flame Atomic Absorption	0.4 mg/L (ppm)		
	Preserved with HNO ₃ pH < 2 \Box	EPA 200 9 EPA 200 7	ICP-AES		0 003 mg/L (ppm)		
	Drinking Water Uppreserved	EPA 200 9		Graphite Furnace AA	0.003 mg/L (ppm)		
	Preserved with HNO ₃ pH < 2 \Box	EPA 200 8		ICP-MS	0.001 mg/L (ppm)		
	TSD/SDM Filtor	40 CFR Part	50 ICP-AES		12 µg/filter		
		40 CFR Part	50	Graphite Furnace AA	3 6 µg/filter		
	Other:						
	Name of Sampler:		Signa	ture of Sample			
	Sample # Loc	ation		Volume/Area	Date/Time S	Sampled	
wipe	3316-001 Landing between	level 10-11 stairwell		1 59 t+	3/\$4/15		
wipe	3415-002 Outside Near a	lust collectors			314/15		
W pe	005 BZ level 13, clean RM Floor			3/5/15			
wipe	006 Blank	_	NIA	3/5/15			
chip	001 SWest Pier 5	fair grey on o range		NIA	315/15		
	Client Sample #'s			Total # of S	amples: 12		
	Relinguished (Client):	Date:	3/5/15	Time:	10:45		
	(b)	(4) Date:	3/1	25/15 Time:	1:200	x	
	Comments:			·· • • •			

Controlled Document --- Lead (Pb) COC - R6- 6/12/2012

Page 1 of _____ pages

Couries

EMS

EMBL ANALYTICAL, INC.

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

1253

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE (800) 220-3675 FAX⁻ (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Sample #	Location	Volume/Area	Date/Time Sampled
chip	002	Gray LOC clamp Greyon yellow or orange	Dr.	3/5/15
chip	003	B2 level 11, Soft Core Int. Siding gray	spartles	315/15
Chip	007	B 9101 support column		3/4/15
	A:r-001	Southside of containment level 11 BZ	863.1 L	3/4/15 411min
	A:r-002	B2 Intertace between 10-11	802 L	3/4/15 397min
	A:r-003	B2 ground Northside near dust collector	786 L	3/4/15 393min
	Air-Blank	Blank	NIA	NIA
		-		
			· · · · · · · · · · · · · · · · · · ·	
_	Comments/S	pecial Instructions:		
(F)	EMail res	ults to (b)(4)	

Page ______ of ___ pages

Controlled Document --- Lead (Pb) COC - R6- 6/12/2012



Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration	
Air-001	251501253-000	9 3/4/2015	3/5/2015	863.1 L	<4.6 µg/m³	
	Site: S side of c	ontainment le	evel II B2			
Air-002	251501253-001	0 3/4/2015	3/5/2015	802 L	<5.0 μg/m³	
	Site: B2 Interface between 10-11					
Air-003	251501253-001	1 3/4/2015	3/5/2015	786 L	<5.1 µg/m³	
	Site: B2 ground N side near dust collectors					
Air-Blank	251501253-001	2 3/4/2015	3/5/2015	n/a	<4.0 µg/filter	
	Site: Blank					



(b)(4) Laboratory Manager or other approved signatory

*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter. ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those Items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:55:03



Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Lead Concentration
001	251501253-00	05 3/4/2015	3/5/2015	21 % wt
	Site: On W Pie	er stair		
002	251501253-00	06 3/4/2015	3/5/2015	7.0 % wt
	Site: Gray LOC	C clamp		
003	251501253-00	07 3/4/2015	3/5/2015	0.17 % wt
	Site: B2 level II	l, Soft Cove In	-	
007 **	251501253-00	08 3/4/2015	3/5/2015	0.14 % wt
	Site: B9101 su ** Data reporte insufficient san Suggested v	pport column d may not read nple weight su weight for anal	ch applicable an bmitted. /sis is 0.2g.	ytical sensitivity due to



or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. 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. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:55:03



Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	<i>Leaa</i> <i>Concentration</i>	
3316-001	251501253-000	1 3/4/2015	3/5/2015	144 in²	1500 µg/ft²	
	Site: Landing be	etween level 1	10-11 stairwell			
3415-002	251501253-000	2 3/4/2015	3/5/2015	144 in ²	240 μg/ft ²	
	Site: Outside ne	ear dust colle	ctors			
005	251501253-000	3 3/4/2015	3/5/2015	144 in ²	210 µg/ft ²	
	Site: B2 level 13, clean RM Floor					
006	251501253-000	4 3/4/2015	3/5/2015	n/a	<10 µg/wipe	
	Site: Blank					



(b)(4) Laboratory Manager or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:55:03

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

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EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-5974

	•		
EM\$L	ANALY	TICAL,	INC.
ABORA			

EM/E

Company : Jacobs FOSC Group			EMSL-Bill to: Same Different			
Street: Building 1100 Suite 2	Third Darty Billing requires written outboarding from third party					
City: Waveland Stat	e/Province: MS	Zin/Post:	al Code: 39529	Country: U	sΔ	
Report To (Name)		Telephor	(b)(4)		<u> </u>	
(b)	(4)	Гезерног			(b)(4)	
Email Address:		Fax #:	220-000-0400	Purchase Order	<u>(D)(4)</u>	
Project Name/Number: 6 > 4 ~ 204	S BE SUIV	Please P	rovide Results: Fax		·	
U.S. State Samples Taken: MS	12100pd	CT Samp	les: Commercial/Taxa	ble 📋 Residential/Tax	Exempt	
			IS" - Please Check			
1 3 Hour to 19 6 Hour to 200	24 Hour		Z Hour 96 Hour		2 Week	
Matrix	Method		Instrument	Reporting Limit	Check	
Chips 🗌 % by wt. 🗌 mg/cm² 🗌 ppr	n SW846-7000	В	Flame Atomic Absorption	0.01%		
Air	NIOSH 7082	2	Flame Atomic Absorption	4 µa/filter		
	NIOSH 7105	5	Graphite Furnace AA	0.03 ug/filter	<u> </u>	
	NIOSH 7300 mo	dified	ICP-AES/ICP-MS	0.5 µg/filter		
	SW846-7000	В	Flame Atomic Absorption	10 µa/wipe		
	SW846-6010B	or C	ICP-AES	1.0 µg/wine		
*if no box is checked, non-ASTM Wipe is assumed	SW846-7000B/2	7010	Graphite Eurnace AA	0.075 ug/wipe		
TCLP	S\\/846-1311/7000B/5	SM 3111R	Elame Atomic Absorption			
	SW846-1131/SW846-6	3010B or C ICP-AES		0.4 mg/L (ppm)		
Soil	SW846-7000	B	Flame Atomic Absorption	40 mg/kg (ppm)		
	SW846-7010)	Graphite Furnace AA	0.3 mg/kg (ppm)		
	SW846-6010B	or C	ICP-AES	2 mg/kg (ppm)		
Wastewater Uppreserved	SM3111B/SW846-	7000B	Flame Atomic Absorption	0.4 mg/L (ppm)		
Preserved with HNO ₂ pH < 2	EPA 200.9		Graphite Furnace AA	0.003 mg/L (ppm)		
	EPA 200 7		ICP-AES	0.020 mg/L (ppm)		
Drinking Water Unpreserved	EPA 200 9		Graphite Furnace AA	0.003 mg/L (ppm)	╞╴┈╞╡┈	
Preserved with $HNO_3 pH < 2$	EPA 200 8	:0		0.001 mg/L (ppm)		
TSP/SPM Filter	40 CFR Part	50	Granhite Eurnace AA	3.6 ug/filter		
Other:	10 01111 011			olo pgrittor		
Name of Sampler: (b)	(4)	Signa	iture of Sampler:	(b)(4)		
Sample # Loc	ation		Volume/Area	Date/Time S	Sampled	
Air-obl BZ Interface	level 10 + 11	96	4.8/_	10/12/15	480min	
Air-Black Al			NA	10/17/1	 	
	Beat-Parm				.,	
M. SECT. BASS CO. BUILDING	supraticipation &	See 🛥	ENC NEKT PAGE			
	,					
Client Sample #'s		I	Total # of S	amples: 9		
		21.	clin -	10.00		
Kelinquisned (Client (b)(4) Date:	- 7!		100		
Received (Lab):	Date:	3/1.	7/15 Time:	9:50 a	×	
Comments: Please eman resu			(b)(4)			

Controlled Document --- Lead (Pb) COC - R6-- 6/12/2012

Page 1 of <u>2</u> pages

Page 1 Of 2

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LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only).

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE¹ (800) 220-3675 FAX¹ (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #		Location	Volume/Area	Date/Time Sampled
- WIRE-001-	8-13-15	Mestaining Break Doom Jable	1 612	3/13/15 840
wipe-002-	8-13-15	Metainine Broak Room Microwave T	ые "	ч <u></u> 843
Wipe-003-3	-13-19	Mezzanine Entrance Break Room Flo	ar u	" 845
wipe-004-	8-13-15	Mezzanine SE Break Room Floor	.l	ч 65 0
Nipe-605-	-13-15	Lv 10 Stairwell Landing	1	() 9:10
wipe-oole-	3-13-15	LV13 Clean Room Floor	, l	1' 945
Wipe -007-	8-13-15	Blank		3/13/15
		- 1/2 TL/WARE		
				· · · ·
				· · · · · · · · · · · · · · · · · · ·
Comments/S	l pecial Inst	ructions:	I	[
·			:	

Page $\underline{\mathcal{V}}$ of $\underline{\mathcal{V}}$ pages

Controlled Document --- Lead (Pb) COC - R6- 6/12/2012

Page 2 Of 2



Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

				Lead
Client Sample Description	Lab ID Collected	Analyzed	Volume	Concentration
Air-001	251501501-0001 10/12/2015	3/17/2015	964.8 L	<4.1 µg/m³
	Site: B2 Interface level 10 & 17	1		
Air-Blank	251501501-0002 10/12/2015	3/17/2015	n/a	<4.0 µg/filter
	Site: N/A			



crother approved signatory

*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those tems tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise. Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/17/2015 16:23:53



Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	<i>Concentration</i>
Wipe-001-3-13-15	251501501-000	3 3/13/2015	3/17/2015	144 in²	10 µg/ft²
	Site: Mezzanine	Break Rm Ta	able		
Wipe-002-3-13-15	251501501-0004	4 3/13/2015	3/17/2015	144 in ²	35 µg/ft²
	Site: Mezzanine	Break Rm M	icrowave Table		
Wipe-003-3-13-15	251501501-000	5 3/13/2015	3/17/2015	144 in ²	420 µg/ft ²
	Site: Mezzanine	Entrance Bre	eak Rm Floor		
Wipe-004-3-13-15	251501501-000	6 3/13/2015	3/17/2015	144 in ²	240 µg/ft ²
	Site: Mezzanine	SE Break Rr	n Floor		
Wipe-005-3-13-15	251501501-000	7 3/13/2015	3/17/2015	144 in ²	1900 µg/ft²
	Site: Lv 10 Stair	well Landing			
Wipe-006-3-13-15	251501501-0008	8 3/13/2015	3/17/2015	144 in ²	140 µg/ft²
	Site: Lv 13 Clear	n Room Floor			
Wipe-007-3-13-15	251501501-000	9 3/13/2015	3/17/2015	n/a	<10 µg/wipe
	Site: Blank				



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/17/2015 16:23:53

TID: 251501649				11931 Inc	tustriple
	Lead (Pb) C	hain of	f Custody	Baton Kouse EMSL ANALYTI	LA 70E
	EINGL OIGE			GINNAMINSON, A	+108077- 20-3675
EMSLANALYTICAL, INC. LAS UNATORI/PRODUCTS ITRANINS			1049	Fax: (856) 7	86-5974
Company: TES			EMSL-Bill to:	Same Different	
Street: 5133 Taravella	Rol.	1 т	hird Party Billing requires writ	ten authorization from third (party
City: State/	Province:	Zip/Post	al Code:	Country:	
Report To (Name		Telephor	ne # (b)(4)	<i>W</i>	
Email Address:		Fax #:		Purchase Order	r E N
Project Name/Number: FENV-1	150 15068	Please P	rovide Results: 📋 Fax	Email	'
U.S. State Samples Taken:		CT Samp	oles: 🔲 Commercial/Tax	able 🔲 Residential/Ta	x Exempt
(b)(4)	urnaround Time (TA	T) Option	is* - Please Check		
1 3 Hour 44 1 6 Hour 24	Hour 48 Hour		2 Hour 96 Hour	1 Week	2 Week
*Analysis complete	ed in accordance with EMS	L's l'erms a	na Conditions located in the .	Reporting Limit	Check
Matrix					
	SW846-7000E		riame Atomic Absorption	0.01%	
Air	NIOSH 7082		Flame Atomic Absorption	4 µg/filter	
	NIOSH 7105	10 - J	Graphite Furnace AA	0.03 µg/filter	
	NIOSH 7300 mod	D9111	IUP-AES/ICP-MS	U.5 µg/filter	┝╌╞┙
Wipe* ASTM	SW846-70008			10 µg/wipe	
"If no box is checked, non-ASTM	SW846-6010B OF C		Graphia Europe AA		┢─┟┤
Wipe is assumed	01/040 4244 7000 D/01/ 2444 P		Graphile Purnace AA		
TCLP	SW846-1131/SW846-6010B or C		ICP-AES	0.4 mg/L (ppm)	┟┈╞┽╶┤
Soll	SW846-7000B		Flame Atomic Absorption	40 mg/kg (ppm)	
	SW846-7010		Graphite Furnace AA	0.3 mg/kg (ppm)	
	SW846-6010B or C		ICP-AES	2 mg/kg (ppm)	
Wastewater Unpreserved	SM3111B/SW846-7	000B	Flame Atomic Absorption	0.4 mg/L (ppm)	
Preserved with HNO ₃ pH < 2 \Box	EPA 200.9		Graphile Furnace AA	0.003 mg/L (ppm)	
Drinking Water Upprocented	EPA 200.7		Granhite Euroace AA	0.020 mg/L (ppm)	
Preserved with HNO ₂ $DH < 2$	EPA 200.8		ICP-MS	0.001 mg/L (ppm)	
	40 CFR Part 50)	ICP-AES	12 µg/filter	
TSP/SPM Filter	40 CFR Part 50)	Graphite Furnace AA	3.6 µg/filter	
Other:		l	· <u></u>		
Name of Sampler:		Signat	ture of Sampler:		
Sample # Location	on		Volume/Area	Date/Time S	Sampled
Seel	Vert-	Pa	gl		
		(·····	
		<u> </u>			
Client Sample #'s		······································	, Total # of S	amples:	
	Defa:	3/2	0/15 1	1.20,	200
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		pages			

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LEAD (Pb) CHAIN OF CUSTODY EMSL ORDER ID (Lab Use Only): //_49

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
BAirl	Stairwell Between D+11	8726	3/19/15
B.A.r.Z	10th Floor Outside	900'L	3(19/15
B-Ar3	Exhaust	912L	3/19/15
Barine	Stairwell Between Floors 10+11	14412	3/19/15
Barile-2	Bottom of 10th Floor Stairs	144:2	3/19/15
Beirige 3	Clean Room Floor	1445n2	3/19/5
BSCOT 4	Exhaust	144:n2	/ //-
		,	
		· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·	
Comments/Spe	ecial Instructions:		

Page 2 of 2 pages

Controlled Document --- Lead (Pb) COC -- R6-- 6/12/2012

Page 2 Of 2





Attn: (b)(4) Phone: (504) 348-3098 Technical Environmental Service, Inc. Fax: (504) 348-3043 PO Box 1601 Received: 03/23/15 8:20 AM Marrero, LA 70073 Collected: 3/19/2015

Project: ENV-1150 15068

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration
BsAir1	251501649-0001	3/19/2015	3/23/2015	872 L	<4.6 µg/m³
	Site: Stairwell Be	tween Flr 10	& 11		
BsAir2	251501649-0002	3/19/2015	3/23/2015	900 L	<4.4 µg/m³
	Site: 10th Flr Out	side			
BsAir3	251501649-0003	3/19/2015	3/23/2015	912 L	<4.4 µg/m³
	Site: Exhaust				



or other approved signatory

*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter. ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m3. OSHA action level - 30 µg/m3. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those Items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/23/2015 14:46:23



(504



Attn:	(b)(4)	Phone:	(504) 348-3098
	Technical Environmental Service, Inc.	Fax:	(504) 348-3043
	PO Box 1601	Received:	03/23/15 8:20 AM
	Marrero, LA 70073	Collected:	3/19/2015

Project: ENV-1150 15068

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	<i>Concentration</i>
Pbwipe-1	251501649-000	04 3/19/2015	3/23/2015	144 in²	190 µg/ft²
	Site: Stairwell E	Between Flrs 1	0&11		
Pbwipe-2	251501649-000	05 3/19/2015	3/23/2015	144 in²	110 μg/ft²
	Site: Bottom of	10th Flr Stairs	;		
Pbwipe-3	251501649-000	06 3/19/2015	3/23/2015	144 in ²	300 µg/ft²
	Site: Clean Rm	Floor			
Pbwipe-4	251501649-000	07 3/19/2015	3/23/2015	144 in²	170 μg/ft²
	Site: Exhaust				



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/23/2015 14:46:23

Order	CID: 251501773	Lead (Pb) Cf EMSL Order	nain of r ID (Lab	Custody Use Only): 773 EMSL-Bill to: S If Bill to is Different note in bird Party Billing requires writted al Code:	1193) Ind Baton Rouge EMSL ANALYTI -200 ROUTE 13 GINNAMINSON, M PHONE: (800)2 FAX: (856) 7 Same Different structions in Comments** on authorization from third p Country:	LA 708 CAL, INC. 0710877 108077 20-3675 86-5974	i i
	Report To (Name (b		l elephor	10 #:			
	Project Name/Number: 1150	5018	Piease P	rovide Results: 🗍 Fax	Furchase Order	(u)	(4)
	U.S. State Samples Taken;	1-200	CT Samp	les: Commercial/Taxa	ble C Residential/Tax	Exempt	ł
	V	frnaround Time (TA	r) Option	s* - Please Check			
	3 Hour 6 Hour 12 524	Hour 48 Hour		2 Hour 96 Hour	1 Week	2 Week	
	Matrix	d in accordance with EMSI Method	<u>L'S Terms a</u>	Instrument	Reporting Limit	Check	
	Chips 1% by wt. amalcm ² ppm	SW846-7000B		Flame Atomic Absoration	0.01%		
	Air	NICEH 7092		Flame Atomic Absorption	A ug/filtor		l
¥0	· · · ·	NIOSH 7105		Graphite Furnace AA	0.03 un/filter		
	· · /	NIOSH 7300 modi	fied	ICP-AES/ICP-MS	0.5 µg/filter		
$\widehat{\mathcal{A}}$	Wipe* ASTM	SW846-7000B		Flame Atomic Absorption	10 µg/wipe		
P	поп ASTM 🔲 *If no box is checked, non-ASTM	SW846-6010B or	C	ICP-AES	1.0 µg/wipe		1
	Wipe Is assumed	SW846-7000B/7010 SW846-1311/7000B/SM 3111B SW846-1131/SW846-6010B or C SW846-7000B SW846-7010		Graphite Furnace AA	0.075 µg/wipe		J
	TCLP			Flame Atomic Absorption	0.4 mg/L (ppm)		
	Soil			Flame Atomic Absorption	40 ma/ka (nom)		
				Graphite Furnace AA	0.3 mg/kg (ppm)		
•		SW846-6010B or	с	ICP-AES	2 mg/kg (ppm)		
	Wastewater Unpreserved 🔲	SM31118/SW846-70 EPA 200.9	000B	Flame Atomic Absorption	0.4 mg/L (ppm)		
	Preserved with HNO ₃ pH < 2 \Box	EPA 200.7		ICP-AES	0.020 mg/L (ppm)	-8-1	
Ì	Drinking Water Unpreserved	EPA 200.9		Graphite Furnace AA	0.003 mg/L (ppm)		
ŀ	Preserved with HNO ₃ pH < 2 L	EPA 200.8		ICP-MS	0.001 mg/L (ppm)		
1	TSP/SPM Filter	40 CFR Part 50		Graphite Furnace AA	3.6 ug/filter		
Į	Other:	······································					
ſ	Name of Sampler:		Signat	ure of Sampler:			
	Sample # Location	n		Volume/Area	Date/Time S	ampled	
w	Ba-11 Exhanst			144:1-	3/24	<u>1:26</u>	m
	P-7 Stair Behr	centatil.		144:22	31211	1:461	m
w, f	Da-3 / Joan P	nom	1	14:2	Zhil	5.51	An
- ψ f	PL- Inai Di	DAN I	[411.2	2 Jour	7179	2
<i>w</i> -	Art Clean A		<u> </u>	1712		C. CH	A
νĻ	Alight Sample 300	07		MMIA Total # as Da	<u></u>	- <u>10</u>	"ኀ
⊢			T		111/103. + ++++ (C)		
┝	Relinquisned (Clie	Date:		Time:			
\downarrow	Received (Lab): (b)(4)	Date:	13/2	15 Time:	19:40 Ad		
	oonnigenta.						
	Control and Document - Lead (PD) COC - Rid 6/12/2012	Page 1 of 2	∑ pages				
		Page 1	Of	2		Rig	, Fedag

-

·	EMBL ANALYT LAIDAATORY-FACOR	LEAD (Pb) CHAIN OF EMSL ORDER ID (La)	F CUSTODY b Use Only): 1773	EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-5974
	Additional P	Pages of the Chain of Custody are only necessary if ne	eeded for additional sample info	prmation
	Sample #	Location	Volume/Area	Date/Time Sampled
ω	A-3	EXhaust	_ 14 9 in 2_	250 3/24
(B2 Air	1 Air Exhanst By	1018.81	4:19pm
)	Bz Arr.	2 Interface Bet. Leve 11	971.1L	4:37pm
russertes/	P2Air2	Outside South of Contain	nut 1081 L	5:10pm
	A Aicl	East Containment	1096 L	6:25pm
	A Air	West Containment	10904	625pm
l	AAIC	3 Near Dust Collector	1048.8L	637pm
				/ /
	Commente/Sr	eclat Instructions:		
	Commentaro			

Page _____ of ____ pages

Controlled Document --- Lead (Pb) COC = R6-- 6/12/2012

Page 2 Of 2



Phone: Fax:

EMSL Order: CustomerID: CustomerPO: ProjectID:

Attn:

Technical Environmental Service, Inc. PO Box 1601 Marrero, LA 70073

Received: Collected:

(504) 348-3098 (504) 348-3043 03/26/15 9:40 AM 3/24/2015

TECH55

Project: 1150 15068

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration
B2Air-1	251501773-000	7 3/24/2015	3/26/2015	1018.8 L	<3.9 µg/m³
	Site: Air Exhaus	st B2			
B2Air-2	251501773-000	8 3/24/2015	3/26/2015	971.1 L	<4.1 µg/m³
	Site: Interface E	Bet. Level 10 8	& 11		
B2Air3	251501773-000	9 3/24/2015	3/26/2015	1081 L	<3.7 µg/m³
	Site: Outside Se	outh of Cont.			
A1Air1	251501773-001	0 3/24/2015	3/26/2015	1096 L	<3.6 µg/m³
	Site: East Conta	ainment			
A1Air2	251501773-001	1 3/24/2015	3/26/2015	1090 L	<3.7 µg/m³
	Site: West Cont	tainment			
A1Air3	251501773-001	2 3/24/2015	3/26/2015	1048.8 L	<3.8 µg/m³
	Site: Near Dust	Collector			



Laboratory Manager or other approved signatory

*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m3. OSHA action level - 30 µg/m3. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those Items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/26/2015 16:21:31



EMSL Order: CustomerID: TECH55 CustomerPO: ProjectID:

Attn: Phone: (504) 348-3098 Fax: **Technical Environmental Service, Inc.** Received: **PO Box 1601**

Marrero, LA 70073

Collected:

(504) 348-3043 03/26/15 9:40 AM 3/24/2015

Project: 1150 15068

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
B2-1	251501773-0001	3/24/2015	3/26/2015	144 in²	290 µg/ft²
	Site: Exhaust				
B2-2	251501773-0002	3/24/2015	3/26/2015	144 in²	79 μg/ft²
	Site: Stairs Betwe	en 10 & 11			
B2-3	251501773-0003	3/24/2015	3/26/2015	144 in²	56 μg/ft²
	Site: Clean Room				
A1-1	251501773-0004	3/24/2015	3/26/2015	144 in²	100 μg/ft ²
	Site: Clean Room				
A1-2	251501773-0005	3/24/2015	3/26/2015	144 in²	4200 μg/ft ²
	Site: Rep Floor				
A1-3	251501773-0006	3/24/2015	3/26/2015	144 in²	29 µg/ft²
	Site: Exhaust				



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/tt2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/26/2015 16:21:31



Lead (Pb) Chain of Custody

2002

EMSL Order ID (Lab Use Only):

11931 Industriplex Blud Baton Rouge, LA 70809 Stelbe EMSL ANALYTICAL, INC. -200 ROUTE-130 NORTH CINNAMINGON, NJ 08077-PHONE: (800) 220-3675 FAX: (856) 786-5974

	** /**	-	EMS	L-Bill to:	ame Different	
Company: IES, Inc.			If Bill to i	s Different note inst	ructions in Comments*	**
Street: 5133 Taravella	a Rd.	Tł	ird Party Billin	g requires writter	authorization from	third party
City: Marrero State/Province: LA			al Code:	70072	Country:	U.S.
Report To (Nam		Telephor	ne #: 504-	348-300	58	
Email Address: (D)	(4)	Fax #:			Purchase (Order:
Project Name/Number: T.H. 1/5/	-15068	Please P	rovide Resu	lts	T Email	
II & State Semples Taken: 165		CT Same				litax Exampt
U.S. State Samples Taken: 2-15	Turnaround Time (T	AT) Ontion	s* - Please	Check		an sax Exempt
	24 Hour 48 Hou		2 Hour	96 Hour	1 Week	2 Week
*Analysis com	leted in accordance with EM	ISL's Terms a	nd Conditions	located in the Pri	ce Guide	
Matrix	Method		Instr	ument	Reporting Li	mit Check
Chips 🗍 % by wt. 🗌 mg/cm² 📋 pp	n SW846-7000)В	Flame Aton	nic Absorption	0.01%	
Air		2	Elame Aton	aic Absorption	4 ug/filter	
	NIOCH 740	د 	Crochit-			
S L	NIOSH 7300 mg	o dified		Furnace AA S/ICP-MS	0.03 µg/ille	·
14/1	SW846-7000	NB	Flame Aton	hic Absorption		
non ASTM	SW/846-6010P	аг С		-AES		
*if no box is checked, non-ASTM	SW/846-7000B/	7010	Craphite Europeo AA		0.075 un/win	
TOLD	SW/846-1311/7000B/	SW070-1003B11010		Elame Atomic Absorption		
ICEF	SW846-1131/SW846-	SW846-1131/SW846-6010B or C		ICP-AES		
Soil	SW846-7000	SW846-7000B		nic Absorption	40 ma/ka (ppr	n) []
	SW846-701	SW846-7010		Furnace AA	0.3 mg/kg (pp	m)
	SW846-6010B	or C	ICP	-AES	2 mg/kg (ppn	ו) 🗌
	SM3111B/SW846	SM3111B/SW846-7000B		tic Absorption	0.4 mg/L (ppr	n) []
Preserved with HNO ₃ pH < 2 \Box	EPA 200.9		Graphite Furnace AA		0.003 mg/L (pp	<u>) []</u>
	EPA 200.7	EPA 200.7		Craphite Euroape AA		
Broson and with HNO pl < 2	EPA 200.9		Graphite Furnace AA		0.003 mg/L (pp	$\frac{m}{m}$
	40 CER Part	50	ICP-MS		12 ug/filter	
TSP/SPM Filter	40 CFR Part	50	Graphite Furnace AA		3.6 µg/filter	
Other:					X	
Name of Sampler: (b)(4)	Signa	ture of San	npler:	(b)(4)	
Sample # Loc	ation	T	Volume	/Area	Date/Ti	me Sampled
140215-AIR-1 B-Stand Interior	- 11 handin Tutotan	7	81.65	2	oforle	5 9:00
11 -11-2 B. Stand Exterior -12 landin		7	7A.62	52	<u>'ı</u>	
11-11-3 B-Stand Enterior-Noile by exhaust			760.0	L	<u>`ı</u>	
1. 11- 4 Al Stand Estarior- 2-NESSle-Necturt		-	748.0	12	· ,	
11-11-5 Al-Stand Exterior.	5-starcese	<u> </u>	745.0	2	١٠	
Client Sample #'s			L	Total # of Sa	mples: <u> </u>	Ś
Relinquished (Client):	Date:	04/0	2/15	Time:	7:0	,o
Received (Lab):	Date:	4/3	115	Time:	10:00	an

Controlled Document — Lead (Pb) COC - R6- 6/12/2012

Page 1 of <u>></u> pages

Reg. FedEx



Lead (Pb) Chain of Custody

11931 Industriplex Blud Boton Rouge, LA 70809 Stel00 EMSL ANALYTICAL, INC. -200 ROUTE 130 NORTH S CINNAMINSON, NJ 08077-PHONE. (800) 220-3675 FAX: (856) 786-5974

	Lead (Pb) Cl	hain of Custo	dy	/ EMSLANA	LYTICAL, INC.
EMSL	EMSL Order	r ID (Lab Use Only):		- CINNAMING	
—		21	22	PHONE, (80	00) 220-3675
EMSL ANALYTICAL, INC.		/t	il d	FAX: (8	56) 786-5974
				<u> </u>	
COMPANY: TES TOC.		EM If Bill to	SL-Bill to:	ame 📋 Different	**
Straty E133 TA CAURILA	Rd.	Third Cost - Dil			Ato front an a set of
City: AACCAT State	Province: 1 A	Third Party Bill		Country:	() S
Descert To (Mar		Zipreustal code.	1 249-1	1 00 unity.	
(b)	4) –	Telephone #: 50	1-540		
Email Address		Fax #:		Parchase C	Order:
Project Name/Number: //SO-	13068	Please Provide Res	ults: _ Fax	Email	
U.S. State Samples Taken: 135		CT Samples: Co	mmercial/Taxal	ble 🛄 Residentia	al/Tax Exempt
		(1) Options [*] - Pleas			
Anolygia complete		L's Terms and Condition			
Matrix	Method		trument	Reporting Li	mit Check
Chins We by wt I ma/cm ² I ppm	SW/846 700/0			0.01%	75-
entre C way we L indiciti (1 bbui	30040-70000			0.0170	
Air	NIOSH 7082	Flame At	omic Absorption	4 µg/filter	
	NIOSH 7105	Graphit	e Furnace AA	0.03 µg/filte	<u>r []</u>
×7	NIOSH 7300 mod	Inted ICP-A	ES/ICP-MS	U.5 µg/tiltei	·
Wipe* ASTM	SW846-7000E	3 Flame Atr	omic Absorption	10 µg/wipe	
non ASTM	SW846-6010B o	or C IC	CP-AES	<u>1.0 μg/wipe</u>	
Wipe is assumed	SW846-7000B/7	010 Graphit	e Fumace AA	0.075 µg/wip	
TCLP	SW846-1311/7000B/S	M 3111B Flame At	omic Absorption	0.4 mg/L (pp	<u>m) </u>
	SW846-1131/SW846-6	010B or C K	2P-AES	0.1 mg/L (ppi	<u></u>
Soil	SW846-7000E	B Flame Ate	omic Absorption	40 mg/kg (pp)	<u>m) []</u>
	SW846-6010B 0	r C IC	P-AFS	$\frac{0.3 \text{ mg/kg}}{2 \text{ mg/kg}}$	$\frac{11}{n}$
	SM3111B/SW846-7	7000B Flame Ate	omic Absorption	0.4 mg/L (pp)	$\frac{m}{m}$
Wastewater Unpreserved	EPA 200.9	Graphit	e Furnace AA	0.003 mg/L (p	pm)
	EPA 200 7	ICP-AES		0.020 mg/L (p	pm) 🗌
Drinking Water Unpreserved	EPA 200.9	Graphit	e Furnace AA	0.003 mg/L (pp	<u>)</u>
Preserved with HNO ₃ pH < 2 \square	EPA 200.8		CP-MS	0.001 mg/L (pp	<u>) []</u>
TSP/SPM Filter	40 CFR Part 5		CP-AES	12 µg/filter	
Othory	40 CFR Part 5	Graphic		3.6 µg/iiter	━╋╤
	<u></u>			(b)(4)	
Name of Sampler: (D)(4		Signature of Sa	ampier:		ime Samaled
Sample # Locat		Volui		Dateri	
040215-A.R-6 AL-Stand Extension-WS.	Je-5- Scowhonard	- 122	UL	04/02	115
MORTS-BULK- J At-Stand Exterior 5	-base & stars				
AISI IC+C	1081	(s' s')	144.2		
MOUS WIRE MITACHA CXITS-C	Haut m 1000	(10×10)	<u>/ () /m</u>	 `	
11-11-2 11 11 -5-las	estata: 15 minut	<i>ìl</i>		``	
11-11-3 " -4-71	Eside	(10"-145")	145:2	•.	
Client Sample #'s			Total # of S	amples:	5
		a la lis			00
	Date:	04/02113			<u> </u>
Keiniquisited (Olient). (b)	(4)	1 1 1 - 1 1 -	, l		<u>~</u>
Received (Lab): (b)	(4) Date:	4/3/15	Time:	10:0	Dam

Controlled Document — Lead (Ph) COC - R6- 6/12/2012

2 Page / of _____ pages

Req. Fed Ex

SorGLr

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2002

11931 Industrip)ex Blud Baton Rouge, LA 70809 Steloc EMSL ANALYTICAL, INC. -200 ROUTE 430 NORTH CINNAMINSON, NJ 08077-PHONE: (800) 220-3675 FAX: (856) 786-5974

EMSL ANALYTICAL	INC.
LANCESTORY- INCOMETTE - TH	4114047

ME

Company: TES, Inc.			EMSL-Bill to: Same Different					
Street: 5133 TACAVELLA Rd.				ird Party Billing r	aquires writte	n authori	stion from third a	artu
City: AAAECEED	State	Province: 1 A	7in/Posta	al Code: 7/	2072	C	ountry I)	<u>any</u>
Banart Ta (Nama)	(b)(4)		Tolophon	+ SOV-	242-	305	<u> </u>	<u> </u>
	$\frac{(D)(4)}{(b)(4)}$		Telepitol	10#, <u>)</u> -1	110	<u></u>		
Email Address:			Fax #:				urchase Order	
Project Name/Number: $DH 1150-15068$			Please Pl	rovide Results		LYEM	all	
U.S. State Samples Taken:	<u></u>		CT Samp	les: Comm	ercial/Taxa	ble 📋 l	Residential/Tax	Exempt
		Irnaround Time (TA	T) Option	s* - Please C	heck	<u> </u>	<u></u>	
Hour Hour		Hour 1 48 Hour		2 Hour	96 Hour		Week	2 Week
Matrix	sis complete	d in accordance with ENS	scs renns al	and Conditions located in the P		Departing Limit		Check
China China China China	[]]	Miethod						Crieci
	ppm	SW846-7000E	3	Flame Atomic	Absorption	L	0.01%	
Air		NIOSH 7082		Flame Atomic Absorption		4 µg/filter		
C.	\frown	NIOSH 7105		Graphite Furnace AA		0.0)3 µg/filter	
(2xe)		NIOSH 7300 modified		ICP-AES/I	CP-MS	0.	5 µg/filter	
Wipe* ASTM		SW846-7000B		Flame Atomic	Absorption	10) µg/wipe	
non ASTM		SW846-6010B o	or C	ICP-AES		1.0 µg/wipe		
		SW846-7000B/7010		Graphite Furnace AA		0.075 ug/wipe		[[]
TCI P		SW846-1311/7000B/S	M 3111B	Flame Atomic Absorption		0.4 mg/l (ppm)		
	SW846-1131/SW84		3010B or C ICP-AES		0.1 mg/L (ppm)			
Soil		SW846-7000B		Flame Atomic Absorption		40 mg/kg (ppm)		
		SW846-7010		Graphite Furnace AA		0.3 mg/kg (ppm)		
		SW846-6010B or C		ICP-AES		2 m	g/kg (ppm)	
Wastewater Unpreserved Preserved with HNO ₃ pH < 2		SM3111B/SW846-7000B		Flame Atomic Absorption		0.4 r	ng/L (ppm)	
		EPA 200.9		Graphite Furnace AA		0.003	mg/L (ppm)	
		EPA 200.7		IUP-AES		0.020	mg/L (ppm)	
Drinking Water Unpreserved [] Preserved with HNO3 pH < 2		EPA 200.9		Graphite Furnace AA			mg/L(ppm)	
		EPA 200.8				12	ug/E (ppin)	
		40 CFR Part 50		Graphite Furnace AA		36	5 µg/filter	
Other:							p.g	<u> </u>
Name of Sampler	(b)(<i>A</i>)	Signal	ture of Samn				
Sample #	+)(U) Locati	/	Loigha	Volume/A	roa		Date/Time S	ampled
040215-Wind 4/ Al-low	Locality	EST-NE de- NI	where t	- (n"n)	/44	2	an/02/15	umpiou
111-5 B.Stand	bon IF	hor Est -Nos le-Co	ha sat necete	p	· .			
11 11-6 Bistanda	Enterine -	13-Clean Room		1	· · ·	-	t •	
11 11 -7 15 Stanl I	nteris (-	11 Mid Landing		• .	1-		1	
" " -8 Ailstand -	State	ar Ileand	t to branch .	= ((x24')) ''		<u>``</u>	
Client Sample #'s				To	otal # of Sa	mples:	5	
Relinquished (Client):		Date:	07/0	2/5	Time:		17:00	
	Received (Lab):						* .	

Controlled Document --- Lead (Pb) COC - R6-- 6/12/2012

Page / of _____ pages

Page 3 Of 3



Phone: Fax: Received: EMSL Order: CustomerID: CustomerPO: ProjectID:

TECH55

Attn:

Technical Environmental Service, Inc. **PO Box 1601** Marrero, LA 70073

Collected:

(504) 348-3098 (504) 348-3043 04/03/15 10:00 AM

Project: IH 1150-15068

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lah ID	Collected	Anaburad	Volume	Lead Concentration	
Cuent Sample Description	Lub ID	Conecieu	Апшулеи	volume	Concentitution	
040215-Air-1	251502002-000)1	4/3/2015	781.65 L	<5.1 µg/m³	
	Site: B-Stand In	nt-11Landing				
040215-Air-2	251502002-000	2	4/3/2015	779.625 L	<5.1 µg/m³	
	Site: B-Stand E	xt-12Landing				
040215-Air-3	251502002-000	3	4/3/2015	760 L	<5.3 µg/m³	
	Site: B-Stand E	xt- Exhaust				
040215-Air-4	251502002-000)4	4/3/2015	748 L	<5.3 µg/m³	
	Site: A1-Stand	Ext-1NE Side	Exhaust			
040215-Air-5	251502002-000	5	4/3/2015	742 L	<5.4 µg/m³	
	Site: A1-Stand Ext-S Staircase					
040215-Air-6	251502002-000	6	4/3/2015	722 L	<5.5 µg/m³	
	Site: A1-Stand					



Laboratory Manager or other approved signatory

*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m3. OSHA action level - 30 µg/m3. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those Items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/03/2015 15:01:05



Project: IH 1150-15068

CustomerID: CustomerPO: ProjectID:

EMSL Order:

Attn:

Technical Environmental Service, Inc. PO Box 1601 Marrero, LA 70073 Fax: Received: Collected:

Phone:

(504) 348-3098 (504) 348-3043 04/03/15 10:00 AM

¹⁵⁰⁻¹⁵⁰⁶⁸ Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description Lab ID Collected Analyzed Lead 040215-Bulk-1 251502002-0007 4/3/2015 0.046 % wt Site: A1-Stand Ext5-base of stairs Site: A1-Stand Ext5-base of stairs 0.046 % wt



or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. 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. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/03/2015 15:01:05


Project: IH 1150-15068

EMSL Order: CustomerID: CustomerPO:

ProjectID:

TECH55

Attn:

Technical Environmental Service, Inc. **PO Box 1601** Marrero, LA 70073

Phone: Fax: Received: Collected: (504) 348-3098 (504) 348-3043 04/03/15 10:00 AM

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Concentration
040215-Wipe-1	251502002-0008		4/3/2015	144 in²	310 µg/ft²
	Site: A1-Stand E	xt-5-CleanR	m Floor		
040215-Wipe-2	251502002-0009		4/3/2015	144 in²	560 µg/ft²
	Site: A1-Stand E	xt-5-base st	airs		
040215-Wipe-3	251502002-0010		4/3/2015	145 in ²	380 µg/ft ²
	Site: A1-Stand E	xt-4-Ibeam E	Iside		
040215-Wipe-4	251502002-0011		4/3/2015	144 in²	<10 µg/ft²
	Site: 4/A1-Groun	d Floor Ext-l			
040215-Wipe-5	251502002-0012		4/3/2015	144 in²	360 µg/ft ²
	Site: B-Stand Gro	ound Floor E			
040215-Wipe-6	251502002-0013		4/3/2015	144 in²	14 µg/ft²
	Site: B-Stand Int-	13-CleanRr			
040215-Wipe-7	251502002-0014		4/3/2015	144 in ²	<10 µg/ft²
	Site: B-Stand Int-	11-Mid Lan	b		
040215-Wipe-8	251502002-0015		4/3/2015	144 in ²	170 µg/ft ²
	Site: A1-Stand-5-	Ext Ibeam			



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/tt2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/lt² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/03/2015 15:01:05

OrderID: 251502106

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2106

EMSL ANALYTICAL, INC.

