

ANALYTICAL REPORT

MAR 1 9 2007 Report Date

(b)(4)

Mississippi Space Services Mississippi Space Services Environmental Health, B-2104 Stennis Space Center, MS 39529

Phone:	(b)(4)
Fax:	(228) 688-1326
E-mail:	(b)(4)

Client Project ID: **Mississippi Space 031607** DCL Workorder: (b)(4)

Analytical Results		DCL Project Mana	ager: (b)(4)
Sample ID <u>2042-2007-001</u> Lab ID 7075030001	Med	dia. Paint Chip	Received 3/16/2007
Method: NIOSH 7082			Analyzed: 3/19/2007
Analyte	%	RL (%)	
Lead	0.017	0.0025	

General Lab Comments

The results provided in this report relate only to the items tested. Samples were received in acceptable condition unless otherwise noted. Samples have not been field blank corrected unless otherwise noted.

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DataChem Laboratories, Inc. is accredited by AIHA for specific fields of testing as documented in its current scope of accreditation (ID#101574) which is available on request by contacting your project manager or view on the internet at http://www.aiha.org. The quality systems implemented in the laboratory apply to all methods performed by DataChem regardless of this current scope of accreditation which does not include performance based methods, modified methods, and methods applied to matrices not listed in the methods.

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\$	INI55	W 7075030	Build	ssippi Space Services ing 2104 C. Stennis Space Center, MS 39529-6000
		-CHAIN	OF CUSTODY- 7	075030
	Mississippi Space Servic Building 2104		<i>i</i>	
	John C. Stennis Space C	enter, MS 39529 MSS	S Contact:	(b)(4)
	MSS Phone:	(b)(4) MSS	S Fax:	228-688-1326
	Laboratory:	DataChem Laboratories	MSS Project Number:	2042-2007
	Laboratory Address:	960 West LeVoy Drive,Salt Lake City, UT 84123	e Turn Around Time:	24 Hours
	Laboratory Phone:	800-356-9135		
	MSS Sample Numbe	er Analysis Requested	Sample Volume	Units of Result Requested
	2042-2007-001	Lead Content	Paint Chips/	
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	Shipped By:		Date: /	Time:
	Received By:	(b)(4)	Date: 3(60-	Time: 1000

EMSL	EMSL Analy 3 Cooper St., W Phone: (856) 878-43	estmont, NJ 08108	1 Email: <u>vz</u>	<u>estrontlessiab@emal.c</u>	<u>om</u>
Buildi Stenn	4) os FOSC Group ing 2108 ils Space Cente ondhead, MS 3	er		Customer ID: Customer PO: Received: EMSL Order:	JCWS50 11/20/08 10:35 AM (b)(4)
Fax: (228)	688-3368 -2008-0	Phone: (b)(4)		EMSL Proj:	
				Report Date:	11/20/2008

Lead in Paint Chips by Flame AAS (SW 846 3050B and 7420*)

_	Client Sample Description	Lab ID	Collected	Analyzed	Lead Concentration
	3152-01	0001	11/18/2008	11/20/2008	2.1 % wt
	pai	nt chip san	ples		

or other approved signatory

Reporting limit is 0.01 % wf. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. 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.

* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted

ACCREDITATIONS: NJ-NELAP: 04653, AIHA Environmental Lead Laboratory Approval Program: 100194



107 Haddon Avenue, Westmont, New Jersey 08108

1-800-220-3675

http://www.emsl.com

EMSL ANALYTICAL, Inc.	CHAIN OF CUSTODY	· · · · · · · · · · · · · · · · · · ·
	و ^{رو} چی <u>ن با از محمد میں میں محمد میں مرحمد میں اور محمد میں میں معمد میں میں محمد میں میں محمد مع</u>	
EMSI, Rep:		Third Party Billing requires written authorization from third party
Your Name: Company: (b)(4)	EMSL-Bill to:	Charles
• •	e Centor Street:	SAME_
Street: Stemis Space Box #: Bla 2104	<u>2 2010</u> Box #:	
City/State:	Zip 39520 City/State:	Zip
· · · · · · · · · · · · · · · · · · ·		······
Phone Results to: Name: (b)(4)	Fax Results to: Name:	(b)(4)
Telephone #: (b)(4)		-1326 (b)
Project Name/Number:	Bueshees Outer #	
Project (Manae/Mumoer: 3152 - 200	<u>-0</u>	
3 Hears 6 Hours 12 Hours 24 Ho	TURNAROUND TIME	
3 Hours 6 Hours 12 Hours 324 Ho	RES 0 48 Hours 0 72 Hours 0 4 Days SAMPLE MATRIX	🗆 5 Days 🛛 6-10 Days
Air DB Bulk O Soil O Wipe		astewater Chips Other
ASBESTOS ANALYSIS		MICROBIAL ANALYSIS
		INTOTIODIAL ANALIGIO
PCN - Air NDSH 7400 (A) Issue 2: August 1994	Flame Atomic Absorption	Air Samples
□ OSHA w/TWA	Soil, SW846-7420	Mold & Fungi by Agar Plate count & id
TEMAIR	Air, NOSII 7082	Bucterial Count and Gram Stain
AHERA 40 CFR, Part 763 Subpart E	Chips. SW846-7420 or AOAC 5.009 (974.02)	Becterial Count and Identification Water Samples
	CLP LEAD SW846-1311/7420	Total Coliforms, Fecal Coliforms
PLM - Bulk	Graphite Furnace Atomic Absorption	Escherichia Coli, Fecal Streptococcus
EPA 600/R-93/116	Air, NK)SH 7105 Wastewater, SW846-7421	E Legionella
California Air Resource Board (CARB) 435	Soil, SW846-7421	Giardia and Cryptosporidium
NIOSH 9002	Drinking Water, EPA 239.2	Wipe and Bulk Samples
PLM NOB (Gravimetric) NYS 198.1	ICP - Inductively Coupled Plasma	Mold & Fungi – Direct Examination
EPA Point Count (1,000 Points)	Soil, SW846-6010	Mold & Fungi - (Culture follow up to direct examination if necessary)
Standard Addition Point Count	Air, NIOSH 7300	Mold & Fungi - Culture (Count & ID)
SOILS EPA Protocol Qualitative		Mold & Fungi – Culture (Count only)
EPA Protocol Quantitative		Bacterial Count & Identification
EMSL MSD 9000 Method fibers/gram	MATERIALS ANALYSIS	(3 most prominent types)
Superfund EPA 540-R097-028 (dust generation)	Full Particle Identification Optical Particle Identification	Other:
Drop Mount (Qualitative)	Dust Mites and Insect Fragments	
Chatfield SOP-1988-02	Particle Size & Distribution	IAQ ANALYSIS
TEM MICROVAC	Paint Characterizaton	Nuisance Dust (NiOSH 0500 & 0600)
ASTM D 5755-95 (Quantitative)	Failure Analysis	Airborne Dust (PM10, TSP)
	Corrosion Analysis Glove Box Containment Study	Silica Analysis by XRD Niosh 7500
ASTM D-6480-99	Petrographic Examination of Concrete	Carbon Black
TEM WATER	Portland Comont in Workplace Atmospheres (OSHA ID-143)	Arthorne Oil Mist
EPA 100.1	Man Made Vitrous Fibers - MMVF's	Other:
EPA 100.2	Synthetic Fiber Identification	4
OTHER:	Other	-
Client Sample # (S)	·	TOTAL SAMPLE #
· · · · · · · · · · · · · · · · · · ·		_
Retinquished:	Date: Date:	Time: Time:
Kelinguished:	Date:	Time:
Received:	Date:	Time:

Time: Page 1 of 2 EMSL Analytical 3 Cooper St., Westmont, NJ 08108 Proce, D001055-8800 Pex; 0550.285, 5551 State, 5551

Attn:	(b)(4) Jacobs FOSC Gro	and	Customer ID: Customer PO:	JCWS50
	Building 2108	, ab	Received:	11/25/08 9:47 AM
	Stennis Space Ce		EMSL Order:	(b)(4)
L	Diamondhead, MS	5 39529		
Fax: Project:	(228) 688-3368 3165-2008	Phone: (b)(4)	EMSL Proj:	
	17		ReportD ate:	11/25/2008

Lead in Air by Flame AAS (NIOSH 7082)

Client Sample Description	Lab ID	Collected Analyzed	Volume	Lead Concentration
3165-P1	0001	11/25/2008	234 L	<17 µg/m³
3165-P2	0002	11/25/2008	234 L	<17 µg/m³
3165-P3	0003	11/25/2008	225 L	<18 µg/m³
3165-P4	0004	11/25/2008	225 L	<18 µg/m³
3165-A1	0005	11/25/2008	243 L	<16 µg/m³
3165-A2	0006	11/25/2008	225 L	22 µg/m³
3165-A3	0007	11/25/2008	243 L	<16 µg/m³
3165-A4	0008	11/25/2008	225 L	<18 µg/m³
3165-QA1	0009	11/25/2008	136.5 L	<29 µg/m³
3165-QA2	0010	11/25/2008	136.5 L	<29 µg/m³
3165-Blank 1	0011	11/25/2008	n/a	<4.0 µg/filter



(b)(4) L ead Lab Supervisor or other approved signatory

Reporting limits s 4 µg/filter. OSHA PEL - 50 µg/m⁴.O SHA action level - 30 µg/m⁴.T he QC data associated with the sample results included in this reportment et the recovery and precision requirements established by the AIHA, unless specifically indicated otherwise in the comments ection. Unless otherwise noted, results in this report re not blank corrected. The Lacoratory is not esponsible for data reported in µg/m⁴ which is dependenton volume collected by non-laboratory personnel. This report are not blank corrected, withouw ritten approval by EMSL. This report relates only to those ltems tested. S amples received in good condition unless otherwise noted.Q uality Control Data associated with this samples are is within acceptable limits, unless otherwise noted ACCREDITATIONS: NJ-NELAP: 04853, ACCREDITATIONS:A IHA accreditation #100194

Date Printed:11 /25/2008 2:51:59 PM ChmSnglePrm/nQC



Received:

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107 Haddon Avenue, Westmont, New Jersey 08108

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EMSL ANALYTICAL, Inc.	CHAIN OF CUSTODY	
EMSI. Rep:		Third Party Billing requires written authorization from third party
Your Name: Company: (b)(4)	EMSL-Bill to:	ME
Street: 2104 Bldg	Street:	<pre>KII' =</pre>
Box #: Stennis Sales Ce	Box #:	2
City/State: MS	7.ip <u>59520</u> City/State:	Zip
Phone Results to: Name: (b)(4)	Fax Results to: Name:	228 688 1326
Tclephone #: (b)(4)	Fax #:	
Project Name/Number: 3165 - 20	Purchase Order #:	(15)(4)
510-0		(0)(4)
3 Hours 6 Hours 0 12 Hours 24 Ho		5 Days D 6-10 Days
The Air O Bulk O Soil O Wipe	SAMPLE MATRIX	istewater 🛛 C'hips 🔲 Other
DE Air O Bulk O Soil 🗆 Wipe	I Mitere-Vac C Drinking water L Wa	iziewater. Culta Crues.
ASBESTOS ANALYSIS	LEAD ANALYSIS	MICROBIAL ANALYSIS
PCN - Air NIOSH 7400 (A) Issue 2: August 1994	Flame Atomic Absorption Wipe, SW846-7420 ASTM In non ASTM	Air Samples Mold & Fungi by Air O Cell
OSHA WTWA	Soil, SW846-7420	Mold & Fungi by Agar Plate count & id
TEM AIR	Air, NIOSH 7082	Becterial Count and Gram Stain
AHERA 40 CFR, Part 763 Subpart E	Wastewater, SW 846-7420	Water Samples
EPA Lovel II	CLP LEAD SW846-1311/7420	Total Coliforms, Fecal Coliforms
PLM - Bulk	Graphite Furnace Atomic Absorption	Escherichia Coli, Fecal Streptococcus
EPA 600/R-93/116 NY Stratified Point Count	Air, NK)SH 7105	
California Air Resource Board (CARB) 435	Soil, SW846-7421	Giardia and Cryptosporidium
NIOSH 9002	Drinking Water, EPA 239.2	Wipe and Bulk Samples
PLM NOB (Gravimetric) NYS 198.1 EPA Point Count (400 Prants)	ICP - Inductively Coupled Plasma	Mold & Fungi – Direct Examination Mold & Fungi – (Culture follow up to
EPA Point Count (1,000 Points)	Soil. SW846-6010	direct examination if necessary)
Standard Addition Point Count	Air, NIOSH 7300	🚺 Mold & Fungi - Culture (Count & ID)
SOILS EPA Protocol Qualitative		Mold & Fungi – Culture (Count only)
EPA Protecol Quantitative		Bacterial Count & Identification
EMSL MSD 9000 Method fibers/gram	MATERIALS ANALYSIS	(3 most prominent types)
Superfund EPA 540-R097-028 (dust generation)	Full Particle Identification Optical Particle Identification	Other:
Drop Mount (Qualitative)	Dust Mites and insect Fragments	
Chatfield SOP-1988-02	Particle Size & Distribution	IAQ ANALYSIS
TEM NOB ((invumetric) NY 198.4	Paint Characterizaton	Nuisance Dust (NIOSH 0500 & 0600)
ASTM D 5755-95 (Quantitative)	Failure Analysis	Airborne Dust (PM10, TSP)
TEM WIPE	Corrosion Analysis	Silica Analysis by XRD Niosh 7500
ASTM D-5480-99 Qualitative	Petrographic Examination of Concrete	Carbon Black
TEM WATER	Portland Cement in Workplace Atmospheres	Autome Oil Mist
EPA 100.3	(OSHA ID-143)	Other:
EPA 100.2	Synthetic Fiber Identification	
OTHER:	Other	-
(Tient Sample # (S)		TOTAL SAMPLE #
Relinquished:	Date:	Time:
Received:	Date:	Time:
Kettnewished:	Date:	Time:

Date:

	Chain of Custody Asbestos Lab Services	EMSL Analytical, Inc. Suite 100 11931 Industriplex Blvd Baton Rouge, LA 70809
Please print all information Client Sample # (s)	*	Phone: (225) 755-1920 Fax: (225) 755-1989 http://www.emsl.com Total Samples #:
Relinguished	(b)(4)	Time:
Received:	Date:	Time:
Reling uished:	Date:	Time:
Received:	Date:	Time:
SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
3165-P1	Personal Air sample on Clem up worken	234.0
3165-P2	A.C. C.C.	234.0
3165-P3	<u>(`</u>	225.0
3165 P4		225.0
3165 - AI	Area sample North end	243.0
3165 AZ	Areo sample South end	225.0
3165 A3	Area sample North end	243.0
3165 A4	Aron sample southend	225.0
3165 - QAI	Quick Take Area monitoring	136.5
3165-QAZ	Quick Take Aren Monitoring	136.5
3165 - Blank 1	Blonk open in Aren	
-Blank2	Blook Not opened	

-

DVIK-	EMSL An 3 Cooper St. Phone: (056) 45	Westmont, NJ 08105	Email, westmontheation@email.co	2014	54
.ttn:	(b)(4) acobs FOSC Gro	oup	Customer ID: Customer PO:	JCWS50	
E S	Building 2108 Stennis Space Ce Diamondhead, MS	enter	Received: EMSL Order:	12/04/08 10:15 AM	
ax:	(228) 688-3368	Phone: (b)(4)	EMSL Proj:		
roject:	(b)(4)				

Lead in Paint Chips by Flame AAS (SW 846 3050B and 7420*)

Client Sample Description	Lab ID	Collected	Analyzed	Lead Concentration
3172-01	0001		12/5/2008	0.15 % wt
	PaintC hips			

(b)(4) L ead Lab Supervisor or other approved signatory

Reporting limit s 0.01 % wt. The QC data associated with these sample results included in this reportmet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are notb lank corrected. This report elates only to the samples reported above and may notbe reproduced, except in full, without written approval by EMSL.E MSL bears no responsibility for sample collection activities.

* alightm odifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted ACCREDITATIONS: NJ-NELAP: 04653, AIHA Environmental Lead Laboratory Approval Program:10 0194



107 Haddon Avenue, Westmont, New Jersey 08108

1-800-220-3675

http://www.emsl.com

EMSL ANALY	TICAL, Inc.	CHAIN OF	CUSTODY		
EMSL Rep: Your Name: Company:	(1)(4) Stennis Space Bla 2104	Certor	EMSL-Bill to: Street:	Third Party Billing require authorization from third p SAME	
Box #:			Box #:		·
City/State:	ms	7.ip 3952C	City/State:	······································	7.ip
Phone Results to: Name:	(b)(4)		Fax Results to: Name:	(b)(4)	
Telephone #:	<u> </u>)(4)	Fax #:	228 688 1	32.6
Project Name/Namber	3172 -20	708	Purchase Order #:	(b)(()
		TURNARO		(B)(.	T)
3 Hours 6 Hour	s 🔲 12 Hours 🗆 24 He		MATRIX		C 6-10 Days
D Alr Bulk	C Soli C Wipe	D Miero-Vae	Drinking Water	Wastewater D Chips	D Other
ASBESTOS AN	ALYSIS	LEAD ANAL	YSIS	MICROBIAL	ANALYSIS
PCM - Air NIOSH 7400 (A) Issue OSHA W/TWA TEM AIR AHERA 40 CFR, Part NIOSH 7402 Issue 2 EPA Level II PLM - Built EPA 600/R-93/116 NY Stratified Point Coul California Air Resource NJOSH 9002 PLM NOB (Gravimetric EPA Point Count (400 EPA Point Count (1.00 Standard Addition Point SOILS EPA Protocol Qualitativ EPA Protocol Qualitativ EPA Protocol Qualitativ Chatfield SOP-1988-02 TEM NOB (Gravimetric TEM NOB (Gravimetri	763 Subpart E unt = Board (CARB) 435 e) NYS 198.1 Prants) 0 Points) t Count we ive hod fibers/gram 197-028 (dust generation) (e) c) NY 198.4	Soil, SW846-742 Air, NIOSH 7082 Chips, SW846-742 Chips, SW846-742 Chips, SW846-742 Chips, SW846-742 Chips, SW846-60 Air, NIOSH 7102 Drinking Water, SW846-60 Drinking Water, SW846-60 Onicial Particle Ident Optical Particle Ident Optical Particle Ident Optical Particle Size & D Product Comparis Paint Characteriz Failure Analysis Corrosion Analys Glove Box Contat Petrographic Exam Portland Cement (OSIIA ID-143) Man Made Vitrou Synthetic Fiber Id	20 ASTM non ASTM 220 ASTM non ASTM 2420 or AOAC 5.009 (974.02) 846-7420 2846-7420 29 Atomic Absorption 20 Atomic Absorption 20 Atomic Absorption 20 Atomic Absorption 21 Atomic Absorption 21 Atomic Absorption 22 Atomic Absorption 23 Atomic Absorption 24 Atomic Absorption 25 ANALYSIS 26 ANALYSIS 27 Atomic Absorption 28 ANALYSIS 29 Atomic Absorption 29 Atomic Absorption 20 Atomic Absorption 21 Atomic Absorption 22 Atomic Absorption 23 Atomic Absorption 24 Atomic Absorption 24 Atomic Absorption 25 Atomic Absorption 26 Atomic Absorption 27 Atomic Absorption 28 Atomic	Mold & Fungi by Bacterial Count a Water Samples Total Colliforms, Escherichia Coli, Legionella Giardia and Cryp Wibe and Bulk Mold & Fungi - Mold & Hungi - Mold & Fungi - Mold & Hungi - Mo	Agar Plate count & id ind Gram Stain ind Identification Fecal Coliforms Fecal Streptococcus inosporidium Samples Direct Examination (Culture follow up to nation if necessary) Culture follow up to nation if necessary) Culture (Count & ID) Culture (Count & ID) Culture (Count anly) & Gram Stain & Identification in types) SIS IROSH 0500 & 0600) M10, TSP) y XRD [Niosh 7500
Client Sample # (S)		-		TOTAL SAMPLE #	
Relinquished:	·····		Date: Date:	Time:	
Kelinguished:	······································		Date:	Time:	
Received:	·	·····	Date:	Time: Page 1 of	

EMEL	Chain of Custody	EMSL Analytical, Inc. Suite 100
	Asbestos Lab Services	11931 Industriplex Blvd Baton Rouge, LA 70809
Please print all information	$\frac{172}{01} = 01$	Phone: (225) 755-1920 Fax: (225) 755-1989 http://www.emsl.com Total Samples #:O
Reling uished:	Date:	Time:
	Date:	Time:
	Date:	Time:
	Date:	Time:
SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
3172.01	Paint Chips	- MA
	a e	
	11	
		+





Stennis Space Center, MS 39529

December 16, 2008

DOH ELAP# 11626

Account (b)(4)



Dear (b)(4)

Enclosed are the analytical results for the samples received by our laboratory on December 11, 2008. 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.