EMSL

1193) Industriplex Blvd. Baton Rouge LA 70809 EMSL ANALYTICAL, INC. -200 ROUTE 130 NORTH GINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-5974

	Company: TES		EMSL-Bill to: Same Different				
	Street: 5132 TACAVELLA	Rd					
	City: Macroso State	/Province: / A	Zin/Postal Code: 2002 Country Country				
	Report To (Name		Tolonho	no # 5-24 348 300	(2) $(b)(4)$	· • • • •	
	Emeil Addusses (b			110 #. 307 - 372 - 304			
	Email Address:	15019	rax #:		Purchase Order	·····	
	Project Name/Number: 1H 1130-	12060	Please P	rovide Results: [] Fax			
	U.S. State Samples Taken: 797>		CT Sam	oles: 📋 Commercial/Taxa	ble 🔄 Residential/Tax	c Exempt	
				1s* - Please Check		10111	
	*Analysis complete	ted in accordance with EMS		Z HOUR Up 90 HOUR		2 Week	
	, Matrix	Method	20 10///10 0	Instrument	Reporting Limit	Check	
	Chips 🛃 by wt. 🗌 mg/cm² 📋 ppm	SW846-7000E	3	Flame Atomic Absorption	0.01%		
$\widehat{\boldsymbol{\omega}}$	Air	NIOSH 7082		Flame Atomic Absorption	4 µg/filter		
C.	L	NIOSH 7105		Graphite Furnace AA	0.03 µa/filter		
		NIOSH 7300 mod	lified	ICP-AES/ICP-MS	0.5 µg/filter		
	Wipe* ASTM	SW846-7000E	3	Flame Atomic Absorption	10 µg/wipe	U	
C all	non ASTM	SW846-6010B o	r C	ICP-AES	1.0 µg/wipe		
	Wipe is assumed	SW846-7000B/7	010	Graphite Furnace AA	0.075 µg/wipe		
	TCLP	SW846-1311/7000B/S	M 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)		
		SW846-1131/SW846-6	010B or C	ICP-AES	0.1 mg/L (ppm)		
	Soil	SW846-7000B		Flame Atomic Absorption	40 mg/kg (ppm)		
		SW846-7010	SW846-7010		0.3 mg/kg (ppm)		
ŀ		SW846-6010B 0		ICP-AES	2 mg/kg (ppm)	<u> </u>	
	Wastewater Unpreserved	5M3111B/SW846-7	0008	Flame Atomic Absorption	0.4 mg/L (ppm)		
	Preserved with HNO ₃ pH < 2 \Box	EPA 200.7		ICP-AES	0.003 mg/L (ppm)		
ŀ	Drinking Water Unpreserved	EPA 200.9		Graphite Furnace AA	0.003 mg/L (ppm)		
	Preserved with HNO ₃ pH < 2 \Box	EPA 200.8		ICP-MS	0.001 mg/L (ppm)		
ſ	TSD/SDM Filter	40 CFR Part 50)	ICP-AES	12 µg/filter		
Ļ		40 CFR Part 50)	Graphite Furnace AA	3.6 µg/filter		
	Other:						
	Name of Sampler: (b)(4)		Signa	ture of Sampler:	(b)(4)		
	Sample # Locat	ion		Volume/Area	Date/Time S	ampled	
k	040715-Anz-@ B-crhx	ist of dust coll	nor	888 L	01/07	115	
	11 - ANCO Brintert	« 10/11		837.42			
	" - Arc (3) B-outrie	10 Scontana	-	\$78 L			
	" - ARR (4) Al - 14	dust astlector	/	838 L			
Γ	" - A12-(5) Al-outs:	le Econterra	, +	8346			
	Client Sample #'s	· · · · ·		Total # of Sa	imples: /3		
Ľ	Relinquished (Client):	Date:	04/	Time:	17:00	د	
	Received (Lab):	-+) Date:	HI	18/15 Time:	9:45 am		
	Comments:	Duto	/ /		/ /	-	

Controlled Document --- Lead (Pb) COC - R6-- 6/12/2012

7 airs 6 wipes

Page 1 of _____ pages

Rig. Filip

EMSL

LEAD (Pb) CHAIN OF CUSTODY EMSL ORDER ID (Lab Use Only):

2106

EMSI, ANALYTICAL, INC.

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
040715-1	AIR-6 Al-outside Wountaine	+ 838.352	oylorlis
040715-A	112-BLANK		f
040715-	NRE-OAL-orbide dust collar	pr 144 m	
··· -v	SIPE @ Al-representative floor	ebs 144 :22	
· · - h	OIRE-BAI-clean room	terrs 144 sm2	
<u>ιι</u> -ω	IPE-9 B-intorface 10/11	144 m2	
11 -W	RE (5) B-ostide nardista	11rdur 144 in 2	
· · - Wi	PU-BLANK		
		· · · · · · · · · · · · · · · · · · ·	
Comments/Sp	ecial Instructions:		

Page _____ of ____ pages

Controlled Document --- Lead (Pb) COC -- R6-- 6/12/2012

Page 2 Of 2



batonrougelab@emsl.com

EMSL Order: CustomerID: TECH55 CustomerPO: ProjectID:

Attn:

Technical Environmental Service, Inc. **PO Box 1601** Marrero, LA 70073

Fax: Received: Collected:

Phone:

(504) 348-3098 (504) 348-3043 04/08/15 9:45 AM 4/7/2015

Project: IH 1150-15068

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID Collected	Analyzed	Volume	Concentration
040715-AIR-1	251502106-0001 4/7/2015	4/8/2015	888 L	<4.5 µg/m³
	Site: B-exhaust of dust colle	ctor		
040715-AIR-2	251502106-0002 4/7/2015	4/8/2015	837.4 L	<4.8 µg/m³
	Site: B-interface 10/11			
040715-AIR-3	251502106-0003 4/7/2015	4/8/2015	878 L	<4.6 µg/m³
	Site: B-outside S containmer	nt		
040715-AIR-4	251502106-0004 4/7/2015	4/8/2015	838 L	<4.8 µg/m³
	Site: A1-near dust collector			
040715-AIR-5	251502106-0005 4/7/2015	4/8/2015	834 L	<4.8 µg/m³
	Site: A1-outside E containme	ent		
040715-AIRr-6	251502106-0006 4/7/2015	4/8/2015	838.35 L	<4.8 µg/m³
	Site: A1-outside W containm	ient		
040715-Air-BLANK	251502106-0007 4/7/2015	4/8/2015	n/a	<4.0 μg/filter
	Site: Blank			



Laboratory Manager or other approved signatory

*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m3. OSHA action level - 30 µg/m3. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those Items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/09/2015 08:14:50



Technical Environmental Service, Inc.

Phone: Fax:

EMSL Order: CustomerID: CustomerPO:

TECH55

ProjectID:

Received: Collected:

(504) 348-3098 (504) 348-3043 04/08/15 9:45 AM 4/7/2015

PO Box 1601 Marrero, LA 70073

Attn:

Project: IH 1150-15068

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
040715-WIPE-1	251502106-000	8 4/7/2015	4/8/2015	144 in ²	20 µg/ft²
	Site: A1-outside	e dust collecto	or		
040715-WIPE-2	251502106-000	9 4/7/2015	4/8/2015	144 in²	470 μg/ft²
	Site: A1-repres	entative floor	below stairs		
040715-WIPE-3	251502106-001	0 4/7/2015	4/8/2015	144 in²	1300 µg/ft²
	Site: A1-clean r	room			
040715-WIPE-4	251502106-001	1 4/7/2015	4/8/2015	144 in²	<10 µg/ft²
	Site: B-interface	e 10/11			
040715-WIPE-5	251502106-001	2 4/7/2015	4/8/2015	144 in²	300 µg/ft²
	Site: B-outside	outside near (dust collector		
040715-WIPE-BLANK	251502106-001	3 4/7/2015	4/8/2015	n/a	<10 µg/wipe
	Site: Blank				



Laboratory Manager or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/tt2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/09/2015 08:14:50



Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

201507917

Baton Rouge, LA 70809				
PHONE	(225) 755-1920			
FAX:	(225) 755-1989			

Company - Ja	acobs (Stennis Sp	bace Cei	nter)		EMSL-Bil K Billto & Diffe	l to: ∐ Sa regt note inst	ame [/	Different	
Street Building 1100 Suite 213G				Third Costs Cilling requires written outboring the free third parts					
City Stennis \$	Space Center	State/P	rovince MS	Zip/Postal Code 39529 Country: United States					
Report To (Na	(b)(4)			Telephor	1e # (b)(4)				
Email Addres	s. (b))(4)		Fax # 2	28-688-3368		P	urchase Order	(b)(4)
Project Name		015		Please P	rovide Results	Fax		a[]	
U.S. State Sar	mples Taken [,] MS			CT Samp	les• 📋 Commer	cial/Taxat		Residential/Tax	Exempt
		Τι	Irnaround Time (TA	T) Option	s* - Please Che	eck			
3 Hour	6 Hour	24	Hour 🛛 🗂 48 Hour	r □7;	2 Kour 🔲 9	6 Hour		l Week 🛛 🗌	2 Week
	"Analysis	: complete	d in accordance with EMS	SL's Terms a	nd Conditions locale	ed in the Pr	ice Guid	e e-tur - Lumut	Check
						411L	кер		Слеск
	A ar [] mâirm [_]bhau	574840-70008		Fiame Atomic At	samion		0.01%	
Air			NIOSH 7082		Flame Atomic At	sorption	4	4 µg/filter	
			NIOSH 7105		Graphite Furna	ice AA	0.0	03 µg/filter	
Wine	MET 2 A		NIUSH 7300 moo		IGP-AES/IGF	4MS	U.	.5 µg/mter	
*If no how in	non ASTM	Ē	SW846 70008	8	Flame Atomic At	sorption	1.	0 µg/wipe	
	Wipe is assumed		\$W846-6010B o	лС	ICP-AES		1.	0 µg/wipe	
TCLP			SW846-1311/7000B/S	M 3111B	Flame Atomic At	sorption	0.4	mg/L (ppm)	
Soft			500845-1131/500846-6	UTUB of C	ICP-AES	j	0.1	mg/L (ppm)	
301			SW846-70008	3	Flame Atomic At	sorption	40 n	ng/kg (ppm)	
			SW846-6010B o	ыrС.	ICP-AES	\$	2 m	ig/kg (ppm)	
Wastewater	Unpreserved		EPA 200.9		Fiame Atomic At	sorption	0.4	mg/L (ppm)	-님-
Preserved wi	ith HNO₃pH < 2		EPA 200.9		ICP-AES		0.000 mg/L (ppm)		
Drinking Wat	ter Unpreserved		EPA 200.9		Graphite Furnace AA		0.00	3 mg/L (ppm)	
Preserved w	ith HNÔ₃pH < 2		EPA 200.8		ICP-MS		0.001 mg/L (ppm)		
TSP/SPM Filt	ter		40 CFR Part 50 (2	2013) ICP-MS 1.2 µg/filter					
Other.									
Name of San	npter (b)(4))		Signa	ture of Sample	:r			
Sample #		Locatio	on .	Volume/Area			Date/Time S	Sampled	
Air-001	18th floor sof	tcore a	it blast level	903 Liters				7/2/2015	
Air-002	Blank			N/A 7/2/2015					
Wipe-001	Outside clean room, level 13			1 square foot 7/2/2015					
Wipe-002	Equipment room floor, level 13			1 square foot 7/			7/2/2015		
Wipe-003 Blank			N/A				7/2/2015		
Cilent Samp	le#'s A7001	- 1	nc -007		Tota	al # of Sa	mples	5	
Relinguished	d (Client).			7/6	//5	Time.		1.00pm	
Roceived (Lab	ı).))(4)	7/2	ix	Time		1251	71×
Comments					-				"
Bill to Debtie Holler	r, deborah a holler@nasa.go	v, Quilding 11	00, Reom 1017C, Stennis Space (Center, MS 3952	9. 228-588-2141				

Controlled December - Land (Pb) COC - 89- 34(2015

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Page 1 of 1 pages



Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	a Lab ID C	Collected	Analyzed	Volume	Lead Concentration
Air-001	201507917-0001 7/	/2/2015	7/8/2015	903 L	<4.4 µg/m³
	Site: 18th Floor So	oftcore at E	Blast Level		
Air-002	201507917-0002 7	/2/2015	7/8/2015	n/a	<4.0 μg/filter
	Site: Blank				



*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those Items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 07/08/2015 10:32:39



Client Sample Desc	c ription Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
Wipe-001	201507917-0003	7/2/2015	7/7/2015	144 in²	23 µg/ft²
	Site: Outside Cle	an Room, I	Level 13		
Wipe-002	201507917-0004	7/2/2015	7/7/2015	144 in ²	28 µg/ft²
	Site: Equipment I	Room Floo	r, Level 13		
Wipe-003	201507917-0005	7/2/2015	7/7/2015	n/a	<10 µg/wipe
	Site: Blank				



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 07/08/2015 10:32:39

OrderID: 251501253

Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only).

1253

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-5974

•
EMEL ANALYTICAL, INC.
LABORATORY + PRODUCTS - TRAINING

EMS

Company, Jacobs 1	FOSC G	roui		EMSL-E	Bill to: 🛛 Sa		·
Street Rhildigs 1/40	- <u>-</u>	7/26	-		rrerent note insi	ructions in Comments	
City: Waydood	State/E	CIJU Dravinca: MC	7in/Poeta	ira Party Billing re	rz G	Country 14 C	aπy A
Day to VI all	j State/F				(b)(4)	Country: Mar	7~
Report To (Name			l elepnon				(1.) (
Email Address:			Fax#: 2	- 68 - 688	-6 436	Purchase Order)(d)
Project Name/Number: B7	2 - Surv-	01	Please Pl	rovide Results	: 🗌 Fax	4Email PL	ነ
U.S. State Samples Taken:	U.S. State Samples Taken: MS					ole 🔲 Residential/Tax	(Exempt
		Irnaround Time (TA	T) Option	s* - Please C	heck		
∐/3 Hour ☐ 6 Hou	r 24	Hour 48 Hour	r [] 72		96 Hour		2 Week
"Ana Matrix	alysis complete	d in accordance with Ewis	sL's remis a	na Conditions loc	ated in the Pr	Reporting Limit	Chec
			n		Absorption		
		577840-7000	В	Flame Atomic	Absorption	0.01%	
Air		NIOSH 7082		Flame Atomic	Absorption	4 µg/filter	
		NIOSH 7105		Graphite Fui	mace AA	0.03 µg/filter	
		NIOSH 7300 mod	dified	ICP-AES/I	CP-MS	0 5 µg/filter	$\vdash \amalg$
Wipe* AS	тм	SW846-7000	B	Flame Atomic	Absorption	10 µg/wipe	
non AS *if no box is checked, non-AS	ТМІ 🛄 БТМ	SW846-6010B (or C	ICP-A	ES	1.0 µg/wipe	
Wipe is assur	ned	SW846-7000B/7	010	Graphite Fu	mace AA	0.075 µg/wipe	
TCLP		SW846-1311/7000B/S	SM 3111B	Flame Atomic	Absorption	0 4 mg/L (ppm)	
		SW846-1131/SW846-6	6010B or C	ICP-A	ES	0.1 mg/L (ppm)	
Soil		SW846-7000	В	Flame Atomic	Absorption	40 mg/kg (ppm)	
		SW846-7010)	Graphite Fu	rnace AA	0.3 mg/kg (ppm)	<u> </u>
		SW846-6010B (Absention		┝─┝╡
Wastewater Unpreserv	ed 🗌	EPA 200.9	/0008	Graphite Eu	mace AA	0.4 mg/L (ppm)	╏┝╡
Preserved with HNO ₃ pH ·	< 2	EPA 200 7		ICP-A	ES	0.020 mg/L (ppm)	┝╌┝┥
Drinking Water Unpreserv	/ed 🗌	EPA 200 9		Graphite Fu	rnace AA	0 003 mg/L (ppm)	
Preserved with HNO3 pH	< 2	EPA 200 8		ICP-N	IS	0.001 mg/L (ppm)	
TSD/SDM Filter		40 CFR Part 5	50	ICP-A	ES	12 µg/filter	
		40 CFR Part 5	50	Graphite Fu	rnace AA	3 6 µg/filter	
Other:					_		
Name of Sampler:			Signa	ture of Samp	lei	<u>(b)(4)</u>	
Sample #	Locati	on		Volume/A	rea	Date/Time S	Sample
3316-001 Landing 6.	ctween le	nd 10-11 stairwell		1 sq t+		3/4/15	
2415-002 0 1010	and dest	+ collectors				214/15	
ADT DURSIDE 1		0 51				715/15	
UUS BZ Jevel	<u>'s clea</u>	n RM Floor				3/3/13	
006 Blank				NA		5/5/15	
001 D West P	icr stai	y grey on orange		NIA		315/15	
Client Sample #'s	-			T	otal # of Sa	amples: 12	
			764		T ime of	10:45	
Relinquished (Client):		Date	א//ב/נ		Ime:	(*** L 2	
Relinquished (Client):		Date:		<u> </u>			

Controlled Document --- Lead (Pb) COC - R6- 6/12/2012

Page 1 of _____ pages

Couries

EMS

EMBL ANALYTICAL, INC.

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

1253

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE (800) 220-3675 FAX⁻ (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Sample #	Location	Volume/Area	Date/Time Sampled
chip	002	Gray LOC clamp Greyon yellow or orange	Dr.	3/5/15
chip	003	B2 level 11, Soft Core Int. Siding gray	spartles	315/15
Chip	007	B 9101 support column	·	3/4/15
	A:r-001	Southside of containment level 11 BZ	863.1 L	3/4/15 411min
	A:r-002	B2 Intertace between 10-11	802 L	3/4/15 397min
	A:r-003	B2 ground Northside near dust collector	786 L	3/4/15 393min
	Air-Blank	Blank	NIA	NIA
		-		
	·			
			<u> </u>	
_	Comments/Sr	pecial Instructions:		
(F)	EMail ves	ults to (b)(4)	
				-

Page ______ of ___ pages

Controlled Document --- Lead (Pb) COC - R6- 6/12/2012



Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration
Air-001	251501253-000	9 3/4/2015	3/5/2015	863.1 L	<4.6 µg/m³
	Site: S side of c	ontainment le	evel II B2		
Air-002	251501253-001	0 3/4/2015	3/5/2015	802 L	<5.0 µg/m³
	Site: B2 Interfac	ce between 1	0-11		
Air-003	251501253-001	1 3/4/2015	3/5/2015	786 L	<5.1 µg/m³
	Site: B2 ground	N side near			
Air-Blank	251501253-001	2 3/4/2015	3/5/2015	n/a	<4.0 µg/filter
	Site: Blank				



or other approved signatory

*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter. ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those tems tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:55:03



Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Lead Concentration
001	251501253-000	05 3/4/2015	3/5/2015	21 % wt
	Site: On W Pie	r stair		
002	251501253-000	06 3/4/2015	3/5/2015	7.0 % wt
	Site: Gray LOC	clamp		
003	251501253-000	07 3/4/2015	3/5/2015	0.17 % wt
	Site: B2 level II	, Soft Cove Int	-	
007 **	251501253-000	08 3/4/2015	3/5/2015	0.14 % wt
	Site: B9101 su ** Data reporte insufficient san Suggested v	pport column d may not read nple weight su veight for anal	h applicable a bmitted. /sis is 0.2g.	lytical sensitivity due to



*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. 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. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:55:03



Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
3316-001	251501253-000	1 3/4/2015	3/5/2015	144 in²	1500 µg/ft²
	Site: Landing be				
3415-002	251501253-000	2 3/4/2015	3/5/2015	144 in²	240 µg/ft ²
	Site: Outside ne	ar dust colle	ctors		
005	251501253-000	3 3/4/2015	3/5/2015	144 in ²	210 µg/ft ²
	Site: B2 level 13	, clean RM F			
006	251501253-000	4 3/4/2015	3/5/2015	n/a	<10 µg/wipe
	Site: Blank				



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/05/2015 16:55:03

		Lead (Pb) Cl EMSL Orde	hain of r ID (Lab (1	EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675				
	EMSL ANALYTICAL, INC.		1500				FAX: (856) 786-5974		
_	company: Jacobs Technole	ху		EMSL-BIII If Bill to is Differ	to: 🛄 Sa ent note ins	ame Different tructions in Comments**			
Q_{1}	street: Building 1100 Rr	\$1'213	Th	Ird Party Billing requ	ires writter	n authonzation from third p	arty		
Naneta	Report To (Name):	Province: N 5	Zip/Posta		<u> 19</u> (b)(4)	Country:	5 <u>A</u>		
	Email Address	(4)	Fax #	<u> </u>	<u>D)(4)</u>	Purchase Order	(b)(4)		
	Project Name/Numper: (05 5	4	Please Pl	ovide Results:	Fax	E Email			
	U.S. State Samples Taken	hill a 12 A an	CT Samp	les: 🗌 Commerc	ial/Taxal	ble 🔲 Residential/Tax	Exempt		
\mathbf{G}	(b)(4)	urnaround Time (TA	T) Option	s* - Please Che	ck	1			
(ge		4 Hour 48 Hour		2 Hour 96	Hour	1 Week	2 Week		
	Analysis complet	Method	SL'S Terms a	Instrume	a in the Pr nt	Reporting Limit	Check		
	Chips 🗌 % by wt. 🗋 mg/cm² 📋 ppm	SW846-7000	в	Flame Atomic Ab	sorption	0.01%			
	Air	NIOSH 7082	•	Flame Atomic Ab	somtion	4 ug/filter			
		NIOSH 7105		Graphite Furna	ce AA	0.03 µg/filter			
		NIOSH 7300 mod	dified	ICP-AES/ICP-MS		0.5 µg/filter			
(YB	Wipe* ASTM	SW846-7000	в	Flame Atomic Ab	sorption	10 μg/wipe	V		
\smile	*if no box is checked, non-ASTM	SW846-6010B c	or C	ICP-AES		1.0 μg/wipe			
	TCLP	SW846-1311/7000B/S	SM 3111B	Flame Atomic Ab	sorption	0.4 mg/L (ppm)			
	A - 11	SW846-1131/SW846-6	010B or C	ICP-AES		0.1 mg/L (ppm)			
	501	SW846-7000	В	Flame Atomic Ab	sorption	40 mg/kg (ppm)			
		SW846-6010B c	or C	ICP-AES		2 mg/kg (ppm)			
	Wastewater Unpreserved	SM3111B/SW846-	7000B Flame Atomic Absorption		sorption	0.4 mg/L (ppm)			
	Preserved with HNO ₃ pH < 2 \Box	EPA 200.5		ICP-AES		0.020 mg/L (ppm)			
	Drinking Water Unpreserved	EPA 200.9		Graphite Furnace AA		0.003 mg/L (ppm)			
	Preserved with $HNO_3 pH < 2$	EPA 200.8	ICP-MS			0.001 mg/L (ppm)			
	Other:	40 CFR Part 50 (2	2013)	іср-мя		1.2 µg/mter	┝──┝╧╡───		
	Name of Sampler: (b)/	<u>4</u>)	Signa	ture of Sample	r	(b)(A)	<u></u>		
	Sample # Local	lion		Volume/Are	a		ampied		
	2007 Lov, 9 South	Putside		x+2		3/17/15	-		
	2006 Leve 8 Sout	4 Dutside	1.0	EL 2		21.71.5	-		
	2010 121 9 SE	Duteila		<u><u> </u></u>		3/1-1	-		
	Red River	OVISIGE				3/19/1			
	2011 Diante			2		<u> \${ 1777</u> (\$			
	Client Somple the			Tata	14 .6 8				
			1		1 # 01 38	$\frac{\text{amples:}}{\sqrt{2}2}$	/		
	Relinquished (Client): (b)	(4) Date:	$+1\pm$	/nay 1.5	Time:	/.2037	us.		
	Received (Lab):	Date:	31	17/15	Time:	12:10;	ph		
	vvalaights,					,			

Controlled Devolvest (1996) From COC (1989-1984) From

Page 1 of ____ pages



Client Sample Description	Lab ID Collec	ted Analyzed	Area Sampled	Lead Concentration
2002	251501500-0001 3/17/2	2015 3/17/2015	144 in ²	1200 µg/ft²
	Site: Lev 9, South, Outs	ide		
2006	251501500-0002 3/17/2	2015 3/17/2015	144 in ²	220 μg/ft ²
	Site: Lev 8, South, Outs	ide		
2010	251501500-0003 3/17/2	2015 3/17/2015	144 in ²	2000 µg/ft ²
	Site: Lev 9, SE, Outside)		
2011	251501500-0004 3/17/2	2015 3/17/2015	n/a	<10 µg/wipe
	Site: Blank			



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 03/17/2015 16:26:54

OrderID: 251502346

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

		Lead (Pb) C	hain of			boulovare	
	EMSL	EMSL Orde	r ID (Lab (70000	
							/0809
	EMBL ANALYTICAL, INC.	2346			ļ	FAX (225) /	55-1920
	Laboratory + + + + 001/C T8 + Transmus		<u> </u>			(225) 7	55-1989
	Company : Jacobs (Stennis Space Ce	nter)-FOSC		EMSL-Bill If Bill to is Differe	to: 🖌 Sa ent note inst	ame Different	
	Street: Building 1100 Suite 213G	and	Th	ird Party Billing requi	ires written	authorization from third p	arty
	City:Stennis Space Center TState/F	Province: MS	Zip/Posta	<u>il Code: 39529</u>		Country: United	d States
	Report To (Name) (b) (4)		Telephon	ie #			
	Email Address (b)(4)		Fax #:		<u>(b)(4)</u>	Purchase Order	(b)(4)
	Project Name/Number: 6559-2015		Please P	ovide Results:	Fax	✓ Email	
	U.S. State Samples Taken: MS		CT Samp	les: 🔲 Commerc	ial/Taxab	le 🔲 Residential/Tax	Exempt
\bigcirc		urnaround Time (TA	T) Option	s* - Please Che	<u>ck</u>		
(HH	• 3 Hour 6 Hour 24			2 Hour 196	Hour		2 Week
	Matrix	Method		Instrumer	nt	Reporting Limit	Check
ľ	Chips % by wt. mg/cm² ppm	SW846-7000	В	Flame Atomic Abs	sorption	0.01%	
		NIOSH 7082	 ,	Flame Atomic Abs	sorntion	4 un/filter	
	C "	NIOSH 7105		Granhite Eurnar		0.03 ug/filter	╞┝╤
		NIOSH 7300 mod	dified	ICP-AES/ICP-	MS	0 5 µg/filter	
(A)	Wipe* ASTM	SW846-7000	Flame Atomic Abs	sorption	10 µg/wipe	\checkmark	
Ċ	*if no box is checked, non-ASTM Wipe is assumed	SW846-6010B c	эг С	ICP-AES		1.0 µg/wipe	
1	TCLP	SW846-1311/7000B/S	SM 3111B	Flame Atomic Abs	sorption	0 4 mg/L (ppm)	
		SW846-1131/SW846-6	i010B or C	ICP-AES		0 1 mg/L (ppm)	
	Soil	SW846-7000B		Flame Atomic Abs	sorption	40 mg/kg (ppm)	
		SW846-6010B c	or C	ICP-AES		2 mg/kg (ppm)	
	Wastewater Unpreserved	SM3111B/SW846-	7000B	Flame Atomic Absorption Graphite Furnace AA		0.4 mg/L (ppm)	
	Preserved with HNO ₃ pH < 2 \Box	EPA 200.9 EPA 200.7				0.003 mg/L (ppm)	╞═┫╴┄
	Drinking Water Unpreserved	EPA 200 9		Graphite Furnac	ce AA	0.020 mg/L (ppm)	
	Preserved with HNO ₃ pH < 2	EPA 200.8		ICP-MS		0.001 mg/L (ppm)	
	TSP/SPM Filter	40 CFR Part 50 (2	2013)	ICP-MS		1.2 µg/filter	
	Other:			L			
	Name of Sampler: (b)(4)	<u></u>	Signa	ture of Sample			
	Sample # Locati	ont	ince	Volume/Area	a	Date/Time S	sampled
	4-1 5 15-001 Mezzanine Break R	loom Floor -Enir	[°] 1 sq ft			4/15/15 / 0	105
	4-1 5 15-002 Mezzanine Break F	Room Floor-South	1 sq ft			4/15/15 /	9.08
	4-15-15-003 Blank		—			4/15/15 (91-10
ł	Client Sample #'s) 7.		Tota	I # of Sa	mples: 3	
	Relinquished (Client)	Date:	4/19	5/15	Time:	9:25	,
	(b)(4	Date:	41	11115	Time:	10:050	R
	Comments:	,			L		-77

Controlled Document --- Lead (Pb) COC - R9- 3/4/2015

Page 1 of 1 pages

Rig, Fr Lix



Client Sample Description	n Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-15-15-001	251502346-000	1 4/15/2015	4/16/2015	144 in²	79 µg/ft²
	Site: Mezz. Brea	ak Rm Floor-E	Intrance		
4-15-15-002	251502346-000	2 4/15/2015	4/16/2015	144 in²	150 μg/ft²
	Site: Mezz. Brea	ak Rm Floor-S	South		
4-15-15-003	251502346-000	3 4/15/2015	4/16/2015	n/a	<10 µg/wipe
	Site: Blank				



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/16/2015 12:11:30



EMSL ANALYTICAL, INC.

•

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2404

Baton Rouge, LA 70809 PHONE (225) 755-1920 FAX⁻ (225) 755-1989

	Company : Jacobs FOSC Group (JCWS50)					EMSL-Bill to: [/] Same []] Different If Bill to is Different note instructions in Comments**				
	Street: Buildin	g 1100 Suite 213	G,	~						
	City:Stennis-(Space Center	State/P	rovince: MS	Zip/Posta	Il Code: 39529		Cou	intry: Unite	d States
	Report To (Na	me (b)(4)		`	Telephor	e #: (b)(4)				
	Email Addres	s (b)(4)		Fax #: 22	28-688-6456	/	Pur	chase Order	(b)(4)
	Project Name	≤ /Number: 6563-20	15	·····	Please P	rovide Results	Fax		JIIIdee order	
	U.S. State Sar	noles Taken [,] MS	10		CT Samn	les:	cial/Taxal			x Exempt
			Τι	Irnaround Time (TA	T) Option	s* - Please Ch	eck		brabintian ras	LAOINPL
AE	3 Hour	🗌 6 Hour	24	Hour 48 Hour	48 Hour 72 Hour 96 Hour 1 Week] 2 Week
C	-	*Analysis	complete	d in accordance with EMS	SL's Terms a	nd Conditions locat	ed in the Pr	ice Guide	I	
		Matrix		Method		Instrument Rep			ting Limit	Check
	Chips% b	y wtmg/cm²	_ppm	SW846-7000	В	Flame Atomic Al	bsorption	0	01%	
ĺ	Air			NIOSH 7082		Flame Atomic Al	bsorption	4 μ	g/filter	
				NIOSH 7105		Graphite Furna	ace AA	0.03	µg/filter	
				NIOSH 7300 mod	lified	ICP-AES/ICF	P-MS	0.5	ug/filter	
Ð	Wipe*	ASTM non ASTM		SW846-7000	3	Flame Atomic Al	bsorption	10 µ	ıg/wipe	\checkmark
	*if no box is	s checked, non-ASTM Wipe is assumed		SW846-6010B c	or C	ICP-AES	3	1.0	.g/wipe	
	TCLP			SW846-1311/7000B/SM 3111B		Flame Atomic Absorption		0.4 m	J/L (ppm)	
				SW846-1131/SW846-6	010B or C	ICP-AES	3	0 1 m	J/L (ppm)	
	Soil		SW846-7000	3	Flame Atomic Al	bsorption	40 mg	/kg (ppm)		
	s			SW846-6010B c	or C	ICP-AES	6	2 mg/	kg (ppm)	
1	Wastewater	Linnreserved		SM3111B/SW846-	7000B	Flame Atomic Al	bsorption	0 4 m	J/L (ppm)	
	Preserved w	ith HNO ₃ pH < 2		EPA 200.9		Graphite Furna	ace AA	0 003 n	<u>1g/L (ppm)</u>	┨╴╞┽┈╵
ł	Drinking Ma	tor Upprocented		EPA 200 7		Craphito Euro		0.020 n	<u>ig/L (ppm)</u>	┨┝╤┥
	Preserved w	ith HNO₂pH < 2	H	EPA 200 8		ICP-MS		0.003 n	ng/L (ppm)	╏┝╡
ľ	TSP/SPM Fil	ter		40 CFR Part 50 (2	2013)	ICP-MS		1.2	ug/filter	
ľ	Other:	-		•						
Į	Name of San	npler: (b)(4	I)		Signa	ture of Sample	er:			
1	Sample #		Locati	on		Volume/Are	ea		Jate/ I Ime :	sampred
	4-16-15-001	L11 Floor, ne	ar foot	of stairwell	1 sq ft				4-16-15	2:30
Í	4-16-15-002	L11 Floor, ne	ar GN	Panel	1 sq ft				4-16-15	12.33
	4-16-15-003	L11 Floor, in	Room	C1109	1 sq ft				4-16-15	12:34
	4-16-15-004	3-15-004 L11 Floor, near bathroom entrance			1 sq ft				4-16-15	12:39
Í	4-16-15-005 L11 Handrail				1 sq ft				4-16-15	12:41
1	Client Samp	le #'s 001	- 00	9	_	Tot	al # of Sa	mples:	9	
	Relinquished	(Client)		Date:	4/10	0(15	Time:		2:45p	
	Received (Lab) <u>:</u>		4) Date:	4/	17/15	Time:		7:45 am	
ſ	Comments:									

Controlled Document --- Lead (Pb) COC - R9- 3/4/2015

Page 1 of 2 pages

Rig. tidey



LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only)

24

2

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rouge, LA 70809

PHONE[•] (225) 755-1920 Fax (225) 755-1989

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
4-16-15-0₽	L11 Stair, mid-landing	1 sq ft	4-16-15 (2:47
4-16-15-007	L11 Top of fluorescent light fixture	1 sq ft	4-16-15 2:15
4-16-15-008	L10.5 Stairwell Landing	1 sq ft	4-16-15 2;20
4-16-15-009	Blank	n/a	4-16-15 226
	·····		
Comments/Sp	ecial Instructions:	1	

Page 2 of 2 pages

Controlled Document --- Lead (Pb) COC R9- 3/4/2015

Page 2 Of 2



Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Concentration
4-16-15-001	251502404-00	01 4/16/2015	4/17/2015	144 in ²	210 µg/ft ²
	Site: L11 Floor	, near foot of s			
4-16-15-002	251502404-00	02 4/16/2015	4/17/2015	144 in ²	160 µg/ft²
	Site: L11 Floor	, near GN Pan	el		
4-16-15-003	251502404-00	03 4/16/2015	4/17/2015	144 in ²	150 µg/ft²
	Site: L11 Floor	, in Room C11	09		
4-16-15-004	251502404-00	04 4/16/2015	4/17/2015	144 in ²	200 µg/ft ²
	Site: L11 Floor	, near bathrooi			
4-16-15-005	251502404-00	05 4/16/2015	4/17/2015	144 in ²	41 µg/ft²
	Site: L11 Hand	Irail			
4-16-15-006	251502404-00	06 4/16/2015	4/17/2015	144 in ²	1300 µg/ft²
	Site: L11 Stair	, mid-landing			
4-16-15-007	251502404-00	07 4/16/2015	4/17/2015	144 in ²	280 µg/ft ²
	Site: L11 Top	of fluorescent l	ight fixture		
4-16-15-008	251502404-00	08 4/16/2015	4/17/2015	144 in ²	330 µg/ft ²
	Site: L10.5 Sta	airwell Landing			
4-16-15-009	251502404-00	09 4/16/2015	4/17/2015	n/a	<10 µg/wipe
	Site: Blank				



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/17/2015 12:42:19



Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2422

Baton Rouge, LA 70809 PHONE (225) 755-1920 FAX: (225) 755-1989

	Company : Ja	cobs FOSC Group (JC)	NS50)	EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**					
1	Street Buildin	g 1100 Suite 213G	A Gui	Third Darty Billing requires watten authorization from third acts					
	City:Stennis 6	Deace Center State	nd Ver Province: MS	Zip/Posta	I Code: 39529	res written	Country Unit	ed States	
	Report To (Na	me) (b)(4)		Telephone #: (b)(4)					
	Email Address	(b)(4)		Fax #: 228-688-6456			Purchase Orde	er: (b)(4)	
	Project Name/	Number: 6563-2015		Please Pl	rovide Results:	Fax	Email		
	U.S. State San	nples Taken: MS		CT Samp	les:	ial/Taxab	le 🗌 Residential/T	ax Exempt	
		T	urnaround Time (TA	T) Option	s* - Please Che	ck			
Al	3 Hour	🗌 6 Hour 🗌 24	Hour 🗌 48 Hou	ır 🗌 72 Hour 📋 96 Hour 🗌 1 Week 🗌 2 Week					
<i>w</i>		Analysis complete	ed in accordance with EMS	SL's Terms a	nd Conditions locate	d in the Pri	ce Guide		
			Method		Instrume	nt	Reporting Limit	Check	
	Chips% b	y wtmg/cm²lppm	SW846-7000	В	Flame Atomic Ab	sorption	0.01%		
	Air		NIOSH 7082	1	Flame Atomic Ab	sorption	4 µg/filter		
			NIOSH 7105	,	Graphite Furna	ce AA	0.03 µg/filter		
\sim			NIOSH 7300 mod	dified	ICP-AES/ICP	-MS	0.5 µg/filter		
(II)	Wipe*	ASTM 🔽	SW846-7000	В	Flame Atomic Ab	sorption	10 µg/wipe		
	*if no box is	checked, non-ASTM	SW846-6010B (or C	ICP-AES		1 0 μg/wipe		
	TCLP		SW846-1311/7000B/S	SM 3111B	Flame Atomic Absorption		0.4 mg/L (ppm)		
			SW846-1131/SW846-6	6010B or C	ICP-AES		0 1 mg/L (ppm)		
	Soil		SW846-7000	В	Flame Atomic Ab	sorption	40 mg/kg (ppm)		
	···· •••		or C	ICP-AES		2 mg/kg (ppm)			
ĺ	Wastewater		SM3111B/SW846-	7000B	Flame Atomic Ab	sorption	0.4 mg/L (ppm)		
	Preserved wi	ith HNO ₃ pH < 2	EPA 200 9		ICP-AES Graphite Furnace AA Graphite Furnace AA ICP-MS		0.003 mg/L (ppm)	╎┤─┝╡	
	Drinking Wat		EPA 200.7				0.003 mg/L (ppm)	╵┼╴┝┽	
	Preserved wi	ith HNO ₃ pH < 2	EPA 200 8				0 001 mg/L (ppm)		
	TSP/SPM Fill	ter	40 CFR Part 50 (2013)	ICP-MS		1 2 µg/filter		
[Other:								
	Name of San	npler: (b)(4)		Signa	ture of Sample	r:			
	Sample #	Locat	ion		Volume/Are	a	Date/Time	Sampled	
	4-17-15-001	L16 Guardrail, top	rail, north side	1 sq ft			4-17-15		
	4-17-15-002	L16 Stair rail, top ra	ail	1 sq ft			4-17-15		
	4-17-15-003	L16 Second step o	f stairwell	1 sq ft			4-17-15		
	4-17-15-004	L16 Top of light fix	1 sq ft			4-17-15			
	4-17-15-005	L16 Blank	1 sq ft			4-17-15			
	Client Sampl	le#'s 001 - 00)5		Tota	I # of Sa	mples: 5		
	Relinguished	d (Client):	Date:	4171	5	Time:	11:18		
	Received (Lab	(b)(4) Date:	4/1	1/15	Time:	1:15.00	L	
	Comments:			<i></i>	· / / -				

Controlled Document --- Lead (Pb) COC R9- 3/4/2015

Page 1 of 1 pages

Couries



Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-17-15-001	251502422-00	01 4/17/2015	4/17/2015	144 in²	85 μg/ft²
	Site: L 16 Gua	rdrail/top/N side	e		
4-17-15-002	251502422-00	02 4/17/2015	4/17/2015	144 in²	54 µg/ft²
	Site: L16 Stair	rail/top			
4-17-15-003	251502422-00	03 4/17/2015	4/17/2015	144 in ²	2400 µg/ft ²
	Site: L16 Seco	nd step of stair	rwell		
4-17-15-004	251502422-00	04 4/17/2015	4/17/2015	144 in²	210 µg/ft ²
	Site: L16 Top/I	_ight Fixture/SE	E corner		
4-17-15-005	251502422-00	05 4/17/2015	4/17/2015	144 in²	<10 µg/ft²
	Site: L16 Blank	C			



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/17/2015 15:05:21



EMSL Analytical, Inc 11931 Industriplex Boulevard,

Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only).