Please contact (b)(4) if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories



Laboratory Direct

Enclosure(s)



FAX: (315) 437-0571 www.galsonlabs _. com	Date Sampled Date Received Date Analyzed Report ID	: 09-DEC-08 : 11-DEC-08 : 15-DEC-08 : 597354	Account No. Login No. (b)(4)
6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227	Site Project No.	: B1 Test Stand : 3196-2008	
LABORATORIES	Client	: Jacobs FOSC Group	

Iron Oxide

Sample ID	Lab ID	Air Vol <u>liter</u>	Total uq	Conc mg/m3
3196-2008-P01	L185287-1	149	17	0.11,
3196-2008-P02	L185287-2	140.4	<11	<0.076
3196-2008-P03	L185287-3	152.4	<11	<0.070
3196-2008-P04	L185287-4	147	<11	<0.073
3196-2008-P05	L185287-5	150.6	<11	<0.071
3196-2008-P06	L185287-6	149.4	<11	<0.072
3196-2008-A01	L185287-7	148.7	<11	<0.072
3196-2008-A02	L185287-8	147.2	<11	<0.073
3196-2008-A03	L185287-9	153.4	<11	<0.070
3196-2008-A04	L185287-10	148.3	<11	<0.072
3196-2008-A05	L185287-11	150.2	<11	<0.071
3196-2008-A06	L185287-12	146.3	<11	<0.073
BLANK OPEN	L185287-13	NA	<11	NA
BLANK NOT OPEN	L185287-14	NA	<11	NA

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

		1: 11. ug : mod. NIOSH 7300/OSHA : 10 mg/m3 : Filter	125G;	ICP A	ubmitted by: crg pproved by : crd 6-DEC-08 NYS DOH # : 11626 (b)(4)
>	-Less Than -Greater Than -Not Applicable	mg -Milligrams ug -Micrograms ND -Not Detected	1	-Cubic Meters -Liters -Parts per Mil	kg -Kilograms NS -Not Specified lion



iABORATORIES 6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227	Client Site Project No.	: Jacobs FOSC Group Bl Test Stand : 3196-2008	
FAX: (315) 437-0571 www.galsonlabs.com	Date Sampled Date Received Date Analyzed Report ID	: 11-DEC-08	Account No Login No. (b)(4)

Lead

<u>Sample ID</u>	<u>Lab ID</u>	Air Vol 	Total	Conc
3195-2008-P01 3196-2008-P02 3196-2008-P03 3195-2008-P04 3196-2008-P05 3195-2008-P06 3195-2008-A01 3195-2008-A02 3195-2008-A03	L185287-1 L185287-2 L185287-3 L185287-4 L185287-5 L185287-6 L185287-7 L185287-8 L185287-8 L185287-9	149 140.4 152.4 147 150.6 149.4 148.7 147.2 153.4	0.81 0.48 <0.38 <0.38 <0.38 <0.38 <0.38 <0.38 <0.38 <0.38	0.0055 0.0034 3.4 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025 <0.0025
3195-2008-A04 3196-2008-A05 3195-2008-A06 BLANK OPEN BLANK NOT OPEN	L185287-10 L185287-11 L185287-12 L185287-13 L185287-14	148.3 150.2 146.3 NA NA	<0.38 <0.38 <0.38 <0.38 <0.38 <0.38	<0.0025 <0.0025 <0.0026 NA NA

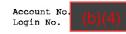
COMMENTS: Please see attached lab footnote report for any applicable footnotes.

	OSHA PEL (TWA)	: mod. NIOSH 7300/OSHA 125G; ICP A	ubmitted by: crg pproved by : crd 6-DEC-08 NYS DOH # : 11626 (b)(4)
>	-Less Than	mg -Milligrams m3 -Cubic Meters	kg -Kilograms
	-Greater Than	ug -Micrograms l -Liters	NS -Not Specified
	-Not Applicable	ND -Not Detected ppm -Parts per Mil	lion



6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227 FAX: (315) 437-0571 www.galsonlabs.com Client Name : Jacobs FOSC Group Site : B1 Test Stand Project No. : 3196-2008

Date Sampled : 09-DEC-08 Date Received: 11-DEC-08 Date Analyzed: 15-DEC-08



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).

L185287 (Report ID: 597289) : 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: im-icp(13), im-mwvfilt(9)

L185287 (Report ID: 597354) : Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low. SOFs: im-icp(13), im-mwvfilt(9) Iron calculated as iron oxide (Fe203); assuming all detected iron is iron oxide.

<	-Less Than	mg -Milligrams	π3	-Cubic Meters	kç	g -Kilograms
		ug -Micrograms		-Liters	N	3 -Not Specified
NA	-Not Applicable	ND -Not Detected	ppm	-Parts per Million		

SALSON ABORATORIES 6601 Kirkville Rd East Syracuse, NY 13057 Tel: (315) 432-5227 888-432-LABS (5227)	Check if change f address Client ? D yes X no	Report To Phone No. Fax No.		<u>Spee</u> 39520 (b)(4)	Center 32(e	Invoice To : Phone No. : Fax No. :	(88)	
Fax: (315) 437-0571 www.galsonlabs.com		Site Name	RI Tes	+ Stand		196-2008	Sampled By ()	(A)
Need Results By: (surcharge)	X Samples subr	nitted using the Fr				ibmitted using the FreeSamp))(4)
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Next Day by 6pm 100%	Email / Fax Res	suits To :			H	228 - 688 -13	27/-	
Next Day by Noon 150%	Email Address				Fax No. :	2020 001 -14	566	
Sample Identification	Date Sampled	Collection		Passive Monitors (Min)	Ar	nalysis Requested	Method Reference	Specific DL Needed
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3. \$196-2008A02	• • •]	147.2					
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10.8196 2008- A 04	1.		148.3		· · · · ·			
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Yes No We normally add List description of industry or proc	a laboratory blar	nk for each analy	yte. We will cha	rge you for this a	it our normal i	rate. If you agree please o	check "Yes" otherwise	check "No",
Comments:								
Chain of Custody	Print Name			Signature			Date/Time	<u> </u>
Relinquished by :	· · · · · ·					13702 Rhola		
Received by LAB :						12/1/08	1009	
0	Samples received	l after 3pm will be	considered as ne	ext day's business.	* sampl	e collection time X LPM = A		of Z

GALSON LABORATORNES	Check if change of address	Report To	Ska 210	(b)(4) <u>2 4</u> <u>Space</u> (artor	Invoice To :	$\leq n m >$	
3601 Kirkville Rd Ner East Syracuse, NY 13057 Tel: Tel: (315) 432-5227 888-432-LABS (5227) Fax: Fax: (315) 437-0571 www.galsonlabs.com Fax:	w Client ? U yes		<u>28</u>		1326 Project: 31910 - 1	Phone No. : Fax No. :		
Need Results By: (surcharge) 5 Business Days 0%		nitted using the Free	ePumpLoan™ Pre	ogram.	Samples submitted usin			(D)(4)
Variable Variable Variable 35% Variable Variable 50% Variable Variable 50%	Purchase Order Credit Card Email / Fax Res	No. : No. : sults To :			Card Holder Name :		E:	Kp. :
Next Day by Noon 150%	Ernail Address :				Fax No. :			
Sample Identification	Date Sampled	Collection Medium	*Air Volume) (Liters)	Passive Monitors (Min)	Analysis Rec	quested	Method Reference	Specific DL Needed
31910- 2008 - AOL	2 Dec9,08	Coscette	146.3		Lend + Iror) Oxide pe	client	
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-DEC-03 17								
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Yes No We normally ad List description of industry or pro				rge you for this a	t our normal rate. If you	agree please chec	k "Yes" otherwise	check "No".
Comments:			·					
Chain of Custody	Print_Name		I	Signature	1		Date/Time	· · ·
Relinquished by :						11/08 1320		
Received by LAB :							10091	
Login # :	Samples recei	ved after 3pm v	vill be consid	ered as next da	y's business.	10-1-10-	liection time X LP	M = Air Vol.



LABORATORY ANALYSIS REPORT

6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227	а	Client Site Project No.	: Jacobs FOSC Group : B-1 Stand : Piping	
FAX: (315) 437-0571 www.galsonlabs.com		Date Sampled Date Received Date Analyzed Report ID	: 18-MAR-11 : 22-MAR-11 : 24-MAR-11 : 685571	Account No Login No. (b)(4)

Lead

Sample ID	<u>Lab ID</u>	Weight g	Total ug	Conc <u>mg/kg</u>	Percent
5031-2011-01	L236206-3	0.09	27000	270000	27
5031-2011-02	L236206-4	0.04	5300	120000	12
5031-2011-03	L236206-5	0.10	23000	220000	22

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

	Level of quantitatio Analytical Method OSHA PEL (TWA) Collection Media	n: 24. mg/kg : mod. OSHA 125G/SW846 : NA : Paint	6010B/C;ICP;PAINT Approv	ted by: cju red by : DEH 11 NYS DOH # : 11626
< > NA	-Less Than -Greater Than -Not Applicable	mg -Milligrams ug -Micrograms ND -Not Detected	m3 -Cubic Meters l -Liters ppm -Parts per Million	kg -Kilograms NS -Not Specified

	Check If change of address	Report To*;	(b)(<u>1206</u>	fosc	invo	NC9 To* :	SAMe	Ż
6601 Kirkville Pid Eest Syracuse, NY 13057 Tel: 315-432-5227 888-432-5227 Fee: 315-437-0571 www.galsonlabs.com	n on	Phone No.* : Fax No.* : Site Name :	228 6 B-1 Stan	b)(4) <u>88 (2956</u> Projec		ne No. : v/Email : San	npled By :	(h)(4)
Need Results-By*: (surcharge)	Samples sub	mitted using the l		í			eeSamplingBadges	T# Program.
5 Business Days 0%	Client Account Ne							
4 Business Days 35%	Purchase Order N							
3 Business Days 50%	Credit Ca	rd : Credit Card o	n File				<u> </u>	
2 Business Days 75% Next Day, by 6pm 100%		¹ Will Phone in	Credit Card informatio			Please indicate	which OEL this data w	vill be used for: 1
Next Day by Noon 150%	Email Results To :			<u> </u>		OSHA PEL	⊡ ACGI⊦	
Same Day 200%	Email Address :						Cither	(please specify)
Sample Identification*	Date Sampled	Collection Medium	Sample* Volume (Time, or Area) (Sample Units* (L., ml, min., in2, cm2, ft2)	Analysis	Requested*	Method Reference*	Metals Technique Required, ICAP or ICPMS" (Additional Cost)
EXAMPLE	01/01/10	3pc UW MCE	960	L	Lead		Mod NIOSH 7300	ICPMS
5032 2011-01	03/18/11	Wipe	- 1	·	PCR			
5032-2011-02		hhoe.		-	PCR			
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			├───┤				ļ	
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For Hexavalent Chromium: proces	s must be listed fo	x each sample su	bmitted (eg., we	ling, plating, paintin	g, etc.)*:		(I	
For Crystalline Silica: form(s) of si				nd/or Triclymite)*:	·	1741.1		
List description of industry or pro- Comments:	cess/interferences	present in samplin	ng area:					
	X							
Chain of Custody	Print Name		*	Signat			Date/Tim	e
Relinquished by : Received by LAB :						2	MAC 11 2	-21-17
nauerved by LAB :							3 Jahr	1011
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NAS	National Aeronautics and Space Administration John C. Stønnis Space Center Størnis Space Center, MS 30529-0000	CONTR	RACTOR TRA	NSMIT	TAL SI	IEET		DATE 7/22/11 SHEET 1 Q	F 1
	SECT	ION I - REQUEST		/AI (To	he Initiated	by the Contracto	-1	SHEET I U	
	TRANSMITTAL OF SHOP DRAWING MANUFACTURER'S		IAL SAMPLES OR	AL SAMPLES OR CONTRA			0		
TO		FROM	PREVIOUS TRANSMITTAL NO. (If Any)					TRANSMITTAL	NO.
()	b)(4)	South Gulf, Inc.		N/A				039	
SPECIFI	ICATION AND SECTION NO. (Cover Only On	e Section With Each Transmittal)	PROJECT TITLE AND	LOCATIO	N	·······			
200H0	-G017 Section 02 82 33.13 20		Replace B Test St	and Leve	I 20 Work	Deck			
ITEM NO. (a)	DESCRIPTION OF ITEM (Type, Size, Model Nu (See Instruction N (b)	MANUFACTURER (See Instruction (c)		NO, OF COPIES (d)	CONTRACT R DOCUM SPECIFICATION PARAGRAPH NO. (9)			ACTION CODE (See Instruction No. 9) (h)	
1	Air Monitoring Results		South Gulf, Inc		5	3.3.1.1	(ŧ)		<u> </u>
	DECE DU JUL 2 DOCUMEN	2 2011 T CONTROL							
REMARI	KS				8	certify that the abound are correct and i and specifications, e NAME AND	in strict confo xcept as stat (b)	mance with the	contract drawing
FNCL OS	SURES RETURNED (List by Item No.)		II - APPROV						
	2005) (Ms Word 2003) C.G. (08/2006) pc	NAME, ITTLE,	AND SIGNATURE OF A	PPROVING	AUTHORITY			DATE	

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4320 Midmost Drive Mobile, Alabama 36609 Phone (251) 344-9106 Fax (251) 341-9492

P.O. Box 170 Fairhope AL, 36533 Phone: (251) 583-9917 Fax: (850) 547-5560

Attention:

Project: Pb

Project Number: NASA / SSC- B-Test Stand

Reported: 07/22/11 09:26

SUMMARY REPORT

This report is a summary of results for the analysis of the samples listed below that were received by the laboratory on 07/20/11 17:24. A final report package will follow, which will contain additional information concerning these analyses. If you have any questions concerning this report, please feel free to call (b)(4)

Sample Description	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
1 - Blank NASA	11G0355-01	Air	Composite	07/20/11 15:00	07/20/11 17:24
2 - Inside Work Zone NASA	11G0355-02	Air	Composite	07/20/11 15:00	07/20/11 17:24
3 - Outside Work Zone NASA	11G0355-03	Air	Composite	07/20/11 15:00	07/20/11 17:24
4 - Personnel NASA	11G0355-04	Air	Composite	07/20/11 15:00	07/20/11 17:24





The test results in this report meet NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the sample(s) received by this laboratory. This report must be reproduced in its entirety unless approved by the laboratory.

Results are reported on a Wet weight basis,"unless otherwise noted.

Page 1 of 2



4320 Midmost Drive Mobile, Alabama 36609 Phone (251) 344-9106 Fax (251) 341-9492

South Gulf											
P.O. Box 170				Pro	ject: I	?b					
Fairhope AL,	36533							D D C			
Phone: (251) 5	83-9917			PT	oject Nu	mber: NAS	A/SSC	- B-Test Sta	nd		
Fax: (850) 5	47-5560								Reported:		
Attention:	(b)(4)								07/22/11 09:26		
Date Sampled: Date Received:	07/20/11 15:00 07/20/11 17:24			1 - Blaz 11G0355-01				Sample: Sample T	t by: (b)(4) ype: Composite		
Analyte		Patch	Prepared	Analyzod	Analyst	Method	RL.	Units	Result		
Metals by NIOS.	<u>H 7303</u>										
Lead		1621017	07/21/11 12:45	07/21/11 18:44	RGB	NIOSH 7303	0.05	Total mg	< 0.05		
Date Sampled: Date Received:	07/20/11 15:00 07/20/11 17:24		2 - Inside Work Zone 11G0355-02 (Air)						Sampled by: (b)(4) Sample Type: Composite		
Analyte		Batch	Prepared	Analyzed	Analyst	Method	RL.	Units	Result		
Metals by NIOS.	<u>H 7303</u>										
Lead		1G21017	07/21/11 12:45	07/21/11 18:51	RGB	NIOSH 7303	0.0003	mg/m³ Air	0.0004		
Date Sampled: Date Received:	07/20/11 15:00 07/20/11 17:24		3	- Outside We 11G0355-03				Sampled Sample T	l by: (b)(4) ype: Composite		
Analyte		Batch	Prepared	Analyzed	Analyst	Method	RL.	Units	Result		
Metals by NIOS.	<u>H 7303</u>										
Lead		1G21017	07/21/11 12:45	07/21/11 18:57	RGB	NICSH 7303	0.0003	mg/m ^s Air	< 0.0003		
Date Sampled: Date Received:	07/20/11 15:00 07/20/11 17:24							•	Sampled by: (b)(4) Sample Type: Composite		
Anslyte	· · · · · · ·	Batch	Prepared	Analyzed	Analyst	Method	RL	Units	Result		
Metals by NIOS	<u>H 7303</u>										
Lead		1G21017	07/21/11 12:45	07/21/11 19:04	RGB	NIOSH 7303	0.0003	mg/m³ Air	< 0.0003		



The test results in this report meet NELAP requirements for accredited parameters, unless otherwise noised, and relaie only to the sample(s) received by this laboratory. This report must be reproduced in its entirety unless approved by the laboratory.

Results are reported on a Wet weight basis," unless otherwise noted.

SOUTH GULF, INC AO BOX 605 BOMIFAY, FL 32425 Y-850-547(929) mhowell@wieca

DATE: 7/30/11

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Project. Location.

National Aeronautics and Space Administration John C. Stennis Space Center Stennis Space Center, MS 39529-6000 SECTION I - REQUEST FOR APPROVAL (To be Initiated by the Contract TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE				
Sternis Space Center, MS 39529-8000 SECTION I - REQUEST FOR APPROVAL (To be Initiated by the Contract TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR CONTRACT NO.				
TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR CONTRACT NO.				
I RANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR				
MANUFACTURER'S CERTIFICATES OF COMPLIANCE (See Instructions on Reverse) NNS11AA51C	,		NEW SUBMITTAL	
TO FROM PREVIOUS TRANSMITTAL NO. (If Any,	/	TRANSMITTAL	. NO,	
(b)(4) South Gulf, Inc. N/A		045		
SPECIFICATION AND SECTION NO. (Cover Only One Section With Each Transmittal) PROJECT TITLE AND LOCATION				
200H0-G017 Section 02 82 33.13 20 Replace B Test Stand Level 20 Work Deck				
			ACTION CODE (See Instruction No. 9) (b)	
1 Air Monitoring Results South Gulf, Inc 5 3.3.1.1				
DECEIVED NG 11 2011 DOCUMENT CONTROL				
REMARKS	nd in strict confo	mance with the d		
	ND SIGNATURI		TOR	
SECTION II - APPROVAL ACTION				
ENCLOSURES RETURNED (List by Item No.) NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY SSC-581 (08/2008) (Ms Word 2003) C.G. (08/2008) pc		DATE		



4320 Midmost Drive Mobilo, Alabama 36609 Phone (251) 344-9106 Fax (251) 341-9492

South Guif

P.O. Box 170 Fairhope AL, 36533 Phone: (251) 583-9917 (850) 547-5560 Fax:

Attention:

Project: Pb

Project Number: Stennis Space Center

Reported: 08/10/11 16:14

SUMMARY REPORT

This report is a summary of results for the analysis of the samples listed below that were received by the laboratory on 08/09/11 15:20. A final report package will follow, which will contain additional information concerning these analyses. If you have any questions concerning this report, please feel free to call

Symple Description	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Blank	11H0161-01	Air	Composite	08/08/11 14:00	08/09/11 15:20
Inside Work Area - 20 Stennis Space Center	11H0161-02	Air	Composite	08/08/11 14:00	08/09/11 15:20
Down Wind Stennis Space Center	11H0161-03	Air	Composite	08/08/11 14:00	08/09/11 15:20
Personnel Stennis Space Center	l 1H0161-04	Air	Composite	08/08/11 14:00	08/09/11 15:20
Inside Work Area - 19 Stennis Space Center	11H0161-05	Air	Composite	08/08/11 14:00	08/09/11 15:20





The test results in this report meet NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the sample(s) received by this laboratory. This report must be repreduced in its entirety unless approved by the laboratory.

Results are reported on a Wet weight basis,"unless otherwise noted.



4320 Midmost Drive Mobile, Alabama 36609 Phone (251) 344-9106 Fax (251) 341-9492

South Gulf										
P.O. Box 170				Pm	ject: I	ъ				
Fairhope AL,	36533				J			a .		
Phone: (251) 5	83-9917			PT	oject Nu	mber: Steni	nis Space	Center		
Fax: (850) 5	47-5560								Reported:	
Attention:	(b)(4)								08/10/11 16:14	
Date Sampled: Date Received:	08/08/11 14:00 08/09/11 15:20			Blank 11H0161-01				Sampleo Sample T	l by: (h)(4) ype: Composite	
Analyte	-fortie	Batch	Propare d	Analyzed	Analyst	Method	RL	Units	Result	
<u>Metals by NIOS</u>	<u>H 7303</u>									
Lead		1/309013	08/09/11 15:45	08/10/11 03:47	RGB	NIOSH 7303	0.05	Total mg	< 0.05	
Date Sampled: Date Received:	08/08/11 14:00 08/09/11 15:20		Inside Work Area - 20 11H0161-02 (Air)					Sampled by: (1)(4) Sample Type: Composite		
Analyte		Batch	Prepared	Analyzed	Analyst	Method	RL	Units	Result	
<u>Metals by NIOS</u>	<u>H 7303</u>									
Lead		1H09013	08/09/11 15:45	08/10/11 03:54	RGB	NKOSH 7303	0.0002	mg/m³ Air	< 0.0002	
Date Sampled: Date Received:	08/08/11 14:00 08/09/11 15:20			Down W 11H0161-03				Sampled by: (b)(4) Sample Type: Composite		
Analyte	····	Batch	Prepared	Analyzed	Analyst	Method	RL.	Units	Readt	
Metals by NIOS.	<u>H 7303</u>									
Lead		1H09013	08/09/11 15:45	08/10/11 04:01	RGB	NIOSH 7303	0.0002	mg/m' Air	0.0019	
Date Sampled: Date Received:	08/08/11 14:00 08/09/11 15:20			Persons 11H0161-04	•			Sampled Sample T	t by: (b)(4) ype: Composite	
Analyte		Batch	Prepared	Analyzed	Analyst	Method	RL	Units	Result	
<u>Metals by NIOS</u>	<u>H 7303</u>									
Lead		11109013	08/09/11 15:45	08/]0/]] 04:07	RGB	NIOSH 7303	0.0002	mg/m³ Air	0.0041	
Date Sampled: Date Received:	08/08/11 14:00 08/09/11 15:20		3	inside Work A 11H0161-05				Sampled Sample T	by: (b)(4) ype: Composite	
Analyte		Batch	Prepared	Analyzed	Analyst	Method	RL.	Units	Result	
Metals by NIOS	<u>H 7303</u>									
Lead		11109013	08/09/11 15:45	08/10/11 04:14	RGB	NIOSH 7303	0.0002	mg/m³ Air	0.0005	

The test results in this report meet NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the sample(s) received by this laboratory. This report must be reproduced in its entirety unless approved by the laboratory.

Results are reported on a thet weight basis,"unless otherwise noted.

SOUTH GULF, INC PO BOX 605 BONIFAY, FL 37415 1-850-547-0920 micowell@wieca

Project: Location Center *** • Bid: 10-50 Room: Ω. CALK

AIR MONITORING WORKSHEET

11H000 -1-5

8/9/11 1520

DATE 8/8/4

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Supervisor Sampt.

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1545-1500

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E S	<mark>(b)(4)</mark> Jacobs FOSC Building 1100 Stennis Space Vaveland, MS	Center		Customer ID: Customer PO: Received: EMSL Order:	JCWS50 Pending 12/08/11 9:30 AM (15)(4)	
Fax: Project:	(228) 688-3368 5419-2011- BI LH PU	Phone:	(b)(4)	EMSL Proj:		

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

					Lead
_	Client Sample Description	Lab ID	Collected	Analyzed	Concentration
	5419-2011-001	0001	12/7/2011	12/8/2011	0.33 % wt
	5419-2011-002	0002	12 /7/201 1	12/8/2011	1.5 % wt
	5419-2011-003	0003	12/7/2011	12/8/2011	0.015 % wt

Duplicate QC sample outside limits due to inability to achieve perfect sample homogeneity; results still valid.

Initial report from 12/08/2011 14:12:01

(b)(4)

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

Reporting limit is 0.01 % wt. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. Samples analyzed by EMSL Analytical, inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

	EMEL	Chain of Custody EMSL Order Number (Lab Use Only):						
			ا ہے۔	6256		PHONE (800) 220-3675 FAX_(856) 786 5974		
	Company: JACOBS TECH	¥		1	Bill to is Dif	III to: Same Different ferent note instructions in Comments**		
1	Street:					uires written authorization from third party		
	City: STRAWNS SOC CAT	State/Pro	vince: MS	Zip/Postal Cod	e: 39	579 Country: ULS		
	Report To (Name) (b)(4			Fax #:				
	Telephone #: (b)(4)		200 2	Email Address		(b)(4)		
1	Project Name/Number: 57/7~		- RG P					
	Please Provide Results. 🔲 Fax 🛄	Email	Purchase			Samples Taken:		
Carl				AT) Options* - F				
A.	For RUSH TAT'S Ploase C	Hour eli Ahvau t 2 TATs are	Contan Lab Hour	ours and Availability	Not all T.	96 Hour 1 Week 2 Week AT options are valid tor every test. cur - End of Next Business Day		
			A:	sbestos				
	PCM - Air	PLM - B	the second s			TEM - Bulk		
	NIOSH 7400		EPA 600 R-93/					
	TEM- Air 4-4.5hr TAT (AHERA ONLY)		EPA NOB (-:19 198.1 (mable-N			Chatfield SOP		
	AHERA 40 CFR, Part 763		198.6 (non-friat			Soli/Rock/Vermiculite		
	□ NIOSH 7402	Point Co	unt [] 400 (<0	0.25%) 🔲 1000 (<	0.1%)	PLM CARB 435 - A (0.25% sensitivity)		
	EPA Level II	Point Co	unt w Gravine	tric		PLM CARB 435 - B (0.1% sensitivity)		
	□ ISO 10312).25%) 🗌 100 <u>0 (</u> <	0.1%)	TEM CARB 435 – B (0.1% sensitivity)		
	TEM - Water	TEM - Dust				DEPA Reg. 1 Screening Protocoi (Guestable) Other:		
ļ								
ł		Materials Science						
ŀ		ead (P	0)	ICP		Common Particle ID (large particles)		
8	Flame Atomic Absorption Z Chips SW846-7000B or AOAC 974.02 Air NIOSH Soil SW846-7000B 7420 Inon ASTM Air NIOSH 7032 AS1M WI Wastewater SNU111B or SW346-70002 7420 Soil SW8			300 Modilied Vipe SW846-6010 SW846 6010B o	Full Particle iD (environmental dust) Basic Material ID (solids) Advanced Material ID Physical Testing (Tensilo, Compression)			
	CASTM Wipe SW846-7000B/7420	1	🗌 Waste Wate	er SW845-6010B	or C	Combustion-by-products (soot, char. etc.)		
	□ non ASTM Wipe SW846-7000B 7420			16-6010B or C		X-Ray Fluorescence (elem. analysis)		
ł	TCLP SW846-1311/?420/SM 3111B Graphite Furnace Atomic Ab:			ier;		X-Ray Diffraction (Crystalline Part)		
	Soil SW846-7421 Wastewater					MMVF's (Fibrous glass, RCF's)		
	🗋 Air NIOSH 7105 🛛 Drinking Wa					Particle Size (sieve microscopy/laser)		
ſ	Mi	crobiol	oav			Combustible Dust		
ł	Wipe and Bulk Samples		amples			Petrographic Examination		
	🔲 Mold & Fungi – Direct Examination	D Mc	old \$ Fungi (Sp	ore Trap)		Other:		
	Mold & Fungi Cuiture (Genus Only)	🗌 🖸 Me	old & Fungi Cul	liure (Genus Only)	IAQ		
	Mold & Fungi Culture (Genus & Specias)			anus & Spacius)		Nuisance Dust NIOSH 0500 0600		
	Bacterial Count & ID (Up to Three Types)	🗌 🗌 Ba	ictorial Culture &	ID (Up to Three Typ	es)	Airborne Dust 🗌 PM10 🔲 TSP		
	Bactorial Count & D (Up to Five Types;	🗌 🗌 Ba		ID (Up to Fave Type	s)	Silica Analysis: 🗌 All Species		
	MRSA Endotoxin Testing				Silica Analysis Single Species			
	Pseudomenas aeruginosa					Alpha Quartz Clistobalite Tridymite		
	Water Samples					Carbon Black		
	Total Coliform & E.coli (P/A) Fecal Coliform SM 9222D) Level 1 Level 2 Level 3 Level 4			-14	Arborne Oil Mist			
	Fecal Coliform (SM 9222D)	Othe				Radon Testing: Call for Kit and COC		
	Heterotrophic Plate Count (SM 9215)					Other:		
	**Comments/Special Instructions:							
	Client Sample #'s 5419-	Poll	- 001->	604		al # of Samples: 4		
	Relinguished (Client): (b)(4)		Date: 12	12	Tim	e: 14:50		
				10	Tim			
	Received (Lab): (b)(4)		Date: 火	1.0	<u> </u>	<u>~ 7.31.7.</u>		

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



Chain of Custody EMSL Order Number (Lab Use Only): (23

EMEL ANALYTICAL INC. 200 Route 130 Norma CARGE AND CARDS PHIME (300) 220-3675. Fax: 85601400424

EMSL ANALYTICAL, INC. JCT8+7

Sample #	Sample Description	Volume/Ares (Air) HA # (Bulk)	Date/Time Sampled
5419-2011			7-DRC-11
	LIGHT-CRAAM RUST BACK		4
001	في من مع \$		
002	Rusi Brek		Ц
003	DINK PAINT W/ WHITE + RUST BACK		ę
004	RUGIT CRAMENT RUGIT BACK DINIC PAINT W/ WHITE + RUST BACK BLUE - RUBBANG BACKING WHITE + RUST FRONT		u
	CHIPS ON CHIPS ON CO2, 003, DO4 = GRATE BILLOW TANKS		
	TANEC		
		· · · · · · · · · · · · · · · · · · ·	
			·······
*Comments/Specia	I Instructions:		

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



(h)(4) Jacobs FOSC Group Building 1100 213 G Stennis Space Center, MS 39529			December 27, 2011
DOH ELAP# 11626	Account# (b)(4)	Login# (b)(4)	

Dear (b)(4)

Enclosed are the analytical results for the samples received by our laboratory on December 16, 2011. 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.

Please contact (b)(4) if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories



Enclosure(s)



LABORATORY ANALYSIS REPORT

Lead	Air V	701 Total	Conc
FAX: (315) 437-0571 www.galsonlabs.com	Date Sampled Date Received Date Analyzed Report ID		Account No.: (b)(4) Login No. :
6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227	Client Site Project No.	<pre>Jacobs FOSC Group B-Test Stand-Spong #5441-2011</pre>	ge Blast

	<u>Sample ID</u>	<u>Lab ID</u>	<u>liter</u>	ug	<u>mg/m3</u>
#	5441-2011-001	L255949-1	799	<0.38	<0.00047
	5441-2011-002	L255949-2	NA	<0.38	NA

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

	Level of quantitation Analytical Method OSHA PEL (TWA) Collection Media	1: 0.38 ug : mod. NIOSH 7300/ mod. : 0.05 mg/m3 : Filter		Submitted by: cri Approved by : crd 27-DEC-11 NYS DOH # : 11626 (h)(4)
>	-Less Than -Greater Than -Not Applicable	mg -Milligrams ug -Micrograms ND -Not Detected	m3 -Cubic Meter l -Liters ppm -Parts per M	NS -Not Specified

a^(d)



LABORATORY ANALYSIS REPORT

6601 Kirkville RoadSite: B-Test Stand-Sponge BlastEast Syracuse, NY 13057Project No.: #5441-2011(315) 432-5227FAX: (315) 437-0571Date Sampled: 13-DEC-11	
(315) 432-5227 EAX: (315) 437-0571 Date Sampled : 13 DEC 11	
FAX: (315) 437-0571 Date Sampled : 13-DEC-11 Account No	
www.galsonlabs.com Date Received : 16-DEC-11 Login No.	(b)(4)
Date Analyzed : 22-DEC-11	
Report ID : 720382	

Lead

	<u>Sample ID</u>	Lab ID	Weight g	Total	Conc _mg/kg
^	5441-2011-001 BULK	L255949-3	0.026	6.1	240

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

Level of qu Analytical OSHA PEL (1 Collection	: (AW		125G/SW846	6010C;ICP;F		-	11626
< -Less Than > -Greater Th NA -Not Applic	ian u	ng -Millig: ng -Microg: ND -Not De	rams	m3 -Cubi 1 -Lite ppm -Part	 NS	-Kilograms -Not Specifie	əd



LABORATORY FOOTNOTE REPORT

	Client Name : Jacobs FOSC Gr Site : B-Test Stand-S Project No. : #5441-2011	
6601 Kirkville Road		
East Syracuse, NY 13057	Date Sampled : 13-DEC-11	Account No.:
(315) 432-5227	Date Received: 16-DEC-11	Login No. : $(b)(4)$
FAX: (315) 437-0571	Date Analyzed: 20-DEC-11 - 22	
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).

L255949 (Report ID: 720382): 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: MI-SOP-5(9), MI-SOP-9(15) Level of quantitation varies with actual sample mass used for preparation. ^ L255949 (Report ID: 720382): Reported result is for the loose particulate present in cassette "5441-2011-001." Result may be biased low (filter analyzed and reported separately). This was done per client request. L255949 (Report ID: 720045): 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(15), im-mwvfilt(15) # L255949 (Report ID: 720045): Loose particulate in cassette was not included in this analysis (reported separately). Reported result is biased low and is not representative of the environment sampled.

This was done per client request.

< -Less Than >

-Greater Than NA -Not Applicable

mg -Milligrams ug -Micrograms ND -Not Detected m3 -Cubic Meters 1 -Liters ppm -Parts per Million

kg -Kilograms NS -Not Specified

GALSO		Check if change of address w Client ?	Report To* :	(b)(4 cobs FOSC (teo ennis Space Ce	chnology)		Building	FOSC (Technol 1100 Space Center,	
6601 Kirkville Rd East Syracuse, NY 13057 Tel: 315-432-5227 888-432-5227 Fax: 315-437-0571 www.galsoniabs.com		no 🖌 🖌	Phone No.* :	(b)(4)		Pho	ne No. : /Email :Sam	pled By: (b)(4)
Need Results By*:	(surcharge)	Samoles sub	mitted using the f	FreePumpLoan™ P	rooram	Samples subr	nitted using the Fr	eeSamplingBadges	TM Program.
5 Business Days	۵%	Client Account No							
4 Business Days	35%	Purchase Order N		(P.O. to follow)					_
3 Business Days	50%		Ird : Credit Card or	·	·····•			<u>.</u>	7
2 Business Days	75%]		Credit Card information			Please indicate y	which OEL this data v	vill be used for
Next Day by 6pm	100%] Email Results To :						ACGI	
Next Day by Noon	150%	Email Address :			·				(please specify)
] Same Day	200%]	<u>(D)(4</u>						
Sample Identifica	ation ^a	Date Sampled	Collection Medium	Sample* Volume (Time, or Area)	Sample Units* (L, ml, min., in2, cm2, ft2)	Analysis	Requested*	Method Reference*	Metals Technique Required, ICAP or ICPMS March (additional Cost)
441-2011-001		DEC-13-2011	3pc UW MCE	799	L	Lead-On Filter		Mod NIOSH 7300	
5441-2011-002		DEC-13-2011	3pc UW MCE	Blank					
			r		·	+		·	
				1					
<u> </u>						···			
<u>``</u>		<u> </u>				•			
						<u> </u>	Č.		
For Hexavalent Chro	mium: proc	ess must be listed i	for each sample st	ibmitted (ea., weld	ng, plating, paintir	na. etc.)*:			<u> </u>
For Crystalline Silica		and the second secon						• • • • • • • • • • • • • • • • •	
List description of in						hist of lead paint/1 /	5% lead) Parlite (CAS		ed during blacfir
Comments: Filter w		ded with Partita? D		test norlite materia	as a bulk same!	for load Anal-	the filter for load		ou ouring bieou
		Print Name	Case regivere allu	rear héinire marens		TO ICAU. Allalyze		Date/Tin	
Chain of Custody Relinquished by :					(D)(4				
Received by LAB :								Dec. 14, :	2011 <u>/2-13'</u> /(<i>0</i> 2
	ed after 3pm	will be considered	d as next day's bu			mplete these fields r ples being processed			je of
								æ	

λ,



CERTIFICATE OF ANALYSIS

Client:	Jacobs Technology	Report Date:	6/20/2012
	Bldg 1100; Room 213	Report Number:	276816
	Stennis Space Ctr. MS 39529	Project:	AJ Soft Core Bstand 6/12/12
		Project No.:	5721-2012

LEAD PAINT SAMPLE ANALYSIS SUMMARY

4690439 01 East Side Bstand 0.22***	
4690440 02 North Side Bstand 0.012	
4690441 03 West Side Bstand 0.20	
4690442 04 South Side Bstand 0.035	