2470

Baton Rouge, LA 70809 PHONE. (225) 755-1920 FAX: (225) 755-1989

	Company : Ja	y : Jacobs FOSC Group (JCWS50)			EMSL-Bill to: Same Different						
	Street: Buildin	g 1100 Suite 213	G		ть	ird Party Billing reg	ures writter	authoriz	ation from thir	d nadu	
	City:Stennis S	Space Center	State/P	Province: MS	Zip/Posta	al Code: 39529	mes willer	Co	untry: Uni	ted States	
1	Report To (Na	ime) (b)(4)			Telephor	ne #: (b)(4	.)				
	Email Addres	s:(b)	(4)		Fax #: 2	28-688-6456		PL	Irchase Ord	er (b)(4)	
	Project Name	/Number: 6563-2(015		Please P	rovide Results:	Fax	🖌 Ema	uil 🛛		
	U.S. State Sar	nples Taken: MS			CT Samples: Commercial/Taxable Residential/Tax Exempt						
		1	<u> </u>	Irnaround Time (TA	T) Option	s* - Please Che	eck				
(Le	3 Hour	6 Hour	24	Hour 🗌 48 Hour	r 🛛 7:	2 Hour 9	6 Hour		Week	2 Week	
		"Analysis Matrix	complete	d in accordance with EMS	SL's Terms a	nd Conditions locate	ed in the Pri	Renc	rting Limit	Check	
	Chips % b			SW846-7000	B	Flame Atomic Ab	soration	Перс	0.01%		
	Air					Flame Atomic Ab		4			
	~"					Graphito Europ		4	ug/iller	┨╌┝╡	
	i i i i i i i i i i i i i i i i i i i			NIOSH 7103 NIOSH 7300 mod	dified ICP-AES/ICP-MS		0.0	5 µg/iliter 5 µa/filter			
Æ	Wipe* ASTM non ASTM *if no box is checked, non-ASTM Wipe is assumed			SW846-7000	В	Flame Atomic Ab	sorption	10	µg/wipe		
\sim				SW846-6010B o	or C ICP-AES		1.0	µg/wipe			
	TCLP			SW846-1311/7000B/S	SM 3111B	Flame Atomic Ab	sorption	0.4 r	ng/L (ppm)		
				SW846-1131/SW846-6	6010B or C	ICP-AES		0.1 r	ng/L (ppm)		
	Soil			SW846-7000	В	Flame Atomic Ab	sorption	40 m	g/kg (ppm)		
1					or C	ICP-AES		2 mg	g/kg (ppm)		
	Wastewater	Unpreserved		SM3111B/SW846-	7000B	Flame Atomic Ab	sorption	0.4 n	ng/L (ppm)	╷┥╴┝╡	
	Preserved wi	ith HNO₃pH < 2		EPA 200 9 EPA 200 7		ICP-AES		0.003	mg/L (ppm	╎╴┝╡	
ł	Drinking Wat	ter Unpreserved		EPA 200 9		Graphite Furnace AA		0.003 mg/L (ppm)		╧╋╌┾╡╌	
	Preserved wi	ith HNO ₃ pH < 2		EPA 200 8		ICP-MS		0.001 mg/L (ppm)			
	TSP/SPM File	ter		40 CFR Part 50 (2	2013)	ICP-MS		12	µg/filter		
ŀ	Other:						_				
	Name of San	npler: (b)(4	.)	-0.	Signa	ture of Sample	<u>r:</u>			-	
-	Sample #		Locatio	on		Volume/Are	a		Date/ IIme	Sampled	
ļ	4-20-15-001	L11 Stairs (re	e-samp	le)	1 sq ft				4-20-15	9:00	
	4-20-15-002	L16 Stairs (re	e-samp	ole)	1 sq ft				4-20-15	9:05	
	4-20-15-003	L15 Stairs			1 sq ft				4-20-15	9:10	
	4-20-15-004	L15 Guardra	il		1 sq ft				4-20-15	9:12	
1	4-20-15-005	L15 Handrail			1 sq ft				4-20-15	9:14	
	Client Sample #'s 001 - 012				1	Tota	al # of Sa	mples:	12		
	Relinquished (Client):			Date:	20F	ton 15	Time:		132=	5	
	Received (Lab	»):		Date:	4/2	0/15	Time:		1.25p	m	
	comments:										

Controlled Document --- Lead (Ph) COC - R9- 3/4/2015

Page 1 of 2 pages

wack It



LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only)

2410

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rouge, LA 70809 PHONE. (225) 755-1920 FAX: (225) 755-1989

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
4-20-15-0	L15 Light Fixture	1 sq ft	4-20-15 9:16
4-20-15-007	L15 Water Tank	1 sq ft	4-20-15 9:18
4-20-15-008	L14 Stairs	1 sq ft	4-20-15 9:20
4-20-15-009	L14 Handrail	1 sq ft	4-20-15 9:22
4-20-15-0010	L14 Guardrail	1 sq ft	4-20-15 9:24
4-20-15-011	L14 Light Fixture	1 sq ft	4-20-15 9:26
4-20-15-0	Blank	n/a	4-20-15
Comments/S	Decial Instructions:		•

Page _____ of ____ pages

Controlled Document --- Lead (Pb) COC - R9 - 3/4/2015

Page 2 Of 2



EMSL Order: CustomerID: JCW CustomerPO: Cu



Attn: (b)(4) Jacobs FOSC Group Building 1100 Stennis Space Center Waveland, MS 39529

Project: 6563-2015

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Phone: Fax:

Received:

Collected:

(228) 688-3368

4/20/2015

04/20/15 1:25 PM

Client Sample Description	Lab ID Collect	ted Analyzed	Area Sampled	Concentration
4-20-15-001	251502470-0001 4/20/2	015 4/20/2015	144 in ²	1100 µg/ft²
	Site: L11 Stairs (re-sample	ole)		
4-20-15-002	251502470-0002 4/20/2	015 4/20/2015	144 in ²	630 µg/ft²
	Site: L16 Stairs (re-sample states and state	ole)		
4-20-15-003	251502470-0003 4/20/2	015 4/20/2015	144 in ²	210 µg/ft ²
	Site: L15 Stairs			
4-20-15-004	251502470-0004 4/20/2	015 4/20/2015	144 in²	86 µg/ft²
	Site: L15 Guardrail			
4-20-15-005	251502470-0005 4/20/2	015 4/20/2015	144 in²	180 µg/ft²
	Site: L15 Handrail			
4-20-15-006	251502470-0006 4/20/2	015 4/20/2015	144 in ²	72 µg/ft ²
	Site: L15 Light Fixture			
4-20-15-007	251502470-0007 4/20/2	015 4/20/2015	144 in ²	260 µg/ft ²
	Site: L15 Water Tank			
4-20-15-008	251502470-0008 4/20/2	015 4/20/2015	144 in²	98 µg/ft²
	Site: L14 Stairs			
4-20-15-009	251502470-0009 4/20/2	015 4/20/2015	144 in²	160 µg/ft²
	Site: L14 Handrail			
4-20-15-010	251502470-0010 4/20/2	015 4/20/2015	144 in ²	34 µg/ft²
	Site: L14 Guardrail			
4-20-15-011	251502470-0011 4/20/2	015 4/20/2015	144 in²	66 µg/ft²
	Site: L14 Light Fixture			
4-20-15-012	251502470-0012 4/20/2	015 4/20/2015	n/a	<10 µg/wipe
	Site: Blank			



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AlHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/20/2015 15:21:18

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Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

249

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rouge, LA 70809 PHONE: (225) 755-1920 FAX (225) 755-1989

	Company : Ja	any : Jacobs FOSC Group (JCWS50)			EMSL-Bill to: Same L Different					
	Street Building	1100 Suite 213	<u>i</u> i i i i i i i i i i i i i i i i i i		Third Party Billing requires written authorization from third party					
	City Stennis S	pace Center	State/P	rovince: MS	Zin/Posta	I Code: 39529	nes whiten	Co	untry: United	States
-	Banart To (Na	(b)(4	J		Telephon	e # (b)(4)				
┟	Report To (Na		(A)		Eax #1 22	28-688-6456		Burchase Order (h)(4)		(h)(4)
ł	Email Address	Number (CEC) 2)(+) 045		_FdX #. 44		Eav		sil	
┟	Project Name/	Number: 0003-2	015		Please Pl		- Fax			
ŀ	U.S. State Samples Taken: MS			manager of Times /TA	CI Samples: Commercial/Taxable Residential/Tax Exempt					
٦ŀ				Hour A8 Hour			Hour		Week	2 Week
9		*Analysis	s complete	d in accordance with EMS	L's Terms ar	nd Conditions locate	d in the Pri	ce Guide		
h		Matrix		Method		Instrume	nt	Repo	orting Limit	Check
F	Chips 🗌 % b	y wtmg/cm² [ppm	SW846-7000	B	Flame Atomic Ab	sorption		0.01%	
ſ	Air			NIOSH 7082 Flame Atomic Absorption		4	µg/filter			
1			NIOSH 7105 Graphite Furnace AA 0.0		0.0	3 µg/filter				
				NIOSH 7300 mod	lified	ICP-AES/ICP	-MS	0.5	5 µg/filter	
)	Wipe*	ASTM non ASTM	\square	SW846-7000	в	Flame Atomic Ab	sorption	10) µg/wipe	
	*if no box is checked, non-ASTM Wine is assumed			SW846-6010B (or C	ICP-AES		1 () µg/wìpe	
r	TCLP			SW846-1311/7000B/S	SM 3111B	Flame Atomic Ab	sorption	<u>0</u> .4 r	ng/L (ppm)	
				SW846-1131/SW846-6	6010B or C	ICP-AES		<u>0.1 r</u>	ng/L (ppm)	
	Soil			SW846-7000	в	Flame Atomic Ab	sorption	40 m	ng/kg (ppm)	
	SW846-6010			SW846-6010B (or C	ICP-AES		<u>2</u> m	g/kg (ppm)	
ſ				SM3111B/SW846-	7000B	Flame Atomic Ab	sorption	0.4 r	mg/L (ppm)	
	Preserved wi	th HNO ₂ pH < 2	H	EPA 200 9		Graphite Furna	ce AA	0.003	mg/L (ppm)	┟╴┢╡┈
ļ				EPA 200.7		ICP-AES		0.020	mg/L (ppm)	╞╌╞═┽╴╴
	Drinking Wat		H	EPA 200.9 EPA 200.8		ICP-MS		0.001 mg/L (ppm)		╞╴╞╡╴
ł	TSD/SPM Fill	ter		40 CFR Part 50 (2013)	ICP-MS		1.2 µg/filter		
ł	Other:			·`						
ł	Name of Sar	nnlor: (b)(4	1)	<u></u>	Signa	ture of Sample				
ł	Sample #		Locati	on	<u></u>	Volume/Are	a		Date/Time	Sampled
Ì	4-21-15-001	L11 Stairs (r	re-samp	ole)	1 sq ft				4-21-15 9):15
ł	4-21-15-002	I 16 Stairs (re-sam	ole)	1 sa ft			- 1	4-21-15 9):20
ł	4-21-15-003	L13 Stairs		/	1 sa ft				4-21-15 9):25
ł	4-21-15-004	L13 Stair rai	 i/		1 sa ft				4-21-15 9):28
ł	4-21-15-005	1-15-005 13 Guardrail			1 sq ft				4-21-15 9	9:30
ł	Client Sample #'s 001 - 010				<u> </u>	Tota	al # of Sa	amples	: 10	
	Relinquished (Client)			Date:	2/4	2m 2015	Time:		1338.	ly.
	Received (Lal	b):) Date:	41	21/15	Time:		1:4001	<u>۸</u>
ľ	Comments:								- / -	
Ì										

Controlled Document --- Lead (Pb) COC -- R9-- 3/4/2015

Page 1 of 2 pages

Walk It



LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only)

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rouge, LA 70809 P_{HONE}. (225) 755-1920 Fax: (225) 755-1989

EMSL ANALYTICAL, INC.

2491

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
4-21-15-0	L13 Light Fixture	1 sq ft	4-21-15 9:30
4-21-15-007	L12 Stairs	1 sq ft	4-21-15 9:40
4-21-15-008	L12 Stair rail	1 sq ft	4-21-15 9:45
4-21-15-009	L12 Light Fixture	1 sq ft	4-21-15 9:50
4-21-15-010	Blank	N/A	4-21-15 10:40
Comments/Sp	ecial Instructions:		

Page _____ of ____ pages

Controlled Document --- Lead (Pb) COC - R9- 3 4 2315

Page 2 Of 2



Attn:

EMSL Analytical, Inc. 11931 Industriplex, Suite 100, Baton Rouge, LA 70809 Phone/Fax: (225) 755-1920 / (225) 755-1989 http://www.EMSL.com batonrougelab@emsl.com

Phone: Fax: Received:

Collected:

(b)(4) (228) 688-3368 04/21/15 1:40 PM

4/21/2015

EMSL Order:

CustomerID:

CustomerPO:



Project: 6563-2015

Jacobs FOSC Group

Stennis Space Center Waveland, MS 39529

Building 1100

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID C	Collected	Analyzed	Area Sampled	Concentration
4-21-15-001	251502497-0001 4	/21/2015	4/21/2015	144 in²	220 µg/ft ²
	Site: L11 Stairs (re	-sample)			
4-21-15-002	251502497-0002 4	/21/2015	4/21/2015	144 in ²	670 μg/ft²
	Site: L16 Stairs (re	-sample)			
4-21-15-003	251502497-0003 4	/21/2015	4/21/2015	144 in ²	940 µg/ft²
	Site: L13 Stairs				
4-21-15-004	251502497-0004 4	/21/2015	4/21/2015	144 in ²	96 μg/ft²
	Site: L13 Stair rail				
4-21-15-005	251502497-0005 4	/21/2015	4/21/2015	144 in ²	59 μg/ft²
	Site: L13 Guardrail				
4-21-15-006	251502497-0006 4	/21/2015	4/21/2015	144 in ²	210 µg/ft ²
	Site: L13 Light Fixt	ure			
4-21-15-007	251502497-0007 4	/21/2015	4/21/2015	144 in ²	560 μg/ft²
	Site: L12 Stairs				
4-21-15-008	251502497-0008 4	/21/2015	4/21/2015	144 in ²	71 μg/ft²
	Site: L12 Stair rail				
4-21-15-009	251502497-0009 4	/21/2015	4/21/2015	144 in ²	370 μg/ft²
	Site: L12 Light Fixt	ure			
4-21-15-010	251502497-0010 4	/21/2015	4/21/2015	n/a	<10 µg/wipe
	Site: Blank				



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/21/2015 15:23:30

OrderID: 251502588



ATORY PRODUCTS-TR

OVCTS-TR

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only)

2588

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rouge, LA 70809 PHONE (225) 755-1920 FAX: (225) 755-1989

	Company : Ja	cobs FOSC Gro	up (JCV	VS50)		EMSL-Bill to: Same L Different If Bill to is Different note instructions in Comments**							
	Street: Dullull	y 1100 Suite 213				Th	ird Party Bi	illing requ	ires writter	authoriz	tation from third p	arty	
	City:Stennis 3	space Center	State/P	rovince: MS		Zip/Postal Code: 39529 Country: United Stat				States			
	Report To (Na	<u>me) (b)(4)</u>				Telephon	e #:	<u>(b)(4</u>	.)	T			
	Email Address	s:(b)	(4)			Fax #: 22	28-688-6	456		P	urchase Order	(b)(4)	
ļ	Project Name/	Number: 6563-20	015			Please Pr	ovide Re	sults:	🗌 Fax	🖌 Em	ail		
1	U.S. State San	nples Taken: MS				CT Samp	les: 🗌 C	ommerc	ial/Taxat	ole 🗌 I	Residential/Tax	Exempt_	
			Τι	Irnaround Tim	ne (TA	T) Option	s* - Plea	se Che	eck		r		
ΨØ	3 Hour	6 Hour	24	Hour 4	8 Hour	72	2 Hour	96 🗌	6 Hour		Week	2 Week	
~		*Analysis	s complete	d in accordance w	th EMS	L's Terms ar	nd Conditic	ons locate	d in the Pr	ice Guide	e ortina Limit	Check	
			_	Me	thou			strume		кер		Cileck	
		y wt. ∐mg/cm² [ppm	SW84	6-7000	3	Flame A	tomic Ab	sorption		0.01%		
	Air			NIOS	H 7082		Flame A	Atomic Ab	sorption	4	l µg/filter		
				NIOS	H 7105		Graph	nite Furna	ICE AA	0.0	03 µg/filter		
	Mino*			NIOSH 73	sou moc	mea		-AES/ICP	'-MS	0.	o µg/niter		
Ø	wipe [™] ASTM ↓ non ASTM □ *if no box is checked, non-ASTM □ Wipe is assumed			SW84	SW846-7000B Flame Atomic Absorption		10 µg/wipe						
-				SW846-6	6010B c	or C ICP-AES		1 0 µg/wipe					
	TCLP			SW846-1311/7	7000B/S	M 3111B	Flame A	Atomic Ab	sorption	0.4	mg/L (ppm)		
	S S			SVV846-1131/S	VV846-6	010B or C		ICP-AES	•	0.1	mg/L (ppm)		
	501			SW84	6-70008	3	Flame A	Atomic Ab	sorption	40 r	ng/kg (ppm)		
		ξ			5010B c	rC		ICP-AES		2 m	ig/kg (ppm)		
	Wastewater	Unpreserved		SM3111B/S	SW846-	7000B	Flame A	Atomic Ab	sorption	0.4	mg/L (ppm)	┝┝╉┈	
	Preserved wi	ith HNO ₃ pH < 2		EPA	200.9		Grapr			0.00	<u>mg/L (ppm)</u>	┝╌┝┥─	
	Drinking Wat	ter Unnreserved		EPA 200.9			Graph	ite Furna	ice AA	0.003 mg/L (ppm)			
	Preserved wi	ith HNO ₃ pH < 2	H	EPA	EPA 200.8		ICP-MS		0 001 mg/L (ppm)				
l	TSP/SPM Fill	ter		40 CFR P	art 50 (2	60 (2013) ICP-MS			1.2 µg/filter				
	Other:	-											
	Name of San	npler: (b)(4	•)			Signa	ture of \$	Sample	• r:				
	Sample #		Locati	on			Volu	me/Are	a		Date/Time \$	Sampled	
	4-22-15-001	L16 Stairs (a	ifter aci	d wash)		1 sq ft		_			4-22-15 1	:15	
	4-22-15-002	Blank				n/a					4-22-15 1	Image: chase Order (h)(4) I esidential/Tax Exempt Veek 2 Week ting Limit Check 0.01%	
	Client Samp	le #'s001	- 00	2				Tota	al # of Sa	amples	s: 2		
	Relinguished	d (Client			Date:	4/	22/	15	Time:		2:30		
	(b)(4			4)	ate.	41	1/15		Time		1:5000	_ ۸	
	Comments:	<u>,,,.</u>			415.						arsoph	· · · · ·	

Controlled Document --- Lead (Pb) COC - R9- 3/4/2015

Page 1 of 1 pages

Reg. Feder



				Lead
Client Sample Description	Lab ID Collected	Analyzed	Area Sampled	Concentration
4-22-15-1	251502588-0001 4/22/2015	4/23/2015	144 in ²	260 µg/ft ²
	Site: L16 Stairs (after acid wa	ash)		
4-22-15-2	251502588-0002 4/22/2015	4/23/2015	n/a	<10 µg/wipe
	Site: Blank			



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/23/2015 16:34:39



Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only)

2612

Baton Rouge, LA 70809 PHONE (225) 755-1920 FAX: (225) 755-1989

						(223) 1	33-1909	
Company : Ja	acobs (Stennis Space Ce	nter)	EMSL-Bill to: Same Different					
Street: Buildin	ig 1100 Suite 213G		Third Party Billing requires written authorization from third party					
City:Stennis	Space Center State/F	Province: MS	Zip/Posta	al Code: 39529		Country: United	d States	
Report To (Na	(b)(4)		Telephor	ne #: (b)(4)	I			
Email Addres	s (b)(4)		Fax #: 2	28-688-6456		Purchase Order		
Project Name	/Number: 6559-2015		Please P	rovide Results: 🔲 Fax	🖌 Er	nail		
U.S. State Sar	nples Taken: MS		CT Samp	les: 🔲 Commercial/Taxa	ble 🗌	Residential/Tax	Exempt	
		urnaround Time (TA	T) Option	s* - Please Check	r			
3 Hour (🖌 🗈 6 Hour 🛛 🗆 24	Hour 48 Hour	r 7	2 Hour 96 Hour		1 Week	2 Week	
 	*Analysis complete Matrix	d in accordance with EMS	SL's Terms à	nd Conditions located in the P	nce Gui	ge	Check	
Chips 7% t		SW/846-7000		Flame Atomic Absorption		0.01%		
		30040-7000				0.0170		
		NIOSH 7082		Flame Atomic Absorption		4 µg/filter		
		NIOSH 7105	Nifiod	Graphite Furnace AA 0 03 µg/filter			<u> </u>	
Wipe*	ASTM 🔽	SW846-7000	B	Elame Atomic Absorption				
*if no box is	non ASTM	SW846-6010B c	or C	ICP-AES	1	0 µg/wipe		
TCLP	Wipe is assumed	SW846-1311/7000B/S	M 3111B Elame Atomic Absorption 0.4 mg/l (pr			ma/l (nnm)		
		SW846-1131/SW846-6	010B or C	ICP-AES	0.1	mg/L (ppm)		
Soil		SW846-7000	В	Flame Atomic Absorption	40	mg/kg (ppm)		
1		SW846-6010B c	or C	ICP-AES	2 r	ng/kg (ppm)		
Mactowator		SM3111B/SW846-	7000B	Flame Atomic Absorption	0.4	mg/L (ppm)		
Preserved w	ith HNO₂ pH < 2	EPA 200.9		Graphite Furnace AA	0.00	0.003 mg/L (ppm)		
Deinkine Ma		EPA 200 7		ICP-AES	0.02	0.020 mg/L (ppm)		
Preserved w	ter Unpreserved	EPA 200 9 EPA 200.8		ICP-MS	0.00)1 ma/L (ppm)		
TSP/SPM Fil	ter	40 CFR Part 50 (2	2013)	ICP-MS	1	2 µg/filter		
Other:								
Name of San	npler: (b)(4)		Signa	ture of Sampler:)(4)		
Sample #	Locati	on		Volume/Area		Date/Time S	Sampled	
B1-1	Level 20 outside SV	N corner	1 sq ft			4/23/2015	j	
B1-2	Level 20 outside E	side	1 sq ft			4/23/2015	;	
B1-3	I-3 Level 20 outside SE side					4/23/2015	5	
B1-4 Level 20 outside North side			1 sq ft			4/23/2015	5	
B1-5 Blank			N/A			4/23/2015	; ;	
Client Samp	le #'s 1 - 5			Total # of S	ample	s: 5		
Relinquished	d (Client):	Date:	4/2	2 <u>3//4</u> Time:		6:00,	n n	
Received (Lat	b):	(4) Date:	4/	24/15 Time:		10:10 al	×	
Comments:								

Controlled Document --- Lead (Pb) COC - R9- 3/4/2015

Page 1 of 1 pages

Reg. Leder



Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
B1-1	251502612-00	01 4/23/2015	4/24/2015	144 in²	170 μg/ft²
	Site: Level 20 d	outside SW co	rner		
B1-2	251502612-00	02 4/23/2015	4/24/2015	144 in²	210 µg/ft²
	Site: Level 20 d	outside E side			
B1-3	251502612-00	03 4/23/2015	4/24/2015	144 in²	300 µg/ft²
	Site: Level 20 d	outside SE side	e		
B1-4	251502612-00	04 4/23/2015	4/24/2015	144 in²	430 µg/ft²
	Site: Level 20 d	outside N side			
B1-5	251502612-00	05 4/23/2015	4/24/2015	n/a	<10 µg/wipe
	Site: Blank				



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/24/2015 16:14:16



Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2608

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rouge, LA 70809 PHONE (225) 755-1920 Fax (225) 755-1989

-			(223) 733-7083						
	Company : Jacobs FOSC Group (JCW	/ S50)		EMSL-Bill If Bill to is Differ	I to: 🗹 Sa rent note ins	ame Different tructions in Comments**			
	Street Building 1100 Suite 213G	·	Th	ird Party Billing regi	iires writtei	authorization from third p	artv		
	City:Stennis Space Center State/P	rovince: MS	Zip/Posta	Il Code: 39529	ines white	Country: United	States		
	Report To (Name): (b)(4)		Telephone #: (h)(4)						
	Email Address (b)(4)		Fax #: 22	28-688-6456		Purchase Order	(b)(4)		
	Project Name/Number: 6563-2015		Please Provide Results: Fax V Email						
	U.S. State Samples Taken: MS		CT Samples: Commercial/Taxable Residential/Tax Exem						
	Tu	rnaround Time (TA	T) Option	s* - Please Che	eck		<u> </u>		
A	🗐 3 Hour 🗌 6 Hour 🗌 24	Hour 🗌 48 Hour	• 7:	2 Hour 🛛 🗍 9	6 Hour	🗋 1 Week 🛛	2 Week		
C	*Analysis complete	d in accordance with EMS	L's Terms and Conditions located in the Price			ce Guide			
	Matrix	Method		Instrume	ent	Reporting Limit	Спеск		
	Chips% by wtmg/cm²ppm	SW846-7000	3	Flame Atomic At	sorption	0.01%			
	Air	NIOSH 7082		Flame Atomic At	sorption	4 µg/filter			
		NIOSH 7105		Graphite Furna	ice AA	0.03 µg/filter			
_		NIOSH 7300 mod	lified	ICP-AES/ICF	P-MS	0.5 µg/filter			
P	Wipe* ASTM 🗸 non ASTM	SW846-7000	00B Flame Atomic Absorption		10 µg/wipe				
~	*if no box is checked, non-ASTM L Wipe is assumed	SW846-6010B c	or C ICP-AES		1.0 μg/wipe				
	TCLP	SW846-1311/7000B/S	SM 3111B	Flame Atomic At	sorption	0.4 mg/L (ppm)			
	Soil	SW846-1131/SW846-6	010B or C	ICP-AES		0.1 mg/L (ppm)			
	501	SVV846-7000	3	Flame Atomic At	sorption	40 mg/kg (ppm)			
		SW846-6010B c	or C	ICP-AES		2 mg/kg (ppm)			
	Wastewater Unpreserved	SM3111B/SW846-	7000B	Flame Atomic At Graphite Europ	sorption	0.4 mg/L (ppm)	- ⊣		
	Preserved with HNO ₃ pH < 2 \Box	EPA 200.7		ICP-AES		0.020 mg/L (ppm)			
	Drinking Water Unpreserved	EPA 200.9		Graphite Furnace AA		0.003 mg/L (ppm)			
	Preserved with HNO ₃ pH < 2	EPA 200.8		ICP-MS		0.001 mg/L (ppm)			
	TSP/SPM Filter	40 CFR Part 50 (2	2013)	ICP-MS		1 2 µg/filter			
	Other:				-				
	Name of Sampler [10](4)		Signa	ture of Sample	9 .	(D)(4)	Semulad		
		on	1 0 7 4	volume/Are	;a	Date/ Time 3	sampieu		
	4-23-15-001 Level 19 Floor		I SQ II			4-23-15			
	4-23-15-002 Level 19 guar	d rail	1 sq ft			4-23-15			
	4-23-15-003 Level 19 Light	+ Fixture	1 sq ft			4-23-15			
	4-23-15-004 Level 18 Stair	<u>۲</u>	1 sq ft			4-23-15			
	4-23-15-005 Level 18 Stair	rail	1 sq ft			4-23-15			
	Client Sample #'s 1 - /.	5		Tota	al # of Sa	amples: /5			
	Relinguished (Client)	Date:	4/	23/15	Time:	6.00 p	~		
	Received (Lab):	Date:	H/3	4/15	Time:	10:10an	<u>x</u>		
	Comments:								

Controlled Document --- Lead (Pb) COC -- R9-- 3/4/2015

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Rg. Fely



LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

2608

EMSL Analytical, Inc 11931 Industriplex Boulevard,

Baton Rouge, LA 70809

PHONE (225) 755-1920 FAX (225) 755-1989

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
4-23-15-0	Level 18 Light Fixture	1 sq ft	4-23-15
4-23-15-007	Level 18 Top of Fuse Box	1 sq ft	4-23-15
4-23-15-008	Level 18 guard rail	1 sq ft	4 -23-15
4-23-15-009	Level 17 Stairs	1 sq ft	4-23-15
4-23-15-010	Level 17 PM Stair rail	1 sq ft	4-23-15
42315-011	Level 17 Guard roll	1 sq ft	4-23-15
42315-012	Level 17 Cable tray	1 sq ft	4-23-15
42315-013	Level 17 Light Fixture	1 sq ft	4-23-15
42315-014	Blank	154# N/A	4-23-15
42315-015	Blank	tert NIA	4-23-15
42315-016			
<u> </u>			
Comments/S	pecial Instructions:	· · · · · · · · · · · · · · · · · · ·	

Page _____ of ____ pages

Controlled Document --- Lead (Pb) COC - R9- 3/4/2015

Page 2 Of 2



Project: 6563-2015

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

					Leaa
Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Concentration
4-23-15-001	251502608-0001 4/23/2015 4/24/2015 144 in ²				49 µg/ft²
	Site: Level 19 Floor				
4-23-15-002	251502608-0002 4/23/2015		4/24/2015	144 in²	150 µg/ft²
	Site: Level 19 guard rail				
4-23-15-003	251502608-0003 4/23/2015		4/24/2015	144 in ²	240 µg/ft ²
	Site: Level 19 Light Fixture				
4-23-15-004	251502608-0004 4/23/2015		4/24/2015	144 in ²	210 µg/ft ²
	Site: Level 18 Stairs				
4-23-15-005	251502608-00	05 4/23/2015	4/24/2015	144 in²	77 μg/ft²
	Site: Level 18 Stair rail				
4-23-15-006	251502608-00	06 4/23/2015	4/24/2015	144 in ²	96 µg/ft²
	Site: Level 18 Light Fixture				
4-23-15-007	251502608-00	07 4/23/2015	4/24/2015	144 in²	1100 µg/ft²
	Site: Level 18 Top of Fuse Box				
4-23-15-008	251502608-00	08 4/23/2015	4/24/2015	144 in²	100 µg/ft²
	Site: Level 18 guard rail				
4-23-15-009	251502608-00	09 4/23/2015	4/24/2015	144 in²	780 μg/ft²
	Site: Level 17 Stairs				
4-23-15-010	251502608-00	10 4/23/2015	4/24/2015	144 in²	110 µg/ft²
	Site: Level 17 Stair rail				
42315-011	251502608-0011 4/23/2015		4/24/2015	144 in²	74 μg/ft²
	Site: Level 17 Guard rail				
42315-012	251502608-00	12 4/23/2015	4/24/2015	144 in²	460 µg/ft²
	Site: Level 17 Cable tray				
42315-013	251502608-00	13 4/23/2015	4/24/2015	144 in²	4600 µg/ft ²
	Site: Level 17 Light Fixture				
42315-014	251502608-0014 4/23/2015		4/24/2015	n/a	<10 µg/wipe
	Site: Blank				
42315-015	251502608-00	15 4/23/2015	4/24/2015	n/a	<10 µg/wipe
	Site: Blank				



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AlHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/24/2015 16:12:58



Area Sampled



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AlHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/24/2015 16:12:58

Lab ID

Client Sample Description

Collected

Analyzed

Lead

Concentration
OrderID: 251502638

—
EMBL ANALYTICAL, INC.
LABORATORY-PRODUCTS-TRANSING

Lead	(Pb)	Chain o	of Custody
------	------	---------	------------

EMSL Order ID (Lab Use Only):

2638

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rouge, LA 70809 PHONE: (225) 755-1920 Fax (225) 755-1989

-		1	\			(225) 7	22-1909		
	Company : Jacobs FOSC Group (JC	WS50)	EMSL-Bill to: Same Different						
	Street: Building 1100 Suite 213G		Third Party Billing requires written authonzation from third party						
	City:Stennis Space Center State/	Province: MS	Zip/Posta	al Code: 39529		Country: United	d States		
	Report To (Name) (b)(4)		Telephor	ne #: (b)(4)					
	Email Address: (b)(4)		Fax #; 23	28-688-6456		Purchase Order	(b)(4)		
	Project Name/Number: 6563-2015		Please P	rovide Results: 🔲 F	ax 🗸 Er	nail			
	U.S. State Samples Taken: MS		CT Samp	les: 🔲 Commercial/T	axable 🗌	Residential/Tax	Exempt		
\sim		urnaround Time (TA	e (TAT) Options* - Please Check						
	3 Hour 6 Hour 2	4 Hour 48 Hour	lour 48 Hour 72 Hour 96 Hour				1 Week 2 Week		
	Matrix	Method	SLS I erriis a	Instrument	he Price Gui	de porting Limit	Check		
	Chips % by wt. mg/cm ² ppm	SW846-7000	B	Flame Atomic Absorpti	ion	0.01%			
	Air	NIOSH 7082	,	Elame Atomic Absorpti	ion	4 ug/filter			
		NIOSH 7105		Granhite Eurnace A4		03 ug/filter			
_		NIOSH 7300 mod	dified	ICP-AES/ICP-MS).5 µg/filter			
Ľ)	Wipe* ASTM	SW846-7000	B	Flame Atomic Absorpti	ion í	10 µg/wipe			
	*if no box is checked, non-ASTM Wipe is assumed	SW846-6010B c	r C ICP-AES		1	.0 µg/wipe			
	TCLP	SW846-1311/7000B/S	SM 3111B	Flame Atomic Absorpti	ion 0.4	mg/L (ppm)			
	Soil	SW846-1131/SW846-6	6010B or C	ICP-AES	01	mg/L (ppm)			
- 1	301	SW846-7000	В	Flame Atomic Absorpti	ion 40	mg/kg (ppm)			
		SW846-6010B c	or C	ICP-AES	2 г	ng/kg (ppm)			
	Wastewater Unpreserved	SM3111B/SW846-	7000B Flame Atomic Absorption Graphite Furnace AA ICP-AES		ion 0.4	mg/L (ppm)			
	Preserved with HNO ₃ pH < 2	EPA 200 9 EPA 200 7				20 mg/L (ppm)			
	Drinking Water Unpreserved	EPA 200 9		Graphite Furnace AA	A 0.00	03 mg/L (ppm)			
	Preserved with $HNO_3 pH < 2$	EPA 200 8		ICP-MS	0.00	01 mg/L (ppm)			
	TSP/SPM Filter	40 CFR Part 50 (2	2013)	13) ICP-MS		1.2 µg/filter			
	Other:				(h	$\lambda(A)$			
	Name of Sampler: (D)(4)	lan	Signa	ture of Sampler	u)	(+) L Dete/Time (a ma m l a d		
			1 cg ft	volume/Area	<u> </u>	Date/Time a	sampieo		
	4-24-15-001 Level 12, 314,4	S (resample)	i sy it	<u> </u>		4-24-15			
	4-24-15-002 Level 13, Stail	rs (resample)	1 sq ft			4-24-15			
	4-24-15-003 Blank		n/a			4-24-15			
-									
	Client Sample #'s 00) - 00	2.		Total # c	of Sample	 و∙ Σ			
	Relinguished (Client):	Date:	4/2	+/15 Ti	me:	3:06			
	Received (Lab): (b)(4) Date:	4/	27/15 Tin	ne:	8:40 n.	M.		
ľ	Comments:			-					

Controlled Document --- Lead (Pb) COC - R9- 3/4/2015

Page 1 of 1 pages

Rig. Fely

Page 1 Of 1



Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Leaa Concentration
4-24-15-001	251502638-000	01 4/24/2015	4/28/2015	144 in²	610 µg/ft²
	Site: Level 12,	Stairs (resamp	ole)		
4-24-15-002	251502638-000	02 4/24/2015	4/28/2015	144 in ²	420 µg/ft ²
	Site: Level 13,	Stairs (resamp	ole)		
4-24-15-003	251502638-000	03 4/24/2015	4/28/2015	n/a	<10 µg/wipe
	Site: Blank				



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/28/2015 11:11:07



Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2656

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rouge, LA 70809 PHONE. (225) 755-1920 FAX: (225) 755-1989