Accreditations:		NATIONAL I	LEAD LABORATORY ACC AIHA-LAP, LLC No. 100188	REDITATION PROGI NYSDOH-ELAP No. 11021	RAM (NLLAP)
Analytical Methods:		ASTM D3335-85A "Standard Method To T	Test For Low Concentrations Of Lead In Paint	By Atomic Absorption Spectrophoton	netry"
		EPA SW846-(3050B:7000B) "Standard M	fethod To Test For Low Concentrations Of Lea	ad In Soils, Sludges and Sediments By	AAS"
	All resu results a (RL) ba by weig (<50 m report r	Its are based on the samples as received at the are based have been accurately supplied by the sed upon Lowest Standard Determined (LSE ht (based upon 100 mg sampled). * Insuff g) *** Matrix / substrate interference post	D guidelines). Recommend multiple sampling the lab. IATL assumes that appropriate samplin he client. Method Detection Limit (MDL) per D) in accordance with AIHA-ELLAP policies. ficient sample provided to perform QC reanaly sible. Sample results are not corrected for cont not represent an endorsement by NIST-NVLAF of the laboratory.	g methods have been used and the dat EPA Method 40CFR Part 136 Apend LSD=0.2 ppm MDL=0.0044% by w sis (<200 mg) ** Not enough samp amination by field or analytical blanks	a upon which these ix B. Reporting Limit reight. RL= 0.010% le provided to analyze s. This confidential
Date Receive	d:	6/15/2012	-		
Date Analyze	ed:	6/20/2012	_	Approved By:	(b)(4)
Analyst:		(b)(4)			
2 mary st.	-		Page 1 of 1		Laboratory Director



Analysis(Name(s) / iATL):

QA/QC Review (Name / iATL):

Archived / Released: _____QA/QC InterLAB Use:

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

		n of Custody ronmental Lead –	(b)(4)				
Contact Informs Client Company: Office Address: City, State, Zip: Fax Number: Email Address:		Project Number: Project Name: Primary Contact: Office Phone: Cell Phone:	5721-2012 AJ Soft Core Bstand (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 □ Other Metals (Cd, Zn, Cr) by AAS □ Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311 □ Other							
	quested Date:		5 Hour** 🔲 RUSH**				

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

Date:

Date: _

1 fa



Sample Log

-Environmental Lead -

Client: Jacobs FOSC

Project: 5721-2012

12 June 2012 Sampling Date/Time:

	gan Tala di Andre arayan torakin menengan pangan pangan sebagai akata di kana semi dala denga semi dala denga	Location/	Flow	Start	Sampling	Area (ft2)	Results
Client Sample #	iATL [°] #	Description	Rate	End	time (min)	Volume (L)	()
0	4690439	EAST-Side BStand				BUIK	
02	4690440	Northside B-Stand				Bulk	
03	4690441	West-Side B-Strand				Bulk	
04	4690442	South side B-stand				BUK	
			i.				
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		· ·					
·		4 			and the destruction of the second		
		, 					
¥							

* = 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

- 2 -Submit Form



CERTIFICATE OF ANALYSIS

Client:	Jacobs Technology		Report Date:	7/11/2012	
	Bldg 1100; Room 213	3		Report Number:	279314
	Stennis Space Ctr.	MS	39529	Project:	Derrick Crane; 7/6/12
				Project No.:	5760-2012

LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	Location / Description	Concentration <u>Lead By Weight (%)</u>
4715383	01	Brownish/Grey Paint Draw Works Area	2.1
4715384	02	Grey Paint Base Of Derrick	1.2
4715385	03	Red Paint Arm Of Derrick	0.84
4715386	04	Red Paint Derrick Arm South Side	0.81

Accreditation	:	NATIONAL I	LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP) AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021		
Analytical Me	Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry" EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"				
Comments:	All resu results (RL) ba by weig (<50 m report r	tory limit is 0.5% lead by weight (EPA/HUD llts are based on the samples as received at th are based have been accurately supplied by th used upon Lowest Standard Determined (LSE ght (based upon 100 mg sampled). * Insuff g) *** Matrix / substrate interference pose	D guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B. Reporting Limit D) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0044% by weight. RL= 0.010% fficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze ssible. Sample results are not corrected for contamination by field or analytical blanks. This confidential not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be		
Date Receiv	ed:	7/9/2012	_		
Date Analyz	zed:	7/11/2012	Approved By(b)(4)		
Analyst:		(b)(4)	Page 1 of 1		



Chain of Custody

– Environmental Lead –

Contact Inform			
Client Company	Arobs FOSC	Project Number:	
Office Address:	Stennis Space Center	Project Name:	Derrick CrAne
City, State, Zip:	WAVELAND MS 39529	Primary Contact:	(b)(4)
Fax Number:	228 688 - 6456	Office Phone	(b)(4)
Email Address:	(b)(4)	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
Other Metals (Cd, Zn, Cr) by AAS
Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
Other
Special Instructions: Please test Lend content in PAINT
Turnaround Time
Preliminary Results Requested Date: 13-014-12 Uverbal Remail Fax
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 (b))	(b)(4) (d) Date: /2	7.612- 10/12 (Time V 8/12
Received (Name / iATL): Sample Login (Name / iATL):	Date:	Time:
Analysis(Name(s) / iATL): (b)	(4) Date:	JUffime: 9_2012
QA/QC Review (Name / iATL): Archived / Released:QA/QC InterLAR	Date: 1/1/2 3 Use: Date:	$\frac{2}{2}$ Time (b)(4)

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



		Sample	•			
Client: 36	tcobs Fos	C Proj	ect: 57	60 -2	2012	
Sampling Dat	e/Time: <u>leduh</u>	12				generapoge om an andra and and and and
Client Sample #	iATL #	Location/ Description	Flow <u>Start</u> Rate End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
01	4715383	Works Area	Brownish			
02	4715384	BASE OF Derrick	Gray			
03	4715385	Arm of Derrick	red . Paint		•	
04	4715386	Dernick Arm South Sode	Paint			
	· ·					
	and the second	n y yn yw yn				
na ny kaodim-paositra dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia k						

* = 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

- 2 -Submit Form



9000 Commerce Parkway, Suite B Mount Laurel, NJ 08054 Toll Free 877-428-4285 Local: 856-231-9449 Fax: 856-231-9818

5917-2012

CERTIFICATE OF ANALYSIS

Client:	Jacobs Technology			Report Date:	11/26/2012
	Bldg 1100; Room 21	13		Report Number:	291016
	Stennis Space Ctr.	MS	39529	Project:	B-Stand; 21 Nov 12

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Project No.:

<u>Lab No.</u>	<u>Client No.</u>	Location / Description	Concentration Lead By Weight (%)
4848612	01	B-Stand Level	0.0063

Accreditations:	NATIONA	AL LEAD LABORATORY A AIHA-LAP, LLC No. 100188	CCREDITATION PROG NYSDOH-ELAP No. 1102	
Analytical Methods:		od To Test For Low Concentrations Of Lead In dard Method To Test For Low Concentrations C		
All res results (RL) b by wei (~50 n report	ults are based on the samples as receive are based have been accurately supplie ased upon Lowest Standard Determined ght (based upon 100 mg sampled). * ng) *** Matrix / substrate interference	WHUD guidelines). Recommend multiple sampled at the lab. IATL assumes that appropriate sampled by the client. Method Detection Limit (MDL ed (LSD) in accordance with AIHA-ELLAP polity in sufficient sample provided to perform QC rece possible. Sample results are not corrected for does not represent an endorsement by NIST-NV proval of the laboratory.	npling methods have been used and the di) per EPA Method 40CFR Part 136 Apen cies. LSD=0.2 ppm MDL=0.0044% by analysis (~200 mg) ** Not enough sam contamination by field or analytical blan	ata upon which these ndix B. Reporting Limit weight. RL= 0.010% nple provided to analyze nks. This confidential
Date Received:	11/23/2012			
Date Analyzed:	11/26/2012		Approved By:	
Analyst:	(b)(4)	Page 1 of 1		(b)(4) Laboratory Director



Turnaround Time

Chain of Custody

- Environmental Lead -

<u>Contact Inform</u>	ation		
Client Company	JACOBS FOSC	Project Number:	5917-2012
Office Address:	1 Stennus Space Cute	Project Name:	Botime
City, State, Zip:	WAvehand MS J9529	Primary Contact:	(b)(4)
Fax Number:	228 680 -6456	Office Phone:	(b)(4)
Email Address:	(b)(4)	Cell Phone:	

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical t environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nation recognized state programs.	estin g o f ally
Matrix/Method:	
Paint by AAS: ASTM D3335-85a, 2009	
Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010	
L 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	
Ci Other Metals (Cd, Zn, Cr) by AAS	
Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311	
CI Other	
Special Instructions: 72 of Lead reeded	

Turnaround Time Nov 30, 12 Preliminary Results Requested Date: Specific date / time 10 Day 5 Day 3 Day 2 Day 11 * End of next business day unless otherwise specified. ** Matrix	Day* 🔲 12 Hour**	
Chain of Custody (b) Relinquished (Name/Organization) (b)(4))(4) 2: N	612 Time: 1340
Received (Name / iATL):	Date:	Time:
Sample Login (Name / iATL):	Date:	Time:
Analysis(Name(s) / iATL):	Date:	Time:
QA/QC Review (Name / iATL):	Date:	Time:
Archived / Released:QA/QC InterLAB Use:	Date:	Time:

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Sample Log

-Environmental Lead -

Client: JAOBS FOSC Project: 5917-2012

Sampling Date/Time: 21 NOV 12_____

Client Sample #	iATL#	Location/ Description	Flow Rate	<u>Start</u> End	Sampling time (min)	Area (ft2) Volume (L)	Results	
01		Bosmol Leve	-		Bulk			
		· · · · · · · · · · · · · · · · · · ·	 			·		
	<u> </u>			·				
				! 				
	· · · · · · · · · · · · · · · · · · ·							

* = 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.

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-2-Submit Form



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

<u>Lab No.</u>	<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						
	EPA SW846-(3050B:7000B) "Standard	d Method To Test For Low Concentrations Of Lea	d In Soils, Sludges and Sediments By	AAS"		
A re (R by (< re	Il results are based on the samples as received a sults are based have been accurately supplied b RL) based upon Lowest Standard Determined (I y weight (based upon 100 mg sampled). * Ins 50 mg) *** Matrix / substrate interference p	IUD guidelines). Recommend multiple sampling f at the lab. IATL assumes that appropriate sampling by the client. Method Detection Limit (MDL) per LSD) in accordance with AIHA-ELLAP policies. sufficient sample provided to perform QC reanaly: possible. Sample results are not corrected for conta es not represent an endorsement by NIST-NVLAP val of the laboratory.	g methods have been used and the data EPA Method 40CFR Part 136 Apendix LSD=0.2 ppm MDL=0.0044% by we sis (<200 mg) ** Not enough sample amination by field or analytical blanks	a upon which these x B. Reporting Limit eight. RL= 0.010% le provided to analyze s. This confidential		
Date Received:			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	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. 1102	1
Analysis Method:	ASTM D3335-85A NIOSH 7082		
	EPA SW846 3050B 7000B		
Comments:	IATL assumes that all sampling complies with accepted	I methods.	
	All client supplied sampling data is assumed to be corre	ect when calculating results.	
	Detection limit based upon 0.2 mg/L reporting limit and	d sample size.	
	* NIST Traceable.		
	** 80-120% acceptable limits.		
Analyzed By	(b)(4)	Approved E	(b)(4)
Date	7/26/12,	.e.	
AAS.DailyQC.001		e sou	

6110-2013



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.		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		01107 01107			
 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) 					
Other Other		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		6 Hour** 🗖 RUSH**			
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:	C infe Time:			

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Sample Log

-Environmental Lead -

Client:

Project:

13

18 July Sampling Date/Time:

		-		lan management			-
Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
01	5076428	Inside side Wall of Dellector		-	Bulk		۲ پر ۲
02	5076429	Top of Deflector			11		•1
03	5076430	Outside WAll of Deflector			17 1		
, таан калан ка 							
an Malaka karan karang pangang pangang pangang Alaka karang pangang karang pangang karang pangang karang pangan				· · ·			
Ne McMMA and a company of the second	·		an market the Solar Society of Society procession				-

* = 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) Jacobs FOSC Group Building 1100 213 G Stennis Space Center, MS	39529	August 09	, 2013
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

(b)(4)	
Laboratory Director	

Enclosure(s)



LABORATORY ANALYSIS REPORT

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

Lead

	<u>Sample ID</u>	Lab ID	Area 	Total ug	Conc uq/cm2
0	BLANK	L296732-1	NA	<1.3	NA
0	01-LEVEL 7 B STAND	L296732-2	100	170	1.7
Ø	02-LEVEL 7 B STAND	L296732-3	100	730	7.3
6	03-LEVEL 1 B STAND	L296732-4	100	19	0.19
0	04-ELEVATOR	L296732-5	100	7.0	0.070
G	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	5	6010C; ICP GAUZE Appro	tted by: mlh/kml ved by : keg G-13 NYS DOH # : 11626)((4)
< > NA	-Less Than -Greater Than -Not Applicable	mg -Milligrams ug -Micrograms ND -Not Detected	m3 -Cubic Meters l -Liters ppm -Parts per Million	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	љg	-Milligrams	m3	-Cubic Meters	kg	-Kilc	grams	
>	-Greater Than	ug	-Micrograms	1	-liters	NS	-Not	Specified	
NA	-Not Applicable	ND	-Not Detected	ppm	-Parts per Million				

		<u>.</u>							2
		New Client?	Report To*			trivoiçe Io		SAMe	
GALSO		Client Account No		ennis Space	e Center MS 395	29 19			
6601 Kirkville East Syracuse Tel: (315) 4 888-433 Fax: (315) 4 www.galson	e, NY 13057 32-5227 2-LABS (5227) 37-0571		Phone No.* : Cell No. : Email Results to : Email address :	(p)(4)	Phone No Ema P.O. No Credit Car	sil :	ile 🗌 Call for Cred	
Need Results By:	(surcharge)			Samples submitted usin	g the FreePumploan™			ne FreeSamplingBadge	
Standard	0%	Site Name : R -						e neesanpingoadge	
4 Business Days	35%		Stand				pled by :		
3 Business Days	<u>. 50%</u>	ີ ແມ່ນ ເພື່ອ	nducted	Lead wil	e somfl	LS .			
2 Business Days	75%				•	·			:
Next Day by 6pm	100%	List description of ind	ustry or Process/interfe	rences present in same	linn area ·	State samples were	Olenen indiana		
Next Day by Noon	150%	•				collected in (e.g., NY)	OSHA PEL	which OEL this data wi	Cal OSHA
Same Day	200%	Leoa I	Abstoment	Buildin		MS	MSHA	Other (specify):	
Sample Identificat (Maxmium of 20 Char		Date Sampled	Collection Medium	Sample Volume	Sample Units*: L, ml,mln,in2,cm2,ft2	Analysis Reques	<u> </u>	Method Reference*	Hexavalent Chromium Process (e.g., welding
EXAMPLE		04/24/13	2pc UW PVC	960	1	Hexavalent Chromit	Im (Cr6)	Mod OSHA ID-21	plating, painting, etc.)*
Lend where s	amoles	1 Aug 13	12:00	-100cm	· · · · · · · · · · · · · · · · · · ·	Lead			veiuling
Blank						11	······································		
01 - Level	BStand	STAIRS	• • •	too cm		11		+	
pz - Level	7	Area	1		<u> </u>	U U			
3-Level	1 11	Area		11	<u>_</u>	 			<u> </u>
04 Elevat	<u>т</u>	Area			•				·
DS-Level	1		Surface	<u> </u>	<u> </u>		<u> </u>	+	
LEVOL	J.,	nur con si	purace	<u> </u>		· · ·	<u> </u>		
<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 boy	is checked: 🔲 Use metho	od(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	ole for certain analytes - see	SAG) :		- · · · · · · · ·
For crystalline silica: form	n(s) of silica nee	eded must be indicated	(Quartz, Cristoballite, ar	nd/or Tridymite)" :			······		· · · ·
Chain of Custod) re		Date Time				Dat	te Time
Relinquished by		/	290	9 1332	Received by :			8/2	
Relinquished by					Received by :			8151	197
	<i>;</i>	· * •.	Samples r	eceived after 3pm will I	e considered as next				<u> </u>
	<u> </u>	K	equired fields, failure to	complete these fields n	iay result in a delay i			р Паралария Гранция Гранцария Гранца Гранца Гранца Гранца Гранца Гранца Гранца Гранца Гранца Гранца Гранца Гранца Гранс Гранс Гранс Гранца Гранс Гранс Гарно Гранс Гранс Гранс Гранс Гаро	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

Field Sample ID: B STAND SOIL #1

List Type:	% Solids					
Sample ID:	141210	Matrix:	Soil	Date Received:	3/18/2014 12:47:18 PM	1
		Analyst:	(b)(4)	Date Analyzed:	4/2/2014 2:55:00 PM	
		Analyte		Concentration	Units	
		% Solids		69.6	%	

List Type: ICP Met	als - EPA Method 200.7
--------------------	------------------------

014 12:47:18 PM 014 2:12:00 PM Units /kg /kg /kg
Units /kg /kg /kg
/kg /kg
/kg /kg
/kg
′kg
/kg
′kg

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

List Type: PCBs – Method 8082

Sample ID:	141210		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
001	1336-36-3	Aroclor 1254			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 PN

141211	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 (b)(4)	Date Received: Date Analyzed:	3/18/2014 12:47:18 PM 4/4/2014 2:23:10 PM
C	CAS No.	Analyte		Concentration	Units
007440	0-22-4 Ag3	28.		< 0.02	mg/kg
007429	9-90-5 Al30	9.		1055	mg/kg
007440	0-38-2 As18	39.		< 0.11	mg/kg
007440	D-42-8 B249	9.7	2	< 0.03	mg/kg
007440	D-39-3 Ba4	55.		7.69	mg/kg
007440	0-41-7 Be3	13.		0.041	mg/kg
007440)-43-9 Cd2:	28.		0.063	mg/kg
007440)-47-3 Cr26	57.		1.87	mg/kg
007440)-50-8 Cu3	27.		4.00	mg/kg
007439	9-96-5 Mn2	57.		48.0	mg/kg
007440)-02-0 Ni22	1.		1.65	mg/kg
007439	9-92-1 Pb22	20.		85.0	mg/kg
007440		06.		< 0.11	mg/kg
007782	2-49-2 Se19	96.		< 0.21	mg/kg
007440)-21-3 Si25	1.		1228	mg/kg
007440)-31-5 Sn18	39.		0.47	mg/kg
007440	1993 S 1993 S 1995 S 19	7.		12.4	mg/kg
007440)-32-6 Ti33	4.		14.6	mg/kg
007440	-28-0 TI19	0.		< 0.18	mg/kg
007440		2.4		5.20	mg/kg
007440	-66-6 Zn21	3.		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
------------	---------------------	-----	--------------

Sample ID:	141214		Matrix: Analyst:	Soil (b)(4)	Date Received: Date Analyzed:	3/18/2014 12:47:1 4/4/2014 2:37:28	and a second second second
C	AS No.		Analyte		Concentration	Units	
007440	-22-4	Ag328.	(50)		< 0.02	mg/kg	
007429	-90-5	AI309.			3312	mg/kg	243
007440	-38-2	As189.			1.83	mg/kg	
007440	-42-8	B249.7			< 0.03	mg/kg	
007440	-39-3	Ba455.			22.7	mg/kg	
007440-	-41-7	Be313.			0.15	mg/kg	
007440-	-43-9	Cd228.			0.152	mg/kg	
007440-	-48-4	Co228.			15.9	mg/kg	
007440-	-47-3	Cr267.			1.00	mg/kg	
007440-	-50-8	Cu327.			15.5	mg/kg	
007439-	-96-5	Mn257.			156	mg/kg	
007440-	-02-0	Ni221.			6.01	mg/kg	
007439-	-92-1	Pb220.			193	mg/kg	
007440-	-36-0	Sb206.			0.75	mg/kg	
007782-	-49-2	Se196.			< 0.21	mg/kg	
007440-	-21-3	Si251.			2522	mg/kg	
007440-	-31-5	Sn189.			1.28	mg/kg	
007440-	-24-6	Sr407.			66.3	mg/kg	
007440-	-32-6	Ti334.			18.2	mg/kg	
007440-	28-0	TI190.			< 0.18	mg/kg	
007440-	62-2	V292.4			14.2	mg/kg	
007440-	66-6	Zn213.			121	mg/kg	

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

List Type:	PCBs	- Method 808	82			
Sample ID:	141214		Matrix: Analyst:	Soil (b)(4)	Date Analyzed:	3/18/2014 12:47:18 PM 4/9/2014 2:14 PM
	CAS No. 36-36-3	Aroclor 1254	Analyte		Concentration 0.71	Units mg/kg

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

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 N	<i>1ethod 200.</i>	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	mg/kg
007440-42-8	B249.7		< 0.03	mg/kg
007440-39-3	Ba455.		19.4	mg/kg
007440-41-7	Be313.		0.064	mg/kg
007440-43-9	Cd228.		1.01	mg/kg
007440-48-4	Co228.		17.02	mg/kg
007440-47-3	Cr267.		1.72	mg/kg
007440-50-8	Cu327.		19.0	mg/kg
007439-96-5	Mn257.		131	mg/kg
007440-02-0	Ni221.		10.1	mg/kg
007439-92-1	Pb220.		241	mg/kg
007440-36-0	Sb206.		3.92	mg/kg
007782-49-2	Se196.		0.39	mg/kg
007440-21-3	Si251.		1458	mg/kg
007440-31-5	Sn189.		0.81	mg/kg
007440-24-6	Sr407.		136	mg/kg
007440-32-6	Ti334.		22.2	mg/kg
007440-28-0	TI190.		< 0.18	mg/kg
007440-62-2	V292.4		8.87	mg/kg
007440-66-6	Zn213.		188	mg/kg

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

List Type:	PCBs	- Method 808	82		
Sample ID:	141215 CAS No. 36-36-3	Aroclor 1254	Matrix: Analyst: Analyte	Soil (b)(4)	3/18/2014 12:47:18 PM 4/9/2014 2:29 PM Units mg/kg

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

Proj	ect: Other		Customer: FOS	SC
e ID: B STAND SC	DIL #7			
% Solids 141216	Matrix: Analyst: Analyte	Soil (b)(4)	Date Analyzed: Concentration	3/18/2014 12:47:18 PM 4/2/2014 2:55:00 PM Units %
	e ID: B STAND SC % Solids	141216 Matrix: Analyst: Analyte	e ID: B STAND SOIL #7 % Solids 141216 Matrix: Soil Analyst: (b)(4)	e ID: B STAND SOIL #7 % Solids 141216 Matrix: Soil Date Received: Analyst: (b)(4) Date Analyzed: Concentration

List Type:	ICP Metals - EPA Method	1200.7
		2012/2012/2012/2012

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
0	CAS No.		Analyte	<u> </u>	Concentration	Units
007440)-22-4	Ag328.	87 (1992) (19 8 0) (199		0.18	mg/kg
007429	9-90-5	AI309.			2623	mg/kg
007440)-38-2	As189.			1.63	mg/kg
007440)-42-8	B249.7			< 0.03	mg/kg
007440)-39-3	Ba455.			21.6	mg/kg
007440)-41-7	Be313.			0.14	mg/kg
007440)-43-9	Cd228.			1.00	mg/kg
007440)-48-4	Co228.			17.65	mg/kg
007440)-47-3	Cr267.			1.66	mg/kg
007440)-50-8	Cu327.			23.8	mg/kg
007439	9-96-5	Mn257.			111	mg/kg
007440)-02-0	Ni221.			10.0	mg/kg
007439	9-92-1	Pb220.			581	mg/kg
007440)-36-0	Sb206.			0.54	mg/kg
007782	2-49-2	Se196.			< 0.21	mg/kg
007440)-21-3	Si251.			2098	mg/kg
007440)-31-5	Sn189.			1.07	mg/kg
007440)-24-6	Sr407.			8.45	mg/kg
007440)-32-6	Ti334.			38.4	mg/kg
007440)-28-0	TI190.			< 0.18	mg/kg
007440)-62-2	V292.4			9.53	mg/kg
007440	-66-6	Zn213.			222	mg/kg

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

List Type:	PCBs	– Method 808	82			
Sample ID:	141216		Matrix: Analyst:	Soil (b)(4)		3/18/2014 12:47:18 PM 4/9/2014 2:45 PM
	CAS No.		Analyte		Concentration	Units
00133	6-36-3	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	mg/kg
0074	29-90-5	AI309.			1642	mg/kg
0074	40-38-2	As189.			< 0.11	mg/kg
0074	40-42-8	B249.7			< 0.03	mg/kg
0074-	40-39-3	Ba455.			12.2	mg/kg
0074-	40-41-7	Be313.			0.085	mg/kg
0074	40-43-9	Cd228.			0.36	mg/kg
00744	40-48-4	Co228.			18.39	mg/kg
00744	40-47-3	Cr267.			1.76	mg/kg
00744	40-50-8	Cu327.			46.9	mg/kg
00743	39-96-5	Mn257.			103	mg/kg
00744	40-02-0	Ni221.			13.8	mg/kg
00743	39-92-1	Pb220.			240	mg/kg
	40-36-0	Sb206.			1.24	mg/kg
00778	32-49-2	Se196.			< 0.21	mg/kg
	40-21-3	Si251.			1552	mg/kg
	40-31-5	Sn189.			2.47	mg/kg
	10-24-6	Sr407.			5.80	mg/kg
	10-32-6	Ti334.			22.6	mg/kg
	10-28-0	TI190.			< 0.18	mg/kg
	10-62-2	V292.4			10.8	mg/kg
00744	10-66-6	Zn213.			150	mg/kg

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

List Type:	PCBs	- Method 808.	2			
Sample ID: CA 001336-3	141217 AS No. 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 LABORA STENNIS SPACE C STENNIS, MS 3952 228-588-1447	TORY SERVICES				CHAIN-OF-CUSTODY R ANALYSIS REQUEST Project Name: <u>B Stand Soil Sam</u> C-O-C Number: <u>BATCH 1403</u>	ples				ſ						PAGI	E1	I C	DF_	_1_	_	
SAAPLER(SINAM SAAPLER(SINAM	(b)(4)		Bidg 1100 R	onmental Office - SSC Ph (228) m 3012B, Slennis Space Center, M FAX (228	AS 39	529	9	SAMPLE DE			e e			DATE		4	Text Text	; ; ;	12		7
Sampling yea	r is: 2014		(G)rab or (C)omp osite	Information	Temperature on ArrivalC°	Total Metals					Ana	llyse	sde	sirec						rese		
DATE	TIME .	NUMBER OF	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE NAME	otal	PCBs												1NO3	HCI	H2SO4	nue:
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03/18/14	11:50	1	G	141211	B Stand Soil Sample # 2		X			-	-		-		-			-	1	-	-	t
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03/18/14	1.50	1	G	141213	B Stand Soil Sample # 4		X			-			+	-			1-1		-	+	1	t
03/18/14	11:58	1	G	141214	B Stand Soil Sample # 5		X	$\left \right $		+		-+-		-			++			+	1-	t
03/18/14	12:15	1	G	141215	B Stand Soil Sample # 6		X			-		-	2015-02		-		1.55		-	-	-	ł
03/18/14	12:15		G	141216	B Stand Soil Sample # 7		x		-	+		+	+		-	+			+-	+		ŀ
03/18/14	12:25	1	G	14/2/0	B Stand Soil Sample # 7		x					-	in and		-	-			-	4-00	-	ŀ
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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	
Analytical Methods		Test For Low Concentrations Of Lead In Pa		2
	EPA SW846-(3050B:7000B) "Standard M	Method To Test For Low Concentrations Of I	Lead In Soils, Sludges and Sediments By	y AAS"
All i resu (RL) by w (<50 repo	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	the 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	ling methods have been used and the dat ber EPA Method 40CFR Part 136 Apend cs. LSD=0.2 ppm MDL=0.0044% by v alysis (<200 mg) ** Not enough samp ontamination by field or analytical blank	tta upon which these dix B. Reporting Limit weight. RL= 0.010% ple provided to analyze ks. This confidential
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:



Sample Log

-Environmental Lead -

Jacbos (Stennis Space Center) Client:

6510-2014 Project

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

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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 Stairweil/Paint-Grey on Orange					
6510-2014-002	5516146 5516147	B2 East Pier North Stairwell/Paint-Grey on Orange	6207	873			•
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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

Celebratii	ng 25 yearsone sample at a time	· Ø A proving
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All correspondence and remitta JACOBS TECHNOLO Building 2204 Stennis Space Cente	GY INC.	urchase Order Purchase Order Show our Purchase Ord papers, containers, and	MOD: 0 Order No. on all invoices, shipping
9000 COMMEF SUITE B MT LAUREL, N Attn: N/A	AL ASBESTOS TESTING LA RCE PARKWAY IJ 08054	BLDG	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 за на
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
			on A, Permit Number JB215320-23.
allowable variations in qu Jacobs Technology Inc. r the Seller waives all right	antity), such excess quantitie nay retain such excess quant s, title or interests therein. Qu	ities up to \$250 in value without antities in excess of \$250 will, a	red for the convenience of the Seller. compensating the Seller therefor, and t the option of Jacobs Technology obs Technology Inc. at the contract
\$50.00. Immediately prio	 Submit bills of lading or oth r to shipment Seller shall noti 	er pertinent documentation to su fy Buyer of all shipping informati	on and estimated time of arrival.
Jacobs FOSC Group S1	ANDARD PROVISIONS, are	made a part hereof and incor	porated by reference.
THIS ORDER IS PLACED		E CONTRACT NUMBER: NN	S0742210
	ified for national defense use, and th	e Contractor shall follow all the requirer	
Your order is hereby acknowled Shipment will be made in accor		Mail all Invoices Direct to	
Date of Acceptance		Jacobs Technology Inc. Stennis Space Center Building 1100 RM 1017B	(b)(4)
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All correspondence and remittances to: JACOBS TECHNOLOGY INC. **Building 2204**

Stennis Space Center, MS. 39529-6000

Purchase Order

Purchase Order Number:

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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)	D FROM THE B2 TE	EST STAND	EAST PIER STA	IRWELLS AND
Model No Part No: New NSN#: -	4 65 65 65 65 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

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(b)(4)

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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

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		a lan ka ka da ka anga ka	
Analysis Method:	ASTM D3335-85A		
	NIOSH 7082		
	EPA SW846 3050B 7000B	NO. 1001 200 200 200 200 200 200 200 200 20	ng mang mang mang mang mang mang mang ma
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.	and a constant of the second state of the second state of the second state of the second state of the second st	
A notrino d Davi	(b)(4)	Approved By	(b)(4)
Analyzed By:		Approved By	
D			Laboratory Director
Date:	1/2/12		3
AS.DailyQC.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	
Chain of Custody Relinguished (Name/Organization (b)(4)	e: 2/19/15 Time: E245E VE 5

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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					Na mangka sa		
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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.



International Asbestos Testing Laboratories

IATL

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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 *		Walatina monorogy (Kalena anna ang yok) ana ang yok (Kalena ang yok) ang yok (Kalena ang yok) ang yok (Kalena a
Matrix spike - Air *		anne e star og forskille sok annon sok sjølige for kan som som sok sok at her som
2.5 ppm Standard	0.25	101
10.0 ppm Standard	1.0	102
40.0 ppm Standard	4.0	98
1		

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 calculat	ting results.
Detection limit based upon 0.2 mg/L reporting limit and sample size.	
* NIST Traceable.	
** 80-120% acceptable limits.	
(b)(4)	Approved E (b)(4)
2/6/15	Laboratory Director
	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 calcula Detection limit based upon 0.2 mg/L reporting limit and sample size. * NIST Traceable. ** 80-120% acceptable limits.

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



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)
environmental sam recognized state pr <u>Matrix/Method:</u> ✓ Paint by AAS □ Wipe/Dust by □ Air by AAS: □ Soil by AAS: □ Water by AA ✓ Other Metals		0 40CFR 141.11B, 20	LC and several other nationally
Special Instruct Please analyze fo PO (b)(4)	ions: r lead and total chromium.		
	me equested Date: Same Day Specific date / time 10 Day 5 Day 3 Day 2 Day business day unless otherwise specified. ** M		6 Hour** 🔲 RUSH**
Chain of Custoc Relinquished (Nar Received (Name / Sample Login (Na Analysis(Name(s) QA/QC Review (N Archived / Release	ne/Organization) (b)(4) iATL): me / iATL): / iATL): Name / iATL):	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	$ \begin{array}{c} Time: \\ Time: $



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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	5544470 5544471	B1 L8 North Vessel					
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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	
	NIOSH 7024	
	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.	Tommental 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			
environmental samp recognized state pro	ples for lead (Pb). The accredita	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 42000 tank find
	: ASTM D3335-85a, 2009		
	AAS: SW 846: 3050B: 700E	B, 2010	QUOIS NE
	NIOSH 7082, 1994		
and a second second	EPA SW 846 (Soil)		
	S-GF: ASTM D3559-03D, U	SEPA 40CFR 141.11B, 20	10
	(Cd, Zn, Cr) by AAS		
	acteristic Leaching Procedure	e (TCLP) by AAS: USEPA	1311
Other			
Special Instruction	$\frac{\text{ons:}}{\text{P}}$	(b)(4)	
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Turnaround Tim		poorty	
Preliminary Results Req	uested Date:	Verba	l 📕 Email 🛄 Fax
10	Day 5 Day 3 Day 2 Da	ny 🗖 1 Day* 🗍 12 Hour** 🔳 (5 Hour** RUSH**
* End of next bu	usiness day unless otherwise specified.	. ** Matrix Dependent. ***Please n	otify the lab before shipping***
Chain of Custody	(b)(4	$p = \frac{\pi}{2} \frac{1}{6} \frac{1}{15}$	12:50 PM
Relinquished (Name	Organization	ate: 2/1 /20	ETIE 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

iATL #	Location/ Description	Flow Rate	<u>Start</u> End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
5546484	Cleanroom floor				100 cm2	
5546485	21 ft. outside cleanroom entrance				100 cm2	
5546486	2 ft: outside cleanroom entrance				156.45 cm2	
5546487	31 ft, outside cleanroom entr., Facility Spares				100 cm2	
5546488	8 ft. outside cleanroom entr., elevator call panel				100 cm2	
5546489	Level 12, below cleanroom entrance				100 cm2	
5346430	Inside west elevator, floor				100 cm2	11 11 11 12 11 11 11 11 11 11 11 11 11 1
5546491	Inside #2 (west) elevator, call panel				100 cm2	
5546492	(Blank)				0 cm2	
		#0.000.000.000.000.000.000.000.000	*******			
		anne alla car talla di catala			<u> </u>	
					300001000335000000000000000000000000000	2552234266 09442555000 044945660254600054
	5546484 5546485 5546486 5546487 5546488 5546489 5546491	iATL #Description5546484Cleanroom floor554648521 ft. outside cleanroom entrance55464862 ft. outside cleanroom entrance554648731 ft. outside cleanroom entrance55464888 ft. outside cleanroom entrance55464881 ft. outside cleanroom entrance55464881 ft. outside cleanroom entrance55464881 ft. outside cleanroom entrance55464881 ft. outside cleanroom entrance5546489Level 12, below cleanroom entrance5546491Inside west elevator, floor	iATL #DescriptionRate5546484Cleanroom floor554648521 ft. outside cleanroom entrance55464862 ft. outside cleanroom entrance554648731 ft. outside cleanroom entrance554648878 ft. outside cleanroom entrance554648871 ft. outside cleanroom entrance554648871 ft. outside cleanroom entr., Facility Spares554648888 ft. outside cleanroom entr., elevator call panel55464890Level 12, below cleanroom entrance55464910Inside west elevator, floor55464911Inside #2 (west) elevator, call panel	iATL #DescriptionRateEnd5546484Cleanroom floor554648521 ft. outside cleanroom entrance55464862 ft. outside cleanroom entrance554648731 ft. outside cleanroom entrance5546488% t. outside cleanroom entrance55464871 ft. outside cleanroom entrance5546488% t. outside cleanroom entr., Facility Spares5546488% t. outside cleanroom entr., elevator cell panel5546489Level 12, below cleanroom entrance5546491Inside west elevator, floor5546491Inside #2 (west) elevator, call panel	iATL #DescriptionRateEndtime (min)5546484Cleanroom floor </td <td>iATL #DescriptionRateEndtime (min)Volume (L)5546484Cleanroom floor100 cm2554648521 ft. outside cleanroom entrance100 cm255464862 ft. outside cleanroom entrance100 cm2554648731 ft. outside cleanroom entrance100 cm255464888 ft. outside cleanroom entrance100 cm255464888 ft. outside cleanroom entrance100 cm255464888 ft. outside cleanroom entrance100 cm25546488100 cm2100 cm25546489Level 12, below cleanroom entrance100 cm25546490Inside west elevator, floor100 cm25546491Inside #2 (west) elevator, call panel100 cm2</td>	iATL #DescriptionRateEndtime (min)Volume (L)5546484Cleanroom floor100 cm2554648521 ft. outside cleanroom entrance100 cm255464862 ft. outside cleanroom entrance100 cm2554648731 ft. outside cleanroom entrance100 cm255464888 ft. outside cleanroom entrance100 cm255464888 ft. outside cleanroom entrance100 cm255464888 ft. outside cleanroom entrance100 cm25546488100 cm2100 cm25546489Level 12, below cleanroom entrance100 cm25546490Inside west elevator, floor100 cm25546491Inside #2 (west) elevator, call panel100 cm2

* = 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

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- 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:				IN	PORTANT	INSTRUCT	ION:
International Asbestos Testing Laborato 9000 Commerce Parkway, Suite B Mt. Laurel, New Jersey 08054 Ph. 877-428-4285, 856-231-9449 Fx. 856-231-9818	ry						
1, 000-201 0010				SN No.			
THE MATERIAL LISTED BELOW IS BEIN	G SHIPPED TO YOU FOR TH	E FOLLOWING REASON	IS:				
REPAIR OR REPLACE AT VENDO	R'S EXPENSE	LOAN		BE RETURNED (NO C	HARGE)	🗌 RET	URN FOR CREDIT
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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	1: ASTM D3335-85A NIOSH 7082 EPA SW846 3050B 7000B	
Comment	 S: 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 I Da	By: (b)(4) (b)(4) Approved By Laboratory Director $Laboratory Director$	