	Company ; Jacobs F	ompany ; Jacobs FOSC Group (JCWS50)						EMSL-Bill to: 🖌 Same 🔲 Different						
	Street: Building 1100	t;Building 1100 Suite 213G						Third Party Billing requires written authorization from third party						
	City:Stennis Space (Center s	tate/P	rovince: MS		Zip/Postal Code: 39529 Country: United S					d States			
	Report To (Name)	(b)(4)					e #: (b)((4)						
	Email Address:	ss: (b)(4)					28-688-6456		Pu	rchase Order	(b)(4)			
	Project Name/Number: 6563-2015						rovide Results	s: 🗌 Fax	🖌 Emai	i l				
	U.S. State Samples Taken: MS						les: 🗌 Comm	ercial/Taxat	ole 🗌 Re	esidential/Tax	Exempt			
\sim		· · · · · · · · · · · · · · · · · · ·	Tu	Irnaround T	ime (TA	T) Options* - Please Check								
(4)	🔳 3 Hour 🛛	6 Hour	24	Hour 🗌	48 Hour		2 Hour] 96 Hour		Neek 🗌	2 Week			
C	Blatr	*Analysis co	omplete	d in accordance	ethod	sL's Terms ai	na Conditions io Instru	cated in the Pri ment	ce Guide Renoi	rting Limit	Check			
	Chine Why we		0000	C144	946 70000			Absorption	Керо	01%				
			ppin	399	040-70001	5	Fiame Atomic	, Absorption		0.0176				
	Air			NIC	OSH 7082		Flame Atomic	: Absorption	4	ug/filter				
	1			NIOSH 7105			Graphite Fu	Imace AA	0.03	B µg/filter				
\sim) 4 /:+	NIOSH 7300 mod				lified	ICP-AES/	ICP-MS	0.5	µg/filter				
(Y)	wipe"	e [*] ASTM ↓ ↓ non ASTM ↓			846-7000	3	Flame Atomic	Absorption	10	µg/wipe				
$\overline{}$	*if no box is checked Wige	*if no box is checked, non-ASTM			6-6010B c	or C	ICP-AES		1.0	µg/wipe				
	TCLP	CLP SW846-1311/700				SM 3111B Flame Atomic Absorption			0 4 mg/L (ppm)					
	SW846-1131/SW846-6				010B or C	ICP-4	\ES	0 1 mg/L (ppm)						
	Soil			SW	846-7000	В	Flame Atomic	Absorption	40 mg	/kg (ppm)				
	SW846-6010				6-6010B c	or C	ICP-4	AES	2 mg	/kg (ppm)				
	Wastewater Lier				3/SW846-	7000B	Flame Atomic	: Absorption	0.4 mg/L (ppm)					
	Preserved with HN	Preserved with HNO ₂ pH < 2			EPA 200 9		Graphite Furnace AA		0.003 mg/L (ppm)					
	Drinking Mater 11-	• · · · · · · · · · · · · · · · · ·		EPA 200 7		Granhite Euroace AA			0.020	mg/L (ppm)				
	Preserved with HN	preservea O₂nH<2	┥	E	PA 200 9	ICP-MS			0.003	mg/L (ppm) mg/L (ppm)	╏─╞┥─			
	TSP/SPM Filter	03pii - L		40 CFR	Part 50 (2	(2013) ICP-MS 1.2 µg/filter								
	Other:													
	Name of Sampler:					Signa	ture of Sam	pler						
	Sample #	L	ocati	on			Volume//	Area	l.	Date/Time S	Sampled			
	4-27-15-001 L17	Stairs (re-	samp	ole)		1 sq ft				4-27-15				
	4-27-15-002 L17	Cable Tra	y (re-	-sample)		1 sq ft				4-27-15				
	4-27-15-003 L17	Light Fixtu	ire (re	e-sample)		1 sq ft				4-27-15				
	4-27-15-004 L18	Stairs (re-	samp	He) Electro	calpure	/1 sq ft				4-27-15				
	4-27-15-005 Blan	nk				n/a				4-27-15				
	Client Sample #'s	001	- 00)5			Т	otal # of Sa	mples:	5				
	Relinquished (Clier	nt):		、	Date:	4/	27/15	Time:		2:45A	ኅ			
	Received (Lab):			7	Date:	4/2	18/15	Time:		9:15 A	x			
	Comments:													

Controlled Document - Lead (Pb) COC - R9- 3/4/2015

Page 1 of 1 pages

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Page 1 Of 1



Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-27-15-001	251502656-000	01 4/27/2015	4/28/2015	144 in²	1000 μg/ft²
	Site: L17 Stairs	(re-sample)			
4-27-15-002	251502656-000	2 4/27/2015	4/28/2015	144 in ²	270 µg/ft ²
	Site: L17 Cable	Tray (re-sam	ple)		
4-27-15-003	251502656-000	03 4/27/2015	4/28/2015	144 in²	130 µg/ft²
	Site: L17 Light	Fixture (re-sar	nple)		
4-27-15-004	251502656-000	04 4/27/2015	4/28/2015	144 in ²	550 µg/ft²
	Site: L18 Electr	ical panel			
4-27-15-005	251502656-000	05 4/27/2015	4/28/2015	n/a	<10 µg/wipe
	Site: Blank				



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/28/2015 12:27:17

EMSL
—
EMBL ANALYTICAL, INC
LABORATORY . PRODUCTS . TRABING
LABORATORY-PRODUCTS-TRADER

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2728

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rouge, LA 70809 PHONE⁻ (225) 755-1920 FAX. (225) 755-1989

Company	Jacobs FOSC Gro	oup (JCV			EMSL-	Bill to: 🖉 Sa	ame	Different Comments**		
Street Bu	Street: Building 1100 Suite 213G				Third Party Billing requires written authorization from third party					
City:Sten	nis Space Center	State/F	rovince: MS	Zip/Posta	Zip/Postal Code: 39529			Country: United States		
Report To	(Name) (b)(A	n l		Telephor	ne #: (b)	(4)		/		
Email Ade	ress: (b)(4)		Fax #: 2	28-688-6456		Ρι	urchase Ord	er (b)(4)	
Project N	me/Number: 6563-2	2015		Please P	rovide Result	s: Fax	🖌 Ema	ail		
U.S. State	Samples Taken: MS	3		CT Samp	les: 🔲 Comm	nercial/Taxab	ole 🗌 R	lesidential/T	ax Exempt	
		Τι	urnaround Time (TA	T) Option	is* - Please (Check				
🔳 3 Ho	ur 🗌 6 Hour	24	Hour 🗌 48 Hour	r 🗌 7:	2 Hour] 96 Hour		Week	2 Week	
	*Analysis completed in accorda			SL's Terms a	nd Conditions lo	cated in the Pr	ice Guide			
	Matrix		Method		Instrument			Reporting Limit		
Chips _	% by wtmg/cm ²	ppm	SW846-7000	B	Flame Atomic	Absorption	<u> </u>	0 01%		
Air	Air		NIOSH 7082	2	Flame Atomic	c Absorption	4 µg/filter			
			NIOSH 7105	i	Graphite Fu	Irnace AA	0.0	3 µg/filter		
		<u> </u>	NIOSH 7300 mod	dified	ICP-AES/	/ICP-MS	0 !	b µg/filter	_╂─╘┹─	
Wipe*	ASTM non ASTM		SW846-7000	В	Flame Atomic	Absorption	10	10 μg/wipe		
*if no box is checked, non-ASTM			SW846-6010B or C		ICP-AES		1 0 µg/wipe			
TCLP	TCLP SW846-1311/7000B/SI			SM 3111B	Flame Atomic	c Absorption	04 r	0 4 mg/L (ppm)		
			SW846-1131/SW846-6	010B or C	B or C ICP-AES		0.1 mg/L (ppm)		_╆────	
Soil			SW846-7000	В	Flame Atomic	c Absorption	40 m	ng/kg (ppm)		
			SW846-6010B o	or C	ICP-AES		2 m	g/kg (ppm)		
Wastewa	ter Unpreserved		SM3111B/SW846-	7000B	Flame Atomic Absorption		0.4 r	mg/L (ppm)	<u>_</u> _ <u>⊢</u>	
Preserve	d with HNO ₃ pH < 2	2 🗖	EPA 200 9		Graphite Fu		0.003	mg/L (ppm	<u> </u>	
Deinking	Motor Uppropon/od		EPA 2007	EPA 200 9			0.003 mg/L (ppm) 0.001 mg/L (ppm)		╧╋╍╞╤╡	
Preserve	d with HNO ₃ pH < 2		EPA 200.8		ICP-MS					
TSP/SPM	Filter		40 CFR Part 50 (2013)		ICP-MS		1.2 µg/filter			
Other:					T					
Name of	Sampler (b)(4)			Signa	ature of Sam	pler:				
Sample	#	Locati	on		Volume/	Area		Date/Tim	e Sampled	
4-29-15-	006 L9 South E	xterior		1 sq ft 4-29-15					÷	
4-29-15-	07 L8.5 North	Exterior		1 sq ft				4-29-15	Omit	
4-29-15-	008 Blank			n/a				4-29-15) disca	
							†			
				 						
Client S	l Imple #'s 🍋 🏯	00		<u>I</u>	Г Т	Total # of S	amples	3	(b)(
Relinqui	shed (Client):			4/2	29/15	Time:		2:25		
Relinquished (Client): (b)(4)			0)(4)	<u>и</u> .	20/15	Time		0: KN	and	
Received (Lab):						4 1 111161.		71.70	v - 1 r~	

Controlled Document --- Lead (Pb) COC ~ R9. 3/4/2015

Page 1 of 1 pages

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Client Sample Description	Lab ID Collected	Analyzed	Area Sampled	Lead Concentration
4-29-15-006	251502728-0001 4/29/2015	4/30/2015	144 in ²	1100 µg/ft²
	Site: L9 South Exterior			
4-29-15-008	251502728-0002 4/29/2015	4/30/2015	n/a	<10 µg/wipe
	Site: Blank			



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/30/2015 13:34:15

EMSL
EMEL ANALYTICAL, INC.

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only)

2727

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rouge, LA 70809 PHONE (225) 755-1920 FAX[•] (225) 755-1989

	Company - Ja	cobs FOSC Grou	up (JCV	/S50)		EMSL-Bill to: Same Different						
	Street Building 1100 Suite 213G						The d Darfy Dilling requires with a subsection from third ast					
	City Stennis S	pace Center	State/P	rovince: MS		Zin/Posta	I Code: 395	29	Country: United States		;	
	Report To /Na	(b)(4)	Cattorr			Telephon	e #:(b)	(4)				
		(h)	(4)			Fax #: 22	28-688-6456) }	Purc	hase Order:	(b)(4	
	Project Name/	Number: 6563-20)15			Please Pr	ovide Resul	ts: Fax	Email			-
	U.S. State San	nples Taken: MS				CT Samp	les: Com	mercial/Taxab		e		
	0.0.00000		Tu	rnaround T	ime (TA	T) Options* - Please Check						_
Ω	🔳 3 Hour	🗌 6 Hour	24	Hour 🗌) 48 Hour	72	2 Hour [96 Hour	1 W	eek 🗌	2 Week	
Pa		*Analysis completed in accordance with EMSL				L's Terms ai	nd Conditions l	ocated in the Pri	ce Guide			
		Matrix		N	Nethod		Instru	ument	Report	ing Limit	Chec	ĸ
	Chips 🗌 % b	y wt. 🌅 mg/cm² 📋	ppm	SW	/846-7000E	3	Flame Atom	ic Absorption	0.0)1%		
	Air			NI	OSH 7082		Flame Atom	IIC Absorption	4 µç	g/filter		
				NI	OSH 7105		Graphite F	urnace AA	0.03 µg/filter			
\sim				NIOSH	7300 mod	lified	ICP-AES	S/ICP-MS	0.5 µ	g/filter		
(#)	Wipe* ASTM non ASTM *if no box is checked, non-ASTM Wipe is assumed			SW	/846-7000E	3	Flame Atom	ic Absorption	10 µg/wipe		_ Ľ	
C				SW84	6-6010B o	ir C	ICP	-AES	1.0 μg/wipe			
	TCLP			SW846-131	1/7000B/S	M 3111B	Flame Atom	IIC Absorption	0.4 mg/L (ppm)			
				SW846-1131/SW846-6010B or C			ICP	-AES	UT mg/L (ppm)			
	Soil			SW	/846-70008	3	Flame Atom	ic Absorption	40 mg/kg (ppm)			
				SW84	16-6010B o	or C	ICP	-AES	2 mg/k	g (ppm)		
				SM3111B/SW846-7		-7000B Flame Atomi		ic Absorption	0 4 mg	mg/L (ppm)		
	Preserved wi	ith HNO ₃ pH < 2	Ы	E	PA 200.9	Grapi				0.003 mg/L (ppm)		
	Drinking Wat			E	PA 200 7		Granhite f	-AES	0.020 m	g/L (ppm)		
	Preserved wi	th HNO₃pH < 2	$ \mathbf{H} $		PA 200 8	B ICP-MS			0 001 mg/L (ppm)			
	TSP/SPM Fill	ter		40 CFR	R Part 50 (2	(2013) ICP-MS			1.2 µ	g/filter		
	Other:											
	Name of San	npler: (b)(4)				Signa	ture of San	npler:				
	Sample #		Locati	on			Volume	/Area	ſ	ate/Time S	Sample	d
•	4-29-15-001	L12 Stairs (re	e-samp	ole)		1 sq ft				4-29-15		
	4-29-15-002	L13 Stairs (r	e-samp	ole)		1 sq ft		_		4-29-15		
	4-29-15-003	L17 Stairs (r	e-samp	ole)		1 sa ft				4-29-15		
-	4-29-15-004	L18 Electrica	ectrical Box (re-sample)			1 sq ft				4-29-15		·
	4-29-15-005	Blank				n/a				4-29-15		
	Client Samp	e #'s 001	- 00	5				Total # of Sa	amples:	5		
	Relinquished	f (Client)			Date:	+12	1/5	Time:		2:25		
	Received (Lab	»):			Date:	4/.	30/15	Time:		1:50 a	n-	
	Comments:											
]											

Controlled Document --- Lead (Pb) COC - R9- 3/4/2015

Page 1 of 1 pages

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Page 1 Of 1



Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Concentration
4-29-15-001	251502727-000	01 4/29/2015	4/30/2015	144 in²	430 µg/ft²
	Site: L12 Stairs	s (re-sample)			
4-29-15-002	251502727-000	02 4/29/2015	4/30/2015	144 in ²	330 μg/ft²
	Site: L13 Stairs	s (re-sample)			
4-29-15-003	251502727-000	03 4/29/2015	4/30/2015	144 in ²	300 µg/ft²
	Site: L17 Stairs	s (re-sample)			
4-29-15-004	251502727-000	04 4/29/2015	4/30/2015	144 in ²	22 µg/ft ²
	Site: L18 Elect	rical Box (re-sa	ample)		
4-29-15-005	251502727-000	05 4/29/2015	4/30/2015	n/a	<10 µg/wipe
	Site: Blank				



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 04/30/2015 13:32:39



					Lead
Client Sample Description	Lab ID 0	Collected	Analyzed	Area Sampled	Concentration
5-4-15-01	251502850-0001 5	5/4/2015	5/5/2015	144 in²	300 µg/ft ²
	Site: B2, Level 8.5	N, Floor			
5-4-15-02	251502850-0002 5	5/4/2015	5/5/2015	0 in ²	<10 µg/wipe
	Site: Blank				



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 05/05/2015 15:09:04



Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

11931 Indust tiplex Suite 100 BATEN Rouge LA EMSLANALYTICAL, INC. 7080 200 ROLFE 130 NORTH CINNAMINSON, NJ 08077 RHONE (800) 220-3675 FAX (856) 220-3675
Fa <u>x: (856) 786-59</u> 74

Company: JACODS Technolog	FOSC	EMSL-Bill to: Same Different						
Street: Rot Wing 1100 RJ	5.13.D	Third Party Billing requires written authorization from third party						
City: Wave And Stranic State/P	Province: M S	Zlp/Posta	al Code: $29 < $	29	Cou	ntrv: 11	<u>enty</u>	
Report To (Name): (b)(4)		Telephone #:						
Email Address (b)(1)	Fax #: Purchase Order (b)(
Project Name/Number: D.J. L-2.4	-0	Please P	rovide Results:	□ Fay				
U.S. State Samples Taken: MS	í U -	CT Samp	les: Commerce	iai/Taxal		eidential/Tay	Evennt	
	Irnaround Time (TA	AT) Options* - Please Check						
🗌 3 Hour 🛛 🕅 6 Hour 🗌 24	Hour 48 Hou	ur 🗌 72 Hour 🔲 96 Hour 🗍 1 Week 🔲 2 Week						
*Analysis complete	d in accordance with EMS	L's Terms a	nd Conditions locate	d in the Pr	ice Guide			
Matrix	Method		Instrume	nt	Report	ing Limit	Check	
Chips 🗍 % by wt. 🗋 mg/cm² 📋 ppm	SW846-7000	B	Flame Atomic Ab	sorption	0.	01%		
Air	NIOSH 7082		Flame Atomic Ab	sorption	4 µ	g/filter		
		Graphite Furna	0.03	µg/filter				
	NIOSH 7300 mod				0.5	ug/filter		
Non ASTM	SW846-7000	B .	Flame Atomic Ab	sorption	10 µ	g/wipe		
"if no box is checked, non-ASTM Wipe is assumed	SW846-6010B c	or C	ICP-AES		1 <i>.</i> 0 μ	ıg/wipe		
TCLP	SW846-1311/7000B/S	SM 3111B	Flame Atomic Ab	sorption	0.4 mg/L (ppm)			
- Coil	SW846-1131/SW846-6	010B or C	ICP-AES	· · ·	0.1 mg	<u>//L (ppm)</u>		
301	SW846-7000	B	Flame Atomic Ab	sorption	40 mg/	kg (ppm)		
· · · · · · · · · · · · · · · · · · ·	SW846-6010B c	or C	ICP-AES		2 mg/l	kg (ppm)		
Wastewater Unpreserved	SM3111B/SW846-	7000B	Flame Atomic Ab	sorption	0.4 mg/L (ppm)			
Preserved with HNO ₃ pH < 2 \Box	EPA 200.9 EPA 200.7	Graphite Furna	ce AA	0.003 mg/L (ppm)		┝┥_┃		
Drinking Water Unpreserved	EPA 200.9		Graphite Furnace AA		0.020 mg/L (ppm)			
Preserved with HNO ₃ pH < 2 \Box	EPA 200.8		ICP-MS		0.001 mg/L (ppm)		╌╌╞╧╡╌╌┤	
TSP/SPM Filter	40 CFR Part 50 (2	2013)	3) ICP-MS			1.2 µg/filter		
Other:						·		
Name of Sampler: (b)(4	.)	Signa	ture of Sample	r:				
Sample # Location	on		Volume/Are	a		Jate/ I ime S	ampled	
54-15-01 B2. Level 8.5	N FLOOR		144 /12			5/4/18	-	
Ell PAR PLANE	l					CHI		
DUARIA			V IA		<u> </u>	<u>5/4//</u>	Š	
				·		· · ·		
					· • • •	-		
Client Sample #'s			Tota	# of Sa	mples:	<u> </u>		
Relinquished (Client):	b)(4) Date	5/4	Ave	Time		⊥		
President (Lak)	Date.		//3	time,		·		
Comments:	Date:			Time:		·		
				·· · -				

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Page 1 of ____ pages

	ANALYTICAL REQUEST FORM						
(ALS)	RESULTS	tatus Required - ADDITIONAL CHARGE					
	CONTACT AL	S LABORATORY GROUP PRIOR TO SENDING SAMPLES					
Date <u>4/16/15</u> Purchase Order No. <u>29242</u> Company Name <u>Jacobs (Stennis Spac</u> Address Building 1100 Suite 2122	26 æ Center)	Billing Address (if different)					
Stennis Space Center MS Cay Person to Contact (D)(4)	39529 ^{Zip}						
Email Address	···· · ···	Quote No. 5017, 4946					
Telephone (b)(4)		Sampling Site Stennis Space Center					
Fax Telephone (228) 688-6456		Date/Time of Collection _4/10/2015 / 0900					

Use Only	Client Sample Number	Media Type	Sample Volume	ANALYSES REQUESTED IN MAN					
0	001	MCE	395	NIOSH 7300 med /					
Of	002	MCE	395	NIOSH 7300 mod. Lead, Cadmium and Chromium					
03	003	Bulk	N/A	SW601B and SW7199 Lead. Codmins of					
04	004	MCE	BLANK	NOSH 7300 mod Load C					
				ince. Leva, Czamium, Chromium					
			· · · ·						

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

CHAIN OF CUSTODY

Relinquishe (Signature) (b)(4) Relinquishe	Date / Time 4/20/15 230	(- (-		2912115
(Signature)	Date / Time	(U (5	····	
ALS ENVIRONMENTAL 4388 Glendale Milford Ro	ad / Cincinnati,	STD / PRTY MAIL UPS CLIENT DROP BOX CFEDEX ALS COURIER OTHER:	COOLER WETICE ICE COOLER WETICE ICE CUSTODY SEALS: NO COOLER PACKAGE SA	NONE PACK DNE 33-5347 AMPLES



28-Apr-2015

Jacobs Technology, Inc. Stennis Space Center Building 1100, Suite 213G , MS 39529

Tel: (b)(4) Fax: (228) 688-6456

Re: Stennis Space Center

Work Order: (b)(4)

Dear (b)(

ALS Environmental received 4 samples on 21-Apr-2015 11:10 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,



ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347 ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

www.alsglobal.com

PIGHT SOLUTIONS PIGHT PARTNER

ALS Environmental

Client:Jacobs Technology, Inc.Project:Stennis Space CenterWork Order:(b)(4)

Work Order Sample Summary

Lab Samp ID	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	Collection Date	Date Received	Hold
1504707-01	001	Air		4/10/2015 09:00	4/21/2015 11:10	
1504707-02	002	Air		4/10/2015 09:00	4/21/2015 11:10	
1504707-03	003	Bulk		4/10/2015 09:00	4/21/2015 11:10	
1504707-04	004	Air		4/10/2015 09:00	4/21/2015 11:10	

Date: 28-Apr-15

ALS Environmental Date: 28-Apr-15 Client: Jacobs Technology, Inc.

 Client:
 Jacobs Technology, Inc

 Project:
 Stennis Space Center

 Work Order:
 (h)(4)

Case Narrative

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

Client: Project:	Jacobs Technology, Inc. Steppis Space Center			Work Orde	er: (b)(4)				
i iojeci.	Stellins Space Center		Analytical Results						
Lab ID:	1504707-01A		Collection Date: 4/10/2015 9:00:00 AM						
Client Sample ID	: 001			Matrix: AIR					
Analyses									
METALS BY NIOSH 7300 MOD.			Method: N7300	Air Volume (L): 395	Analyst: SRL				
Date Analyzed: 4/2	22/2015 16:42	µg/sample	Reporting Limit µg/sample	mg/m3					
Cadmium		ND	0.10	<0.00025					
Chromium		ND	1.0	<0.0025					
Lead		22	1.0	0.055					
Lab ID:	1504707-02A		С	ollection Date: 4/10/2015	0:00:00 AM				
Client Sample ID	: 002			Matrix: AIR					
Analyses									
METALS BY NIOS	SH 7300 MOD.		Method: N7300	Air Volume (L): 395	Analyst: SRL				
Date Analyzed: 4/2	22/2015 16:45		Reporting Limit						
		µg/sample	µg/sample	mg/m3					
Cadmium		ND	0.10	<0.00025					
Chromium		ND	1.0	<0.0025					

1.0

0.016

6.2

AR Page 1 of 1

Date: 28-Apr-15

Lead

ALS Environmental

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ALS Environmental

Client: Jacobs Technology, Inc. **Project:** Stennis Space Center Work Order: Sample ID: 003 Lab ID: 1504707-03 Collection Date: 4/10/2015 09:00 AM Matrix: BULK Report Dilution Analyses Result Limit **Date Analyzed** Qual Units Factor **HEXAVALENT CHROMIUM BY SW846 7199** SW7199 Prep Date: 4/21/2015 Analyst: MHW 4/22/2015 03:03 PM Chromium, Hexavalent 11 2.4 mg/Kg 1 **METALS BY ICP** SW6010B Prep Date: 4/24/2015 Analyst: VAW Cadmium 2.5 0.97 mg/Kg 4/28/2015 11:47 AM 1 Chromium 1 4/28/2015 11:47 AM 120 1.9 mg/Kg Lead 350,000 490 mg/Kg 100 4/28/2015 01:37 PM

Client: Project:	Jacobs Technology, Inc. Stennis Space Center			Work Ore Analytica	^{der:} (b)(4)			
Lab ID: Client Sample I	1504707-04A D: 004		Collection Date: 4/10/2015 9:00:00 AM Matrix: AIR					
Analyses								
METALS BY NIC Date Analyzed: 4/	DSH 7300 MOD. /22/2015 16:48		Method: N7300	Air Volume (L): 0	Analyst: SRL			
		µg/sample	µg/sample	mg/m3				
Cadmium		ND	0.10	NA				
Chromium		ND	1.0	NA				

1.0

NA

ND

Lead

ALS Environmental

Date: 28-Apr-15

ALS Environmental Client: Jacobs Technology, Inc. Work Order: (h)(d)

QC BATCH REPORT

Project: Stennis Space Center

Batch ID: 28	8009	Instrument ID: HI	PLC3		Metho	d: SW7199						
MBLK Client ID:	Sample ID:	MBLK-28009-2800	19 Run II	: HPLC3	_150422A	L	Inits: mg/Kg qNo: 10423) 53	Analysis Prep Date: 4/21	Date: 4/2 /2015	2/2015 11:2 DF: 1	23 AM
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, H	lexavalent		U	0.25								
LCS Client ID:	Sample ID:	LCS-28009-28009	Run II	E HPLC3	_150422A	L See	Inits: mg/Kg qNo: 10423	9 51	Analysis Prep Date: 4/21	Date: 4/2 /2015	2/2015 10:8 DF: 1	57 AM
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, H	lexavalent		47.27	0.25	50	0	94.5	83-115	0			-
LCSD Client ID:	Sample ID:	LCSD-28009-2800	9 Run II	E HPLC3	_150422A	L See	Inits: mg/Kg qNo: 10423) 52	Analysis Prep Date: 4/21	Date: 4/2 /2015	2/2015 11:1 DF: 1	10 AM
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, H	lexavalent		47.32	0.25	50	0	94.6	70-130	47.27	0.106	20	
MS Client ID:	Sample ID:	: 1504651-01A MS Run ID: HPLC3_150422A		Units: mg/Kg SeqNo: 1042370			Analysis Prep Date: 4/21	Date: 4/2 /2015	2/2015 03:2 DF: 1	28 PM		
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, H	lexavalent		439.2	2.4	470.8	0.396	93.2	70-130	0			
MSD Client ID:	Sample ID:	1504651-01A MSD	Run IE	E HPLC3	_150422A	Units: mg/Kg SeqNo: 1042371			Analysis Date: 4/22/2015 04:07 PM Prep Date: 4/21/2015 DF: 1			
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, H	lexavalent		440.4	2.4	478.9	0.396	91.9	70-130	439.2	0.274	20	-
DUP Client ID:	Sample ID:	1504649-01A DUP	Run IE	E HPLC3	_150422A	L See	Inits: mg/Kg qNo: 10423	9 55	Analysis Prep Date: 4/21	Date: 4/2 /2015	2/2015 11:4 DF: 1	49 AM
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, H	lexavalent		ND	2.5	0	0	0		0.5929	0	1	
DUP Client ID:	Sample ID:	1504650-01A DUP	Run IE	E HPLC3	_150422A	L Sec	Inits: mg/Kg qNo: 10423	9 57	Analysis Prep Date: 4/21	Date: 4/2 /2015	2/2015 12:1 DF: 1	15 PM
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, H	lexavalent		ND	2.4	0	0	0		0.6679	0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Jacobs Technology, Inc.

QC BATCH REPORT

Project: Stennis Space Center

Work Order:

Batch ID: 28009 Instrument ID: HPLC3 Method: SW7199

DUP	Sample ID:	1504651-01A DUP				Inits: ma/Ka		Analysis	Date: 1/22	0/2015 12.4	1 DM	
Client ID:			Run ID: HPLC	3_150422A	Sec	qNo: 10423	59	Prep Date: 4/21	/2015	DF: 1		
Analyte		Resi	ult PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium,	Hexavalent		U 2.4	0	0	0		0.396	0			
DUP	Sample ID [.]	1504651-02A DUP						A se a la sei a l				
Client ID:	00p.0 121		Run ID: HPLC3_150422A			Units: mg/Kg SegNo: 1042361			Analysis Date: 4/22/2015 01:32 PM Prep Date: 4/21/2015 DF: 1			
					SPK Ref		Control	RPD Ref		RPD		
Analyte		Resi	ult PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual	
Chromium,	Hexavalent	Ν	ID 2.6	0	0	0		2.062	0			
DUP Sample ID: 1504651-03A DUP Units: mg/Kg Analysis Date: 4/22/2015						2/2015 01:5	58 PM					
Client ID:			Run ID: HPLC	3_150422A	Sec	qNo: 10423	63	Prep Date: 4/21	/2015	DF: 1		
Analyte		Resi	ult PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium,	Hexavalent	Ν	ID 2.5	0	0	0		0.7937	0			
DUP	Sample ID:	1504652-01A DUP		U	Inits: mg/Kg	I	Analysis I	Date: 4/22	2/2015 02:2	4 PM		
Client ID:			Run ID: HPLC	3_150422A	Sec	qNo: 10423	65	Prep Date: 4/21	/2015	DF: 1		
Analyte		Resi	ult PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium,	Hexavalent		U 2.2	0	0	0		0.3873	0			
DUP	Sample ID:	1504652-02A DUP			U	Inits: ma/Ka	1	Analysis I	Date: 4/22	2/2015 02:5	50 PM	
Client ID:			Run ID: HPLC	3_150422A	Sec	No: 10423	, 67	Prep Date: 4/21	/2015	DF: 1		
Analyte		Resi	ult PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium,	Hexavalent	276	.8 2.5	0	0	0		275.8	0.358			
DUP	Sample ID:	1504707-03A DUP			U	Inits: mg/Kg	1	Analysis I	Date: 4/22	2/2015 03:1	5 PM	
Client ID: (003		Run ID: HPLC	3_150422A	Sec	No: 10423	69	Prep Date: 4/21	/2015	DF: 1		
Analyte		Resi	ult PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium,	Hexavalent	11.1	12 2.4	0	0	0		10.63	4.46			
The follow	ing samples w	ere analyzed in this bat	ch:	1504707-03A								

Jacobs Technology, Inc.

Client: Work Order:

QC BATCH REPORT

Project: Batch ID: 28003 Stennis Space Center

Instrument ID: ICP1

Method: N7300

MBLK	Sample ID: MBLK-28003-28	003			Units: µg/sample			Analysis Date: 4/22/2015 03:17 PM				
Client ID:		Run I	D: ICP1_1	50422A	Sec	No: 10431	09	Prep Date: 4/22	2/2015	5 DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium		U	0.10									
Chromium		ND	1.0									
Lead		U	1.0									
LCS	Sample ID: LCS-28003-28003				Units: ug/sample			Analysis	Analysis Date: 4/22/2015 03:20 PM			
Client ID:		Run ID: ICP1_150422A			SeqNo: 1043110			Prep Date: 4/22	DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium		19.75	0.10	20	0	98.8	80-120	0				
Chromium		20.12	1.0	20	0	101	80-120	0				
Lead		20.46	1.0	20	0	102	80-120	0				
LCSD	Sample ID: LCSD-28003-28	003			U	nits: uɑ/saı	nple	Analvsis	Date: 4/22	/2015 03:	23 PM	
Client ID:		Run I	D: ICP1_1	50422A	Sec	No: 10431	11	Prep Date: 4/22	2/2015	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium		20.16	0.10	20	0	101	80-120	19.75	2.03	20		
Chromium		20.54	1.0	20	0	103	80-120	20.12	2.07	20		
Lead		20.94	1.0	20	0	105	80-120	20.46	2.32	20		
The follow i	ng samples were analyzed in t	his batch:	15	504707-01A	1504	707-02A	15	04707-04A				

1504707-04A

ALS Environmental

Client:	Jacobs Technology, Inc.	OUALIFIERS.
Project:	Stennis Space Center	ACRONYMS UNITS
WorkOrder:	(b)(4)	
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the	Reporting Limit
Е	Value above quantitation range	
Н	Analyzed outside of Holding Time	
J	Analyte detected below quantitation limit	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
Ο	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL	
Acronym	Description	
DUP	Method Duplicate	
Е	EPA Method	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitaion Limit	
SDL	Sample Detection Limit	
SW	SW-846 Method	
<u>Units Reporte</u>	d Description	
µg/sam	ple	

mg/Kg

ALS Environmental

Sample Receipt Checklist

		Date/Time Re	eceived: <u>21-Apr-1</u>	<u>5 11:10</u>
Work Order: 1504707		Received by:	<u>SNH</u>	
Checklist completed by: (b)(4) eSignature	21-Apr-15 Date	Reviewed by:	(b)(4) eSignature	22-Apr-15 Date
Matrices: Carrier name: <u>FedEx</u>				
Shipping container/cooler in good condition?	Yes 🗹	No 🗌	Not Present	
Custody seals intact on shipping container/cooler?	Yes 🗌	No 🗌	Not Present	
Custody seals intact on sample bottles?	Yes	No 🗌	Not Present	
Chain of custody present?	Yes 🗹	No		
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌		
Samples in proper container/bottle?	Yes 🗹	No 🗌		
Sample containers intact?	Yes 🗹	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌		
All samples received within holding time?	Yes 🗹	No 🗌		
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌		
Temperature(s)/Thermometer(s):				
Cooler(s)/Kit(s):				
Water - VOA vials have zero headspace?	Yes	No 🗌 N	No VOA vials submitted	\checkmark
Water - pH acceptable upon receipt?	Yes 🗌	No 🗌 N	N/A	
pH adjusted? pH adjusted by:	Yes 🗌	No 🗌 N	N/A 🔽	
Login Notes:				
		·		

Client Contacted:	Date Contacted:	Person Contacted:
Contacted By:	Regarding:	
Comments:		
CorrectiveAction:		

SRC Page 1 of 1

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2984

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rou	ge, LA 70809
PHONE.	(225) 755-1920
FAX:	(225) 755-1989

Company : Jacobs (Stennis S	pace Ce	nter)	EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**						
Street: Building 1100 Suite 21	3G		Third Party Billing requires written authorization from third party						
City:Stennis Space Center	State/F	vrovince: MS	Zip/Posta	al Code: 39529		Coun	try: United	d States	
Report To (Name): (b)(4)			Telephor	ne #: (b)(4)					
Email Address (b)	(4)		Fax #:			Purch	nase Order	(b)(4)	
Project Name/Number:			Please P	rovide Results:	Fax	🖌 Email			
U.S. State Samples Taken: MS	<i>,</i>		CT Samp	les: 🗌 Commerc	cial/Taxak	ole 🗌 Resi	dential/Tax	k Exempt	
		Irnaround Time (T/	AT) Option	is* - Please Cho	eck				
🗌 3 Hour 🛛 🗍 6 Hour 🏌	<u> 24</u>	Hour 🗌 48 Ηοι	ır 🗌 7;	2 Hour 🛛 🤤 9	6 Hour	🗌 1 We	ek 🗌 🗌	2 Week	
*Analys	i s complete	d in accordance with EM	ISL's Terms a	nd Conditions locate	d in the Pr	ice Guide			
Matrix		Methoa		Instrume	ent	Reporti	ng Limit	Check	
Chips	ррт	SW846-7000)B	Flame Atomic Ab	sorption	0.0	1%		
Air		NIOSH 708	2	Flame Atomic At	sorption	4 µg.	/filter		
	NIOSH 710	15	Graphite Furna	ice AA	0.03 µ	g/filter			
	NIOSH 7300 mc	odified	ICP-AES/ICP	·-MS	0.5 µç	g/filter			
Wipe* ASTM non ASTM	\checkmark	SW846-700	ЭВ	Flame Atomic At	sorption	10 µg	/wipe		
*if no box is checked, non-ASTM Wipe is assumed		SW846-6010B	or C	ICP-AES	;	1.0 µg	j/wipe		
TCLP	·····	SW846-1311/7000B/	/SM 3111B	Flame Atomic Ab	sorption	0.4 mg/	L (ppm)		
		SW846-1131/SW846-6010B or C		ICP-AES		0.1 mg/L (ppm)			
Soil		SW846-7000B		Flame Atomic Ab	sorption	40 mg/k	g (ppm)		
		SW846-6010B or C		ICP-AES	;	2 mg/kg	g (ppm)		
Wastewater Uppreserved		SM3111B/SW846	i-7000B	7000B Flame Atomic Absorption Graphite Fumace AA		0.4 mg/	L (ppm)		
Preserved with HNO ₃ pH < 2	H	EPA 200.9				0.003 mg	1/L (ppm)		
		EPA 200.7		ICP-AES		0.020 mg	<u>//L (ppm)</u>	<mark><mark>╞╴╞╡</mark>╶╎</mark>	
Drinking Water Unpreserved	┝┥	EPA 200.9	2	Graphite Furnace AA		0.003 mg	/L (ppm)	╏─┝┥─╎	
TSP/SPM Filter		40 CFR Part 50	(2013) ICP-MS			12 10	/filter	╏╴┝═┥	
Other		40 011(1 01 00	(2010)			- μ <u>ε</u>	#Inter	┢╴╞╡╶┤	
Name of Semplor (b)			Signe	L	I	<u> </u>			
Name of Sampler, On-			T Signa	Volume/Arc	r: 	<u> </u>	ate/Time {	Sampled	
				- VIUIIIC/AI	;a			zampieu	
	spoor					5/6/15			
						<u> </u>			
				Tot	-1# of 6,		4		
Cilent Sample # s			21-		<u>11 # 01 56</u>		ا هـ د ۲ د		
Relinquished (Client)		(4) <u>ate:</u>			Time:	C	-30		
		ate	51	08/15	Time:	11	5:20 A	X	
Received (Lab):									

Controlled Document --- Lead (Pb) COC - R9- 3/4/2015

Page 1 of 1 pages

fig. Lehy



Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

				Lead
Client Sample Description	Lab ID	Collected	Analyzed	Concentration
050615-002	251502984-000	1 5/6/2015	5/11/2015	7.7 % wt
	Site: Crane near	r spool		



*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. 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. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 05/11/2015 11:36:46



EMSL Order: CustomerID: CustomerPO: ProjectID:

TECH55

Attn:

Technical Environmental Service, Inc. **PO Box 1601** Marrero, LA 70073

Phone: Fax: Received: Collected:

(504) 348-3043 07/08/15 10:10 AM 7/7/2015

(504) 348-3098

Project: IH-1150-15262

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
0715-01	251504433-000	01 7/7/2015	7/8/2015	144 in²	46 μg/ft ²
	Site: Supply St	torage Area			



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/tt2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/lt² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/08/2015 16:13:58

EMSL	EMSL Analytical, Inc. 11931 industriplex, Suite 100, Baton Rouge, L Phone/Fax: (225) 755-1920 / (225) 755-1989 http://www.EMSL.com batonrou	.A 70809 Igelab@emsl.com	EMSL Order: CustomerID: CustomerPO: ProjectID:	TECH55
Attn: (b)(4)	Phone:	(504) 348-3098	
Technica	I Environmental Service, Inc.	Fax:	(504) 348-3043	
PO Box 1	601	Received:	07/15/15 10:45 AM	
Marrero, I	LA 70073	Collected:	7/14/2015	

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID Co	ollected	Analyzed	Volume	Lead Concentration
001	251504602-0001 7/1	14/2015	7/16/2015	824.6 L	<4.9 µg/m³
	Site: Level 16 North				
002	251504602-0002 7/1	14/2015	7/16/2015	887.25 L	<4.5 μg/m³
	Site: Level 10.5 Sout	th			



*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter, ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 5D µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted, "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/16/2015 10:02:29

EMSL.	EMSL Analytical, 11931 Industriplex, Suite 100, Phone/Fax: (225) 755-1920 ; http://www.EMSL.com	Inc. Baton Rouge, LA 70809 / (225) 755-1989 batonroucelab@emsl	.com		EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55
Attn: (b)(4 Technical PO Box 1 Marrero, I	l) Environmental Serv 601 LA 70073	ice, Inc.	Phone: Fax: Received: Collected:	(504) 348-3098 (504) 348-3043 07/15/15 10:45 # 7/14/2015	AM	

Client Sample Description	Lab ID Collected	Analyzed	Area Sampled	Lead Concentration
0030714	251504602-0003 7/14/2015	7/15/2015	144 in ²	13 µg/ft²
	Site: Supply Storage Area			
0040714	251504602-0004 7/14/2015	7/15/2015	144 in ²	<10 µg/ft²
	Site: Clean Room			



Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/t2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in ug/ft which is dependent on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/16/2015 10:02:29



Lead ((Pb)	Chain	of (Custody
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EMSL Order ID (Lab Use Only):

4846

EMSL Analytical, Inc. 11931 Industriplex Boulevard.