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 LABORAT AIHA-LAP, LLC No.	FORY ACCREDITATION PROGRAM (NLLAP)100188NYSDOH-ELAP No. 11021
Analysis Method:	EPA SW846-3050B:7000B "Standard Method To Test For Low Con	centrations Of Lead In Soils, Sludges And Sediments By AAS"
Comments:	supplied by the client. Method Detection Limit (MDL) per EPA Method Standard Determined (LSD) in accordance with AIHA-ELLAP policies. sampled). The EPA 403 Final Rule (40 CFR 745.63) requires that all wij E1792. Sample results are not corrected for contamination by field or ana	ing methods and data upon which these results are based, have been accurately
Date Received:	2/10/2015	(b)(4)
Date Analyzed:	2/10/2015	Approved By
Analyst:	(b)(4)	(b)(4)

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-TRANSME	

company: Jacobs FOSC G	EMSL-Bill to: M Same Different If Bill to is Different note instructions in Comments**						
Street: BUILDING 1100 SUIT		Th	ırd Party Billing requ	ures writter	authonzati	on from third o	artv
City Demis SAVE (ENTER State/P	rovince: MS		I Code: 2952			ntry: USA	<i></i>
Report To (Name) (b)		Telephon		(b)(4)			
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Project Name/Number: 10544-2	015		rovide Results:		Email		
U.S. State Samples Taken: MS			les: 🗌 Commerc			sidential/Tax	Exempt
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	d in accordance with EMS	L's Terms a	nd Conditions locate	d in the Pr			
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		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 Ab			J/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)	
Wastewater Unpreserved	SM3111B/SW846-1	7000B	Flame Atomic Ab	sorption		ı/L (ppm)	
Preserved with HNO ₃ pH < 2 \Box	EPA 200.9		Graphite Furna			ıg/L (ppm)	
- •	EPA 200.7		ICP-AES			ig/L (ppm)	
Drinking Water Unpreserved \square Preserved with HNO ₃ pH < 2 \square	EPA 200.9 EPA 200.8		Graphite Furna	CE AA		ng/L (ppm) ng/L (ppm)	
TSP/SPM Filter	40 CFR Part 50 (2	2013)	ICP-MS			ig/filter	
Other:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				·····	grinter	
Name of Sampler: 3/30/20/5		Signa	ture of Sample	.			
Sample # Location	on		Volume/Are		(~)(Date/Time S	ampled
33015-001 LI FLOOP BOTTOM (v oranio, rite		-		1:-3
53015-062 LII Troop BEHIND	_			<u> </u>		1-4-1-1	
	•				·	11	
	N HEATER PANE	/		· · · ·			
33015-004 LII TOP OF LIGHT				I	-		
53015-005 LII BEAM N. WALL			T			 Щ	
Client Sample #'s 001 - 04		}		al # of Sa			
Relinguished (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

LOOP IN FRONT CITO3	107	
	lf1 ²	2/30/15 9-3p
LOOP BOTTOM OF GAIPWELL	4	ty
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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)*

Client Sample Descr	iption Lab ID Collected Analyzed	Area Sampled	Lead Concentration
33015-001	251501885-0001 3/30/2015 3/31/2015	144 in ²	2400 µg/ft ²
	Site: L11 FIr Bottom of Stairwell		
33015-002	251501885-0002 3/30/2015 3/31/2015	144 in²	3900 µg/ft²
	Site: L11 Flr Behind Gate C1109		
33015-003	251501885-0003 3/30/2015 3/31/2015	144 in ²	920 μg/ft²
	Site: L11 Flr Under GN Heater Panel		
3015-004	251501885-0004 3/30/2015 3/31/2015	144 in ²	790 μg/ft²
	Site: L11 Top of Light Fixture		
3015-005	251501885-0005 3/30/2015 3/31/2015	144 in ²	300 μg/ft²
	Site: L11 Beam N Wall 3' High		
33015-006	251501885-0006 3/30/2015 3/31/2015	144 in ²	210 μg/ft ²
	Site: L11 Flr in Front C1103		
3015-007	251501885-0007 3/30/2015 3/31/2015	144 in ²	1200 µg/ft²
	Site: L12 FIr Bottom of Stairwell		
3015-008	251501885-0008 3/30/2015 3/31/2015	144 in ²	110 µg/ft²
	Site: L12 C1206 Storage Door		
3015-009	251501885-0009 3/30/2015 3/31/2015	144 in ²	590 µg/ft²
	Site: L12 Top of Light Fixture		
3015-010	251501885-0010 3/30/2015 3/31/2015	144 in ²	260 µg/ft ²
	Site: L12 Beam on W Wall 5' High		
3015-011	251501885-0011 3/30/2015 3/31/2015	144 in ²	160 µg/ft²
	Site: L13 C1307 Storage Door		
3015-012	251501885-0012 3/30/2015 3/31/2015	144 in ²	33 µg/ft²
	Site: L13 Handrail		
3015-013	251501885-0013 3/30/2015 3/31/2015	144 in ²	140 µg/ft²
	Site: L14 N Handrail		
3015-014	251501885-0014 3/30/2015 3/31/2015	144 in ²	21 µg/ft²
	Site: L14 S Handrail		
3015-015 ***	251501885-0015 3/30/2015	n/a	µg/wipe
	Site: L14 Beam NE Corner *** Not submitted.		



*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	Lab ID Collected	Analyzed	Area Sampled	Lead Concentration
33015-016	251501885-0016 3/30/2015	3/31/2015	144 in²	580 µg/ft²
	Site: L15 Beam N			
33015-017	251501885-0017 3/30/2015	3/31/2015	144 in ²	1000 µg/ft²
	Site: L15 S Handrail			
33015-018	251501885-0018 3/30/2015	3/31/2015	144 in ²	1600 µg/ft²
	Site: L15 1/2 Stairwell Landin	g		
33015-019	251501885-0019 3/30/2015	3/31/2015	144 in ²	620 μg/ft²
	Site: L15 Top of H20 Tank 2			
33015-020	251501885-0020 3/30/2015	3/31/2015	144 in ²	200 µg/ft ²
	Site: L16 Beam S 6' High			
33015-021	251501885-0021 3/30/2015	3/31/2015	144 in ²	34 µg/ft²
	Site: L16 Middle Handrail			
3015-022	251501885-0022 3/30/2015	3/31/2015	144 in ²	1600 µg/ft²
	Site: L16 Second Step			
33015-023	251501885-0023 3/30/2015	3/31/2015	144 in ²	570 µg/ft²
	Site: L16 Top of Light Fixture			
3015-024	251501885-0024 3/30/2015	3/31/2015	144 in ²	71 μg/ft²
	Site: L17 Transformer 00137	4		
3015-025	251501885-0025 3/30/2015	3/31/2015	144 in ²	220 µg/ft ²
	Site: Level 17 I Beam NE Cor	ner		
3015-026	251501885-0026 3/30/2015	3/31/2015	144 in ²	1500 µg/ft²
	Site: L17 Top of Table Tray			
3015-027	251501885-0027 3/30/2015	3/31/2015	144 in ²	400 µg/ft ²
	Site: Top of Light Fixture			
3015-028	251501885-0028 3/30/2015	3/31/2015	144 in ²	330 µg/ft²
	Site: I-Beam S			
3015-029	251501885-0029 3/30/2015	3/31/2015	144 in ²	3300 µg/ft²
	Site: Top of Electrical Panel L	_P-117		
33015-030	251501885-0030 3/30/2015	3/31/2015	144 in ²	31 µg/ft²
	Site: I beam SW 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	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
33015-031	251501885-00	31 3/30/2015	3/31/2015	144 in ²	220 µg/ft ²
	Site: Top of Ur	it NW			
33015-032	251501885-00	32 3/30/2015	3/31/2015	144 in²	510 µg/ft²
	Site: I-Beam N	E			
33015-033	251501885-00	33 3/30/2015	3/31/2015	144 in ²	8100 µg/ft²
	Site: Top of Lig	ht at C1803			
33015-034	251501885-00	34 3/30/2015	3/31/2015	144 in²	1600 µg/ft²
	Site: Floor				
33015-035	251501885-00	35 3/30/2015	3/31/2015	144 in²	100 µg/ft²
	Site: Table in C	904			
33015-036	251501885-00	36 3/30/2015	3/31/2015	144 in ²	1000 µg/ft ²
	Site: Floor in 9	04			
33015-037	251501885-00	37 3/30/2015	3/31/2015	144 in²	300 µg/ft ²
	Site: I Beam N	W 5" up			
33015-038	251501885-00	38 3/30/2015	3/31/2015	144 in²	39 µg/ft ²
	Site: Beam on	E Wall			
33015-039	251501885-00	39 3/30/2015	3/31/2015	144 in²	15 µg/ft²
	Site: Handrail				
33015-040	251501885-004	40 3/30/2015	3/31/2015	144 in ²	180 µg/ft²
	Site: I-Beam 2'	up S Wall			
33015-041	251501885-004	41 3/30/2015	3/31/2015	144 in ²	1200 µg/ft²
	Site: Light fixtu	re above fire e	xtinguisher		



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	-	Lead (Pb) Cl EMSL Orde]	200 CINN PHC	SL ANALYTI 0 ROUTE 13(NAMINSON, N DNE: (800) 2 FAX: (856) 7	0 North IJ 08077 20-3675	
Wavela	Company : Street: Bui	Jacobs FOSC Iding 1100, Ste Space Conter State	Group U3G Province: MS		EMSL-Bi If Bill to is Diffe Ind Party Billing req Il Code: 34 52	uires writter	ructions in C n authorizat		
æ	Report To (Na Email Address Project Name/	ime): (t	0)(4) 4)	Please P	e #: 2, 2,8 - 6,88 - rovide Results: les: 🔲 Commer	🗌 Fax	[] Email		
	U.S. State San		urnaround Time (TA					sidentiali i a	x Exempt
(re	3 Hour	🗌 6 Hour 🗌 2	4 Hour 48 Hour	r 🗌 72	2 Hour 🛛 🤋	6 Hour	ice Guide	/eek] 2 Week
		Matrix	Method		Instrum			ting Limit	Check
	Chips 🗌 % b	y wt. 🗋 mg/cm² 🔲 ppm	SW846-7000	в	Flame Atomic A	bsorption		.01%	
	Air		NIOSH 7082		Flame Atomic A	bsorption	4 µ	g/filter	
1			NIOSH 7105		Graphite Furn			µg/filter	
			NIOSH 7300 mod	lified	ICP-AES/IC	P-MS		µg/filter	
æ	Wipe*	ASTM D	SW846-7000	В	Flame Atomic Absorption		10 µg/wipe		
ver	*if no box is	non ASTM	SW846-6010B c	ICP-AES		1.0 µg/wipe			
		Wipe is assumed	SW846-7000B/7	Graphite Furn	ace AA	0.075 µg/wipe			
	TCLP		SW846-1311/7000B/S	Flame Atomic A	•		g/L (ppm)		
				SW846-1131/SW846-6010B or C			0.1 mg/L (ppm)		┠─╞╡┙┥
	Soil		SW846-7000	Flame Atomic A		40 mg/kg (ppm)		╏┝╡╴┧	
			SW846-7010 SW846-6010B d	Graphite Furnace AA ICP-AES		0.3 mg/kg (ppm) 2 mg/kg (ppm)		╏┝╡┨	
			SM3111B/SW846-		Flame Atomic Absorption		0.4 mg/L (ppm)		╉┝╞┥┥
	Wastewater	Unpreserved	EPA 200.9	,	Graphite Furnace AA			ng/L (ppm)	╞╴╞╡┈┨
	Preserved w	ith HNO₃ pH < 2 □	EPA 200.7		ICP-AES			ng/L (ppm)	
	Drinking Wa	ter Unpreserved	EPA 200.9		Graphite Furnace AA		0.003 n	ng/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 5		ICP-AES			ug/filter	╽──╞╡──╽
			40 CFR Part 5	60	Graphite Furn	ace AA	3.6	µg/filter	┠╌╞╡╌┨
	Other:								┸─└┙──┤
	Name of San			Signa Signa	ture of Sample				
	Sample #	Loca		•	Volume/Ar	ea		Date/Time \$	
	3315-001	Middle Table	<u> </u>	I s	ig foot			3/3/15	8:00 am
	3315-002	MILIO Wave Ta	612						
	3315-003	Floor Near Re Floor Near E Microwave Tu	fridgerator						
	3315-004	Floor Near F.	ntrance		\mathbf{V}				
	3315-005	Microwave Tu	IN table	154	t inches				/
	Client Samp	e#'s ??/[-001 - ?	215-011		Tot	al # of Sa	mples:	111	
	Relinquished	d (Client)	Date:	3/3/1	s 3/3/5	Time:	Z	: Joph a	?'.30 ~~
	Received (Lab Comments:);(D)	(4) Date:	3/0	4/15	Time:	Time: 2:30pm 2:30pm Time: 11:20 a.M		
	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 1320
2315-007	Microwave Table		
	Floor Near VE fridger ntor		
3315-009	Floor near entrance		
3315-010		NIA	
3715-011	NIA	NIA	
······································			
Comments/S	pecial Instructions: Please provid Resu	145 +2:	
	(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	Lead Concentration
3315-001	251501212-00 Site: Middle Ta		3/4/2015	144 in ²	<10 µg/ft²
3315-002	251501212-00 Site: Microway	02 3/3/2015	3/4/2015	144 in ²	16 µg/ft²
3315-003	251501212-00 Site: Floor Nea	03 3/3/2015	3/4/2015 r	144 in²	1200 µg/ft²
3315-004	251501212-00 Site: Floor Nea		3/4/2015	144 in²	930 µg/ft²
3315-005	251501212-00 Site: Microwav		3/4/2015	154 in ²	<9.4 µg/ft²
3315-006	251501212-00 Site: Middle Ta		3/4/2015	144 in ²	<10 µg/ft²
3315-007	251501212-00 Site: Microwav		3/4/2015	144 in ²	12 µg/ft²
3315-008	251501212-00 Site: Floor Nea		3/4/2015	144 in ²	250 μg/ft²
3315-009	251501212-00 Site: Floor Nea		3/4/2015	144 in²	170 µg/ft²
3315-010	251501212-00 Site: N/A	10 3/3/2015	3/4/2015	n/a	<10 µg/wipe
3315-011	251501212-00 Site: N/A	11 3/3/2015	3/4/2015	n/a	<10 µg/wipe



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 (Pb) Chain of Custody EMSL Order ID (Lab Use Only)				EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077		
EMBL ANALYTICAL, INC.	L			1252		PHONE Fax ⁻		20-3675 36-5974
Company: Jacobs	FOSC G	roup	_			ame Differe		
Street: Building 110				rd Party Billing re				
City: Waveland	State/P	rovince: MS	Zip/Posta	I Code: 395	29	Country	: USA	
Report To (Name):	<u>(b)</u>	(4)	Telephon		(b)(4)			-
Email Address			Fax #: 7	28-688	-6456	Purchas	e Order	<u>; (b)(4</u>
Project Name/Number:	¥ =	215	Please Pr	ovide Results	🗌 Fax	Email		
U.S. State Samples Take				es: 🗌 Comme		ole 🗌 Reside	nuai/ i az	Exempt
		Irnaround Time (TA	- ' - `					
		Hour 48 Hou		d Conditions loc				2 Week
Matrix		Method		Instrun	nent	Reporting	Limit	Check
Chips 🗌 % by wt. 🔲 m	g/cm² 🗍 ppm	SW846-7000	В	Flame Atomic	Absorption	0.01%)	
Air		NIOSH 7082	2	Flame Atomic	Absorption	4 µg/filt	er	
		NIOSH 7105	j	Graphite Fur	nace AA	0.03 µg/f		
· · · · · · · · · · · · · · · · · · ·		NIOSH 7300 mo	dified	ICP-AES/I	CP-MS	0.5 µg/fi		
Wipe*	ASTM	SW846-7000	В	Flame Atomic Absorption		10 µg/wipe		Ľ
non *if no box is checked, no	n ASTM	SW846-6010B	or C	ICP-AI	ES	1 0 µg/w	ripe	
Wipe is a		SW846-7000B/7	010	Graphite Fur	nace AA	0 075 µg/	wipe	
TCLP		SW846-1311/7000B/S		Flame Atomic	Absorption	0.4 mg/L (
		SW846-1131/SW846-6		ICP-AI		0.1 mg/L (
Soil		SW846-7000 SW846-7010		Flame Atomic Absorption Graphite Furnace AA		40 mg/kg (ppm) 0.3 mg/kg (ppm)		┢─┝┽
		SW846-6010B		ICP-AI		2 mg/kg (┝╌╞╡╴
Westewater		SM3111B/SW846-	7000B	Graphite Furnace AA		0.4 mg/L (ppm)		
Wastewater Unpres Preserved with HNO ₃ p		EPA 200.9					3 mg/L (ppm)	
		EPA 200.7		ICP-AES		0.020 mg/L (ppm)		┝─┝┤
Preserved with HNO ₃ p		EPA 200.9 EPA 200.8		Graphite Fur ICP-N		0.003 mg/L (ppm) 0 001 mg/L (ppm)		╞╴╞┽
		40 CFR Part 5	50	ICP-MS		12 µg/fil		
TSP/SPM Filter		40 CFR Part 8		Graphite Furnace AA		3 6 µg/fi	lter	
Other:								
Name of Sampler:			igna	ture of Samp	ler			
Sample #	Locati	on		Volume/A		Date	er rime S	Sampled
001 Break 1	Room floor ne	el entrage		1 59 ft		3/5/	15 D	8:00
		retridgerator						
		al loffice						
	ntrance off		ļ					
005 on dest	1 office ;	2 Middle office		\bigvee			\bigvee	
Client Sample #'s	001 - 01				otal # of Sa	amples:	10	
Relinguished (Client):	(b)(4)	Date:	315/15	5/15	Time:	10:45		
					1		20pt	

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	1 Sq ft	3/5/15 09:00
007	On desk office 3 office		
008	floor entrance office 2 middle or desth office 3 office floor entrance office 3 office cable tray Blonk		
009	cable tray	NIA	V
010	Rlank	NIA	NIA
	· · · · · · · · · · · · · · · · · · ·		
Comments/S	pecial instructions:	<u> </u>	I
	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)*

					Lead
Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Concentration
001	251501252-0001	3/5/2015	3/5/2015	144 in²	69 µg/ft ²
	Site: Break Roor	n floor Near	entrance		
002	251501252-0002	2 3/5/2015	3/5/2015	144 in²	120 µg/ft ²
	Site: Break Roor	n Near refrid	Igerator		
003	251501252-0003	3/5/2015	3/5/2015	144 in ²	<10 µg/ft²
	Site: On desk of	fice 1 N offic	e		
004	251501252-0004	4 3/5/2015	3/5/2015	144 in²	25 µg/ft ²
	Site: Floor entra	nce office 1 I	N office		
005	251501252-0005	5 3/5/2015	3/5/2015	144 in²	25 μg/ft ²
	Site: On desk of	fice 2 Middle	office		
006	251501252-0006	6 3/5/2015	3/5/2015	144 in ²	120 µg/ft ²
	Site: Floor entra				
007	251501252-0007	7 3/5/2015	3/5/2015	144 in²	10 µg/ft ²
	Site: On desk of	fice 3 S offic	e		
008	251501252-0008	3/5/2015	3/5/2015	144 in²	150 μg/ft²
	Site: Floor entra	nce office 3	S office		
009	251501252-0009	9 3/5/2015	3/5/2015	144 in²	300 µg/ft ²
	Site: Cable tray				
010	251501252-0010	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

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.	