Baton Rou	ige, LA 70809
PHONE:	(225) 755-1920
FAX:	(225) 755-1989

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				ama 🔽 Different				
Company Jacobs (Stennis Space Cer	nter)		If Bill to is Different note ins	ame I Dinarent				
Street: Building 1100 Suite 213G	Street; Building 1100 Suite 213G			Third Party Billing requires written authorization from third party				
City Stennis Space Center State/P	City Stennis Space Center State/Province: MS			Country: United	d States			
Report To (Name) (b)(4)		Telephor	e # (b)(4)					
Email Address (b)(4)		Fax #:		Purchase Order	(b)(4)			
Project Name/Number, 6618-2015	Project Name/Number, 6618-2015			🖌 Email				
US State Samples Taken: MS		CT Samp	ies: 🔲 Commercial/Taxa	ble 🔲 Residential/Tax	Exempt			
	Irnaround Time (TA	T) Option	s* - Please Check					
1 3 Hour 6 Hour 47 💷 24	Hour 48 Hour	r 🛄 7: SL's Terms a	P Hour 96 Hour	1 Week nce Guide	2 Week			
Matrix	Method		Instrument	Reporting Limit	Check			
Chips 🦳 % by wt. 🗌 mg/cm² 🔄 ppm	SW846-7000	8	Flame Alomic Absorption	0.01%				
Air	NIOSH 7082	!	Flame Atomic Absorption	4 µg/filter				
′	NIOSH 7105		Graphite Furnace AA	0.03 µg/filter				
_	NIO\$H 7300 mod	lified	ICP-AE\$/ICP-MS	0.5 µg/filter				
Wipe* ASTM non ASTM O	SW846-7000	В	Flame Alomic Absorption	: 10 µg/wipe				
Wipe is assumed	SW846-60108 (ж¢	ICP-AES	1 0 µg/wipe				
TCLP	\$W846-1311/7000B/S	SM 3111B Flame Atomic Absorption 3010B or C ICP-AES		0.4 mg/L (ppm)				
C-4	SW846-1131/SW846-6			0.1 mg/L (ppm)				
501	SW846-7000	8	Flame Atomic Absorption	40 mg/kg (ppm)				
	SW846-6010B c	or C ICP-AES 7000B Flame Atomic Absorption		2 mg/kg (ppm)				
Wastewater Unpreserved	SM3111B/SW846-			0.4 mg/L (ppm)				
Preserved with $HNO_3 pH < 2$	EPA 200.9 EPA 200 7	i	Graphite Furnace AA ICP-AES	0.003 mg/L (ppm) 0.020 mg/L (ppm)				
Drinking Water Unpreserved	EPA 200.9		Graphite Furnace AA	0.003 mg/L (ppm)				
Preserved with HNO ₃ pH < 2	EPA 200.8		ICP-M5	0.001 mg/L (ppm)	╞╌┓┈			
Other	40 CFR Part 50 (2	(013)	ICP-MS	1.2 µg/miter				
Normal Annual (b)(4)		6	turn of Compton					
Sample # Locate	00	j sigila	Volume/Area		sampled			
001 9th floor outside so	uth (wipe)	1 squa	re foot	7/16/15				
002 NACE Inspector AJ	002 NACE Inspector A.I (air)			7/16/15				
003 Blank (wipe)	N/A		7/16/15					
004 Blank (air)		N/A		7/16/15				
Client Sample #'s			Total # of S	amples 4				
Relinguished (Client) (b)(4	4) Date	17/2	ג/ון Time.	(JUD				
Received (Lab).	Date:	110	3/15 Time	10:00 0	л			
Comments - Billic Debarah Ballar Hulleing 1100 Sute 1017C, Stendis Sp.	ace Center MS 39529 deborañ a	.holler@nase.go	,					

Controlled Doctime (Lower (PoinCOC) 198-324/2015

Page 1 of 1 pages

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Page 1 Of 1



Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

					Lead
Client Sample Description	Lab ID	Collected	Analyzed	Volume	Concentration
002	251504846-0003		7/23/2015	50 L	<80 µg/m³
	Site: NACE Inspe	ector AJ			
004	251504846-0004		7/23/2015	n/a	<4.0 µg/filter
	Site: Blank				



*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m3. OSHA action level - 30 µg/m3. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those thems tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/23/2015 16:10:57



					Lead
Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Concentration
001	251504846-000	1	7/23/2015	144 in ²	1100 µg/ft²
	Site: 9th floor ou	utside south			
003	251504846-000	2	7/23/2015	n/a	<10 µg/wipe
	Site: Blank				



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/23/2015 16:10:57

EMEL	EMSL Analytical, Inc. 11931 Industriplex, Suite 100, Baton Rouge, LA 708 Phone/Fax: (225) 755-1920 / (225) 755-1989 http://www.EMSL.com batonrougelab	09 @emsl.com	EMSL Custor Custor Projec	Order: A nerID: TEC nerPO: tID:	3)(4) CH55
Attn: (b)(4)		Phone:	(504) 348-3098		
Technica	I Environmental Service, Inc.	Fax:	(504) 348-3043		
PO Box 1	601	Received:	07/20/15 9:50 AM		
Marrero,	LA 70073	Collected:	7/17/2015	22	

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration
0010717	251504731-0001	7/17/2015	7/20/2015	886 L	<4.5 µg/m³
	Site: Level 13 Nor	th			
0020717	251504731-0002	7/17/2015	7/20/2015	863.85 L	 <4.6 µg/m³
	Site: Level 10.5 Sc	outh			



*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless oft-erwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those item; s tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP. unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/21/2015 10:41:38

EMSL	EMSL Analytical, Ir 11931 Industriplex, Suite 100, Ba Phone/Fax: (225) 755-1920 / (2 http://www.EMSL.com	NC. Iton Rouge, LA 70809 125) 755-1989 batonrougelab@emsl.	com	-14M	EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55
Attn: (b)(4) Technica	l Environmental Servic	e, Inc.	Phone: Fax: Received:	(504) 348-3098 (504) 348-3043 07/20/15 9:50 AN	л	
PO Box 1 Marrero, I	601 LA 70073		Collected:	7/17/2015		

				Lead
Client Sample Description	Lab ID Collected	Analyzed	Area Sampled	Concentration
0030717	251504731-0003 7/17/2015	7/21/2015	144 in²	18 μg/ft²
	Site: Clean Room			
0040717	251504731-0004 7/17/2015	7/21/2015	144 in²	20 µg/ft²
	Site: Supply Storage			



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/fL2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft which is dependent on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results Jignifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/21/2015 10:41:38

	EMBL	EMSL Analytical, Inc 11931 Industriplex, Suite 100, Baton Phone/Fax (225) 755-1920 / (225) http://www.EMSL.com	n Rouge, LA 70809) 755-1989 batonrouoelab@emsl.co			EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55	
Attn:	(b)(4) Technical PO Box 16 Marrero, L	Environmental Service, 601 A 70073	, Inc.	Phone: Fax: Received: Collected:	(504) 348-3098 (504) 348-3043 07/22/15 3:10 P№	Л		
Projec	:t: IH 1150 152	62						

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration
001	251504832-0001		7/23/2015	884 L	<4.5 μg/m³
	Site: Level 15				
002	251504832-0002	•	7/23/2015	874 L	<4.6 μg/m³
	Site: Level 10.5				



*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter: ug/filter: ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition: unless otherwise noted, "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/23/2015 16:09:24

	EMSL	EMSL Analytical, 11931 Industriplex, Suite 100, 5 Phone/Fax: (225) 755-1920 / http://www.EMSL.com	InC. Baton Rouge, LA 70809 (225) 755-1989 <u>batonrougelab@emsi</u>	<u>com</u>		EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55
Attn:	(b)(4) Technica PO Box 1 Marrero, I	l Environmental Servi 601 LA 70073	ce, Inc.	Phone: Fax: Received: Collected:	(504) 348-3098 (504) 348-3043 07/22/15 3:10 P№	Л	
Proje	ct: IH 1150 15	262					

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
003	251504832-000	3	7/23/2015	144 in²	21 µg/ft²
	Site: Storage R	oom			
004	251504832-000)4	7/23/2015	144 in ²	17 µg/ft²
	Site: Clean Roo	m			



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/kipe = ug/ki2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ff which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/23/2015 16:09:24

4	amsl	EMSL Analytical, 11931 Industriplex, Suite 100, Phone/Fax: (225) 755-1920 / http://www.EMSL.com	InC. Baton Rouge, LA 70809 (225) 755-1989 <u>batonrougelab@emsl.</u>	com	5 III G	EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55
Attn:	(b)(4)			Phone:	(504) 348-3098		
	Technical	Environmental Servi	ce. Inc.	Fax:	(504) 348-3043		
	PO Box 1601			Received:	07/29/15 10:50 A	M	
	Marrero, LA 70073			Collected:	7/28/2015		144.00
Projec	t: IH 1550-152	262					

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration
001	251504993-0001	7/28/2015	7/29/2015	980 L	<4.1 µg/m³
	Site: Level 10.5 S	South			
002	251504993-0002	7/28/2015	7/29/2015	982 L	<4.1 µg/m³
	Site: Level 14 No	rth			



*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m². OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to thore items tested. Samples received in good condition unless otherwise noted. "«" (less than' result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 07/30/2015 09:47:48

EMSL	EMSL Analytical, Inc. 11931 Industriplex, Suite 100, Baton Rou Phone/Fax: (225) 755-1920 / (225) 755- http://www.EMSL.com bat	ige, LA 70809 1989 onrougelab@emsl.com	EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55
Attn: (b)(4		Phone:	(504) 348-3098	
Technic	al Environmental Service, Inc	Fax:	(504) 348-3043	
PO Box	1601	Received:	07/29/15 10:50 AM	,
Marrero	, LA 70073	Collected:	7/28/2015	
Project: IH 1550.	15262			

Client Sample Description	Lab ID C	Collected	Analyzed	Area Sampled	 Lead Concentration
003	251504993-0003 7	/28/2015	7/30/2015	144 in²	38 µg/ft²
	Site: Clean Room				
004	251504993-0004 7	/28/2015	7/30/2015	144 in ²	 44 µg/ft ²
	Site: Storage Area				



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft2 which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845,03

Initial report from 07/30/2015 09:47:48


CERTIFICATE OF ANALYSIS

Client:	Jacobs Technology	Report Date:	8/18/2015
	Bldg 1100; Suite 213G	Report Number:	371367
	Stennis Space Ctr. MS 39529	Project:	
		Project No.:	6618-2015

LEAD WIPE SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u> 5712763	<u>Client No.</u> 001	Location / Description 13th Flr Clean Rm Entrance	Area Sampled <u>(ft²)</u> 1.00	Concentration (<u>µg/ft²)</u> 30.0
5712764	002	13th Flr Equipment Rm	1.00	25.0
5712765	003	Blank	Blank	<10.0 ug

Accreditation:	NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP) AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021
Analysis Method:	EPA SW846-3050B:7000B "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges And Sediments By AAS"
Comments: F N S S E C V V	Regulatory limit varies by surface location (EPA/HUD guidelines). Unless otherwise stated, results assume one square foot sampled. Method requires submittal of blanks. IATL assumes that all of the sampling methods and data upon which these results are based, have been accurately upplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest itandard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD= 0.2 ppm MDL=4.4 μ g/ft ² RL=10.0 μ g/ft ² (based upon 1.0 square foot ampled). The EPA 403 Final Rule (40 CFR 745.63) requires that all wipe samples of settled dust shall be collected using a wipe that meets ASTM E1792. Sample results are not corrected for contamination by field or analystical blanks. This confidential report relates only to those item(s) tested and loss not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.
Date Received	<u>8/17/2015</u> (b)(4)
Date Analyzed Analyst:	: <u>8/18/2015</u> (b)(4) (b)(4)



Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only):

EMSL Analytical, Inc. 11931 Industriplex Boulevard,

Baton Rouge, LA 70809 PHONE: (225) 755-1920 FAX: (225) 755-1989

Company : Jacobs (Stennis Space Center)			EMSL-Bill to: Same I Different If Bill to is Different note instructions in Comments**						
Street: Building 1100 Suite 213G			Third Party Billing requires written authorization from third party						
City:Stennis S	y:Stennis Space Center State/Province: MS ;			Zip/Postal Code: 39529 Country: United States					
Report To (Na	me) (b)(4)			Telephor	ne #: (h)(4	0		· · · · · · · · · · · · · · · · · · ·	
Email Address	s: (b)(4)		Fax #:			P	urchase Order	(b)(4)
Project Name	Number: 6618-20)15		Please P	rovide Results	Fax		ail	
U.S. State San	nples Taken: MS			CT Samn				Regidential/Tay	Evennet
		Tu	rnaround Time (TA	T) Option	s* - Please Che			Residential/Tax	Exempt
🗌 3 Hour	🗌 6 Hour	24	Hour 48 Hour		2 Hour 9	6 Hour		I Week	2 Week
	*Analysis	complete	d in accordance with EMS	L's Terms a	nd Conditions locate	ed in the Pr	ice Guid	e	
	Matrix		Method		Instrume	nt	Rep	orting Limit	Check
Chips% b	y wtmg/cm²	ppm	SW846-7000E	3	Flame Atomic Ab	sorption		0.01%	
Air			NIOSH 7082		Flame Atomic Ab	sorption	4	4 µg/filter	
			NIOSH 7105		Graphite Furna	ice AA	0.	03 µg/filter	
\Alime*			NIOSH 7300 mod	lified	ICP-AES/ICF	P-MS	0	5 µg/filter	
wipe	ASTM non ASTM	Y	SW846-7000E	3	Flame Atomic Ab	sorption	1	0 µg/wipe	\Box
*if no box is	Checked, non-ASTM Wipe is assumed		SW846-6010B o	r C	ICP-AES		1.	0 µg/wipe	
TCLP			SW846-1311/7000B/S	M 3111B	Flame Atomic Ab	sorption	0.4	mg/L (ppm)	
C all			SW846-1131/SW846-6	010B or C	ICP-AES		0.1	mg/L (ppm)	
501			SW846-7000B		Flame Atomic Absorption		40 mg/kg (ppm)		
			SW846-6010B or C		ICP-AES		2 m	ng/kg (ppm)	
Wastewater	Unnreserved		SM3111B/SW846-7000B		Flame Atomic Absorption		0.4 mg/L (ppm)		
Preserved wi	th HNO ₃ pH < 2		EPA 200.9		Graphite Furnace AA		0.003 mg/L (ppm)		
Drinking Mod	ton Hanna and		EPA 200.7		ICP-AES		0.020	0 mg/L (ppm)	
Preserved wi	ith $HNO_{n}nH < 2$		EPA 200.9		ICP-MS		0.003 mg/L (ppm)		
TSP/SPM Fill	ter	_ <u></u>	40 CFR Part 50 (2013)		ICP-MS		0.00	2 ug/filtor	
Other:			40 CFR Pail 50 (2015)						
Name of San	pler: (b)(4)			Signa	ture of Sample	r-	L		
Sample #		Locatio	on		Volume/Are	<u>.</u>		Date/Time S	ampled
001	13th fl clean i	room e	ntrance	1 squa	re foot 57	1276	3	8/13/2015	umpieu
002	13th fl equipr	nent ro	om	1 square foot 571276/ 8/13/201			8/13/2015		
003	blank			-	51	1270	35	8/13/2015	
								0/10/2010	

Client Sampl	e#'s 0€4				Tota	ul# of Sa	mnlos	. 3	
Relinquisher	(Client):	(b)	₍₄₎ (b)(4)	9/16/1	1100	Times	unpies	7.70	
reinquisitet	r (onency.		× /	0/1 5/1	7	Time:		<u>Uniping</u>	
Received (Lab):					Time:			
Comments:				D.	5 8/18/17				
Bill to Deborah Holle	er Building 1100 Suite 1017C	, Stennis Spa	ace Center, MS 39529. deborah.a.t	noller@nasa.gov	,		- 63	<u>р</u> а в и	_
Controlled Document Lead (Pb) COC - R9- 3/4/2015 Page 1 of 1 pages									
	SHK-	TIT		5117	115	. ir 7346	6	///	



DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 08 / 18 / 15)

Total Lead (mg)	Percent Recovery **
0.000	< LOQ
0.500	97
1.400	94
0.31	86
0.33	90
0.299	97
0.050	95
0.25	97
1.0	98
4.0	98
	Total Lead (mg) 0.000 0.500 1.400 0.31 0.33 0.299 0.050 0.25 1.0 4.0

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analysis Method:	ASTM D3335-85A		
Analysis Method.	NIOSH 7082		
	EPA SW846 3050B 7000B		
Comments:	IATL assumes that all sampling complies with accepted methods.		
	All client supplied sampling data is assumed to be correct when calculating results.		
	Detection limit based upon 0.2 mg/L reporting limit and sample size.		
	* NIST Traceable.		
	** 80-120% acceptable limits.		
Analyzed By	(b)(4)	Approved By:	(b)(4) Laboratory
Date	: <u>8/18/15</u>		
AAS.DailyQC.005			

¢	IMISL	EMSL Analytical, 11931 Industriplex, Suite 100, Phone/Fax: (225) 755-1920 / http://www.EMSL.com	Inc. Baton Rouge, LA 70809 (225) 755-1989 <u>batonrougelab@emsl.</u>	<u>com</u>		EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55	
Attn:	(b)(4)			Phone:	(504) 348-309	8		
	Technical	Environmental Servi	ice. Inc.	Fax:	(504) 348-304	3		
1	PO Box 16	01	,	'Received:	08/17/15 11:0	5 AM		
l	Marrero, L	A 70073		Collected:	8/14/2015			ĺ

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID Collected	Analyzed	Volume	Lead Concentration
001	251505509-0001 8/14/2015	8/18/2015	878 L	<4.6 µg/m³
	Site: Outside Level 10.5			
002	251505509-0002 8/14/2015	8/18/2015	892 L	<4.5 μg/m³
	Site: Inside Level 13			



*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLXA. Reporting limit is 4 µg/filter, ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m². OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted, "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AltHA-LAP, unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Project: IH1150-15262

	EMSL	EMSL Analytical, I 11931 Industriplex, Suite 100, B Phone/Fax: (225) 755-1920 / http://www.EMSL.com	NC. Baton Rouge, LA 70809 (225) 755-1989 <u>batonrougelab@emsl.c</u>	om		EMSL Order: CustomerID: CustomerPO: ProjectID:	TECH55
Attn:	(b)(4) Technical PO Box 1	Environmental Servi	ce, Inc.	Phone: Fax: Received: Collected:	(504) 348-3098 (504) 348-3043 08/17/15 11:05 A 8/14/2015	AM	
Proje	Marrero, L	LA /UU/3					

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID Collected	Analyzed	Area Sampled	Lead Concentration
003	251505509-0003 8/14/2015	8/18/2015	144 in ²	27 μg/ft ²
	Site: Supply Room			
004	251505509-0004 8/14/2015	8/18/2015	144 in²	83 µg/ft²
	Site: Clean Room			



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/Mipe = ug/Mi2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ff which Is dependent on the area provide by by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 08/18/2015 11:50:58



Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID	Collected	Analyzed	Volume		Lead Concentration
001	251505585-0001	8/18/2015	8/20/2015	890 L		<4.5 µg/m³
	Site: Level 10 Sou	uth				
002	251505585-0002	8/18/2015	8/20/2015	890 L		<4.5 µg/m³
	Site: Level 12 Nor	rth				



*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m⁴. OSHA action level - 30 µg/m⁴. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, AZLA Accredited Environmental Testing Cert #2845.03

Initial report from 08/20/2015 12:27:41

EMSL	EMSL Analytical, Inc. 11931 Industriplex, Suite 100, Baton Rouge, LA 7 Phone/Fax: (225) 755-1920 / (225) 755-1989 http://www.EMSL.com batonrougels	0809 ab@emsl.com	EMSL Order: CustomerID: CustomerPO: ProjectID:	TECH55
Attn: (b)(4 Technica PO Box 1 Marrero,	al Environmental Service, Inc. 1601 LA 70073	Phone: Fax: Received: Collected:	(504) 348-3098 (504) 348-3043 08/19/15 10:15 AM 8/18/2015	
Project: IH 1550-1	5262			

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID Collected	Analyzed	Area Sampled	Lead Concentration
003	251505585-0003 8/18/2015	5 8/20/2015	144 in ²	
	Site: Clean Room			
004	251505585-0004 8/18/2015	5 8/20/2015	1 44 in²	26 µg/ft²
	Site: Storage Room			



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/f2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in ug/ff which is dependent on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 08/20/2015 12:27:41

Client:

CERTIFICATE OF ANALYSIS

Jacobs Technology Bldg 1100; Suite 213G Stennis Space Ctr. MS

Report Date:	8/27/2015
Report Number:	372351
Project:	B2 Surveillance
Project No.:	6618-2015

LEAD WIPE SAMPLE ANALYSIS SUMMARY

39529

<u>Lab No.</u>	Client No.	Location / Description	Area Sampled <u>(ft²)</u>	Concentration (µg/ft²)
5722452	001	9th Flr Outside South (b4 Cleaning)	1.00	1400.0
5722453	002	9th Flr Outside South (b4 Cleaning)	1.00	1500.0
5722454A	003	Lead Wipe	NA	810 ug
5722454B	003	Lead Wipe	NA	50 ug
5722454C	003	Lead Wipe	NA	110 ug
5722454D	003	Lead Wipe	NA	170 ug
5722454E	003	Lead Wipe	NA	660 ug
5722454F	003	Lead Wipe	NA	200 ug
5722455	004	9th Flr Outside South (Cleaned)	1.00	400.0
5722456	005	Blank	Blank	<10.0 ug

Accreditation:	NATION	AL LEAD LABORATO AIHA-LAP, LLC No. 1001	RY ACCREI	DITATION PRO NYSDOH-ELAP No.	OGRAM (NLLAP) 11021
Analysis Method:	EPA SW846-3050B:700	0B "Standard Method To Test For Lov	v Concentrations Of I	ead In Soils, Sludges And	d Sediments By AAS"
Comments: R N S S E d v	Regulatory limit varies by su Method requires submittal o upplied by the client. Meth Standard Determined (LSD) ampled). The EPA 403 Fin E1792. Sample results are no loes not represent an endors written approval of the labor	Irface location (EPA/HUD guidelines). f blanks. IATL assumes that all of the od Detection Limit (MDL) per EPA M in accordance with AIHA-ELLAP poli al Rule (40 CFR 745.63) requires that ot corrected for contamination by field ement by NIST-NVLAP, AIHA or any atory.	Unless otherwise sta sampling methods an lethod 40CFR Part 13 icies. LSD= 0.2 ppm all wipe samples of si or analystical blanks. government agency.	ated, results assume one so d data upon which these r 6 Appendix B. Reporting MDL=4.4 μ g/ft ² RL=10.0 ettled dust shall be collect This confidential report r This report shall not be rep	quare foot sampled. esults are based, have been accurately g Limit (RL) based upon Lowest) μg/ft² (based upon 1.0 square foot ed using a wipe that meets ASTM elates only to those item(s) tested and produced except in full, without
Date Received:	8/26/2015	_		· .	(b)(<i>4</i>)
Date Analyzed Analyst:	: <u>8/27/2015</u>	-		Approved By:	
		-	-61	Labora	(b)(4) tory Director



Chain of Custody – Environmental Lead –

Client Company: Jacobs (Stennis Space Center) Office Address: Building 1100, Suite 213G Project Number: B2 Surveillance City, State, Zip: Stennis Space Center, MS 39529 Fax Number: 228-688-6456 Di(4) Cell Phone: Office Phone: (b)(4) IATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs. Matrix/Method: Daint by AAS: ASTM D3335-85a, 2009
Cheff Company: Jacobs (Stemms Space Center) Project Number: 6618-2015 Office Address: Building 1100, Suite 213G Project Name: B2 Surveillance City, State, Zip: Stennis Space Center, MS 39529 Primary Contact: (b)(4) Fax Number: 228-688-6456 Office Phone: (b)(4) Email Address: (b)(4) Cell Phone: (b)(4) iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs. Matrix/Method: Image: Addression of the second several other nationally and the second several other nationally and the several
Office Address: Building (100, Suite 213G) Project Name: B2 Surveillance City, State, Zip: Stennis Space Center, MS 39529 Primary Contact: (b)(4) (b)(4) Fax Number: 228-688-6456 Office Phone: (b)(4) (b)(4) (b)(4) iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs. Matrix/Method: Image: Project Name: Image: Project Nam
City, state, Zip: Stemms space Center, MS 39529 Primary Contact: (b)(4) Fax Number: 228-688-6456 Office Phone: (b)(4) Email Address: (b)(4) Cell Phone: (b)(4) iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs. Matrix/Method: Image: Contact is through AIHA-LAP, LLC and several other nationally is through AIHA-LAP, LLC and several other natio
Fax Number: 228-688-6456 Office Phone: (b)(4) Email Address: (b)(4) Cell Phone: (b)(4) iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs. Matrix/Method: Image: Cell Phone: Image: Cell Phone: Image: Paint by AAS: ASTM D3335-85a, 2009 Image: Cell Phone: Image: Cell Phone:
Email Address: (b)(4) Cell Phone: (b)(4) iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs. Matrix/Method:
 iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs. Matrix/Method: Paint by AAS: ASTM D3335-85a, 2009
 iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs. <u>Matrix/Method:</u> Paint by AAS: ASTM D3335-85a, 2009
Matrix/Method: Paint by AAS: ASTM D3335-85a, 2009
Paint by AAS: ASTM D3335-85a, 2009
,
✓ Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
□ Air by AAS: NIOSH 7082, 1994
Soil by AAS: EPA SW 846 (Soil)
Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141,11B, 2010
Cher Metals (Cd, Zn, Cr) by AAS
Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
□ Other
Special Instructions:
Please list total lead concentration of the samples. Sample 003 consists of bulk material collected from the inside of a
box. Please analyzed the material on the tape and the wipe samples together as one sample. $\mathcal{D}_{\mathcal{O}}$ (b)(4)
Turnaround Time
Preliminary Results Requested Date: Uverbal Email Fax
\Box 10 Day \Box 5 Day \Box 3 Day \Box 2 Day \blacksquare 1 Day* \Box 12 Hour** \Box 6 Hour** \Box RUSH**
* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***
Chain of Custody
Relinquished (Name/Organization (b)(4)
Received (Name / iATL): Date: The first $\mathbb{E} \setminus \mathbb{K}$
Sample Login (Name / iATL): Date: Date: Date: Date: Time:
Analysis(Name(s) / iATL): (b)(4) Date: Time
QA/QC Review (Name / IATL): Archived / Released:
Time (b)(4)

Celebrating 25 years on

in the

e atla time



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Sample Log

-Environmental Lead -

Jacobs (Stennis Space Center) Client:

6618-2015 Project:

Sampling Date/Time: ______08/20/2015 - 08/21/2015

		Location/	Flow	Start	Sompling	A	Decelle
Client Sample #	iATL #	Description	Rate	End	time (min)	Volume (L)	()
001	5722452	9th Floor outside south (b4 cleaning)				1 sq ft	
002	5722453	9th Floor outside south (b4 cleaning)				1 sq ft	
003	5722454 A-F	8th floor tool box material				[.] 80 sq inches	
004	5722455	9th Floor outside south (cleaned)				1 sq ft	
005	5722458	blank	•			N/A	
·							
•							
					-		•
	•						•

* = Insufficient Sample Pr. vided to Perform QC Reanalysis (<200mg) ** = Insufficient Sample Provided to Analyze (<50mg) ***= Matrix / Substrate Interference Possible FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

IATL

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DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 08/27/15)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOO
Blank Spike	0.500	100
Lab Control Std	1.510	98
Matrix Spike - LBP *	0.26	112
Matrix Spike - Wipe *	0.26	97
Matrix Spike - Soil *	0.365	97
Matrix spike - Air *	0.050	102
2.5 ppm Standard	0.25	100
10.0 ppm Standard	1.0	99
40.0 ppm Standard	4.0	97

AIHA-LAP, LLC No. 100188	NYSDOH-ELAP No. 11021	
ASTM D3335-85A		
NIOSH 7082		
EPA SW846 3050B 7000B		
IATL assumes that all sampling complies with accepted	methods	·····
All client supplied sampling data is assumed to be correct	ct when calculating results	
Detection limit based upon 0.2 mg/L reporting limit and	sample size	
* NIST Traceable.		
** 80-120% acceptable limits.		
	AIHA-LAP, LLC No. 100188 ASTM D3335-85A NIOSH 7082 EPA SW846 3050B 7000B IATL assumes that all sampling complies with accepted All client supplied sampling data is assumed to be corre Detection limit based upon 0.2 mg/L reporting limit and * NIST Traceable. ** 80-120% acceptable limits.	AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021 ASTM D3335-85A NIOSH 7082 EPA SW846 3050B 7000B IATL assumes that all sampling complies with accepted methods. All client supplied sampling data is assumed to be correct when calculating results. Detection limit based upon 0.2 mg/L reporting limit and sample size. * NIST Traceable. ** 80-120% acceptable limits.

AAS.DailyQC.005

EMSL	EMSL Analytical, Inc. 11931 Industriplex, Suite 100, Baton Rouge, LA 70 Phone/Fax (225) 755-1920 / (225) 755-1989 http://www.EMSL.com batonrougelate	809 o@emsl.com	EMSL Ord CustomerII CustomerF ProjectID:	er: (b)(4) D: TECH55 PO:
Attn: (b)(4)		Phone:	(504) 348-3098	
Technica	Environmental Service, Inc.	Fax:	(504) 348-3043	
PO Box 1	601	Received:	08/28/15 9:50 AM	
Marrero, I	LA 70073	Collected:	8/27/2015	
Project: IH 1550-15	262			

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID Col	llected	Analyzed	Volume	110 - 00-	Lead Concentration
001	251505811-0001 8/2	7/2015	8/28/2015	880 L		<4.5 µg/m³
	Site: Level 10 S					
002	251505811-0002 8/2	7/2015	8/28/2015	880 L		<4.5 µg/m³
	Site: Level 11 N					



*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter: ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 08/31/2015 10:50:09

EMSL	EMSL Analytical, Inc. 11931 Industriplex, Suite 100, Baton Rouge Phone/Fax: (225) 755-1920 / (225) 755-19 http://www.EMSL.com baton	e, LA 70809 189 rougelab@emsi.com	EMSL Order CustomerID CustomerPC ProjectID:	(b)(4) TECH55
Attn: (b)(4) Technical PO Box 1 Marrero, I	l Environmental Service, Inc. 601 LA 70073	Phone: Fax: Received: Collected:	(504) 348-3098 (504) 348-3043 08/28/15 9:50 AM 8/27/2015	
Project: IH 1550-15	262			

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
003	251505811-000	3 8/27/2015	8/31/2015	n/a	20 µg/wipe
	Site: Clean Roo	m			
004	251505811-000	4 8/27/2015	8/31/2015	n/a	22 µg/wipe
	Site: Supply Ro	om			



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates crily 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft which is dependent on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 08/31/2015 10:50:09



TECH55

CustomerID: CustomerPO:

EMSL Order:

(_	
	Attn:		

Technical Environmental Service, Inc. **PO Box 1601** Marrero, LA 70073

Phone: Fax: Received: Collected:

(504) 348-3098 (504) 348-3043 09/03/15 11:15 AM 9/1/2015

ProjectID:

Project: IH 1550-15262

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration
001	251506005-000	01 9/1/2015	9/4/2015	1200 L	<3.3 µg/m³
	Site: Level 10 S	South Outside			
002	251506005-000	02 9/1/2015	9/4/2015	1200 L	<3.3 µg/m³
	Site: Level 11 N	North Inside			
005	251506005-000	03 9/1/2015	9/4/2015	1200 L	<3.3 µg/m³
	Site: Level 11 E	East Outside			



or other approved signatory

*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m3. OSHA action level - 30 µg/m3. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those Items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 09/04/2015 10:37:44



EMSL Order: CustomerID: TECH55

CustomerPO: ProjectID:

Attn: Phone: (504) 348-3098 Fax: (504) 348-3043 Technical Environmental Service, Inc. Received: 09/03/15 11:15 AM **PO Box 1601** Collected: 9/1/2015 Marrero, LA 70073

Project: IH 1550-15262

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
003	251506005-0004	4 9/1/2015	9/3/2015	144 in ²	27 μg/ft²
	Site: Storage Ro	om Floor			
004	251506005-0005	5 9/1/2015	9/3/2015	144 in ²	24 μg/ft²
	Site: Outside Cle	ean Room Fl	oor		



*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/tt2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 09/04/2015 10:37:44

EMSL

EMBL ANALYTICAL, INC. LABORATORY-MICOUCTS-TRAINING

Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only):

EMSL Analytical, Inc. 11931 Industriplex Boulevard, -

. Order ID (Lab Use Only):

Baton Rouge, LA 70809
PHONE: (225) 755-1920
FAX: (225) 755-1989

	Company : TE	IS			EMSL-Bill to: Different / Same						
	Street: 5133 1	Faravella Road			Third Party Billing requires written authorization from third party						
	City: Marrero		State/P	rovince: LA	Zip/Posta	I Code: 70072		Country	United	State	s
	Report To (Na	ame): (b)(4)			Telephon	e #: 504348309	8		<u>., </u>		
	Email Addres	s: (b)(4)			Fax #:			Purchas	e Order		
	Project Name	2	Please Pl	rovide Results:	FA)	X 🔽 E-ma	i1 🗌	Mail			
	U.S. State Sa		CT Samp	les: 🔲 Commerc	cial/Taxal	bie 🔲 Reside	ntial/Tax	Exem	1pt		
i	Turnarou			rnaround Time (TA	und Time (TAT) Options* - Please Check						
	🔲 3 Hour	🗌 6 Hour 🥢	🔀 24	Hour 🗌 48 Hour	72	2 Hour 🗌 90	5 Hour	1 Week		2 Wee	ək
	*Analysis completed in			in accordance with EMS	<u>L's Terms a</u>	nd Conditions locate	d in the Pr	ice Guide			
1		Matrix	Method	- <u>,</u>	Instrume	nt	Reporting	Limit	Che	;CK	
_	Chips 🗌 % b	»y wt. 🗌 mg/cmª 📋	ppm	SW846-7000	B´	Flame Atomic Ab	sorption	0.01%]
Æ	Air			NIOSH 7082		Flame Atomic Ab	sorption	4 μg/filt	er	X]
				NIOSH 7105		Graphite Furna	AA eo	0.03 µg/f	<u>Iter</u>		4
\bigcirc				NIOSH 7300 mod	lified	ICP-AES/ICP	MS	<u>0.5 µg/n</u>	ter		<u>_</u>
HP	Wipe*	ASTN [SW846-7000	B	Flame Atomic Ab	sorption	10 µg/wi	pe	×	<u></u>
	*if no box k	non ASTM L schecked, non-ASTM		SW846-6010B c	xr C	ICP-AES		1.0 µg/w	ipe		<u></u>
		Wipe is assumed		SW846-7000B/7	010	Graphite Furnace AA		0.075 µg∧	Nipe		<u>1</u>
	TCLP			SW846-1311/7000B/SM 3111B		Flame Atomic Absorption		0.4 mg/L (ppm)		┝┈┝╸	╉───
[SW846-1131/SW846-6010B or C						╞╾╌╞╸	╡───
	501		SW846-7000B		Graphite Furnace AA		0.3 mg/kg (ppm)			┫───	
			SW846-6010B or C		ICP-AES		2 ma/ka (r	(mag		╡──	
			SM3111B/SW846-7000B		Flame Atomic Ab	sorption	0.4 mg/L (ppm)			Ī	
	Wastewater	Unpreserved [\exists	EPA 200.9		Graphite Furnace AA		0.003 mg/L	(ppm)]
ļ				EPA 200.7	ICP-AES Graphite Fumace AA ICP-MS 0 ICP-AES 0 Graphite Fumace AA		0.020 mg/L	(ppm)]	
	Drinking Wa	ter Unpreserved	ם	EPA 200.9			0.003 mg/L	(ppm)	┝─┝	╡	
	Preserved w	th HNO ₃ pH < 2 L		EPA 200.8				0.001 mg/L (ppm)		┝─┢═	╡───
	TSP/SPM Fil	ter		40 CFR Part 5			<u>12 μg/m</u> 3 6 μα/fil	er ter		╡───	
	Other						0.0 µg/m			†	
	Name of San			<u> </u>	Signa	ture of Sample			,		<u> </u>
	Name of Sampler:				Volume/Area			Date/Time Sample			ed
	001 Level 10 South		wth	outside	1200 L			9/1/15			
	002 Level 11 North			h inside	tá	100L		9/1	115		
	003	003 Storage Room FI			/	fta		9/1/	15	110	7
	004	004 Outside Clean Room Floor				ft2		9/1	115	110	<u>کر</u>
	005 Levell east out			rutside	12	DO L		9/1	115		
1	Client Sample #'s					Tota	al # of St	amples:			
	Relinguished	d (Client		(4)	9/1	15	Time:				
	Received (Lat);			91	03/15	Time:	11	150	2M	=
ſ	Comments:										

Page 1 of ____ pages

URS



Phone: Fax:

EMSL Order: CustomerID: TECH55 CustomerPO: ProjectID:

Attn:	(
	Techn	ica

Environmental Service, Inc. **PO Box 1601** Marrero, LA 70073

Received: Collected:

(504) 348-3098 (504) 348-3043 09/04/15 9:55 AM 9/3/2015

Project: IH 1550-15262

Test Report: Lead in Air by Flame AAS (NIOSH 7082)*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration
SSC090315-01	251506035-000	01 9/3/2015	9/8/2015	690 L	<5.8 µg/m³
	Site: 11th floor	S outside exh	aust of neg air		
SSC090315-02	251506035-000	02 9/3/2015	9/8/2015	690 L	<5.8 µg/m³
	Site: Inside soft	tcore blasting	level		
SSC090315-03	251506035-000	03 9/3/2015	9/8/2015	690 L	<5.8 µg/m³
	Site: N side bla	sting level			



or other approved signatory

*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m3. OSHA action level - 30 µg/m3. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those Items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 09/08/2015 10:58:06



Phone:

EMSL Order: CustomerID: CustomerPO: ProjectID:

TECH55

Technical Environmental Service, Inc. **PO Box 1601** Marrero, LA 70073

Fax: Received: Collected:

(504) 348-3043 09/04/15 9:55 AM 9/3/2015

(504) 348-3098

Attn:

Project: IH 1550-15262

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
SSC090315-04	251506035-00	04 9/3/2015	9/8/2015	144 in ²	26 µg/ft ²
	Site: Storage re	oom floor			
SSC090315-05	251506035-00	05 9/3/2015	9/8/2015	144 in ²	15 μg/ft²
	Site: Outside c	lean room floo	r		
SSC090315-06	251506035-00	06 9/3/2015	9/8/2015	144 in ²	330 µg/ft²
	Site: 12th floor	neg air intake			
SSC090315-07	251506035-00	07 9/3/2015	9/8/2015	144 in ²	180 µg/ft²
	Site: 12th floor	S side beam			
SSC090315-08	251506035-00	08 9/3/2015	9/8/2015	144 in ²	210 μg/ft ²
	Site: 12th floor	in front of con	tractor storage	entrance	



or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/tt2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

Initial report from 09/08/2015 10:58:06



ANALYTICAL REQUEST FORM

REGULAR Status

RUSH Status Required - ADDITIONAL CHARGE RESULTS REQUIRED BY______

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Company Name JACOBS TECHNOLOGY Address BUILDING 1100 SULTE 213 GENNIS SPACE CENTER US 39 City Person to Contact (b)(4)	
Address BUILDING 1100 SULTE 213 GENVIS SPACE CENTER MS 39 City Person to Contact (b)(4)	
STERMIS Space CENTER MS 39 City City (b)(4)	
Person to Contact(b)(4)	529
	Zip
Email Address (b)(4)	
Telephon (b)(4)	

Billing Address (if different)

Burra	1100, ROOM 1017C
STENMS,	SPACE CENTER, MS 39529
Quote No	5017
Sampling Site	STENMIS SPACE CENTER

Fax Telephone (228) 688-6456

Laboratory Use Only	Client Sample Number	Media Type	Sample Volume (Liters)	ANALYSES REC	QUESTED - Use Method N	umber if Known
01	001	MCE	768.8	NIOSH 7300 MOD.	LEAD, CADMINM.	CHROMIUM
02	002	1	753.7		1	
03	003	1	NIA			
					15	
	······································					
		<u> </u>				
	· · · · · ·					
		L				
	·					-
					and the constant	
			2. 19.1 (Alexandro)			
						······································
						•

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

CHAIN OF CUSTODY

CHAIN OF	CUSIOD					
Relinquished by (Signature)	(b)(4) (b)(4)	Dais 3000 8/10/15			8/12/158.21
Relinquished by: (Signature)			Date / Time	DELIVERY METHOD:	COOLING METHOD: MON	Date / Time
ALS ENVIRC	ONMENTAL	4388 Glendale Milford Road	i / Cincinnati	STD / PRTY MAIL UPS CLIENT DROP BOX OFFEDEX ALS COURIER OTHER:	COOLER WETICE ICE PACI CUSTODY SEALS: COOLER PACKAGE SAMPI COOLER TEMP:	3-5347 LES



14-Aug-2015

Jacobs Technology, Inc. Building 1100 Suite 213G Stennis Space Center, MS 39529

Tel: (b)(4) Fax: (228) 688-6456

Re: Stennis Space Center

Work Order: (b)(4)

Dear (b)(

ALS Environmental received 3 samples on 12-Aug-2015 09:26 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 7.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,



ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347 ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental 🐊

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client:Jacobs Technology, Inc.Project:Stennis Space CenterWork Order:(b)(4)

Work Order Sample Summary

Lab Samp ID	<u>Client Sample ID</u>	Matrix	Tag Number	Collection Date	Date Received	Hold
1508344-01	001	Air		8/7/2015	8/12/2015 09:26	
1508344-02	002	Air		8/7/2015	8/12/2015 09:26	
1508344-03	003	Air		8/7/2015	8/12/2015 09:26	

Date: 14-Aug-15

ALS Environmental Date: 14-Aug-15 Client: Jacobs Technology, Inc. Project: Stennis Space Center Case Narrative

The sample condition upon receipt was acceptable except where noted.