EMS

Company: Jacobs FOSC Group				EMSL-Bill to: Same Different				
	ding 1100, Swite		Third Party Billing requires written authorization from third party					
City: Wavele		rovince: MS	Zip/Postal Code: 39529 Country: 454					
Report To (Nai			Telephone #: (b)(4)					
Email Address				228-688-6	L 456	Purchase Order:	(b)(4)	
	Number: B2 - Surv-	<u></u>		rovide Results: [^		
		01					1	
U.S. State Sam	nples Taken: MS	Irnaround Time (TA				Residential/Tax	Exempt	
1 3 Hour	T	Hour 48 Hour	- ' - '			1 Week	2 Week	
		d in accordance with EMS					Z HEEK	
	Matrix	Method		Instrumer		eporting Limit	Check	
Chips 🛛 % by	y wt. 🗌 mg/cm² 🔲 ppm	SW846-7000	3	Flame Atomic Abs	orption	0.01%	Ū.	
Air		NIOSH 7082		Flame Atomic Abs	sorption	4 µg/filter	Ę	
		NIOSH 7105		Graphite Furnad	xe AA	0.03 µg/filter		
			lified	ICP-AES/ICP-	MS	0 5 µg/filter		
Wipe*	ASTM	SW846-7000	3	Flame Atomic Abs	orption	10 µg/wipe		
· ·	non ASTM	SW846-6010B c	or C	ICP-AES		1.0 µg/wipe		
	Wipe is assumed	SW846-7000B/7	010	Graphite Furnad	e AA	0.075 µg/wipe		
TCLP		SW846-1311/7000B/S	SM 3111B	Flame Atomic Abs	ame Atomic Absorption 0 4 m			
	· · · · · · · · · · · · · · · · · · ·	SW846-1131/SW846-6	010B or C	ICP-AES).1 mg/L (ppm)		
Soil		SW846-7000	3	Flame Atomic Abs		0 mg/kg (ppm)		
		SW846-7010		Graphite Furnad		.3 mg/kg (ppm)	<u> </u>	
·		SW846-6010B c		ICP-AES		2 mg/kg (ppm)		
Wastewater	Unpreserved	SM3111B/SW846- EPA 200 9	7000B	Flame Atomic Abs).4 mg/L (ppm)		
Preserved wit	th HNO₃ pH < 2 🛛 🗌	EPA 200 9 EPA 200 7		Graphite Furnace AA ICP-AES Graphite Furnace AA		0 003 mg/L (ppm) [0.020 mg/L (ppm) [0 003 mg/L (ppm) [
Drinking Wat	er Unpreserved	EPA 200 9						
	th HNO ₃ pH < 2 \Box	EPA 200 8		ICP-MS		.001 mg/L (ppm)		
TSP/SPM Filt	07	40 CFR Part 5	0	ICP-AES		12 µg/filter		
		40 CFR Part 5	50	0 Graphite Furnace AA		3 6 µg/filter		
Other:		l						
Name of Sam	· · · · · · · · · · · · · · · · · · ·)(4)	Signa	ature of Sample		(b)(4)		
Sample #	Locati			Volume/Are	a	Date/Time S	Sampled	
5316-001	Landing between les	nd 10-11 stairwell		1 sq ++		3/\$15		
3415-002	Outside near dus	t collectors				314/15		
	BZ level 13, clear			\checkmark	<u>.</u>	3/5/15		
006	Blank			NIA		3/5/15		
001 Dest Pier Stair grey on orange			NIA		315/15			
Client Sampl					I # of Samp	les: 12		
Relinquished	(Client):	Date:	3/s/1	5	Time:	10:45		
Received (Lab): (b)(4)	Date:	3/0	5 25/15	Time:	1:20p1	z	
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

002	Gray Lor cland Greyon yellow on	Print Dr	21-1
	Orag LOC CILLOW " orange	2 Dr	3/5/15 7
003	Gray LOC clamp Greyon yellow on orange Ityseyon BZ level 11, Soft Core Int. Siding grey	spartles	315/15
	Bgiol support column		314/15
	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	NA	NIA
Comments/Sp B EMail ves	ecial Instructions:		_ 1

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	d Analyzed	Volume	Lead Concentration
Air-001	251501253-0009 3/4/2015	5 3/5/2015	863.1 L	<4.6 µg/m³
	Site: S side of containment	t level II B2		
Air-002	251501253-0010 3/4/2015	5 3/5/2015	802 L	<5.0 µg/m³
	Site: B2 Interface between	10-11		
Air-003	251501253-0011 3/4/2015	5 3/5/2015	786 L	<5.1 µg/m³
	Site: B2 ground N side ne	ar dust collectors		
Air-Blank	251501253-0012 3/4/2015	5 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	251501253-0005 3/4/2015	3/5/2015	21 % wt
	Site: On W Pier stair		
002	251501253-0006 3/4/2015	3/5/2015	7.0 % wt
	Site: Gray LOC clamp		
003	251501253-0007 3/4/2015	3/5/2015	0.17 % wt
	Site: B2 level II, Soft Cove Int		
007 **	251501253-0008 3/4/2015	3/5/2015	0.14 % wt
	Site: B9101 support column ** Data reported may not read insufficient sample weight su Suggested weight for analy		



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	Lead Concentration
3316-001	251501253-000	1 3/4/2015	3/5/2015	144 in²	1500 µg/ft²
	Site: Landing be	etween level 1	0-11 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	3, clean RM F	loor		
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):

15Ō

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

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EM\$L	ANALY	TICAL,	INC.
ABORA			

EM/E

	Company : Jacobs FOSC Group		EMSL-Bill to: Same Different					
		lding 1100, Suite 213	G	Third Party Billing requires written authorization from third party				
	City: Wave		Province: MS	Zip/Postal Code: 39529 Country: USA				
ŀ	Report To (Na			Telephor			<u> </u>	
F	Email Addres	(b)(4))	Fax #:	228-688-6456	Purchase Order	$(\mathbf{b})(\mathbf{A})$	
		Number: 6548-2015	87 Sec. 4		rovide Results:		<u>(D)(4)</u>	
ŀ		moles Taken: MS		t · · · ·		· · · · · · · · · · · · · · · · · · ·		
ŀ	0.5. State 5a		urnaround <u>Time (</u> TA		es: Commercial/Taxa	ible 📋 Residential/Tax	Exempt	
ŀ		6 Hour (42/-12) 24			2 Hour 96 Hour	1 Week	2 Week	
H					nd Conditions located in the F		2 HOCK	
Ī		Matrix	Method		Instrument	Reporting Limit	Check	
Γ	Chips 📋 % t	oy wt. 🔲 mg/cm² 🗌 ppm	SW846-7000	3	Flame Atomic Absorption	0.01%		
Ø [Air		NIOSH 7082		Flame Atomic Absorption	4 µg/filter		
	*		NIOSH 7105		Graphite Furnace AA	0.03 µg/filter		
L			NIOSH 7300 mod	lified	ICP-AES/ICP-MS	0.5 µg/filter		
	Wipe*	ASTM 🗹 non ASTM 🔲	SW846-7000	3	Flame Atomic Absorption	10 µg/wipe		
۳I	*if no box i	non ASTM	SW846-6010B c	or C	ICP-AES	1.0 µg/wipe		
	110000	Wipe is assumed	SW846-7000B/7	010 Graphite Furnace AA		0.075 µg/wipe		
Г	TCLP		SW846-1311/7000B/S	SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)		
			SW846-1131/SW846-6	010B or C	ICP-AES	0.1 mg/L (ppm)		
	Soil		SW846-7000	Graphite Furnace AA		40 mg/kg (ppm)		
			SW846-7010			0.3 mg/kg (ppm)		
ŀ			SW846-6010B c		Flame Atomic Absorption	2 mg/kg (ppm) 0.4 mg/L (ppm)		
Í	Wastewater		SM3111B/SW846-7000B EPA 200.9		Graphite Furnace AA	0.003 mg/L (ppm)		
	Preserved w	/ith HNO₃ pH < 2 □	EPA 200 7		ICP-AES	0.020 mg/L (ppm)		
Ē	Drinking Wa	ter Unpreserved	EPA 200 9		Graphite Furnace AA	0.003 mg/L (ppm)		
L	Preserved w	vith HNO ₃ pH < 2 \Box	EPA 200 8		ICP-MS	0 001 mg/L (ppm)		
	TSP/SPM Fil	lter	40 CFR Part 5		ICP-AES	12 µg/filter		
L	Other:		40 CFR Part 5	50	Graphite Furnace AA	3.6 µg/filter		
ł	Name of Sar	nnier (b)(4)	Signa	ture of Sampler:	(b)(4)		
ŀ	Sample #	Locat	/	orgine	Volume/Area	Date/Time S	Sampled	
ŀ			vel 10 + 11	91	4.8 L	10/12/15		
ľ	Air-Blank			100	NA	12/15	480min	
ľ			Brack-Perm	<u> </u>	10 (11	10/12/1	.5	
Ľ	* 6563-5	to as ser main	we Electricity to a	See 🕶	EL NEKT BAGE			
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┢	Client Samp	le #'s			Total # of S	amples: 9		
	•			21.		13.40		
╞	Relinquishe	d (Client (b)(4) Date:		5/15 Time:	10.00		
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ſ	Comments:	Please cmail results			(b)(4)		-	
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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/Tin	ne Sample
WIRE-001-	8-13-15	Mesaining Break Boon Table	1 ft ²	3/13/15	840
		Megainine Break Room Microwave T	ъle	ч	843
		Mezzanine Entrance Break Room Flo		u	845
4		Messamine SE Break Room Floor		4	650
1		Lv 10 Stairwell Larding	11	c <u>y</u>	9:10
		Lu 13 Clean Room Floor	ţl	13	945
		Blank		3/13/	15
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Comments/S	 pecial inst	ructions:		1	

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

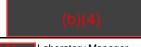
Controlled Document --- Lead (Pb) COC - R6- 6/12/2012

Page 2 Of 2



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

Client Sample Description	Lab ID Collected Analyzed	Volume	Lead Concentration
Air-001	251501501-0001 10/12/2015 3/17/2015	964.8 L	<4.1 µg/m³
	Site: B2 Interface level 10 & 11		
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	Lead Concentration
Wipe-001-3-13-15	251501501-000	3 3/13/2015	3/17/2015	144 in²	10 µg/ft²
	Site: Mezzanine	e Break Rm Ta	able		
Wipe-002-3-13-15	251501501-000	04 3/13/2015	3/17/2015	144 in ²	35 µg/ft²
	Site: Mezzanine	e Break Rm M	icrowave Table		
Wipe-003-3-13-15	251501501-000	05 3/13/2015	3/17/2015	144 in ²	420 µg/ft ²
	Site: Mezzanine	e Entrance Bre	eak Rm Floor		
Wipe-004-3-13-15	251501501-000	06 3/13/2015	3/17/2015	144 in ²	240 µg/ft ²
	Site: Mezzanine	e SE Break Rr	n Floor		
Wipe-005-3-13-15	251501501-000	07 3/13/2015	3/17/2015	144 in ²	1900 µg/ft²
	Site: Lv 10 Stai	rwell Landing			
Wipe-006-3-13-15	251501501-000	08 3/13/2015	3/17/2015	144 in ²	140 µg/ft²
	Site: Lv 13 Clea	an 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 Baton Rouge	tustriple
	Lead (Pb) C EMSL Orde			EMSL ANALYTI	ICAL, INC.
	EINGL OIGE			CINNAMINSON; A PHONE: (800) 2	
EMSLANALYTICAL, INC. LAS UNATORI/PRODUCTS ITRANINS			1649	Fax: (856) 7	
Company: TES				Same Different	
Street: 5133 Taravella	Rol.	1 т	hird Party Billing requires wit	ten authorization from third (party
	Province:	Zip/Post		Country:	
Report To (Name		Telephor	ne # (b)(4)	<i>W</i>	
Email Address:		Fax #:		Purchase Order	r E N
Project Name/Number: FNV-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				
	Hour 48 Hour		2 Hour 96 Hour		2 Week
*Analysis complete	ed in accordance with EMS Method	L's l'erms a	nd Conditions located in the . Instrument	Price Guide Reporting Limit	Check
Chips 🎇 by wt. 🗌 mg/cm² 🗌 ppm	SW846-7000E		Flame Atomic Absorption	0.01%	
Air	NIOSH 7082		Flame Atomic Absorption	4 µg/filter	
	NIOSH 7105		Graphite Furnace AA	0.03 µg/filter	
	NIOSH 7300 mod		ICP-AES/ICP-MS Flame Atomic Absorption	0.5 µg/filter	
Wipe* ASTM 🕅 non ASTM 🔲	SW846-7000E			10 µg/wipe	
"if no box is checked, non-ASTM	SW846-6010B or C SW846-7000B/7010		ICP-AES	1.0 µg/wipe	┢─┟┤
Wipe is assumed	SW846-1311/7000B/SM 3111B		Graphite Furnace AA	0.075 µg/wipe	
TCLP	SW846-1311//0008/SM 31118 SW846-1131/SW846-6010B or C		Fiame Atomic Absorption ICP-AES	0.4 mg/L (ppm) 0.1 mg/L (ppm)	┟┈╞┽╶┤
Soli	SW846-7000B		Flame Atomic Absorption	40 mg/kg (ppm)	
	SW846-7010		Graphite Furnace AA	0.3 mg/kg (ppm)	
	SW846-6010B or	rC	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 ICP-AES	0.003 mg/L (ppm) 0.020 mg/L (ppm)	
	EPA 200.7 EPA 200.9		Graphite Furnace AA	0.003 mg/L (ppm)	┝╌╞┤──
Drinking Water Unpreserved Preserved with HNO3 pH < 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		
		(·····	
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Client Sample #'s		······································	, Total # of S	amples:	
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Consists of Document Lead (Pb) COC No 6/12/2012	Page 1 of 2	nades			6
		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 10+11	8726	3/19/15
B.A.r.Z	10th Floor Outside	900'L	3(19/15
Bs-Ar3	Exhaust	912L	3/19/15
Baripel	Exhanst Stairwell Between Floors 10+11 Battom of 10th Floor Strice	14412	3/19/15
Bripe-2	Bottom of 10th Floor Stairs	144:2	3/19/15
Beirige 3	Clean Room Floor	14432	3/19/5
BSCOT 4	Exhanst	144:n2	/ //-
		,	
		· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·	
Comments/Spe	ecial Instructions:		

Page Z of Z 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 Bet	ween 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



Marrero, LA 70073	Phone: Fax: Received: Collected:	(504) 348-3098 (504) 348-3043 03/23/15 8:20 AM 3/19/2015	
		Fax: Received:	Fax: (504) 348-3043 Received: 03/23/15 8:20 AM

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	Lead Concentration
Pbwipe-1	251501649-000	4 3/19/2015	3/23/2015	144 in²	190 µg/ft²
	Site: Stairwell B	etween Flrs 1	0&11		
Pbwipe-2	251501649-000	5 3/19/2015	3/23/2015	144 in ²	110 μg/ft²
	Site: Bottom of	10th Flr Stairs	;		
Pbwipe-3	251501649-000	6 3/19/2015	3/23/2015	144 in ²	300 µg/ft²
	Site: Clean Rm	Floor			
Pbwipe-4	251501649-000	7 3/19/2015	3/23/2015	144 in²	170 µg/ft ²
	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	······································	Lead (Pb) Cl EMSL Order	r ID (Lab	Use Only); 773 EMSL-Bill to: S If Bill to Is Different note In Ird Party Billing requires write al Code:	structions in Comments**	CAL, INC.	i i
	Report To (Name Email Address:		felephor fax #:	10 #:	Purchase Order	(b)	
	Project Name/Number: 1150	5068		rovide Results: 🔲 Fax		(0)	
	U.S. State Samples Taken;	1-200		les: Commercial/Taxa		Exempt	ł
		frnaround Time (TA	r) Option	s* - Please Check			
	3 Hour 6 Hour 12			2 Hour 96 Hour		2 Week	
	Analysis complete	Method	L's Terms a	nd Conditions located in the P Instrument	Reporting Limit	Check	
	Chips 1% by wt. I mg/cm ² ppm	SW846-7000B		Flame Atomic Absorption	0.01%		
	Air	NIOSH 7082		Flame Atomic Absorption	4 µg/filter		
V.C		NIOSH 7105		Graphite Furnace AA	0.03 µg/filter		
i		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		
B	non ASTM	SW846-6010B or C		ICP-AES	1.0 µg/wipe		
	Wipe Is assumed	SW846-7000B/70		Graphite Furnace AA	0.075 µg/wipe		1
	TCLP	SW846-1311/7000B/SM SW846-1131/SW846-60		Flame Atomic Absorption ICP-AES	0.4 mg/L (ppm) 0.1 mg/L (ppm)		
	Soil	SW846-7000B		Flame Atomic Absorption	40 mg/kg (ppm)		4 •
		SW846-7010		Graphite Furnace AA	0.3 mg/kg (ppm)		
· ·		SW846-6010B or		ICP-AES	2 mg/kg (ppm)		
Í	Wastewater Unpreserved	SM3111B/SW846-70 EPA 200.9	0008	Flame Atomic Absorption Graphite Furnace AA	0.4 mg/L (ppm) 0.003 mg/L (ppm)	[
	Preserved with $HNO_3 pH < 2$	EPA 200.7		ICP-AES	0.020 mg/L (ppm)		
Γ	Drinking Water Unpreserved	EPA 200.9		Graphite Furnace AA	0.003 mg/L (ppm)		
ŀ	Preserved with HNO ₃ pH < 2	EPA 200.8 40 CFR Part 50		ICP-MS ICP-AES	0.001 mg/L (ppm) 12 µg/filter	— <u>–</u> ––	
	TSP/SPM Filter	40 CFR Part 50		Graphite Furnace AA	3.6 µg/filter		
Ľ	Other:						
	Name of Sampler:		Signat	ure of Sampler:]	
	Sample # Location	<u>m</u>		Volume/Area	Date/Time S	ampled	
w	By-11 Exhanst			144:1-	3/24	1:261	m
	P-7 Stairs Betw	centat!!!		144:02	31216	1:46	m
W -	Da-3 (Jean R	oom	1	44:2	2/246	5:31	Pm
- ψ -		DAM		44.2	12 Joul	71791	2
w -			— <i>†</i> .	The T		C. CH	A
υĻ	$\frac{H_1 - L_1}{\text{Client Sample #'s}} = \frac{K - P_1 - P_2}{F_1 - P_2}$	or l		Total # of Sa	mples: 1/1/2	-, 20 f	้า
┢			T		174- C		
	Relinquished (Clie	Date:		Time:	0.40		
	Received (Lab): (b)(4) Date: $3/2/e/15$ Time: $9:40$ AM						
	Commenta.					[
						[
	Consulted Document Lead (PD) COC - No. 6/12/2012 6 Wypers 42 6 Cassettes 62	Page 1 of 2	<u>_</u> pages				
		Page 1	Of	2		Rig	, Fedag

-

·	EMBL ANALYT LAIDAATORY-PAGO		h Han Only	EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077 PHONE: (800) 220-3675 FAX: (856) 786-5974
	Additional P	ormation		
	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	971.14	4:37pm
Cassertes)	P2Air2	Outside South of Contain	nut 1081 L	5:10pm
	A Aicl	East Containment	1096 L	6:25pm
	A Air	West Containment	10902	625pm
l	AAIC	3 Near Dust Collector	1048.8L	637pm
	Commente/Sr	ecial Instructions:		
	- on the second	AAIMI UTAN AAUAUAI		