(b)(4)

Work Order:

Results relate only to the items tested and are not blank corrected unless indicated.

Client Sample ID: 001			Matrix: AIR	
Analyses				
METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 768.8	Analyst: VAW
Date Analyzed: 8/13/2015 13:06		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Cadmium	ND	0.10	<0.00013	
Chromium	ND	1.0	<0.0013	
Lead	ND	1.0	<0.0013	
Lab ID: 1508344-02A		С	ollection Date: 8/7/2015	
Client Sample ID: 002			Matrix: AIR	
Analyses				
METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 753.7	Analyst: VAW
Date Analyzed: 8/13/2015 13:09		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Cadmium	ND	0.10	<0.00013	
Chromium	ND	1.0	<0.0013	
Lead	ND	1.0	<0.0013	
Lab ID: 1508344-03A		С	ollection Date: 8/7/2015	
Client Sample ID: 003			Matrix: AIR	
Analyses				
METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 0	Analyst: VAW
Date Analyzed: 8/13/2015 13:13		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Cadmium	ND	0.10	NA	
Chromium	ND	1.0	NA	
	ND	1.0	NA	

Jacobs Technology, Inc.

Stennis Space Center

1508344-01A

Client:

Project:

Lab ID:

Date: 14-Aug-15

Work Order:

Analytical Results

Collection Date: 8/7/2015

Client:	Jacobs Technology, Inc.
Work Order:	(b)(4)
Drojoot.	Stannia Space Conter

QC BATCH REPORT

Project: Stennis Space Center

Batch ID: 29	9951 Instrument ID: I	CP1		Metho	d: N7300							
MBLK Sample ID: mblk-29951-29951 Client ID: Run ID: ICP1		ın ID: ICP1 _	150813B	ç	Uni SeqN	its: µg/sa r No: 11107	nple 78	Analysis Prep Date: 8/1	Date: 8/13 2/2015	/2015 11: DF: 1	50 AM	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		ND	0.10	1								
Chromium		ND	1.0									
Lead		ND	1.0	1								-
LCS	Sample ID: Ics-29951-29951					Un	its: µg/sar	nple	Analysis	Date: 8/13	/2015 11:	53 AM
Client ID:		Ru	ın ID: ICP1 _	150813B	SeqNo: 1110779		Prep Date: 8/12/2015		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		20.46	0.10	20		0	102	80-120	C			
Chromium		19.35	1.0	20		0	96.8	80-120	0			
Lead		20.48	1.0	20		0	102	80-120	0 0			
LCSD Sample ID: Icsd-29951-29951					Uni	its: u o/sa r	mple	Analysis	Date: 8/13	/2015 11	56 AM	
Client ID:		Ru	ın ID: ICP1 _	150813B	S	SeqN	No: 11107	BO	Prep Date: 8/1	2/2015	DF: 1	
Analyte		Result	PQL	. SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium		20.24	0.10	20		0	101	80-120	20.46	1.08	20	
Chromium		19.22	1.0	20		0	96.1	80-120	19.35	0.684	20	
Lead		20.18	1.0	20		0	101	80-120	20.48	1.48	20	
The follow in	ng samples were analyzed in th	is batch:		1508344-01a	1	5083	844-02a	15	08344-03a			

Client:	Jacobs Technology, Inc.	OUAL IFIFRS
Project:	Stennis Space Center	A CDONVMS LINITS
WorkOrder:	(b)(4)	
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the Repor	ting Limit
Е	Value above quantitation range	-
Н	Analyzed outside of Holding Time	
J	Analyte detected below quantitation limit	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL	
Acronym	Description	
DUP	Method Duplicate	
Е	EPA Method	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitaion Limit	
SDL	Sample Detection Limit	
SW	SW-846 Method	
Units Reported	Description	

µg/sample

Sample Receipt Checklist

Client Name: JACOBS-MISSISSIPPI		Date/Time F	Received: <u>1</u>	2-Aug-1	<u>5 09:26</u>	
Work Order: (b)(4)		Received by	/: <u>S</u>	<u>EG</u>		
Checklist completed by: (b)(4) eSignature	12-Aug-15 Date	Reviewed by:	(b)(4) eSignature			14-Aug-15 Date
Matrices: Carrier name: <u>FedEx</u>						
Shipping container/cooler in good condition?	Yes 🗹	No 🗌	Not Present			
Custody seals intact on shipping container/cooler?	Yes	No 🗌	Not Present	\checkmark		
Custody seals intact on sample bottles?	Yes	No 🗌	Not Present	\checkmark		
Chain of custody present?	Yes 🗹	No 🗌				
Chain of custody signed when relinquished and received?	Yes 🔽	No				
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌				
Samples in proper container/bottle?	Yes 🗸	No				
Sample containers intact?	Yes 🗹	No 🗌				
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌				
All samples received within holding time?	Yes 🗸	No 🗌				
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌				
Temperature(s)/Thermometer(s):						
Cooler(s)/Kit(s):						
Water - VOA vials have zero headspace?	Yes	No 🗌	No VOA vials su	bmitted	\checkmark	
Water - pH acceptable upon receipt?	Yes	No 🗌	N/A			
pH adjusted? pH adjusted by:	Yes 🗌	No	N/A			
Login Notes:						
			·			

Client Contacted:	Date Contacted:	Person Contacted:
Contacted By:	Regarding:	
-		T
Comments:		
CorrectiveAction:		

SRC Page 1 of 1

Dala as UI August Iolii, 2013	Data	as of	August	18th,	2015
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Approximate Number of Samples

Planned - 430

	LEGEND	
	Below Detection Limits	
**	for Sampling and Analytical Equipment	
	Not Applicable	
	Compliant with Requirements	
	Above Regulatory Requirements	

	Requir	rement	Initial Assessement			Verification				
Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Dat	e Type o	f Sample	
	Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
Basement by power room	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
Basement - North of Stairwell	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				
		400 μg/ft2, clearance for					Resampled on 2/22/202	15		
West Pier Stairwell		occupancy	2/14/2015		Wipe	640 μg/ft2	and 2/24/2015		Wipe	380 μg/ft2
		100 vg/ft2 clearance for					Decompled on 2/22/20	1.5		
West Diar Padga Area Eleor		400 µg/112, clearance for	2/14/2015		Wino	640 ug/ft2	2/22/20.		Wino	150 ug/ft2
		400 ug/ft2 clearance for	2/14/2015		wipe	040 µg/112			vvipe	150 µg/1(2
West Pier Badge Area Table			2/14/2015		Wine	37 µg/ft2				
		400 ug/ft2. clearance for	2/11/2013		mpe	57 µ6/112				
Basement N Floor		occupancy	2/14/2015		Wipe	320 μg/ft2				
		400 μg/ft2, clearance for				10				
Basement Coke Machine		occupancy	2/14/2015		Wipe	15 μg/ft2				
		400 μ g/ft2, clearance for								
Basement Air Compressor Floor		occupancy	2/14/2015		Wipe	380 μg/ft2				
		400 μ g/ft2, clearance for								
Basement, South floor		occupancy					2/17/2015		Wipe	66 μg/ft2
		400 μg/ft2, clearance for								
Basement, West Floor		occupancy					2/17/2015		Wipe	120 μg/tt2
Deserve at Nexth Flags		$400 \mu\text{g/ft}2$, clearance for					2/17/2015			52
Basement, North Floor		400 ug/ft2_clearance for	-			2/17/2015		vvipe	52 µg/1(2	
Basement East Floor							2/17/2015		Wine	1/10 ug/ft2
West Pier. Top of Steps	30 µg/m3: 50 µg/m3	occupancy					2/18/2015	8-hr Air	Wipe	**
Basement at Air Compressor	30 µg/m3; 50 µg/m3						2/18/2015	8-hr Air		**
	10. 10.	400 μg/ft2, clearance for								
Basement Mezzanine S Wall		occupancy					2/18/2015		Wipe	13 μg/ft2
		400 μg/ft2, clearance for								
Basement Mezzanine W Wall		occupancy					2/18/2015		Wipe	**
		400 μg/ft2, clearance for								
Basement Mezzanine N Wall		occupancy					2/18/2015		Wipe	**
		400 μ g/ft2, clearance for					2/40/2045			**
Basement Mezzanine E Wall		occupancy					2/18/2015		wipe	T T
West Dier Stairway to Mezzanine							2/22/2015		Wine	**
		occupancy					2/22/2013		Wipe	1200 µg/ft2:
		400 ug/ft2. clearance for					2/22/2015:			Resample result
West Pier Stairway to Mezzanine		occupancy					Resampled on 2/24/20	15	Wipe	10 µg/ft2
		400 μg/ft2, clearance for								• • •
West Pier Stairway to Mezzanine		occupancy					2/22/2015		Wipe	**
		400 μ g/ft2, clearance for								
West Pier Stairway to Mezzanine		occupancy					2/22/2015		Wipe	77 μg/ft2
		400 μg/ft2, clearance for					a /aa /aa			
West side of Mezzanine by Compressor		occupancy					2/22/2015		Wipe	120 μg/tt2
Wast side of Mazzaning by Compressor		400 μg/It2, clearance for	C		ation for	nnlo	2/22/2015		Wine	110 ug/ft2
		400 ug/ft2 clearance for	3	ee vermo	auon 3ar	lihig	2/22/2015		wipe	110 μg/π2
West side of Mezzanine by Compressor							2/22/2015		Wine	18 µg/ft2
		400 μg/ft2, clearance for								10 MD/ 112
West side of Mezzanine by Compressor		occupancy					2/22/2015		Wipe	350 μg/ft2
			1				E			

Data as of August 18th, 20	015
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Approximate Number of Samples

Planned - 430

LEGEND							
**	Below Detection Limits						
	for Sampling and Analytical Equipment						
	Not Applicable						
	Compliant with Requirements						
	Above Regulatory Requirements						

	Requi		Initial As	sesseme	nt	Verification				
Location	OSHA - Air (Action		Date of	Type of S	Sample	Initial	Verification Date	Type of	Sample	
	Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
		400 μ g/ft2, clearance for					2/22/2245			22 ///2
West side of Mezzanine by Compressor		occupancy 400 ug/ft2, clearance for					2/22/2015		Wipe	22 μg/ft2
West side of Mezzanine by Compressor		occupancy					2/22/2015		Wipe	38 μg/ft2
West side of Mezzanine by Compressor		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	48 μg/ft2
		400 μg/ft2, clearance for					2/22/2015). Miling	22.00/62
Mezzanine Hallway		400 µg/ft2. clearance for					2/22/2015		Wipe	22 μg/π2
Mezzanine Hallway		occupancy					2/22/2015		Wipe	**
Mezzanine Hallway		400 μg/ft2, clearance for					2/22/2015		Wine	36 ug/ft2
		400 μg/ft2, clearance for							wipe	50 µ6/ 112
Mezzanine Hallway		occupancy					2/22/2015		Wipe	110 μg/ft2
Mezzanine Hallway		400 μg/tt2, clearance for occupancy					2/22/2015		Wipe	120 μg/ft2
		400 μ g/ft2, clearance for					2/22/2045			22
Mezzanine Hallway		occupancy 400 µg/ft2, clearance for					2/22/2015		Wipe	32 μg/tt2
North Side of Mezzanine		occupancy					2/22/2015		Wipe	29 μg/ft2
North Side of Mezzanine		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	92 μg/ft2
North Side of Mezzanine		400 µg/ft2, clearance for					2/22/2015		Wine	34 ug/ft2
		400 μg/ft2, clearance for					2/22/2015		Wipe	34 μg/π2
North Side of Mezzanine		occupancy					2/22/2015		Wipe	320 μg/ft2
North Side of Mezzanine		400 μg/π2, clearance for occupancy	2/22/2015		Wipe	800 μg/ft2	Resampled on 2/24/2015		Wipe	150 μg/ft2
North Side of Mezzanine		400 μg/ft2, clearance for occupancy	Se	ee Verifica	ation Sar	nple	2/22/2015		Wipe	49 µg/ft2
		400 µg/ft2, clearance for				_	, ,			
North Side of Mezzanine		occupancy	2/22/2015		Wipe	880 μg/ft2	Resampled on 2/24/2015		Wipe	290 μg/ft2
North Side of Mezzanine		400 μg/π2, clearance for occupancy					2/22/2015		Wipe	71 μg/ft2
WEST Pier - Badge Board	30 µg/m3; 50 µg/m3						2/19/2015	8hr-air		**
WEST Pier - Top of Stairs	30 µg/m3; 50 µg/m3						2/19/2015	8 hr Air		**
West Diar Entrance		400 μg/ft2, clearance for					2/22/2015		Wine	**
		400 μg/ft2, clearance for					2/22/2015		wipe	
West Pier Entrance		occupancy					2/22/2015		Wipe	170 μg/ft2
West Pier Entrance		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	**
		400 µg/ft2. clearance for					2/22/2015: Resampled			540 μg/ft2; Resample result
West Pier Entrance		occupancy	_				on 2/24/2015		Wipe	10 µg/ft2
West entrance door		400 μg/ft2, clearance for occupancy	See Verification Sample					10 µg/ft2		
West Air Condition Unit		400 μg/ft2, clearance for occupancy					2/24/2015		Wipe	11 μg/ft2
		400 μ g/ft2, clearance for					2/24/2227			
West electrical panel		occupancy					2/24/2015		Wipe	**

Data as of August 18th, 201	5
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Approximate Number of Samples

Planned - 430

Total Samples Above Limits - 62

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Above Reg	

	Requirement			Initial As	sesseme	ent	Verification			
Location	OSHA - Air (Action	OSHA - Air (Action	Date of	Date of Type of Sample Initia			Verification Date	Type of	Sample	Varification Decult
	Level; Permissible	HOD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	vernication Result
		400 μg/ft2, clearance for			-					
West pier floor		occupancy					2/24/2015		Wipe	380 μg/ft2
		400 μg/ft2, clearance for								
West Stiarway wall		occupancy					2/24/2015		Wipe	12 μg/ft2
		400 μg/ft2, clearance for								
West Stairway floor		occupancy					2/24/2015		Wipe	150 μg/ft2
		400 μg/ft2, clearance for								
North Mezzanine Floor #1		occupancy					2/24/2015		Wipe	150 μg/ft2
		400 μg/ft2, clearance for								
North Mezzanine Floor #2		occupancy					2/24/2015		Wipe	290 μg/ft2

East Side (58)	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**			
EAST PIER ROOM Work Table		400 μg/ft2, clearance for occupancy	2/13/2015		Wipe	60 μg/ft2		Wipe	
EAST PIER ROOM Microwave		40 μg/ft2, clearance for consumption area	2/13/2015		Wipe	680 μg/ft2 (Recleaning)		Wipe	
EAST PIER ROOM Storage Cabinet		400 μg/ft2, clearance for occupancy	2/13/2015		Wipe	25 μg/ft2			
EAST PIER ROOM South Stair Landing		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	5900 μg/ft2 (Recleaning)		Wipe	
EAST PIER ROOM North Stair Landing		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	3500 μg/π2 (Recleaning)		Wipe	
East Pier		400 μg/ft2, clearance for occupancy					2/22/2015	Wipe	180 μg/ft2
East Pier		400 µg/tt2, clearance for occupancy					2/22/2015	Wipe	27 μg/ft2
East Pier		400 µg/ft2, clearance for occupancy					2/22/2015	Wipe	21 μg/ft2
East Pier		400 µg/ft2, clearance for occupancy					2/22/2015	Wipe	40 μg/ft2
East Pier		400 µg/tt2, clearance for occupancy					2/22/2015	Wipe	48 μg/ft2
East Pier		400 μg/tt2, clearance for occupancy					2/22/2015	Wipe	52 μg/ft2
East Pier		400 µg/tt2, clearance for occupancy					2/22/2015	Wipe	120 μg/ft2
East Pier		400 µg/ft2, clearance for occupancy					2/22/2015	Wipe	270 μg/ft2
East Pier		400 µg/tt2, clearance for occupancy					2/22/2015	Wipe	94 μg/ft2
East Pier		400 µg/tt2, clearance for occupancy					2/22/2015	Wipe	150 μg/ft2
East Pier		400 μg/π2, clearance for occupancy					2/22/2015	Wipe	250 μg/ft2
East Pier		400 µg/tt2, clearance for occupancy					2/22/2015	Wipe	180 μg/ft2
Break Room floor Near Entrance		400 µg/tt2, clearance for occupancy	c	oo Vorific	ation Sau	nnle	3/5/2015	Wipe	69 μg/ft2
Break Room Near Refridgerator		400 μg/tt2, clearance for occupancy	5		ation Jai	iihic	3/5/2015	Wipe	120 μg/ft2

END v Detection Limits and Analytical Equipment

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Data as of August 18th, 2015	
Total Samples Taken - 549	
Approximate Number of Samples	
Planned - 430	

LEGEND							
	Below Detection Limits						
**	for Sampling and Analytical Equipment						
	Not Applicable						
	Compliant with Requirements						
	Above Regulatory Requirements						

		Requirement			Initial As	Verification					
	Location	LOCATION OSHA - Air (Action		Date of	ate of Type of Sample		Initial	Verification Date	Type of	Sample	
		Level; Permissible	HUD - WIPe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
EA			400 μ g/ft2, clearance for								
	On Desk Office 1, North Office		occupancy					3/5/2015		Wipe	**
			400 µg/ft2, clearance for					2/5/2045			
	Floor Entrance Office 1, North Office		occupancy					3/5/2015		Wipe	25 μg/tt2
	On Dask Office 2. Middle Office		$400 \mu\text{g/ft}^2$, clearance for					2/5/2015		Mino	25
	On Desk Office 2, Middle Office		400 ug/ft2_cloaranco_for					3/5/2015		wipe	25 μg/π2
	Eleor Entrance Office 2 Middle Office							3/5/2015		Wine	120 ug/ft2
			400 ug/ft2 clearance for					5/5/2015		wipe	120 μg/π2
	On Desk Office 3, South Office							3/5/2015		Wine	10 µg/ft2
			400 µg/ft2, clearance for							mpe	10 00/102
	Floor Entrance Office 3, South Office		occupancy					3/5/2015		Wipe	150 μg/ft2
			400 μg/ft2, clearance for								
	Cable Tray		occupancy					3/5/2015		Wipe	300 μg/ft2
			40 μg/ft2, clearance for								
	Mezzanine Break Room Table		consumption area					3/13/2015		Wipe	10 μg/ft2
			40 μg/ft2, clearance for								
	Mezzanine Break Room Microwave Table		consumption area					3/13/2015		Wipe	35 μg/ft2
			400 μ g/ft2, clearance for					3/13/2015; Resampled			420 µg/ft2; Resampled result 79
	Mezzanine Entrance Break Room Floor		occupancy					on 4/15/16		Wipe	μg/ft2
			400 μ g/ft2, clearance for					3/13/2015; Resampled			240 μg/ft2; Resampled result 150
	Mezzanine Southeast Break Room Floor		occupancy					on 4/15/16		Wipe	μg/tt2
						3					
			400 μ g/ft2, clearance for								
ы	Basement mid-rail		occupancy	2/13/2015		Wipe	43 μg/ft2				
L O			400 µg/ft2, clearance for	2/12/2015		14/5-	110				
NE	Basement & LVL 1, Landing	20 ug/m2: E0 ug/m2	occupancy	2/13/2015		wipe	110 μg/π2	2/19/2015	9 br Air		**
<u> </u>		30 μg/113, 30 μg/113	400 ug/ft2, clearance for	C.	oo Vorific	ation Sa	mnlo	2/16/2013	0-111 All		
	Basement & IVI 1, Landing			See vernication sample			2/19/2015		Wine	17 µg/ft2	
L											
			400 μg/ft2, clearance for								
	LVL 1, top of handrail		occupancy	2/13/2015		Wipe	**			Wipe	
			100 //:0 1 /			1			X/////////////////////////////////////	· ·	

		400 μg/ft2, clearance for						
	LVL 1, top of handrail	occupancy	2/13/2015	Wipe	**		Wipe	
		400 μg/ft2, clearance for						
	LVL 1 E Floor	occupancy	2/14/2015	Wipe	110 μg/ft2		Wipe	
		400 μg/ft2, clearance for						
	LVL 1 S Floor	occupancy	2/14/2015	Wipe	74 μg/ft2		Wipe	
		400 μg/ft2, clearance for						
	LVL 1 W Floor	occupancy	2/14/2015	Wipe	130 μg/ft2		Wipe	
		400 μg/ft2, clearance for						
	LVL 1 N Floor	occupancy	2/14/2015	Wipe	55 μg/ft2		Wipe	
		400 μg/ft2, clearance for						
	LVL 1 Mail table	occupancy	2/14/2015	Wipe	58 μg/ft2		Wipe	
L 1		400 μg/ft2, clearance for						
VE	LVL 1 Personnel Wall	occupancy	2/14/2015	Wipe	37 μg/ft2		Wipe	
Ш.		400 μg/ft2, clearance for						
	LVL 1 Personnel Floor	occupancy	2/14/2015	Wipe	220 μg/ft2		Wipe	
	LVL 1 S Floor	400 μg/ft2, clearance for				2/17/2015	Wipe	41 μg/ft2
	LVL 1 W Floor	400 μ g/ft2, clearance for				2/17/2015	Wipe	120 μg/ft2
	LVL 1 N Floor	400 μ g/ft2, clearance for				2/17/2015	Wipe	63 μg/ft2
	LVL 1 E Floor	400 μg/ft2, clearance for				2/17/2015	Wipe	58 μg/ft2

Data as of August 18th, 2015					
Total Samples Taken - 549					
Approximate Number of Samples					
Planned - 430					

Total Samples Above Limits - 62

LVL 3 Break room by Coke machine

LVL 3 - Outside Break Room in foyer

LVL 3 Break room Floor @ door

30 µg/m3; 50 µg/m3

30 µg/m3; 50 µg/m3

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	Above Regulator

	Requirement			Initial As	sesseme	nt	Verification				
Location	OSHA - Air (Action		Date of Type of Sample		Initial	nitial Verification Date		Sample	Varification Bosult		
Level; Permissible		HOD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	vernication Result	
LVL 1 Hand Rail		400 μg/ft2, clearance for				_	2/17/2015		Wipe	**	
LVL 1 S Wall		400 μg/ft2, clearance for	l Se	ee Verific	ation Sar	nple	2/18/2015		Wipe	21 μg/ft2	
LVL 1 W Wall		400 μg/ft2, clearance for					2/18/2015		Wipe	**	
LVL 1 N Wall		400 μg/ft2, clearance for					2/18/2015		Wipe	20 μg/ft2	
LVL 1 E Wall		400 μg/ft2, clearance for					2/18/2015		Wipe	**	
LVL 1 Floor	30 μg/m3; 50 μg/m3						2/19/2015	8-hr Air		**	
LVL 1 to LVL 2 Landing		occupancy					2/19/2015		Wipe	17 μg/ft2	

	LVL 2, top of handrail		400 μg/ft2, clearance for occupancy	2/13/2015		Wipe	**				
	LVL 2 E Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	93 μg/ft2				
	LVL 2 S Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	59 μg/ft2				
	LVL 2 W Floor		400 μg/ft2, clearance for occupancy	2/14/2015 Wipe 130 μg/f			130 μg/ft2	Resampled on 2/17/2015 and 2/22/2015			42 μg/ft2
	LVL 2N Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	76 μg/ft2				
	LVL 2 S Floor		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	52 μg/ft2
	LVL 2 W Floor		400 μg/ft2, clearance for occupancy					2/17/2015; Resampled on 2/22/2015		Wipe	550 μg/ft2; Resample result 42 μg/ft2
VEL 2	LVL 2 N Floor		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	320 μg/ft2
Ш	LVL 2 E Floor		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	150 μg/ft2
	LVL 2 Hand Rail		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	**
	LVL 2 S Wall		400 μg/ft2, clearance for occupancy	S	ee Verifica	ation Sar	nple	2/18/2015		Wipe	**
	LVL 2 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	10 µg/ft2
	LVL 2 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 2 E Wall	20 / 2 50 / 2	400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 2 Floor	30 µg/m3; 50 µg/m3	400 μg/ft2, clearance for					2/19/2015	8-fir Air	Wine	29 µg/ft2
	Level 2 Floor		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	42 μg/ft2
								-	•	•	
	11/1 2 Proskroom by sink	20 ug/m2: 50 ug/m2		2/12/201E	2 br Dartial Air		**				
	LVL 3 DIEdkiouin by Silik	20 μg/1113, 50 μg/1113		2/13/2013	2 III FdI Udi Alf 2 hr Dartial Air		**				
	LVL 3 Break room by Sink	30 μg/m3; 50 μg/m3		2/13/2015	Air - 6 Hr		**				

Air - 6 Hr

Air - 6 Hr

2/13/2015

2/13/2015

2/13/2015

40 μg/ft2, clearance for consumption area

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	**		
Wipe	**		

Data as of August 18th, 2015
Total Samples Taken - 549

Approximate Number of Samples

Planned - 430

Total Samples Above Limits - 62

LEGEND	
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Compliant wit	
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		Requir	rement		Initial As	sesseme	nt		Ver	ification	
	Location	OSHA - Air (Action		Date of	Type of S	ample	Initial	Verification Date	Type of	Sample	
		Level; Permissible	HUD - WIPE	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
			40 μ g/ft2, clearance for								
	LVL 3 Break room Table		consumption area	2/13/2015		Wipe	**				
			400 μg/ft2, clearance for								
	LVL 3, top of handrail		occupancy	2/13/2015		Wipe	**				
			400 μg/ft2, clearance for								
	LVL 3 E Floor		occupancy	2/14/2015		Wipe	77 μg/ft2				
			400 μg/ft2, clearance for								
	LVL 3 S Floor		occupancy	2/14/2015		Wipe	30 μg/ft2				
			400 μg/ft2, clearance for								
	LVL 3 W Floor		occupancy	2/14/2015		Wipe	47 μg/ft2				
m			400 μg/ft2, clearance for								
	LVL 3 N Floor		occupancy	2/14/2015		Wipe	75 μg/ft2				
			400 μg/ft2, clearance for								
	LVL 3 S Floor		occupancy					2/17/2015		Wipe	60 μg/ft2
			400 μg/ft2, clearance for								
L	LVL 3 W Floor		occupancy					2/17/2015		Wipe	94 μg/ft2
			400 μg/ft2, clearance for								
	LVL 3 N Floor		occupancy					2/17/2015		Wipe	32 μg/ft2
			400 μg/ft2, clearance for								
	LVL 3 E Floor		occupancy					2/17/2015		Wipe	45 µg/ft2
			400 µg/ft2. clearance for							P -	
	LVL 3 Hand Rail		occupancy					2/17/2015		Wipe	**
			400 µg/ft2, clearance for	S	oo Vorifica	tion Sa	mnlo				
	LVL 3 S Wall			5		ition Sai	lipic	2/18/2015		Wipe	**
			400 µg/ft2, clearance for					_/			
	LVL 3 W Wall		occupancy					2/18/2015		Wipe	**
			400 ug/ft2, clearance for					_/ _0/ _0 _0		mpe	
	I VI 3 N Wall							2/18/2015		Wine	**
			400 ug/ft2, clearance for					_/ _0/ _0 _0		mpe	
	IVI 3 F Wall							2/18/2015		Wine	**
	IVI 3 Eloor	30 µg/m3: 50 µg/m3	occupancy					2/19/2015	8-hr Δir	Wipe	**
		ου μ ₀ /110, συ μ ₀ /110	400 µg/ft2. clearance for					2/15/2015			
	LVL 3 to LVL 4 Landing		occupancy					2/19/2015		Wine	75 µg/ft2
L	· _ · _ · _ · _ · · _ · · · · · ·		1 /							a	
			400μ g/ft2 clearance for								
	IVI 4 mid-rail			2/13/2015		Wine	140 µg/ft2				
			occupancy	2/13/2013		wipe	1+0 μg/π2				

LVL 4, mid-rail		400 μg/ft2, clearance for occupancy	2/13/2015	Wipe	140 μg/ft2			
LVL 4 E Floor		400 μg/ft2, clearance for occupancy	2/14/2015	Wipe	55 μg/ft2			
LVL 4 S Floor		400 μg/ft2, clearance for occupancy	2/14/2015	Wipe	65 μg/ft2			
LVL 4 W Floor		400 μg/ft2, clearance for occupancy	2/14/2015	Wipe	98 μg/ft2			
LVL 4 N Floor		400 μg/ft2, clearance for occupancy	2/14/2015	Wipe	95 μg/ft2			
LVL 4 S Floor		400 μg/ft2, clearance for occupancy				2/17/2015	Wipe	54 μg/ft2
LVL 4 W Floor		400 μg/ft2, clearance for occupancy				2/17/2015	Wipe	80 μg/ft2
LVL 4 N Floor		400 μg/ft2, clearance for occupancy				2/17/2015	Wipe	100 µg/ft2
LVL 4 E Floor		400 μg/ft2, clearance for occupancy				2/17/2015	Wipe	52 μg/ft2

Detection Limits

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	LEGEND							
	Below Detection Limits							
**	for Sampling and Analytical Equipment							
	Not Applicable							
	Compliant with Requirements							
	Above Regulatory Requirements							

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	Requi	Ini		
Location	OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	T A
LVL 4 Hand Rail		400 μg/ft2, clearance for occupancy	Se	ee Vo
LVL 4 S Wall		400 μg/ft2, clearance for occupancy		
LVL 4 W Wall		400 μg/ft2, clearance for occupancy		
LVL 4 N Wall		400 μg/ft2, clearance for occupancy		
LVL 4 E Wall		400 μg/ft2, clearance for occupancy		
LVL 4 Floor	30 µg/m3; 50 µg/m3			

Data as of August 18th, 2015

Total Samples Taken - 549

Approximate Number of Samples

Planned - 430

		Requi	rement		Initial As	sesseme	nt		Ver	ification	
	Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of	Sample	
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
	LVL 4 Hand Rail		400 μg/ft2, clearance for occupancy	S	ee Verific	ation Sar	nple	2/17/2015		Wipe	**
	LVL 4 S Wall		400 μg/ft2, clearance for occupancy				iipic	2/18/2015		Wipe	**
	LVL 4 W Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 4 N Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 4 E Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 4 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air	-	**
			70								
1.5	LVL 4 & LVL 5 between mid rail		400 μg/ft2, clearance for occupancy	2/13/2015		Wipe	350 μg/ft2				
VEL 4	LVL 4 & LVL 5, mid Landing		400 μg/ft2, clearance for occupancy	2/13/2015		Wipe	90 μg/ft2				
Ë	LVL 4 to LVL 5 Landing		400 μg/ft2, clearance for occupancy	S	ee Verific	ation Sar	nple	2/19/2015		Wipe	75 μg/ft2
	LVL 5 Office C507	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	LVL 5 Corridor	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	LVL 5 Cont Rm, C501	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	LVL 5 - Conference Room	30 μg/m3; 50 μg/m3		2/13/2015	Air - 6 Hr		**				
	LVL 5 - Outside Office C507Conference Room	30 μg/m3; 50 μg/m3		2/13/2015	Air - 6 Hr		**				
	LVL 5 office desk		40 μg/ft2, clearance for consumption area	2/13/2015		Wipe	**				
	LVL 5 Conference table		40 μg/ft2, clearance for consumption area	2/13/2015		Wipe	**				
	LVL 5 Floor at Stairs, Conf Rm		400 μg/ft2, clearance for occupancy	2/13/2015		Wipe	42 μg/ft2				
	LVL 5 E Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	130 μg/ft2				
	LVL 5 S Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	51 µg/ft2				
	LVL 5 W Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	100 ug/ft2				
10	LVL 5 N Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	53 µg/ft2				
VEL 5			400 μg/ft2, clearance for				P0/	2/17/2015		Wine	69 ug/ft2
Ш	LVL 5 W Eloor		400 μg/ft2, clearance for					2/17/2015		Wine	64 µg/ft2
			400 μg/ft2, clearance for					2/17/2015		Wipe	44 µg/ft2
			400 μg/ft2, clearance for					2/17/2015		Wipe	40 μg/ft2
			400 μg/ft2, clearance for					2/17/2015		Wipe	40 μg/π2
			400 μg/ft2, clearance for	S	ee Verific	ation Sar	nple	2/17/2013		Wine	±± μg/π2
			400 μg/ft2, clearance for					2/10/2015		vvipe	**
			occupancy					2/18/2015		vvipe	T T.

	•	Requi	rement		Initial As	sesseme	nt		Veri	fication	
	Location	OSHA - Air (Action		Date of	Type of S	Sample	Initial	Verification Date	Type of	Sample	
		Level; Permissible	HUD - WIPE	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
			400 μg/ft2, clearance for	C		stice Cor	mala	2/17/2015		W/in a	**
			400 μg/ft2, clearance for	30	ee vermca	ation San	npie	2/17/2015		wipe	
	LVL 4 S Wall		occupancy					2/18/2015		Wipe	**
			400 µg/ft2, clearance for					2/18/2015		Wine	**
			400 µg/ft2, clearance for					2/10/2015		wipe	
	LVL 4 N Wall		occupancy					2/18/2015		Wipe	**
			400 μg/ft2, clearance for								
	LVL 4 E Wall	20,4,2,2,50,4,2,2	occupancy					2/18/2015		Wipe	**
	LVL 4 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
			$400 \mu g/ft^2$ clearance for								
ъ	LVL 4 & LVL 5 between mid rail		occupancy	2/13/2015		Wipe	350 ug/ft2				
4			400 µg/ft2, clearance for	2/13/2013		wipe	550 µ8/112				
/EL	LVL 4 & LVL 5, mid Landing		occupancy	2/13/2015		Wipe	90 μg/ft2				
LEY			400 μg/ft2, clearance for	C	oo Vorifio	tion for	nnlo				
	LVL 4 to LVL 5 Landing		occupancy	20	ee vermca	ation Sar	npie	2/19/2015		Wipe	75 μg/ft2
								_			
	LVL 5 Office C507	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	LVL 5 Corridor	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	LVL 5 Conf Rm, C501	30 μg/m3; 50 μg/m3		2/13/2015	2 nr Partial Air		**				
	LVL 5 - Conference Room	30 μg/113; 50 μg/113		2/13/2015	Air - 6 Hr		**				
		50 μg/115, 50 μg/115	$10 \mu g/ft^2$ clearance for	2/15/2015							
	LVL 5 office desk		consumption area	2/13/2015		Wipe	**				
			40 µg/ft2, clearance for	_, _0, _0 _0							
	LVL 5 Conference table		consumption area	2/13/2015		Wipe	**				
			400 µg/ft2, clearance for								
	LVL 5 Floor at Stairs, Conf Rm		occupancy	2/13/2015		Wipe	42 μg/ft2				
			400 μ g/ft2, clearance for								
	LVL 5 E Floor		occupancy	2/14/2015		Wipe	130 μg/ft2				
			$400 \mu\text{g/ft}^2$, clearance for	2/14/2015		Mine	F1				
			400 ug/ft2_clearance for	2/14/2015		wipe	51 µg/112				
	LVL 5 W Floor		occupancy	2/14/2015		Wipe	100 ug/ft2				
			400 μg/ft2, clearance for	_/ _ / _ 0 _ 0							
ы	LVL 5 N Floor		occupancy	2/14/2015		Wipe	53 μg/ft2				
E			400 μg/ft2, clearance for		•						
E<	LVL 5 S Floor		occupancy					2/17/2015		Wipe	69 μg/ft2
			400 μg/ft2, clearance for								
	LVL 5 W Floor		occupancy					2/17/2015		Wipe	64 μg/ft2
			$400 \mu\text{g/ft}2$, clearance for					2/17/2015		Wino	44.ug/ft2
			400 ug/ft2 clearance for					2/17/2013		wipe	44 μg/πz
	LVL 5 E Floor							2/17/2015		Wipe	40 µg/ft2
			400 μg/ft2, clearance for							· · ·	
	LVL 5 Hand Rail		occupancy			-		2/17/2015		Wipe	11 μg/ft2
			$400 \ \mu g/ft2$, clearance for	S	ee Verifica	ation Sar	nple				
	LVL 5 S Wall		occupancy				•	2/18/2015		Wipe	**
			400 μg/ft2, clearance for					2/10/2015		\A/:	**
	LVL 3 VV VVdII		occupancy					2/18/2015		wipe	

Data as of August 18th, 2015
Total Samples Taken - 549

Approximate Number of Samples

Planned - 430

LEGEND								
	Below Detection Limits							
**	for Sampling and Analytical Equipment							
	Not Applicable							
	Compliant with Requirements							
	Above Regulatory Requirements							

	Requirement			Initial As	sesseme	ent	Verification			
Location	OSHA - Air (Action		Date of Type of Sample		ype of Sample Initial		Verification Date	Type of Sample		Varification Bacult
	Level; Permissible	HOD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Vernication Result
		400 μg/ft2, clearance for			-					
LVL 5 N Wall		occupancy					2/18/2015		Wipe	**
		400 μg/ft2, clearance for								
LVL 5 E Wall		occupancy					2/18/2015		Wipe	**
LVL 5 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
		400 μg/ft2, clearance for								
LVL 5 to LVL 6 Landing		occupancy					2/19/2015		Wipe	34 μg/ft2

			400 μg/ft2, clearance for								
	IVI 6 top of handrail			2/12/2015		Wino **					
			occupancy	2/13/2013		wipe					
			400 μg/ft2, clearance for								
	LVL 6 E Floor		occupancy	2/14/2015		Wipe	290 ug/ft2				
			400 ug/ft2 closropco for	-1 - 1							
			400 µg/112, clearance for								
	LVL 6 S Floor		occupancy	2/14/2015		Wipe	520 μg/ft2	Resampled on 2/17/2015		Wipe	110 μg/ft2
			400 µg/ft2, clearance for								
	IVI 6 W Floor			2/14/2015		Wine	470 ug/f+2	Recompled on 2/17/2015		Wine	220 ug/ft2
			occupancy	2/14/2015		wipe	470 µg/112	Resampled on 2/17/2015		wipe	230 µg/112
			400 μg/ft2, clearance for	2/14/2015							
	LVL 6 N Floor		occupancy			Wipe	340 ug/ft2				
			400 ug/ft2_cloarance_for	1 1		1 1	- 100				
			$400 \mu\text{g/Hz}$, clearance for								
	LVL 6 S Floor		occupancy					2/17/2015		Wipe	110 μg/ft2
			400 μ g/ft2, clearance for								
	IVI 6 W Floor							2/17/2015		Wino	220 ug/ft2
.0			occupancy					2/1//2013		wipe	230 μg/π2
Ľ			400 µg/ft2, clearance for								
E I	LVL 6 N Floor		occupancy					2/17/2015		Wipe	240 µg/ft2
ы́.			400 ug/ft2 clearance for								
	LVL 6 E Floor		occupancy					2/1//2015		Wipe	140 µg/ft2
			400 μg/ft2, clearance for								
	I VL 6 Hand Rail		occupancy					2/17/2015		Wine	12 ug/ft2
				C		tion Con		2/1//2010		mpe	12 μβ/τε
			400 µg/It2, clearance for	36	e verifica	tion Sar	npie				
	LVL 6 S Wall		occupancy				•	2/18/2015		Wipe	**
			400 µg/ft2, clearance for								
								2/19/2015		Wine	**
			occupancy					2/18/2013		wipe	
			400 μ g/ft2, clearance for								
	LVL 6 N Wall		occupancy					2/18/2015		Wipe	13 µg/ft2
			100 ug/ft2 clearance for								10.
			400 μg/π2, clearance 10								
	LVL 6 E Wall		occupancy					2/18/2015		Wipe	16 μg/tt2
	LVL 6	30 μg/m3; 50 μg/m3						2/19/2015	8-hr Air		**
			400 μg/ft2, clearance for								
	1)// Cto 1)// 7 Londing							2/10/2015		14/5:00 -	11.00/602
	LVL 6 to LVL / Landing		occupalicy					2/15/2015		wipe	11 μg/π2

		400 μg/ft2, clearance for		
LVL 7, top	of handrail	occupancy	2/13/2015	
		400 μg/ft2, clearance for		
LVL 7 E Flo	oor	occupancy	2/14/2015	
		400 μg/ft2, clearance for		
LVL 7 S Flo	oor	occupancy	2/14/2015	
		400 μg/ft2, clearance for		
LVL 7 W F	loor	occupancy	2/14/2015	
		400 μg/ft2, clearance for		
LVL 7 N F	oor	occupancy	2/14/2015	
		400 μg/ft2, clearance for		
LVL 7 S Flo	oor	occupancy		

Wipe	**			
Wipe	230 μg/ft2			
Wipe	200 μg/ft2			
Wipe	1000 μg/ft2	Resampled on 2/17/2015	Wipe	140 μg/ft2
Wipe	130 μg/ft2			
		2/17/2015	Wipe	36 μg/ft2

LEGEND								
	Below Detection Limits							
**	for Sampling and Analytical Equipment							
	Not Applicable							
	Compliant with Requirements							
	Above Regulatory Requirements							

Data as of August 1	8th, 2015
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Approximate Number of Samples

Planned - 430

		Requir	rement		Initial As	sesseme	nt	Verification			
	Location	OSHA - Air (Action		Date of	Type of S	Sample	Initial	Verification Date	Type of Sample Verification F		Varification Posult
		Level; Permissible	HOD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	vermeation Result
	LVL 7 W Floor		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	140 µg/ft2
	LVL 7 N Floor		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	27 μg/ft2
	LVL 7 E Floor		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	56 μg/ft2
	LVL 7 Hand Rail		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	**
EL 7	LVL 7 S Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	21 μg/ft2
LEV	LVL 7 W Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 7 N Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	12 μg/ft2
	LVL 7 E Wall		400 μg/ft2, clearance for occupancy	S	ee Verifica	ation Sar	mple	2/18/2015		Wipe	**
	LVL 7 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
	LVL 7 to LVL 8 Landing		400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	26 μg/ft2
	Level 7 South Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	580 μg/ft2
	Level 7 South Outside		outside surfaces					2/27/2015		Wipe	470 μg/ft2
	Level 7 West Outside		outside surfaces					2/27/2015		Wipe	51 μg/ft2
	Level 7 North Outside		outside surfaces					2/27/2015		Wipe	71 μg/ft2
	Level 7 East Outside		outside surfaces 800 µg/ft2, clearance for					2/27/2015		Wipe	150 μg/ft2
	Level 7 South Outside		outside surfaces					3/6/2015		Wipe	190 μg/ft2
			400 μg/ft2, clearance for								
	LVL 8, Top of Handrail		occupancy 400 ug/ft2. clearance for	2/13/2015		Wipe	**				
	LVL 8 E Floor		occupancy	2/14/2015		Wipe	320 μg/ft2				
	LVL 8 S Floor		occupancy	2/14/2015		Wipe	130 µg/ft2				
	LVL 8 W Floor		occupancy	2/14/2015		Wipe	180 µg/ft2				
	LVL 8 N Floor		occupancy	2/14/2015		Wipe	92 μg/ft2				
	LVL 8 S Floor		400 µg/ft2, clearance for					2/17/2015		Wipe	91 µg/ft2
	LVL 8 W Floor		400 µg/ft2, clearance for					2/17/2015		Wipe	49 µg/ft2
	LVL 8 N Floor							2/17/2015		Wipe	80 μg/ft2
	LVL 8 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	90 μg/ft2
	LVL 8 Hand Rail		400 μg/π2, clearance for occupancy					2/17/2015		Wipe	**

LEGEND								
	Below Detection Limits							
**	for Sampling and Analytical Equipment							
	Not Applicable							
	Compliant with Requirements							
	Above Regulatory Requirements							

Data as of August 18th, 2015
Total Samples Taken - 549

Approximate Number of Samples

Planned - 430

		Requir	rement		Initial As	sesseme	nt	Verification			
	Location	OSHA - Air (Action	HUD - Wipe	Date of	Type of	Sample	Initial Accossment	Verification Date	Type of	Sample	Verification Result
ſ		Level; Permissible	100 ug/ft2 clearance for	Sample	All	wipe	Assessment	of Sample	AII	wipe	
∞	LVL 8 S Wall		occupancy					2/18/2015		Wipe	**
Æ			400 μg/ft2, clearance for	1							
LE	LVL 8 W Wall		occupancy	1				2/18/2015		Wipe	13 μg/ft2
			400 µg/ft2, clearance for					2/19/2015		Wipo	25 ug/ft2
			400 μg/ft2, clearance for	1				2/10/2013		wipe	23 μg/π2
	LVL 8 E Wall		occupancy	S	ee Verific	ation Sa	mnle	2/18/2015		Wipe	**
							npic				
	LVL 8 Floor	30 µg/m3; 50 µg/m3	400 ug/ft2_clearance for					2/19/2015	8-hr Air		**
	LVL 8 to LVL 9 Landing							2/19/2015		Wipe	16 ug/ft2
			800 μg/ft2, clearance for	1						1	1000 µg/ft2
	Level 8 South Outside		outside surfaces					2/27/2015		Wipe	(Recleaning)
			800 μg/ft2, clearance for					2/27/2015			14
	Level 8 West Outside		800 ug/ft2, clearance for	1				2/2//2015		wipe	14 μg/π2
	Level 8 North Outside		outside surfaces					2/27/2015		Wipe	160 μg/ft2
			800 μg/ft2, clearance for	1							
	Level 8 East Outside		outside surfaces					2/27/2015		Wipe	23 μg/ft2
			800 μg/ft2, clearance for					3/6/2015; Resampled on			2300 µg/ft2
	Level & South Outside		800 ug/ft2_clearance_for	-				3/1//2015		wipe	(Recleaning)
	Level 8 South Outside		outside surfaces					3/17/2015		Wipe	220 μg/ft2
	•										
			800 μg/ft2, clearance for	3/6/2015		Wipe	200 µg/ft2				
	Level 8.5 West Outside		Outside surfaces				1900 ug/ft2				
μ	Level 8.5 North Outside		outside surfaces	3/6/2015		Wipe	(Recleaning)				
С С С			800 μg/ft2, clearance for	2/6/2015		Wine	240 µg/ft2				
	Level 8.5 East Outside		outside surfaces	5/0/2015		wipe	540 µg/1(2				
L 2	Level 8 5 South Outside		800 μg/π2, clearance for outside surfaces	3/6/2015		Wipe	140 μg/ft2				
			800 μg/ft2, clearance for		<u> </u>						
	Level 8.5 North Outside		outside surfaces	5	ee Verific	ation Sai	mple	5/4/2015		Wipe	300 μg/ft2
								-		4	
	IVI 9 top of bandrail		400 µg/ft2, clearance for	2/12/201E		Wine	**				
			400 μg/ft2, clearance for	2/13/2013		wipe					
	LVL 9 E Floor		occupancy	2/14/2015		Wipe	900 μg/ft2	Resampled on 2/17/2015		Wipe	160 μg/ft2
			400 μg/ft2, clearance for								
	LVL 9 S Floor		occupancy	2/14/2015		Wipe	470 μg/ft2	Resampled on 2/17/2015		Wipe	250 μg/ft2
	LVL 9 W Floor		400 μg/π2, clearance for occupancy	2/14/2015		Wipe	880 ug/ft2	Resampled on 2/17/2015		Wipe	200 µg/ft2
			400 µg/ft2, clearance for	_,, _ 010							PO/
	LVL 9 N Floor		occupancy	2/14/2015		Wipe	480 μg/ft2	Resampled on 2/17/2015		Wipe	140 μg/ft2
			400 µg/ft2, clearance for					- /			
	LVL 9 S Floor		Occupancy	4				2/17/2015		Wipe	250 μg/tt2
	LVL 9 W Floor		occupancy					2/17/2015		Wipe	200 μg/ft2
				-				B	·····		
LEGEND											
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	Below Detection Limits										
**	for Sampling and Analytical Equipment										
	Not Applicable										
	Compliant with Requirements										
	Above Regulatory Requirements										

Total Samples Taken - 549
Approximate Number of Samples
Planned - 430

Total Samples Above Limits - 62

		Requir	rement		Initial As	ssesseme	nt	Verification			
	LOCATION OSHA - A			Date of Type of Sample Initial			Initial	Verification Date	Type of	Sample	Varification Decult
		Level; Permissible	HUD - WIPE	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
			400 μg/ft2, clearance for					2/17/2015		Wine	140 ug/ft2
			400 μg/ft2, clearance for					2/11/2015		wipe	μομογιτ2
	LVL 9 E Floor		occupancy					2/17/2015		Wipe	160 μg/ft2
	LVL 9 Hand Rail		occupancy					2/17/2015		Wipe	**
	LVL 9 S Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
			400 μg/ft2, clearance for								
	LVL 9 W Wall		occupancy					2/18/2015		Wipe	**
	LVL 9 N Wall		400 μg/π2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 9 E Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	IVI 9 Eloor	30 ug/m3· 50 ug/m3						2/19/2015	8-hr Air		**
VEL 9	LVL 9 to LVL 10 Landing	50 pg/ms/ 50 pg/ms	400 μg/ft2, clearance for occupancy					2/19/2015		Wipe	41 μg/ft2
Ë	Level 9 South Outside		800 μg/ft2, clearance for outside surfaces					2/27/2015		Wine	150 ug/ft2
			200 ug/tt2 clearance for					2/27/2015: Posampled		mpe	1500 ug/tt2
	Level 9 South Outside		outside surfaces	S	ee Verific	ation Sar	nple	on 3/6/2015		Wipe	(Recleaning)
			800 μ g/ft2, clearance for				•				
	Level 9 South Outside		outside surfaces					2/27/2015		Wipe	270 μg/tt2
	Level 9 West Outside		outside surfaces					2/27/2015		Wipe	420 μg/ft2
	Level 9 East Outside		800 μg/ft2, clearance for					2/27/2015		Wine	280 ug/ft2
			800 μg/ft2, clearance for					2/2//2013		wipe	200 µg/112
	Level 9 North Outside		outside surfaces					2/27/2015		Wipe	12 μg/ft2
			800 μg/ft2, clearance for					3/6/2015; Resampled on		\\/;	960 μg/ft2
	Level 9 South Outside		800 ug/ft2. clearance for					3/1//2015		wipe	(Recleaning)
	Level 9 East Outside		outside surfaces					3/6/2015		Wipe	800 μg/ft2
	Level 9 South Outside		800 μg/ft2, clearance for outside surfaces					3/17/2015		Wipe	1200 μg/ft2 (Recleaning)
	Level 9 Southeast Outside		800 μg/ft2, clearance for outside surfaces					3/17/2015		Wipe	2000 μg/ft2 (Recleaning)
	Lovel 9 South Outside		800 μg/ft2, clearance for					7/16/2015		Wipo	1100 µg/ft2
			800 μg/ft2, clearance for					//10/2015		wipe	1400 μg/ft2
	Level 9 South Outside		outside surfaces					8/20/2015		Wipe	(Recleaning)
	Level 9 South Outside		800 μg/ft2, clearance for outside surfaces					8/20/2015		Wipe	1500 μg/ft2 (Recleaning)
	Level 9 South Outside		800 μg/ft2, clearance for outside surfaces					8/21/2015		Wipe	400 μg/ft2
	·							•		•	
	LVL 10 E Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	210 μg/ft2				

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Data as of August 18th, 2015
Total Samples Taken - 549
Approximate Number of Samples

. Planned - 430

Total Samples Above Limits - 62

LEGEND	
Below Dete	
for Sampling and A	**
Not Ap	
Compliant wit	
Above Regulato	

		Requir		Initial As	sesseme	nt	Verification				
	Location	OSHA - Air (Action		Date of	Type of S	Sample	Initial	Verification Date	Type of Sample		
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
	LVL 10 S Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	420 μg/ft2	Resampled on 2/17/2015 and 2/22/2015		Wipe	59 μg/ft2
	LVL 10 W Floor		400 μg/tt2, clearance for occupancy	2/14/2015		Wipe	410 μg/ft2	Resampled on 2/17/2015		Wipe	82 μg/ft2
	LVL 10 N Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	79 µg/ft2				
	LVL 10 S Floor		400 μg/ft2, clearance for occupancy					2/17/2015; Resampled on 2/22/2015		Wipe	500 μg/ft2; Resample result 59 μg/ft2
	LVL 10 W Floor		400 μg/tt2, clearance for occupancy					2/17/2015		Wipe	82 μg/ft2
	LVL 10 N Floor		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	72 μg/ft2
	LVL 10 E Floor		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	88 μg/ft2
	400 μg/ft2, clearance for LVL 10 Hand Rail occupancy							2/17/2015		Wipe	**
10	LVL 10 S Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
:VEL :	LVL 10 W Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	14 μg/ft2
Ē	LVL 10 N Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 10 E Wall		400 μg/ft2, clearance for occupancy	S	ee Verifica	ation Sar	nple	2/18/2015		Wipe	**
	LVL 10 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
	LVL 10 Floor		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	59 µg/ft2
	Level 10-11 Landing	30 µg/m3; 50 µg/m3						2/21/2015	10-hr Air		**
	Level 10-11 Landing	30 µg/m3; 50 µg/m3						2/22/2015	12-hr Air		**
	Level 10 West Outside		800 μg/ft2, clearance for outside surfaces					2/27/2015		Wipe	23 μg/ft2
	Level 10 South Outside		800 μg/ft2, clearance for outside surfaces					2/27/2015		Wipe	230 µg/ft2
	Level 10 North Outside		800 μg/ft2, clearance for outside surfaces					3/6/2015		Wipe	130 µg/ft2
	Level 10.5 Stairwell Landing		400 μg/ft2, clearance for occupancy					3/13/2015; Resampled on 4/16/15		Wipe	1900 μg/ft2; Resampled result 330 μg/ft2
	B2 Interface Level 10 & 11	30 µg/m3; 50 µg/m3						3/13/2015	8-hr Air	·	**
	LVL 11, top of handrail		400 μg/ft2, clearance for occupancy	2/13/2015		Wipe	30 μg/ft2				
	LVL 11 Final step		400 μg/ft2, clearance for occupancy	2/13/2015		Wipe	820 μg/ft2 (Recleaning)				
	LVL 11 Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	220 μg/ft2				
	Level 11 West Outside		800 μg/ft2, clearance for outside surfaces					2/27/2015		Wipe	11 µg/ft2

Detection Limits

and Analytical Equipment

ot Applicable

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ulatory Requirements

LEGEND									
	Below Detection Limits								
**	for Sampling and Analytical Equipment								
	Not Applicable								
	Compliant with Requirements								
	Above Regulatory Requirements								

Data as of August 18th, 2015	
Total Samples Taken - 549	

Approximate Number of Samples

Planned - 430

Total Samples Above Limits - 62

		Requirement			Initial As	sesseme	ent	Verification			
	Location	OSHA - Air (Action	OSHA - Air (Action		Type of	Sample	Initial	Verification Date Type of Sample			
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
			$800 \mu\text{g/ft2}$, clearance for			-					
	Level 11 South Outside		outside surfaces	-				2/27/2015		Wipe	190 μg/ft2
	Level 11 East Outside		outside surfaces					2/27/2015		Wipe	160 μg/ft2
			800 μg/ft2, clearance for								
	Level 11 North Outside		outside surfaces					2/27/2015		Wipe	**
	Level 11 Floor Bottom of Central Stairwell		400 μg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/16/15		Wipe	2400 μg/ft2; Resampled result 210 μg/ft2
/EL 11	Level 11 Floor Behind Gate C1109		400 μg/ft2, clearance for occupancy		See Verification Sample					Wipe	3900 μg/ft2; Resampled result 150 μg/ft2
	Lovel 11 Elect Under CN Heater Banel		400 μg/ft2, clearance for	s						Wino	920 μg/ft2; Resampled result
	Level 11 Top of Light Fixture		400 μg/ft2, clearance for					3/30/2015; Resampled		Wine	790 μg/ft2; Resampled result 280
			400 μg/ft2, clearance for					011 4/ 10/ 15		wipe	μg/π2
	Level 11 Horizontal Beam North Wall 3' High		occupancy							Wipe	300 μg/ft2
	Loval 11 Floor in Front of C1102		400 µg/tt2, clearance for					2/20/2015		Wipo	210 ug/ft2
			400 μg/ft2, clearance for							wipe	210 µg/112
	Level 11 Floor near bathroom entrance		occupancy							Wipe	200 μg/ft2
	Level 11 stairwell handrail		400 μg/ft2, clearance for occupancy							Wipe	41 μg/ft2
	Level 11 stairwell mid-landing, between 11 & 12		400 μg/ft2, clearance for occupancy					4/16/2015; Resampled on 4/20/15; Resampled on 4/21/15		Wipe	1300 μg/ft2; Resampled result 1100 μg/ft2; Resampled result 220 μg/ft2
						4			X		
	LVL 12, Below LVL 13 Clean Room Entrance		400 μg/ft2, clearance for occupancy	2/5/2015		Wipe	41000.0 μg/ft2 (Recleaning)				
	I VI 12 Final Sten		400 µg/ft2, clearance for occupancy	2/13/2015		Wine	2200 μg/ft2 (Recleaning)				
			400 μg/ft2, clearance for	2, 13, 2010		inpe	(570 μg/ft2
	Level 12 0 ft Inside		occupancy					3/6/2015		Wipe	(Recleaning)
	Level 12 10 ft Inside		400 µg/ft2, clearance for occupancy					3/7/2015		Wipe	31 µg/ft2
LEVEL 12			400 μg/ft2, clearance for					3/30/2015; Resampled on 4/21/15; Resampled on 4/24/15; Resampled		mpe	1200 μg/ft2; Resampled result 560 μg/ft2; Resampled result 610 μg/ft2; Resampled result 430
	Level 12 Stairs		occupancy	S S	ee Verific	ation Sai	mple	on 4/29/15		Wipe	μg/ft2
	Level 12 Horizontal Shelf on cage door C1206		400 μg/ft2, clearance for occupancy				•	3/30/2015		Wipe	110 μg/ft2
	Level 12 Top of Light Fixture		400 μg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/21/15		Wipe	590 μg/ft2; Resampled result 370 μg/ft2
										24 11 -	

Data as of August 18th, 2015
Total Samples Taken - 549
Approximate Number of Samples
Planned - 430
Total Samples Above Limits - 62

LEGEND									
	Below Detection Limits								
**	for Sampling and Analytical Equipment								
	Not Applicable								
	Compliant with Requirements								
	Above Regulatory Requirements								

	Requir	rement		Initial As	sesseme	nt	Verification				
Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date Type of Sample				
	Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result	
Level 12 Beam on W Wall 5' High		400 μg/ft2, clearance for occupancy					3/30/2015		Wipe	260 μg/ft2	
Level 12 Stair Rail		400 μg/π2, clearance for occupancy					4/21/2015		Wipe	71 µg/ft2	
		400 μg/ft2, clearance for	- /- /								
LVL 13, Clean Room Floor		occupancy	2/5/2015	-	Wipe	* *					
		400 μg/ft2, clearance for				730.0 μg/ft2					
LVL 13, 21 ft outside Clean Room		occupancy	2/5/2015		Wipe	(Recleaning)					
		400 μ g/ft2, clearance for	2/5/2015			12000.0 μg/ft2					
LVL 13, 2 ft outside Clean Room		occupancy	2/5/2015		Wipe	(Recleaning)					
		400 ug/ft2. clearance for				500.0 µg/ft2					
LVL 13, 31 ft outside Clean Room		occupancy	2/5/2015		Wipe	(Recleaning)					
		400 μg/ft2, clearance for									
LVL 13, 8 ft outside Clean Room, Elevator Call Panel		occupancy	2/5/2015		Wipe	**					
		400 μ g/ft2, clearance for									
LVL 13, top of handrail		occupancy	2/13/2015		Wipe	120 μg/ft2					
		800 μ g/ft2, clearance for	2/12/2015			00 ///12					
LVL 13 - Benind stouts on I-Beam		800 ug/ft2 clearance for	2/13/2015		wipe	80 μg/π2					
LVL 13 - Outside Elevator Buttons		outside surfaces	2/13/2015		Wipe	24 µg/ft2					
		400 µg/ft2, clearance for	_, _0, _0_0		po						
Level 13 0 ft		occupancy					3/6/2015		Wipe	92 μg/ft2	
		400 μg/ft2, clearance for									
Level 13 10 ft		occupancy					3/7/2015		Wipe	22 μg/ft2	
		400 μg/ft2, clearance for									
Level 13 20 ft		occupancy					3/8/2015		Wipe	130 μg/tt2	
Lovel 12 20 ft		400 µg/112, clearance for					2/0/2015		Wine	82 ug/ft2	
		400 ug/ft2, clearance for					3/3/2013		wipe	05 µg/112	
Level 13 Handrail Inside		occupancy					3/10/2015		Wipe	24 μg/ft2	
		400 μg/ft2, clearance for									
Level 13 Mid-rail Inside		occupancy					3/11/2015		Wipe	33 μg/ft2	
		400 μ g/ft2, clearance for									
Level 12 Clean Room Floor		occupancy			_	-	3/13/2015		Wipe	140 μg/ft2	
		400 μg/ft2, clearance for	S	ee Verific	ation Sar	nple	2/20/2015				
Level 13 Horizontal Shelf on Cage Door C1307		Occupancy				•	3/30/2015		Wipe	160 μg/tt2	
Level 13 Top of Guardrail Around Stair Landing							3/30/2015		Wine	33 ug/ft2	
		οιταρατιτγ					5/ 50/ 2015			55 με/π2	
							4/21/2015 Date 1			040	
		100 ug/ft2 clearance for					4/21/2015; Kesampled			940 µg/ft2; Resampled result 420	
Level 13 Stairs		400 μg/ ILZ, CIEdidIICE IOF					on 4/29/15		Wine	μg/πz, resampled result 530	
		occupancy	l				011 -7 (23) 13			με/112	

Requirement				Initial As	sesseme	nt	Verification				
Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of	Sample	Vorification Posult	
	Level; Permissible	HUD - WIPe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result	
Level 12 Beam on W Wall 5' High		400 μg/ft2, clearance for occupancy					3/30/2015		Wipe	260 μg/ft2	
Level 12 Stair Rail		400 μg/ft2, clearance for occupancy					4/21/2015		Wipe	71 μg/ft2	
		100 ug/ft2 clearance for									
LVL 13, Clean Room Floor		occupancy	2/5/2015		Wipe	**					
LVL 13, 21 ft outside Clean Room		400 μg/ft2, clearance for occupancy	2/5/2015		Wipe	730.0 μg/ft2 (Recleaning)					
		. ,									
		400 $\mu g/ft2$, clearance for				12000.0 μg/ft2					
LVL 13, 2 ft outside Clean Room		occupancy	2/5/2015		Wipe	(Recleaning)					
		400 μg/ft2, clearance for				500.0 μg/ft2					
LVL 13, 31 ft outside Clean Room		occupancy	2/5/2015		Wipe	(Recleaning)					
LVL 13, 8 ft outside Clean Room, Elevator Call Panel		occupancy	2/5/2015		Wipe	**					
LVL 13, top of handrail		400 μg/tt2, clearance for occupancy	2/13/2015		Wipe	120 μg/ft2					
LVL 13 - Behind stouts on I-Beam		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	80 μg/ft2					
IVI 13 - Outside Elevator Buttons		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wine	24 µg/ft2					
		400 µg/ft2, clearance for	2, 10, 2010		mpe	- 1 MO/ 12-	2/6/2015				
Level 13 0 ft		occupancy 400 μg/ft2, clearance for					3/6/2015		Wipe	92 μg/tt2	
Level 13 10 ft		occupancy 400 μg/ft2, clearance for					3/7/2015		Wipe	22 μg/ft2	
Level 13 20 ft		occupancy					3/8/2015		Wipe	130 μg/ft2	
Level 13 30 ft		occupancy					3/9/2015		Wipe	83 μg/ft2	
Level 13 Handrail Inside		400 μg/π2, clearance for occupancy					3/10/2015		Wipe	24 μg/ft2	
Level 13 Mid-rail Inside		400 μg/ft2, clearance for occupancy					3/11/2015		Wipe	33 μg/ft2	
Level 12 Clean Room Floor		400 μg/ft2, clearance for					3/13/2015		Wine	140 µg/ft2	
		400 µg/ft2, clearance for	See Verification Sample				2/20/2015			160 ms/ft2	
Level 13 Horizontal Shelf on Cage Door C1307		occupancy 400 μg/ft2, clearance for					3/30/2015		wipe	160 μg/π2	
Level 13 Top of Guardrail Around Stair Landing		occupancy	-			3/30/2015		Wipe	33 μg/ft2		
		400 μg/ft2, clearance for					4/21/2015; Resampled on 4/24/15; Resampled			940 μg/ft2; Resampled result 420 μg/ft2; Resampled result 330	
Level 13 Stairs		occupancy					on 4/29/15		Wipe	μg/ft2	

Data as of August 18th, 2015
Total Samples Taken - 549
Approximate Number of Samples
Planned - 430

LEGEND							
	Below Detection Limits						
**	for Sampling and Analytical Equipment						
	Not Applicable						
	Compliant with Requirements						
	Above Regulatory Requirements						

	Requir	rement	Initial Assessement				Verification			
Location	OSHA - Air (Action		Date of Type of Sample		Initial	Initial Verification Date		Sample	Varification Decult	
	Level; Permissible	HOD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	vernication Result
		400 μg/ft2, clearance for			-	-				
Level 13 Stair Rail		occupancy					4/21/2015		Wipe	96 μg/ft2
		400 μg/ft2, clearance for								
Level 13 Guard Rail		occupancy					4/21/2015		Wipe	59 μg/ft2
		400 μg/ft2, clearance for								
Level 13 Light Fixture		occupancy					4/21/2015		Wipe	210 μg/ft2

							¥		
							XIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
							¥		
		100 /500 / 5					¥		
		$400 \mu\text{g/ft}^2$, clearance for					¥		
							¥		
	LVL 14, top of handrail	occupancy	2/13/2015	Wipe	49 μg/tt2		¥ CONTRACTOR AND		
				· · · · ·					2222 /St 2
		400 µg/ft2, clearance for							2900 µg/ft2
	Level 1.1 Feet Inside			2/6/2015		14/3-2-2	(Decleaning)		
	Level 14 East Inside	occupancy				3/6/2015		wipe	(Recleaning)
		400 ug/ft2 clearance for							020 ug/ft2
		400 µg/112, clearance for							950 µg/112
	Level 1/1 North Inside	occupancy				3/6/2015		Wine	(Recleaning)
		occupancy				5/0/2015		wipe	(necleaning)
		400 µg/ft2, clearance for							450 µg/ft2
									(=)) ()
	Level 14 West Inside	occupancy				3/6/2015		Wipe	(Recleaning)
		100 /[12]							
		$400 \mu\text{g/ft}$ ² , clearance for							
	Loval 14 South Insida	0000000				2/6/2015		\\/inc	270 ug/ft2
	Level 14 South Inside	occupancy				5/0/2015		wipe	270 µg/112
- +		$400 \mu g/ft^2$ clearance for							
71									
	Level 14 Handrail	occupancy				3/6/2015		Wipe	24 ug/ft2
		· · · · · · · · · · · · · · · · · · ·						1	F-07 -
5		400 μg/tt2, clearance for							
ш						2/6/2015		N.C	20 /5-2
	Level 14 Mid-rail	occupancy		ation Ca.	mala	3/6/2015		Wipe	28 µg/ft2
		100 ug/ft2 clearance for	See verifica	ation Sal	mple				
		400 µg/It2, clearance for							
	Level 14 North Handrail	occupancy		3/30/2015		Wine	1/Ω μσ/ft2		
		occupancy				5/50/2015		wipe	140 µg/112
		400 ug/ft2, clearance for							
	Level 14 South Handrail	occupancy		3/30/2015		Wipe	21 µg/ft2		
						1	F-07 -		
		400 μg/ft2, clearance for							
						1/20/2015			00 /5:0
	Level 14 Stairs	occupancy		4/20/2015		wipe	98 μg/π2		
		400 ug/ft2 clearance for							
		400 µg/112, clearance for							
	Level 14 Handrail	occupancy		4/20/2015		Wine	160 µg/ft2		
		occupancy				4/20/2013		wipe	100 µg/112
		400 μg/ft2, clearance for							
		10, ,							
	Level 14 Guardrail	occupancy				4/20/2015		Wipe	34 µg/ft2
		100 ug/ft2 clearance for							
		$+00 \mu\text{g}/102$, cicarance for							
	Level 14 Light Fixture	occupancy				4/20/2015		Wine	66 µg/ft2
		occupancy				4/20/2015		wipe	00 µg/112
					1				
							¥		
							¥IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
							¥IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
		$400 \mu g/ft2$, clearance for					X IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
							X IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
	LVL 15. Top of handrail	occupancy	2/13/2015	Wine	510 µg/ft2		¥IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
	-,		,,						
		400 μg/ft2, clearance for				1			
									10 15:0
	Level 15 Mid-rail Inside	occupancy				3/6/2015		Wipe	40 µg/ft2
		100 ug/ft2 clasrance for							
		400 µg/112, clearance 10r							
	Level 15 North Inside	occupancy				3/6/2015		Wine	2300 µg/ft2
		occupancy				5, 0, 2015		wipe	2000 μg/π2
		400 µg/ft2, clearance for				1			
	Level 15 West Inside	occupancy				3/6/2015		Wipe	11000 μg/tt2
		100 ug/ft2 cloarance for							
		400 µg/112, clearance for				1			
	Level 15 Fast Inside	occupancy				3/6/2015		Wine	19000 ug/ft2
		occupancy				5/0/2015		wipe	13000 μg/ π2
		400 μg/ft2, clearance for							
	Level 15 South Inside	occupancy				3/6/2015		Wipe	5700 μg/ft2
		400 ug/ft2 alagrams fa						· ·	
_			1						
<u>n</u>		400 µg/Itz, clearance for						I	
15	Lovel 15 Handrail Incide	400 µg/112, clearance for				2/6/2015		Wino	25 ug/ft2

LEGEND								
	Below Detection Limits							
**	for Sampling and Analytical Equipment							
	Not Applicable							
	Compliant with Requirements							
	Above Regulatory Requirements							

		Requirem		t Initial Assessement				Verification			
	Location	OSHA - Air (Action		Date of	Date of Type of Sample		Initial	Verification Date	Type of Sample		Varification Decult
	Level; Permissible		HOD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	vernication Result
LEVE	Level 15 Mid-rail Inside		400 μg/ft2, clearance for occupancy					3/6/2015		Wipe	35 μg/ft2
	Level 15 Horizontal Beam North Wall		400 μg/ft2, clearance for occupancy	S	ee Verific	ation Sa	mple	3/30/2015		Wipe	580 μg/ft2 (Recleaning)
	Level 15 South Handrail Mid-Rail		400 μg/ft2, clearance for occupancy					3/30/2015		Wipe	1000 μg/ft2 (Recleaning)
	Level 15 Floor 1/2 Stairwell Landing		400 μg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/20/15		Wipe	1600 μg/ft2; Resampled result 210 μg/ft2
	Level 15 Top of H2O Tank 2		400 μg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/20/15		Wipe	620 μg/ft2; Resampled result 260 μg/ft2
	Level 15 Guardrail		400 μg/ft2, clearance for occupancy					4/20/2015		Wipe	86 μg/ft2
	Level 15 Stairwell Handrail		400 μg/ft2, clearance for occupancy					4/20/2015		Wipe	180 μg/ft2
	Level 15 Light Fixture		400 μg/ft2, clearance for occupancy					4/20/2015		Wipe	72 μg/ft2

		400 /(12)			<i>"</i>
		400 μ g/ft2, clearance for			
	LVL 16, Top of handrail	occupancy	2/13/2015		
		400 μ g/ft2, clearance for			
	LVL 16 Floor	occupancy	2/14/2015		
		800 μg/ft2, clearance for			
	Level 16 Southeast Outside	outside surfaces	2/27/2015		
		800 μg/ft2, clearance for			
	Level 16 Northeast Outside	outside surfaces	2/27/2015		
		800 μg/ft2, clearance for			
	Level 16 Northwest Outside	outside surfaces	2/27/2015		
		400 μg/ft2, clearance for			
	Level 16 East Inside	occupancy			
		400 μg/ft2, clearance for			
	Level 16 North Inside	occupancy			
		400 μg/ft2, clearance for			
	Level 16 West Inside	occupancy			
		400 μg/ft2, clearance for			
	Level 16 South Inside	occupancy			
		400 μg/ft2, clearance for			
9	Level 16 Handrail	occupancy			
÷.		400 μg/ft2, clearance for			
Ξ/	Level 16 Horizontal Beam South 6' High	occupancy			
Ē		400 μg/ft2, clearance for			
_	Level 16 Guardrail Top-Rail Handrail	occupancy			
					_
			S S	ee Verifio	cati
			_		
		400 μg/ft2, clearance for			
	Level 16 Stairwell Second Step	occupancy			

Total Samples Taken - 549

Approximate Number of Samples

Planned - 430

Wipe	59 µg/ft2			
Wipe	250 μg/ft2			
Wipe	290 μg/ft2			
Wipe	**			
Wipe	13 µg/ft2			
		3/6/2015	Wipe	8700 μg/ft2 (Recleaning)
		3/6/2015	Wipe	6400 μg/ft2 (Recleaning)
		3/6/2015	Wipe	77 μg/ft2
		3/6/2015	Wipe	290 μg/ft2
		3/6/2015	Wipe	53 μg/ft2
		3/30/2015	Wipe	200 μg/ft2
		3/30/2015	Wipe	34 μg/ft2
ition Sample				
		3/30/2015; Resampled on 4/17/15; Resampled on 4/20/15; Resampled on 4/21/15; Resampled on 4/21/15;	Wipe	1600 μg/ft2; Resampled result 2400 μg/ft2; Resampled result 630 μg/ft2; Resampled result 670 μg/ft2; Resampled result 260 μg/ft2

Data as of August 18th, 2015
Total Samples Taken - 549

Approximate Number of Samples Planned - 430

Total Samples Above Limits - 62

	LEGEND
	Below Dete
**	for Sampling and Ar
	Not App
	Compliant with
	Above Regulator

		Requir	rement		Initial As	sesseme	ent	Verification			
	Location	OSHA - Air (Action	HUD - Wipe	Date of Sample	Type of S Air	ample Wipe	Initial Assessment	Verification Date	Type of Air	Sample Wine	Verification Result
	Level 16 Top of Light Fixture		400 μg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/17/15		Wipe	570 μg/ft2; Resampled result 210 μg/ft2
	Level 16 Guardrail Top - North Side		400 μg/ft2, clearance for occupancy					4/17/2015		Wipe	85 μg/ft2
	Level 16 Stair rail top		400 μg/ft2, clearance for occupancy					4/17/2015		Wipe	54 μg/ft2
	Level 17 East Inside		400 μg/ft2, clearance for occupancy	3/6/2015		Wipe	530 μg/ft2 (Recleaning)				
	Level 17 North Inside		400 μg/ft2, clearance for occupancy 400 μg/ft2, clearance for	3/6/2015		Wipe	320 µg/ft2				
	Level 17 West Inside		occupancy 400 μg/ft2, clearance for	3/6/2015		Wipe	31 μg/ft2				
	Level 17 South Inside		occupancy 400 μg/ft2, clearance for occupancy	3/6/2015		Wipe	52 μg/ft2				
	Level 17 Handrail		400 μg/ft2, clearance for occupancy	3/6/2015		Wipe	**				
	Level 17 Top of Transformer 001374		occupancy 400 μg/ft2, clearance for					3/30/2015		Wipe	71 μg/ft2
LEVEL 17	Level 17 Horizontal Beam, Northeast Corner Level 17 Top of Cable Tray, by Elevator		occupancy 400 μg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/23/2015; Resampled on 4/27/2015		Wipe	220 μg/ft2 1500 μg/ft2; Resampled result 460 μg/ft2; Resampled result 270 μg/ft2
	Level 17 Top of Fluorescent Light Fixture		400 μg/ft2, clearance for occupancy	s	ee Verifica	tion Sa	mple	3/30/2015; Resampled on 4/23/2015; Resampled on 4/27/2015		Wipe	400 μg/ft2; Resampled result 4600 μg/ft2; Resampled result 130 μg/ft2
	Level 17 Horizontal Beam, South Wall		400 μg/ft2, clearance for occupancy					3/30/2015		Wipe	330 μg/ft2
	Level 17 Stairs		400 μg/ft2, clearance for occupancy					4/23/2015; Resampled on 4/27/15; Resampled on 4/29/15		Wipe	780 μg/ft2; Resampled result 1000 μg/ft2; Resampled result 300 μg/ft2
	Level 17 Stairs rail		400 μg/ft2, clearance for occupancy]				4/23/2015		Wipe	110 μg/ft2
	Level 17 Guard rail		400 μg/tt2, clearance for occupancy					4/23/2015		Wipe	74 μg/ft2

LVL 18, Top of handrail	400 µg,	;/ft2, clearance for occupancy 2/13/2015	Wipe **		
	400 µg,	/ft2, clearance for			
Level 18 South Inside		occupancy		3/6/2015	Wipe 55 μg/1

Detection Limits

and Analytical Equipment

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ulatory Requirements

LEGEND									
	Below Detection Limits								
**	for Sampling and Analytical Equipment								
	Not Applicable								
	Compliant with Requirements								
	Above Regulatory Requirements								

Data as of August 18th, 2	2015
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Total Samples Taken - 549

Approximate Number of Samples

Planned - 430

		Requir	ement		Initial As	sesseme	nt	Verification			
	Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of S	Sample	
		Level; Permissible	HUD - WIPe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
			400 μ g/ft2, clearance for		-	-		2/6/2015			110 190
	Level 18 West Inside		Occupancy					3/6/2015		Wipe	110 μg/ft2
	Level 18 North Inside		occupancy					3/6/2015		Wipe	(Recleaning)
	Level 10 Feet Incide		400 μg/ft2, clearance for					2/6/2015			510 µg/ft2
	Level 18 East Inside		400 ug/ft2_clearance_for					3/6/2015		vvipe	(Recleaning)
	Level 18 Handrail Inside		occupancy					3/6/2015		Wipe	63 μg/ft2
			400 μ g/ft2, clearance for								
	Level 18 Mid-rail Inside		occupancy					3/6/2015		Wipe	39 μg/ft2
LEVEL 18	Lovel 19 Top of Floatnicel Danel J.D. 117		400 μg/ft2, clearance for	Se	ee Verific	ation Sar	nple	3/30/2015; Resampled on 4/23/2015; Resampled on 4/27/15; Resampled on 4/20/15		Wine	3300 μg/ft2; Resampled result 1100 μg/ft2; Resampled result 550 μg/ft2; Resampled result 22
			400 ug/ft2 clearance for					Resampled on 4/29/15		wipe	μg/π2
	Level 18 Diagonal Beam, Southwest corner							3/30/2015		Wipe	31 µg/ft2
			400 μg/ft2, clearance for					0,00,2020			- <u>-</u>
	Level 18 Top of A/C unit, Northwest corner		occupancy					3/30/2015		Wipe	220 μg/ft2
	Level 18 Horizontal Beam, Northeast		400 μg/ft2, clearance for occupancy					3/30/2015		Wipe	510 μg/ft2
	Level 18 Top of Light Fixture near Room C1803		400 μg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/23/2015		Wipe	8100 μg/ft2; Resampled result 96 μg/ft2
	Level 18 Stairs		400 μg/tt2, clearance for occupancy					4/23/2015		Wipe	210 μg/ft2
	Level 18 Stairs Rail		400 μg/ft2, clearance for occupancy					4/23/2015		Wipe	77 μg/ft2
	Level 18 Guard Rail		400 μg/ft2, clearance for occupancy					4/23/2015		Wipe	100 μg/ft2
	Level 19 South Inside		400 μg/ft2, clearance for occupancy	3/6/2015		Wipe	400 μg/ft2 (Recleaning)				
	Level 19 East Inside		400 μg/ft2, clearance for occupancy	3/6/2015		Wipe	79 µg/ft2				
	Level 19 South Inside		400 μg/ft2, clearance for	3/6/2015		Wine	260 µg/ft2				

. 19	Level 19 Tabletop in Room C904	400 μg/π2, clearance for occupancy				3/30/2015	Wipe	100 μg/ft2
	Level 19 Floor, Diamond Plate, Top of Stairs	400 μg/ft2, clearance for occupancy				3/30/2015; Resampled on 4/23/2015	Wipe	1600 μg/ft2; Resampled result 49 μg/ft2
	Level 19 Mid-rail Inside	400 μg/ft2, clearance for occupancy	3/6/2015	Wipe	40 μg/ft2			
	Level 19 Handrail Inside	400 μg/ft2, clearance for occupancy	3/6/2015	Wipe	90 μg/ft2			
	Level 19 East Inside	400 μg/ft2, clearance for occupancy	3/6/2015	Wipe	120 µg/ft2			
	Level 19 South Inside	400 μg/ft2, clearance for occupancy	3/6/2015	Wipe	260 μg/ft2			
	Level 19 East Inside	400 μg/ft2, clearance for occupancy	3/6/2015	Wipe	79 μg/ft2			
	Level 19 South Inside	400 μg/ft2, clearance for occupancy	3/6/2015	Wipe	400 μg/ft2 (Recleaning)			

	LEGEND								
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	Compliant with Requirements								
	Above Regulatory Requirements								

Data as of August 18th, 2015
Total Samples Taken - 549
Approximate Number of Samples

Planned - 430

		Requir	ement		Initial As	sesseme	ent		Veri	fication	
	Location	OSHA - Air (Action		Date of	Type of S	Sample	Initial	Verification Date	Type of	Sample	
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
LEVEI	Level 19 Floor, Diamond Plate, Room C1904		400 μg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/23/2015		Wipe	1000 μg/ft2; Resampled result 49 μg/ft2
	Level 19 Diagonal beam, Northwest, 5'		400 μg/ft2, clearance for occupancy					3/30/2015		Wipe	300 µg/ft2
	Level 19 Horizontal Beam, East Wall		400 µg/ft2, clearance for occupancy	S	ee Verific	ation Sai	mple	3/30/2015		Wipe	39 μg/ft2
	Level 19 Guardrail, Top Rail		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	15 μg/ft2
	Level 19 Horizontal Beam, South Wall		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	180 µg/ft2
	Level 19 Top of Light Fixture		400 μg/ft2, clearance for occupancy							Wipe	1200 μg/ft2; Resampled result 240 μg/ft2
	Level 19 Guardrail		400 μg/ft2, clearance for occupancy							Wipe	150 μg/ft2
			800 µg/ft2. clearance for	1							
	Level 20 North Outside		outside surfaces	3/6/2015		Wipe	170 μg/ft2				
	Level 20 West Outside		800 μg/ft2, clearance for outside surfaces	3/6/2015		Wipe	100 μg/ft2				
	Level 20 South Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	1400 μg/ft2 (Recleaning)				
EL 20	Level 20 East Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	230 μg/ft2				
LEV	Level 20 SW Corner Outside		800 µg/ft2, clearance for outside surfaces					4/23/2015			170 μg/ft2
	Level 20 E Side Outside		outside surfaces	S	ee Verific	ation Sai	mple	4/23/2015			210 µg/ft2
	Level 20 SE Side Outside		outside surfaces					4/23/2015			300 µg/ft2
	Level 20 North Side Outside		outside surfaces					4/23/2015			430 μg/ft2
			400 μg/ft2, clearance for								
	West Elevator, Floor		occupancy	2/5/2015		Wipe	1000.0 μg/ft2	Resampled on 2/17/2015		Wipe	65 μg/ft2
	West Flourton Coll Dansel		400 μg/ft2, clearance for	2/5/2015		NA/5	220.0				26
	vvest Elevator, Call Panel		400 μg/ft2, clearance for	2/5/2015		wipe	320.0 μg/π2				26 μg/π2
AC ST	West Elevator button panel		occupancy 400 µg/ft2, clearance for	2/13/2015		Wipe	**				99 μg/ft2
ATC	W Pier Elevator Access Wall		occupancy	2/14/2015		Wipe	18 μg/ft2				
ELEV	West Elevator North Walll		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	120 μg/ft2
VEST	West Elevator West Walli		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	**

	LEGEND						
	Below Detection Limits						
**	for Sampling and Analytical Equipment						
	Not Applicable						
	Compliant with Requirements						
	Above Regulatory Requirements						

Total Samples Taken - 549

Approximate Number of Samples Planned - 430

						1					
		Requi	rement		Initial As	sesseme	nt		Veri	fication	
	Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of	Sample	
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
			400 μg/ft2, clearance for								
	West Elevator South Wall		occupancy					2/17/2015		Wipe	**
			400 μg/ft2, clearance for	S	ee Verific	ation San	nnle	2/47/2015			**
	West Elevator Door		Occupancy				inpre	2/1//2015		Wipe	**
	West Elevator Eloor							2/17/2015		Wipe	**
			400 μg/ft2, clearance for					_/ _/			
	West Elevator button panel		occupancy					2/18/2015		Wipe	120 μg/ft2
			400 μg/ft2, clearance for								
	West Elevator Floor		occupancy					2/18/2015		Wipe	15 μg/ft2
			400 ug/ft2 clearance for			1					85 μg/tt2
	Fast Elevator Eloor			2/13/2015		Wine	9/0 ug/ft2	Resampled on 2/17/2015		Wine	
			occupancy	2/13/2013		wipe	540 µg/112			wipe	Using exterior clearance standard
			400 µg/ft2, clearance for								instead of interior clearance
	East Elevator North Wall		occupancy					2/17/2015		Wipe	standard
~											Using exterior clearance standard
Ö			400 μ g/ft2, clearance for								instead of interior clearance
LA/	East Elevator East Wall		occupancy					2/17/2015		Wipe	standard
LEV	Fast Elevator South Wall		400 µg/112, clearance for				_	2/17/2015		Wine	460 ug/ft2
ш Н			400 µg/ft2, clearance for	S S	ee Verific	ation Sar	nple	2/17/2015		wipe	400 µg/112
AS	East Elevator Door		occupancy				•	2/17/2015		Wipe	16 μg/ft2
Ш			400 μg/ft2, clearance for								
	East Elevator Floor		occupancy					2/17/2015		Wipe	
			400 μ g/ft2, clearance for								
	East Elevator button panel		occupancy					2/18/2015		Wipe	
	Fast Elevator Eloor							2/18/2015		Wine	
			occupancy					2/ 10/ 2010		wipe	
	1		000 /[12]			1					
z	Construction Elevator Eleor		800 μ g/ft2, clearance for	2/14/2015		Wine	500 ug/ft2				
e e e e e e e e e e e e e e e e e e e			800 ug/ft2. clearance for	2/14/2013		wipe	500 μg/π2				
	Construction Elevator Wall		outside surfaces	2/14/2015		Wipe	15 μg/ft2				
TRI			800 μg/ft2, clearance for		•						
ELE	Level 10 Elevator Floor		outside surfaces	S S	oo Vorific	ation San	nnlo	3/6/2015		Wipe	
l O			800 μ g/ft2, clearance for			ation Jan	lible				
	Level 10 Elevator Wall		outside surfaces					3/6/2015		Wipe	
	North side, flows hugh at store to r	20 4 4 2 50 4 4 2 2		2/12/2015	2 ha Doutial Air		**				
	North Side, 20 ft N of smoke pen	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	North Side, 50 ft N of smoke pen	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				**
	North Side - 20 ft North of Smoke pen	30 μg/m3; 50 μg/m3		2/13/2015	Air - 6 Hr		**				**
			800 μg/ft2, clearance for								
	NORTH - 50 ft from Containment		outside surfaces	2/13/2015		Wipe	76 μg/ft2				**
			800 μg/ft2, clearance for	2/42/2015			46 16:0				**
	NURTH - 50 ft from Containment -2		outside surfaces	2/13/2015		wipe	46 μg/tt2				**
	NORTH - 50 ft from Containment -3		outside surfaces	2/13/2015		Wine	82 ug/ft2				**
			800 μg/ft2, clearance for	_, _, _0, _0, _0		Tipe	02 M0/112				
	NORTH - 100 ft from Contaiment Porta-Potty		outside surfaces	2/13/2015		Wipe	**				**

		Requi	rement		Initial As	sesseme	nt				
	Location	OSHA - Air (Action		Date of	Type of S	Sample	Initial	Verification Date	Type of	Sample	
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
-			400 μg/ft2, clearance for								
	West Elevator South Wall		occupancy					2/17/2015		Wipe	**
	West Elevator Door		400 µg/It2, clearance for	Se	ee Verifica	ation Sar	nple	2/17/2015		Wine	**
			400 μg/ft2, clearance for				•				
	West Elevator Floor		occupancy					2/17/2015		Wipe	**
			400 μ g/ft2, clearance for					2/10/2015			100 ///0
	west Elevator button panel		400 µg/ft2, clearance for					2/18/2015		vvipe	120 μg/π2
	West Elevator Floor		occupancy					2/18/2015		Wipe	15 μg/ft2
											85 μg/ft2
			400 μg/ft2, clearance for								
	East Elevator Floor		occupancy	2/13/2015		Wipe	940 μg/ft2	Resampled on 2/17/2015		Wipe	
			$400 \mu g/ft 2$ clearance for								Using exterior clearance standard
	East Elevator North Wall		occupancy					2/17/2015		Wipe	standard
~										·	Using exterior clearance standard
Ö			400 μg/ft2, clearance for								instead of interior clearance
	East Elevator East Wall		Occupancy					2/17/2015		Wipe	standard
E.	East Elevator South Wall							2/17/2015		Wipe	460 µg/ft2
ST E			400 µg/ft2, clearance for	S	ee Verifica	ation Sar	nple			1° -	
EAS	East Elevator Door		occupancy					2/17/2015		Wipe	16 μg/ft2
			400 μg/ft2, clearance for					2/17/2015			1
		-	400 ug/ft2_clearance_for					2/1//2015		wipe	
	East Elevator button panel							2/18/2015		Wipe	
	·		400 µg/ft2, clearance for							·	
	East Elevator Floor		occupancy					2/18/2015		Wipe	
7			$800 \mu\text{g/ft2}$, clearance for								
	Construction Elevator Floor		outside surfaces	2/14/2015		Wipe	500 μg/ft2				
	Construction Elevator Wall		outside surfaces	2/14/2015		Wipe	15 µg/ft2				
TRL			800 μg/ft2, clearance for	, ,		P	- 100 -				
SN NS.	Level 10 Elevator Floor		outside surfaces	C C	o Vorific	ation Sar	mnlo	3/6/2015		Wipe	
S			800 μ g/ft2, clearance for	50		ation Sai	lible	o /o /o / o			
	Level 10 Elevator Wall		outside surfaces					3/6/2015		Wipe	
	North side flamebucket stops top	30 µg/m3: 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	North Side, 20 ft N of smoke pen	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	North Side, 50 ft N of smoke pen	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				**
	North Side - 20 ft North of Smoke pen	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				**
	NORTH FO ft from Containment		800 μg/ft2, clearance for	2/12/201E		Wino	76 ug/ft0				**
			800 μg/ft2, clearance for	2/ 13/ 2013		wipe	70 μg/π2				
	NORTH - 50 ft from Containment -2		outside surfaces	2/13/2015		Wipe	46 μg/ft2				**
			800 μg/ft2, clearance for								
	NORTH - 50 ft from Containment -3		outside surfaces	2/13/2015		Wipe	82 μg/ft2				**
	NORTH - 100 ft from Contaiment Porta-Potty		outside surfaces	2/13/2015		Wipe	**				**

	_	Requir	ement		Initial As	sesseme	nt		Veri	fication	
	Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of	Sample	
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
	West Elevator South Walll		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	**
	West Elevator Door		400 μg/ft2, clearance for occupancy	S	ee Verific	ation San	nple	2/17/2015		Wipe	**
	West Elevator Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**
	West Elevator button panel		400 µg/ft2, clearance for occupancy							Wipe	120 μg/ft2
	West Elevator Floor		occupancy					2/18/2015		Wipe	15 μg/ft2
											85 μg/ft2
	East Elevator Floor		400 μg/ft2, clearance for occupancy	2/13/2015		Wipe	940 μg/ft2	Resampled on 2/17/2015	;	Wipe	
	East Elevator North Wall		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	Using exterior clearance standard instead of interior clearance standard
ATOR	East Elevator East Wall		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	instead of interior clearance standard
ELEV	East Elevator South Wall		400 μg/ft2, clearance for occupancy	S	oo Vorific	ation San	nnlo	2/17/2015		Wipe	460 μg/ft2
EAST	East Elevator Door		400 μg/ft2, clearance for occupancy				пріє	2/17/2015		Wipe	16 μg/ft2
	East Elevator Floor		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	
	East Elevator button panel		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	
	East Elevator Floor		400 μg/π2, clearance for occupancy					2/18/2015		Wipe	
					•			-	.		
NOI	Construction Elevator Floor		800 µg/ft2, clearance for outside surfaces	2/14/2015		Wipe	500 μg/ft2				
RUCT	Construction Elevator Wall		outside surfaces	2/14/2015		Wipe	15 μg/ft2				
) NSTI ELEV	Level 10 Elevator Floor		800 μg/ft2, clearance for outside surfaces	S	ee Verific	ation San	nple	3/6/2015		Wipe	
CC	Level 10 Elevator Wall		outside surfaces					3/6/2015		Wipe	
	North side, flamebucket stops top	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	North Side, 20 ft N of smoke pen	30 μg/m3; 50 μg/m3		2/13/2015	2 nr Partial Air		**				**
	North Side, 50 ft North of Smoke pen	30 μg/m3; 50 μg/m3		2/13/2015	2 nr Partial Air		**				**
	NORTH - 50 ft from Containment	ου με/πιο, ου με/πιο	800 μg/ft2, clearance for outside surfaces	2/13/2015	AII - O HI	Wipe	76 µg/ft2				**
	NORTH - 50 ft from Containment -2		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wine	46 µg/ft2				**
	NORTH - 50 ft from Containment -3		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	82 μg/ft2				**
	NORTH - 100 ft from Contaiment Porta-Potty		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	**				**

	• • •	Requi	rement		Initial As	sesseme	nt		Veri	fication	on		
	Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of	Sample			
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result		
			400 μ g/ft2, clearance for			••							
	West Elevator South Wall		occupancy 400 ug/ft2, clearance for					2/17/2015		Wipe	**		
	West Elevator Door		occupancy	S S	ee Verific	ation Sar	nple	2/17/2015		Wipe	**		
	West Elevator Elear		400 μg/ft2, clearance for					2/17/2015		Wino	**		
			400 μg/ft2, clearance for					2/17/2015		wipe			
	West Elevator button panel		occupancy					2/18/2015		Wipe	120 μg/ft2		
	West Elevator Floor		400 μg/π2, clearance for occupancy					2/18/2015		Wipe	15 µg/ft2		
L										1 1	85 μg/ft2		
			400 μg/ft2, clearance for										
	East Elevator Floor		occupancy	2/13/2015		Wipe	940 μg/ft2	Resampled on 2/1//2015		Wipe	Using exterior clearance standard		
			400 μg/ft2, clearance for								instead of interior clearance		
	East Elevator North Wall		occupancy					2/17/2015		Wipe	standard		
R N			400 ug/ft2, clearance for								Using exterior clearance standard instead of interior clearance		
ATC	East Elevator East Wall		occupancy					2/17/2015		Wipe	standard		
	Fast Flowator South Wall		400 μg/ft2, clearance for					2/17/2015		\\/inc	460 ug/ft2		
			400 μg/ft2, clearance for	S S	ee Verific	ation Sar	nple	2/17/2015		wipe	400 µg/112		
EAS	East Elevator Door		occupancy				-	2/17/2015		Wipe	16 μg/ft2		
	East Elevator Eloor		400 μg/ft2, clearance for					2/17/2015		Wine			
			400 μg/ft2, clearance for					2, 17, 2015		wipe			
	East Elevator button panel		occupancy					2/18/2015		Wipe			
	East Elevator Eloor		400 µg/ft2, clearance for occupancy					2/18/2015		Wine			
								_,,		, mpc			
			800 μg/ft2, clearance for										
NO	Construction Elevator Floor		outside surfaces	2/14/2015		Wipe	500 μg/ft2						
E	Construction Elevator Wall		800 μg/ft2, clearance for	2/14/2015		Wino	15 ug/ft2						
			800 μg/ft2, clearance for	2/14/2013		wipe	13 μg/π2						
L SN S	Level 10 Elevator Floor		outside surfaces	s s	oo Vorific	ation Sar	mnlo	3/6/2015		Wipe			
	Lovel 10 Elevator Wall		800 μg/ft2, clearance for			ation Sai	lipic	2/6/2015		Wing			
			outside suitaces					3/0/2015		wipe			
	North side, flamebucket stops top	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**						
	North Side, 20 ft N of smoke pen	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**						
	North Side, 50 ft N of smoke pen	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				**		
	North Side - 20 ft North of Smoke pen	30 μg/m3; 50 μg/m3	800 ug/ft2, clearance for	2/13/2015	Air - 6 Hr		T T				T T		
	NORTH - 50 ft from Containment		outside surfaces	2/13/2015		Wipe	76 μg/ft2				**		
			800 μg/ft2, clearance for	2/42/2045		Mine	16				**		
	NORTH - 50 IT from Containment -2		800 μg/ft2, clearance for	2/13/2015		wipe	46 μg/1t2						
	NORTH - 50 ft from Containment -3		outside surfaces	2/13/2015		Wipe	82 μg/ft2				**		
	NORTH - 100 ft from Contaiment Porta Potty		800 μg/ft2, clearance for	2/12/201E		Wine	**				**		
I			outside sui idles	2/15/2015		wipe							

	LEGEND
	Below Detection Limits
**	for Sampling and Analytical Equipment
	Not Applicable
	Compliant with Requirements
	Above Regulatory Requirements

Total Samples Taken - 549

Approximate Number of Samples

Planned - 430

Total Samples Above Limits - 62

	Requi	rement		Initial As	sesseme	nt		Veri	fication	I
Location	OSHA - Air (Action	HUD - Wine	Date of	Type of	Sample	Initial	Verification Date	Type of	Sample	Verification Result
	Level; Permissible		Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	
NODTH 100 ft from Containeant Donte Date: 2		800 µg/ft2, clearance for	2/12/2015)// in a	07				**
NORTH - 100 ft from Contaiment Porta-Potty-2		outside surfaces	2/13/2015		wipe	97 μg/π2				<u>ጥ</u> ጥ
NORTH - 100 ft from Contaiment Porta-Potty-3		outside surfaces	2/13/2015		Wipe	67 µg/ft2				**
NORTH - 10 ft from Stand	30 µg/m3; 50 µg/m3		_, _0, _0_0				2/17/2015	8 hr Air		**
NORTH - 10 ft from Stand	30 μg/m3; 50 μg/m3						2/17/2015	8 hr Air		39 μg/ft2
NORTH - 50 ft from Stand	30 μg/m3; 50 μg/m3						2/17/2015	8hr Air		19 µg/ft2
NORTH - 50 ft from Stand	30 µg/m3; 50 µg/m3						2/17/2015	8hr Air		41 μg/ft2
		800 μg/ft2, clearance for								
NORTH - 10 ft from Stand		outside surfaces					2/18/2015	8 hr Air		190 μg/ft2
		800 μg/ft2, clearance for								
NORTH - 50 ft from Stand		outside surfaces					2/18/2015	8 hr Air		**
		800 µg/ft2, clearance for					2/19/2015			CC
NORTH - 100 ft from Stand							2/18/2015	8hr Air		66 µg/ft2
NODTLL 100 ft from Stand		800 µg/112, clearance for					2/19/2015			
NORTH - 100 ft from Stand						_	2/16/2015	8nr Air		
NORTH 100 ft from Stand		800 µg/112, clearance for	S	ee Verific	ation Sar	nple	2/19/2015	9hr Air		
		800 ug/ft2 clearance for					2/16/2013			
NORTH - 0' from stand		outside surfaces					2/17/2015		Wine	
		800 ug/ft2, clearance for					2/1//2015		Wipe	
NORTH - 20' from stand		outside surfaces					2/17/2015		Wipe	
		800 μg/ft2, clearance for								
NORTH - 0' from stand		outside surfaces					2/17/2015		Wipe	
		800 μg/ft2, clearance for								
NORTH - 20' from stand		outside surfaces					2/17/2015		Wipe	
		800 μg/ft2, clearance for								
NORTH - 0' from stand		outside surfaces					2/17/2015		Wipe	
		$800 \mu\text{g/ft2}$, clearance for					a / 1 = /a a 1 =			
NORTH - 20' from stand		outside surfaces					2/1//2015		Wipe	
						d. d.				
South West side	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
South Side, 75 ft from South Entrance	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
South Side - 75 ft from south entrance	30 μg/m3· 50 μg/m3		2/13/2015	2 III Partial All		**				
South Side - He nurge nanel	30 µg/m3: 50 µg/m3		2/13/2015	Air - 6 Hr		**				
South Side - at South Entrance	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				21 µg/ft2
		800 μg/ft2, clearance for	_,,							
SOUTH Porta Potty top		outside surfaces	2/13/2015		Wipe	**				**
		800 μg/ft2, clearance for								
SOUTH - 100 ft from Containment		outside surfaces	2/13/2015		Wipe	140 μg/ft2				**
		800 μg/ft2, clearance for								
SOUTH - 50 Ft from Containment		outside surfaces	2/13/2015		Wipe	**				**
		800 μg/ft2, clearance for								
SOUTH - 50 Ft from Containment - 2		outside surfaces	2/13/2015		Wipe	**				**
		$800 \mu\text{g/tt2}$, clearance for	2/42/2015			<u>()</u>				**
SOUTH - 50 Ft from Containment - 3		OUTSIDE SUITACES	2/13/2015		Wipe	68 μg/ft2				**
SOLITH 100 ft from Containment 2		out μg/ILZ, clearance for	2/12/201E		Wine	74.ug/f+2				**
		800 ug/ft2 clearance for	2/13/2015		wipe	74 µg/1t2				** ** 39 μg/ft2 19 μg/ft2 19 μg/ft2 190 μg/ft2 ** 66 μg/ft2 ////////////////////////////////////
SOUTH- 100 ft from Containment - 3		Outside surfaces	2/13/2015		Wine	470 µg/ft2				**
		800 µg/ft2, clearance for	2/15/2015		wipe	470 μ5/112				
SOUTH - 0-10 ft from containment pt - Generator		outside surfaces	2/13/2015		Wipe	890 µg/ft2	Resampled on 2/24/2015		Wipe	**

		Requir	rement		Initial As	sesseme	nt		Veri	fication	
	Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of	Sample	
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
	NORTH - 100 ft from Contaiment Porta-Potty-2		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	97 μg/ft2				**
	NORTH - 100 ft from Contaiment Porta-Potty-3		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	67 µg/ft2				**
	NORTH - 10 ft from Stand	30 µg/m3; 50 µg/m3				1 ⁻ I	1.0	2/17/2015	8 hr Air		**
~	NORTH - 10 ft from Stand	30 µg/m3; 50 µg/m3						2/17/2015	8 hr Air		39 μg/ft2
5	NORTH - 50 ft from Stand	30 µg/m3; 50 µg/m3						2/17/2015	8hr Air		19 μg/ft2
	NORTH - 50 ft from Stand	30 µg/m3; 50 µg/m3						2/17/2015	8hr Air		41 μg/ft2
	NORTH - 10 ft from Stand		800 μg/ft2, clearance for outside surfaces					2/18/2015	8 hr Air		190 μg/ft2
	NORTH - 50 ft from Stand		800 μg/π2, clearance for outside surfaces					2/18/2015	8 hr Air		**
2	NORTH - 100 ft from Stand		800 μg/ft2, clearance for outside surfaces					2/18/2015	8hr Air		66 μg/ft2
	NORTH - 100 ft from Stand		800 μg/ft2, clearance for outside surfaces					2/18/2015	8hr Air		
	NORTH - 100 ft from Stand		800 µg/ft2, clearance for outside surfaces	S	ee Verific	ation San	nple	2/18/2015	8hr Air		
			800 μg/ft2, clearance for								
	NORTH - 0' from stand		outside surfaces 800 ug/ft2. clearance for					2/17/2015		Wipe	
	NORTH - 20' from stand		outside surfaces					2/17/2015		Wipe	
	NORTH - 0' from stand		800 μg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
	NORTH - 20' from stand		outside surfaces					2/17/2015		Wipe	
	NORTH - 0' from stand		800 μg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
	NORTH - 20' from stand		800 μg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
	South West side	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	South Side, 75 ft from South Entrance	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	South side, He Purge Panel	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	South Side - 75 ft from south entrance	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				
	South Side - He purge panel	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				
	South Side - at South Entrance	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				21 μg/ft2
	SOUTH Porta Potty top		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	**				**
	SOUTH - 100 ft from Containment		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	140 µg/ft2				**
	SOUTH - 50 Ft from Containment		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	**				**
			800 µg/ft2. clearance for	_//							
	SOUTH - 50 Ft from Containment - 2		outside surfaces	2/13/2015		Wipe	**				**
	SOUTH - 50 Ft from Containment - 3		outside surfaces	2/13/2015		Wipe	68 μg/ft2				**
	SOUTH- 100 ft from Containment - 2		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	74 μg/ft2				**
	SOUTH- 100 ft from Containment - 3		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	470 μg/ft2				**
	SOUTH - 0-10 ft from containment pt - Generator		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	890 μg/ft2	Resampled on 2/24/2015		Wipe	**

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	LEGEND
	Below Detection Limits
**	for Sampling and Analytical Equipment
	Not Applicable
	Compliant with Requirements
	Above Regulatory Requirements

Data as of August 18th, 2015
Total Samples Taken - 549
Approximate Number of Samples

Planned - 430

Location Dot - Mr. June - Mage Date of Mr. Paye of Sample Initial Mr. Wipe Verification Result Puer of Sample Arr Water Sample With Result Mr. Sam Soc Mr. addr.S. Sample Mr. addr.Sample		• • •	Requir	rement		Initial A	ssesseme	nt		Ver	ification	
Image: space in the s		Location	OSHA - Air (Action		Date of	Type of	f Sample	Initial	Verification Date	Type of	f Sample	
000000000 100000000			Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
Note Note Note Note Note Note Note No		10 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air		**
B)0.5 darbails JU/Line		10 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air		21 μg/ft2
Note Note Set Note Set <th< td=""><td>DR</td><td>10 ft South Side</td><td>30 µg/m3; 50 µg/m3</td><td></td><td></td><td></td><td></td><td></td><td>2/24/2015</td><td>Air</td><td></td><td>**</td></th<>	DR	10 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air		**
Note Note Note Note Note Note 204/2012 0.000<	RIC	50 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air		60 μg/ft2
Notes Nongent, Norgent Nongent, Norgent Norgent, Norgent Norgent <t< td=""><td>E</td><td>50 ft South Side</td><td>30 µg/m3; 50 µg/m3</td><td></td><td></td><td></td><td></td><td></td><td>2/24/2015</td><td>Air</td><td></td><td>**</td></t<>	E	50 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air		**
Port No. 500 (1) Bulger 1, sugers Bulger 2, sugers<	.X	50 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air		200 μg/ft2
Opposite International water students of the series of the s	, H	100 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air		**
Spect function Build from the function	5	100 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air		33 μg/ft2
Note Start Outlook Steares for outlook Uses Number outlook Uses Number outlook Uses Number outlook Uses Number outlook Number out	Ō	100 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air		**
back 0.code directorizer 0.code 0.code directorizer 0.2007 000000000000000000000000000000000	•			800 μg/ft2, clearance for								
Bodi Octigie III: equirment 9000 gpl/3, document for both deside sample pandi 9000 gpl/3, document for both desid		South Outside Generator		outside surfaces					2/24/2015		Wipe	**
South dualiset implement South d				800 μg/ft2, clearance for								
Such dictide langle gaael 000 langle 2, detende for out dictide langle 2, detende for out dictide langle 1, deven 000 langle 2, detende for out dictide langle 1, deven 000 langle 2, devende for out dictide langle 1, deven 000 langle 2, devende for out dictide langle 1, devende for out dictide langle 1, devende langle 2, devende for out dictide langle 2, devende for out dictide langle 1, devend dictid		South Outside lift equipment		outside surfaces					2/24/2015		Wipe	15 μg/ft2
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Such nutride light over Sourgety, closure for outside winders See Verification Sample 2/1//2015 Wee 98.82/P2 Such nutride light over 800 µUZ, cleane for outside winders 800 µUZ, cleane for outside winders Wee 2/24/2015 Wee 98.82/P2 Such nutride light over 800 µUZ, cleane for outside winders 800 µUZ, cleane for outside winders Wee 98.82/P2 Such nutride light old 800 µUZ, cleane for outside winders 800 µUZ, cleane for outside winders Wee 98.82/P2 Such nutride light old 800 µUZ, cleane for outside winders 800 µUZ, cleane for outside winders Wee 98.82/P2 Such nutride light old 800 µUZ, cleane for outside winders 800 µUZ, cleane for outside winders Wee 98.82/P2 Such nutride light old 800 µUZ, cleane for outside winders 800 µUZ, cleane for outside winders 21/2/2015 Wee 98.92/P2 Such nutride light place 800 µUZ, cleane for outside winders 21/2/2015 Wee 98.92/P2 Wet outside parking honger #1 800 µUZ, cleane for outside winders 21/2/2015 Wee 91.82/P2 Wet outside parking honger #2 800 µUZ		South outside sample panel		outside surfaces					2/24/2015		Wipe	130 µg/ft2
Soch outside light ower Soch outside l				800 μg/ft2, clearance for								
Sorth outside V1 34 Panel 400 ap/12: detrance for outside surfaces 2/24/2015 Wipe Sorth outside farman 800 ap/12: detrance for outside surfaces 2/24/2015 Wipe 12/24/2015 Sorth outside farman 800 ap/12: detrance for outside surfaces 800 ap/12: detrance for outside surfaces 12/24/2015 Wipe 12/24/2015 Sorth outside farman 800 ap/12: detrance for outside surfaces 800 ap/12: detrance for outside surfaces 12/24/2015 Wipe 32 ap/12 Sorth outside farman 800 ap/12: detrance for outside surfaces 800 ap/12: detrance for outside surfaces 12/24/2015 Wipe 32 ap/12 Sorth outside fight pole 800 ap/12: detrance for outside surfaces 800 ap/12: detrance for outside surfaces 12/24/2015 Wipe 32 ap/12 Sorth outside fight pole 800 ap/12: detrance for outside surfaces 800 ap/12: detrance for outside surfaces 12/12/2015 Wipe 33 ap/12 West outside paring surface for outside surfaces 800 ap/12: detrance for outside surfaces 12/12/2015 Wipe 33 ap/12 West outside paring surface f1 800 ap/12: detrance for outside surfaces 2/12/2015 Wipe 13 ap/12		South outside light tower		outside surfaces	S	oo Vorifi	ration Sau	nnle	2/24/2015		Wipe	28 μg/ft2
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Such ausside small case 800 µg/12, depance for solution uside small case 900 µg/12, depance for outside unice: 92/42/015 Wipe South outside feeling pipe 800 µg/12, depance for outside unice: 900 µg/12, depance for outside unice: 92/42/015 Wipe 15 µg/12 South outside feeling pipe 800 µg/12, depance for outside unice: 800 µg/12, depance for outside unice: 92/42/015 Wipe 12 µg/12 South outside feeling pipe 800 µg/12, depance for outside unice: 800 µg/12, depance for outside unice: 92/42/015 Wipe 12 µg/12 South outside fight pole 800 µg/12, depance for outside unice: 2/12/2015 Wipe 38 µg/12 West fortal hoty top 800 µg/12, depance for outside unice: 2/12/2015 Wipe 18 µg/12 West outside parking humper r11 800 µg/12, depance for outside unice: 2/12/2015 Wipe 18 µg/12 West outside parking humper r12 800 µg/12, depance for outside unice: 2/12/2015 Wipe 2/2/2/2015 Wipe Yest outside parking humper r12 800 µg/12, depance for outside unice: 2/12/2015 Wipe 2/2/2/2015 Wipe Yest outside parking strige #		South outside VJ 134 Panel		outside surfaces					2/24/2015		Wipe	
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South outside fredring pipe B00 µg/12, clearance for outside surfaces 3 outh outside legts game Wipe 15 µg/12 South outside fredring pipe 800 µg/12, clearance for outside surfaces 3 outh outside 2/0 Machine 800 µg/12, clearance for outside surfaces 3 outh outside legts pole Wipe 12 µg/12 South outside Volvo Machine 800 µg/12, clearance for outside surfaces 3 outh outside legts pole Wipe 12 µg/12 South outside legts pole 800 µg/12, clearance for outside surfaces 3 outside surfaces 800 µg/12, clearance for outside surfaces 12 µg/12 WEST Porta Porty top 800 µg/12, clearance for outside surfaces 21 µg/12 12 µg/12 West outside parking bumper #1 800 µg/12, clearance for outside surfaces 21 µg/12 12 µg/12 West outside parking bumper #2 800 µg/12, clearance for outside surfaces 21 µg/12 12 µg/12 West outside parking bumper #1 800 µg/12, clearance for outside surfaces 21 µg/12 12 µg/12 West outside parking stripe #1 800 µg/12, clearance for outside surfaces 12 µg/12 12 µg/12 West outside parking stripe #1 800 µg/12, clearance for outside surfaces 12 µg/12 10 µg/12 West outside parking stripe #1 800 µg/12, clear		South outside small crane							2/24/2015		Wipe	
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More and the state of		South outside feeding nine							2/24/2015		Wine	15 µg/ft2
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Visit Outcome tange data Output/2, clearance for outside surfaces Output/2, clearance for output/2, clearance for		South outside large crane							2/24/2015		Wine	29 µg/ft2
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boot outside voluments BOD ge/f12, clearance for outside surfaces South outside light pole Imple		South outside 470 Machine							2/24/2015		Wine	12 µg/ft2
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West outside blue bin 000 µg/h2, clearance for outside surfaces West outside light plant 800 µg/h2, clearance for outside surfaces West outside parking stripe #1 800 µg/h2, clearance for outside surfaces West outside parking stripe #2 800 µg/h2, clearance for outside surfaces West outside parking stripe #3 800 µg/h2, clearance for outside surfaces West outside parking stripe #4 800 µg/h2, clearance for outside surfaces West outside parking stripe #3 800 µg/h2, clearance for outside surfaces West outside parking stripe #4 800 µg/h2, clearance for outside surfaces West outside parking stripe #4 800 µg/h2, clearance for outside surfaces West outside parking stripe #4 800 µg/h2, clearance for outside surfaces West outside parking stripe #4 800 µg/h2, clearance for outside surfaces West outside parking stripe #4 800 µg/h2, clearance for outside surfaces West outside parking stripe #4 800 µg/h2, clearance for outside surfaces West outside parking stripe #4 800 µg/h2, clearance for outside surfaces West outside parking stripe #4 800 µg/h2, clearance for outside surfaces West outside parking stripe #4 800 µg/h2, clearance for outside surfaces West outside parking stripe #4 800 µg/h2, clearance for				800 ug/ft2_clearance for					-1 - 1		mpe	
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West outside light plant Obs parking stripe #1 Obs parking stripe #2 Quest outside surfaces West outside parking stripe #3 800 µg/ft2, clearance for outside surfaces 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe West outside parking stripe #3 800 µg/ft2, clearance for outside surfaces 800 µg/ft2, clearance for outside surfaces 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe West outside parking stripe #3 800 µg/ft2, clearance for outside surfaces 800 µg/ft2, clearance for outside surfaces 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe West outside parking stripe #4 800 µg/ft2, clearance for outside surfaces 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe	SIC			800 ug/ft2_clearance for					2/24/2013		wipe	
West outside ngrit paint Outside suffaces West outside ngrit paint 800 µg/ft2, clearance for outside surfaces West outside parking stripe #2 800 µg/ft2, clearance for outside surfaces West outside parking stripe #3 800 µg/ft2, clearance for outside surfaces West outside parking stripe #4 800 µg/ft2, clearance for outside surfaces West outside parking stripe #4 800 µg/ft2, clearance for outside surfaces	LEI	West outside light plant							2/24/2015		Wine	
West outside parking stripe #1 Ood pay field outline for outside surfaces See Verification Section 2/24/2015 Wipe West outside parking stripe #2 800 µg/ft2, clearance for outside surfaces 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe West outside parking stripe #3 800 µg/ft2, clearance for outside surfaces 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe West outside parking stripe #4 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe	.X			800 ug/ft? clearance for							wipe	
West outside parking stripe #2 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe West outside parking stripe #3 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe West outside parking stripe #4 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe	Ē	West outside narking strine #1			S S	ee Veritio	cation Sec	ction	2/24/2015		Wine	
S West outside parking stripe #2 Outside surfaces West outside parking stripe #3 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe West outside parking stripe #4 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe	/ES			800 µg/ft2 clearance for							wipe	
West outside parking stripe #3 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe West outside parking stripe #4 0utside surfaces 2/24/2015 Wipe	5	West outside parking strine #7		Outside surfaces					2/24/2015		Wine	
West outside parking stripe #3 Outside surfaces West outside parking stripe #4 800 µg/ft2, clearance for outside surfaces 2/24/2015 Wipe				800 µg/ft2, clearance for							wipe	
West outside parking stripe #4 000 uside surfaces 2/24/2015 2/24/2015 Wipe		West outside parking strine #3		Outside surfaces					2/24/2015		Wine	
West outside parking stripe #4 Outside surfaces 2/24/2015				800 µg/ft2. clearance for							wipe	
		West outside parking stripe #4		outside surfaces					2/24/2015		Wipe	

Data as of August 18th, 2015
Total Samples Taken - 549
Approximate Number of Samples Planned - 430
Total Samples Above Limits - 62

	LEGEND
	Below Detection Limits
**	for Sampling and Analytical Equipment
	Not Applicable
	Compliant with Requirements
	Above Regulatory Requirements

	Total Samples Above Limits - 62			Compliant with Requirements								
		-			Above Re	egulatory Re	quirements					
		Requirement			Initial As	sesseme	nt	Verification				
	Location	OSHA - Air (Action	DSHA - Air (Action		Type of S	Sample	Initial	Verification Date	Type of Sample		Verification Result	
		Level; Permissible	nob - wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	vermeation Result	
	West generator		800 μg/ft2, clearance for outside surfaces					2/24/2015		Wipe		
											3	
	East fan		800 μg/ft2, clearance for outside surfaces	2/24/2015		Wipe	41 μg/ft2					
N	East Orange Machine		800 μg/ft2, clearance for outside surfaces	2/24/2015		Wipe	49 μg/ft2					
rerio	East Dock Wall #3		800 μg/ft2, clearance for outside surfaces	2/24/2015		Wipe	19 µg/ft2					
T EX	Fast Dock Wall #2		800 μg/ft2, clearance for	2/24/2015		Wing	17 ug/ft0					
.SAS			800 µg/ft2, clearance for	2/24/2015		wipe	17 µg/112					
ш	East Light Pole		outside surfaces	2/24/2015		Wipe	49 μg/ft2					
	East Rail		800 µg/ft2, clearance for outside surfaces	2/24/2015		Wipe	86 μg/ft2					