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 in ²	290 µg/ft²
	Site: Exhaust			
B2-2	251501773-0002 3/24/2015	3/26/2015	144 in ²	79 μg/ft²
	Site: Stairs Between 10 & 11			
B2-3	251501773-0003 3/24/2015	3/26/2015	144 in ²	56 µg/ft ²
	Site: Clean Room			
A1-1	251501773-0004 3/24/2015	3/26/2015	144 in ²	100 µg/ft ²
	Site: Clean Room			
A1-2	251501773-0005 3/24/2015	3/26/2015	144 in ²	4200 µg/ft ²
	Site: Rep Floor			
A1-3	251501773-0006 3/24/2015	3/26/2015	144 in ²	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: TES, Inc.					ructions in Comments*	**
Street: 5133 Taravella	a Rd.	Tł	ird Party Billin	g requires writter	authorization from	third party
	te/Province:	Zip/Post		70072	Country:	U.S.
Report To (Nam		Telephor	ne #: 504-	348-300	58	
Email Address: (b)	(4)	Fax #:			Purchase C	Order:
Project Name/Number: IA 1/50	-15068		rovide Resu	Its: 🗌 Fax		
U.S. State Samples Taken: 145					le 🗌 Residentia	litax Exampt
U.S. State Samples Taken: 2-15	Turnaround Time (T					an sax Exempt
B 3 Hour	24 Hour 24 Hou		2 Hour	96 Hour	1 Week	2 Week
	leted in accordance with EM					
Matrix	Method			ument	Reporting Li	mit Check
Chips 🗍 % by wt. 🗌 mg/cm² 📋 pp	n SW846-7000)В	Flame Aton	nic Absorption	0.01%	
Air	NIOSH 708	2	Elame Aton	nic Absorption	4 µg/filter	
	NIOSH 708					
S L	NIOSH 710 NIOSH 7300 mg			Furnace AA S/ICP-MS	0.03 µg/filte 0.5 µg/filter	
14/1	SW846-7000			nic Absorption	10 µg/wipe	
Wipe* ASTM Inon ASTM	SW846-6010B			i	1.0 µg/wipe	
*if no box is checked, non-ASTM Wipe is assumed	SW846-7000B/		ICP-AES Graphite Furnace AA		0.075 µg/wip	
TCLP	SW846-1311/7000B/		Flame Atomic Absorption		0.4 mg/L (ppr	
ICEF	SW846-1131/SW846-		ICP-AES		0.1 mg/L (ppr	
Soil	SW846-7000	<u></u>	Flame Atom	nic Absorption	40 mg/kg (ppr	
	SW846-701	SW846-7010		Furnace AA	0.3 mg/kg (pp	
	SW846-6010B	or C	ICP	-AES	2 mg/kg (ppn	ו) 🗌
Wastewater Unpreserved		SM3111B/SW846-7000B		tic Absorption	0.4 mg/L (ppr	
Preserved with HNO ₃ pH < 2 \Box	EPA 200.9		Graphite Furnace AA		0.003 mg/L (pp 0.020 mg/L (pp	
		EPA 200.7				
Drinking WaterUnpreservedPreserved with HNO3 pH < 2	EPA 200.9 EPA 200.8		Graphite Furnace AA ICP-MS		0.003 mg/L (pp 0.001 mg/L (pp	
	40 CFR Part		ICP-MIS		12 µg/filter	
TSP/SPM Filter	40 CFR Part		Graphite Furnace AA		3.6 µg/filter	
Other:					X	
Name of Sampler: (b)(4)	Signa	ture of San	npler:	(b)(4)	
	ation	T	Volume		Date/Ti	me Sampled
140215-AIR-1 B-Stand Interior	- 11 handin Tutotan	7	81.65	2	oforle	5 9:00
	B. Stand Exterior -12 landing		7A.62	52	· · ·	
11-11-3 B-Stend Estrior-1	1-3 B-Stand Entrino-Noile by calanst		760.0 L		<u>`ı</u>	
" 4 Algand Exterior-	4 Alstand Estorior- 2-NESSRE-Nectmont		748.0	12	· ,	
11-11-5 Al-Stand Exterior - 5- Starrese			742,0		۰.	
Client Sample #'s				Total # of Sa	mples: <u> </u>	Ś
Relinquished (Client):	Date:		2/15	Time:	7:0	
Received (Lab):	b)(4) Date:	4/3	115	Time:	10:00	an
Comments:						

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

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

Reg. FedEx

A Same day trucound (30-6 Lour)



Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2002

11931 Industrip)ex Blvd Baton Rouge, LA 70809 Stelod EMSL ANALYTICAL, INC. -200 ROUTE 130 NORTH CINNAMINSON, NJ 08077-PHONE. (800) 220-3675 FAX: (856) 786-5974

				<u> </u>		
Company: TES, Inc. Street: 5133 Taravella Rd.			EMSL-Bill to: Same Different			
company. FIZZ TO COURT	a Rd.	- -				
	tate/Province: 1 A	1	<i>ird Party Billing requires writtei</i> Il Code: <i>つ</i> のフて		S	
					<u>, , , , , , , , , , , , , , , , , , , </u>	
Report To (Nan	(b)(4)	<u> </u>	1e#: 504-548-1			
Email Address:		Fax #:	<u> </u>	Purchase Order	:	
Project Name/Number: //5			rovide Results: 🔲 Fax	🗋 Email		
U.S. State Samples Taken:	15		les: 🗌 Commercial/Taxal	ble 🗌 Residential/Tax	< Exempt	
	Turnaround Time (TA					
	24 Hour 48 Hour		2 Hour 96 Hour	1 Week	2 Week	
	npleted in accordance with EMS Method	SL'S Terms a		Reporting Limit	Check	
Matrix			Instrument			
Chips 🛛 🖧 by wt. 🗌 mg/cm² 📋 p	900 SW846-7000	B	Flame Atomic Absorption	0.01%		
Air	NIOSH 7082	2	Flame Atomic Absorption	4 µg/filter		
	NIOSH 7105		Graphite Furnace AA	0.03 µg/filter		
	NIOSH 7300 mod	dified	ICP-AES/ICP-MS	0.5 µg/filter		
Wipe* ASTM	SW846-7000F	в	Flame Atomic Absorption	10 µg/wipe	9	
non ASTM	SW846-6010B c	or C	ICP-AES	1.0 µg/wipe		
*if no box is checked, non-ASTM Wipe is assumed	SW846-7000B/7	010	Graphite Furnace 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-AES	0.1 mg/L (ppm)		
Soil	SW846-7000	В	Flame Atomic Absorption	40 mg/kg (ppm)		
	SW846-7010		Graphite Furnace AA	0.3 mg/kg (ppm)		
	SW846-6010B c	or C	ICP-AES	2 mg/kg (ppm)		
Wastewater Unpreserved	SM3111B/SW846-	7000B	Flame Atomic Absorption	0.4 mg/L (ppm)		
Preserved with HNO ₃ pH < 2	E.FA 200.9	Graphite Furnace AA ICP-AES		0.003 mg/L (ppm)		
	EPA 200 7 EPA 200.9		Graphite Furnace AA	0.020 mg/L (ppm) 0.003 mg/L (ppm)	╊╌┾╤┥╾╾┩	
Drinking Water Unpreserved \square Preserved with HNO ₃ pH < 2 \square	EPA 200.9 EPA 200.8		ICP-MS	0.003 mg/L (ppm)	┟──╞╡──┨	
	40 CFR Part 5	50	ICP-AES	12 µg/filter		
TSP/SPM Filter	40 CFR Part 5		Graphite Furnace AA	3.6 µg/filter		
Other:						
Name of Sampler: ($\gamma(4)$	Signa	ture of Sampler:	(b)(4)	<u> </u>	
	ocation		Volume/Area	Dater Time S	Sampled	
040215-A.R-6 Al-Stand Etmar-		- *	722.0 L	04/02/15		
			100.00	57/021-3		
OXORIS-BULK- J Al-Stand Exterior		1	1			
040215-Wies Al-Hand Cat-S	5-Clean Pm Host	(12/12	1) 144 in2	``		
11-11-2 11 11 -5	- for itsta: 15	H	11			
040215-Willer Al-Stand Cat-5	Iterm on glatton	(10 - 1	4.5") 145 in2			
Client Sample #'s			Total # of Sa	amples: <u>S</u>		
Relinquished (Client):	Date:	ou/	orlis Time:	1700		
Received (Lab):	(b)(4) Date:	· · ·	3/15 Time:	18:00 a	m	
Comments:			1		-]	
					ł	

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

2 Page / of _____ pages

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- INCOMETE, THE	11/10/2

ME

Company: TES, Inc.			EMSL-Bill to: Same Different					
Street: 5133 To		Rd.	Th	ird Party Billing	requires writte	n authoriza	ation from third p	artiv
City: Marrero		Province:		al Code: 7			untry: U.	
	(b)(4)		Talanhan	ie #: 504	242-5			1.
Report To (Name):	(D)(4)				>70			
Email Address:	(D)(4)	1170C]	Fax #:			· · · · · · · · · · · · · · · · · · ·	rchase Order	<u> </u>
Project Name/Number:		-15068		rovide Result		<u>Ema</u>		
U.S. State Samples Tak						ble 🗌 R	esidential/Tax	Exempt
		urnaround Time (TA						
D's Hour D6		Hour 48 Hour			<u>] 96 Hour</u>		Week 🗌	2 Week
	*Analysis complete	d in accordance with EMS	sL's Terms al	na Conditions la Instru			uting Lingit	Checi
Matrix		Method					rting Limit	Cileci
Chips 🗌 % by wt. 🔲 m	ng/cm² [] ppm	SW846-7000E	B	Flame Atomi	c Absorption		0.01%	
Air		NIOSH 7082		Flame Atomi	c Absorption	4	µg/filter	
		NIOSH 7105		Graphite Fi	urnace AA	0.03	3 µg/filter	
	(272)	NIOSH 7300 mod					µg/filter	
Wipe*	ASTM 11	SW846-7000E	3	Flame Atomic	c Absorption	10	µg/wipe	
noi	n ASTM 🗍	SW846-6010B o	or C	ICP-/	AES	·	µg/wipe	
*if no box is checked, no Wipe is a	on-ASTM assumed	SW846-7000B/7	010	Graphite Fi	umace AA		5 µg/wipe	
TCLP		SW846-1311/7000B/S	M 3111B	Flame Atomic			ig/L (ppm)	
		SW846-1131/SW846-6		ICP-AES		0.1 mg/L (ppm)		- H
Soil		SW846-7000E	3 Flame Atomic Absorption			g/kg (ppm)	$\overline{\Box}$	
		SW846-7010		Graphite Fu	imace AA		g/kg (ppm)	
		SW846-6010B o	or C	ICP-/	AES	2 mg	/kg (ppm)	<u> </u>
Wastewater Unpres	served	SM3111B/SW846-7	7000B	Flame Atomic Absorption			ig/L (ppm)	
Preserved with HNO ₃		EPA 200.9	Graphite Furnace AA			.003 mg/L (ppm)		
		EPA 200.7					mg/L (ppm)	
Drinking Water Unpre		EPA 200.9 EPA 200.8		Graphite Fu			mg/L (ppm) mg/L (ppm)	
Preserved with HNO ₃			0				µg/filter	
TSP/SPM Filter		40 CFR Part 5	40 CFR Part 50		ICP-AES Graphite Furnace AA		µg/filter	
Other:			<u> </u>				<u></u>	<u> </u>
Name of Sampler:	(b)(4	\	Signal	ture of Sam				
Sample #	Locatio	/	loigha	Volume//		<u> </u>	Date/Time S	amnled
040215-W195-4/41			e h et	- (n"n")			04/02/15	
111-5 B-St	and brand Fi	bor Ext Mar Le-Co	he sat	 /*	• •	<u>~ </u>	1	
		13-Clean Room		•,	'i		 I \$	
		11- Mid Landin		• .	1.		·.	
		and Ilean	t to branch .	= 1(6' x24')		``	
Client Sample #'s				T	otal # of Sa	mples:	5	
Relinquished (Client):	(b)(4	Date:	01/0	2/5	Time:		17:00	
Reiniquistica (offerit).					1		10:00 am	

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	Lab ID	Collected	Analyzed	Volume	Lead Concentration
040215-Air-1	251502002-000	1	4/3/2015	781.65 L	<5.1 µg/m³
	Site: B-Stand In	t-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 I	Ext-1NE Side			
040215-Air-5	251502002-000	5	4/3/2015	742 L	<5.4 µg/m³
	Site: A1-Stand I	Ext-S Staircas			
040215-Air-6	251502002-000	6	4/3/2015	722 L	<5.5 µg/m³
	Site: A1-Stand I	Ext-W side-5-	S containment		



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	a Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
040215-Wipe-1	251502002-0008		4/3/2015	144 in ²	310 µg/ft ²
	Site: A1-Stand E	xt-5-CleanR	m Floor		
040215-Wipe-2	251502002-0009		4/3/2015	144 in ²	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	Eside		
040215-Wipe-4	251502002-0011		4/3/2015	144 in ²	<10 µg/ft²
	Site: 4/A1-Groun	d Floor Ext-l			
040215-Wipe-5	251502002-0012		4/3/2015	144 in ²	360 µg/ft ²
	Site: B-Stand Gr	ound Floor E			
040215-Wipe-6	251502002-0013		4/3/2015	144 in ²	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	d		
040215-Wipe-8	251502002-0015		4/3/2015	144 in ²	170 µg/ft²
	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

					<u> </u>		
	Company: TES		EMSL-Bill to: Same Different				
	Street: 5133 Taravella	Rd	Third Party Billing requires written authorization from third party				
		Province: CA		al Code: フロロフと	Country: U.S.		
	Report To (Name			ne #: 524 - 348-309		· • • • •	
	Email Address;			110 #. 307 - 378 - 304			
		15019	Fax #:		Purchase Order	·····	
	Project Name/Number: TH 1150-	12060		Provide Results: 📋 Fax			
	U.S. State Samples Taken: MS			oles: Commercial/Taxa	ble 🔄 Residential/Tax	c Exempt	
		urfmaround Time (TA 4 Hour □ 48 Hour				10111	
				'2 Hour 96 Hour and Conditions located in the P		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 µg/filter		
		NIOSH 7300 mod	lified	ICP-AES/ICP-MS	0.5 µg/filter		
	Wipe* АSTМ	SW846-7000E	3	Flame Atomic Absorption	10 µg/wipe	U	
Ø	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	SW846-7000E	3	Flame Atomic Absorption	40 mg/kg (ppm)		
		SW846-7010	- 0	Graphite Furnace AA	0.3 mg/kg (ppm)		
ŀ		SW846-6010B o		ICP-AES	2 mg/kg (ppm)	<u> </u>	
	Wastewater Unpreserved	SM3111B/SW846-7 EPA 200.9	0008	Flame Atomic Absorption Graphite Furnace AA	0.4 mg/L (ppm) 0.003 mg/L (ppm)		
	Preserved with HNO ₃ pH < 2 \Box	EPA 200.7		ICP-AES	0.020 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	TSP/SPM 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			Volume/Area	Date/Time S	ampled	
k	040715-Apz-@ B-crhu	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			
	" - A(R-4) Al-141	dust astlector	/	838 L			
Γ		le Econtatione		8346			
	Client Sample #'s	· · · · ·		Total # of Sa	imples: /3		
Ľ	Relinquished (Client):	Date:	04/	Jime:	17:00	د	
	Received (Lab): (b)(4) Date:	HI	08/15 Time:	9:45 am		
	Comments:	Duto	-11		/ /	-	

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

7 airs 6 wipes

Page 1 of _____ pages

Page 1 Of 2

Rig. Filip

EMSL

EMSL 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

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

2106

Sample #	Location	Volume/Area	Date/Time Sampled
040715-	AIR-6 Al-outside Wountaine	+ 838.352	04/07/15
DYDTIS-A	12-BLANK	······································	(
040715-	NRG- OAL- and dust collect	or 144?	
··· -v	SIPE CAl-representative floor- 4	clos 144 :22	
· · - h	OIPE-BAI-clean room	144 sm2	
<u>ιι</u> -ω	IPE-9 B-intortane 10/11	144 in 2	
11 -W	REG B-outide na coloste	11rdur 144 in2	
1	PG - BLANK		
Comments/Sp	ecial Instructions:	1	

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	n Lab ID	Collected	Analyzed	Volume	Lead Concentration
040715-AIR-1	251502106-0001	4/7/2015	4/8/2015	888 L	<4.5 µg/m³
	Site: B-exhaust c	of dust collec	tor		
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	8 4/7/2015	4/8/2015	878 L	<4.6 µg/m³
	Site: B-outside S	containmer	ıt		
040715-AIR-4	251502106-0004	4/7/2015	4/8/2015	838 L	<4.8 µg/m³
	Site: A1-near dus	st collector			
040715-AIR-5	251502106-0005	5 4/7/2015	4/8/2015	834 L	<4.8 µg/m³
	Site: A1-outside	E containme	ent		
040715-AIRr-6	251502106-0006	6 4/7/2015	4/8/2015	838.35 L	<4.8 µg/m³
	Site: A1-outside	W containm	ent		
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	251502106-0008 4/7/2015	4/8/2015	144 in ²	20 µg/ft ²
	Site: A1-outside dust collecto	or		
040715-WIPE-2	251502106-0009 4/7/2015	4/8/2015	144 in ²	470 µg/ft²
	Site: A1-representative floor	below stairs		
040715-WIPE-3	251502106-0010 4/7/2015	4/8/2015	144 in ²	1300 µg/ft²
	Site: A1-clean room			
040715-WIPE-4	251502106-0011 4/7/2015	4/8/2015	144 in ²	<10 µg/ft²
	Site: B-interface 10/11			
040715-WIPE-5	251502106-0012 4/7/2015	4/8/2015	144 in ²	300 µg/ft²
	Site: B-outside outside near	dust collector		
040715-WIPE-BLANK	251502106-0013 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 - Jacobs (Stennis Space Center)				EMSL-Bill to: Same [] Different If Bill to is Different note instructions in Comments**					
Street Building 1100 Suite 213G				Third Party Billing requires written authorization from third party					
	Space Center	-	rovince MS	Zip/Postal Code 39529 Country: United States					
Report To (Na	(b)(4)			Telephor					
Email Addres)(4)		· · · · · · · · · · · · · · · · · · ·	28-688-3368		P	urchase Order	(b)(4)
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Chips 🗌 % b	y wt. mg/cm³	mqq					кер	orting Limit	Слеск
	A ar [] mâirm [_]bhau	SVV846-70008		Flame Atomic At	samion		0 01%	
Air			NIOSH 7082		Flame Atomic At			4 µg/filter	
			NIOSH 7105		Graphite Furna			03 µg/filter	
Wipe*	ASTM		NIOSH 7300 mod		ICP-AES/ICP			5 µg/filter	
· ·	non ASTM		SW846 70008		Flame Atomic At			0 µg/wipe	
	is checked, non ASTM La SW846-6010 Wipe is assumed			лС	ICP-AES	;	1.	0 µg/wipe	
TCLP	SW846-1311/7000B/S					0.4 mg/L (ppm)			
Soil	SW846-1131/SW846-6					0.1 mg/L (ppm)			
301	SW846-7000			ii			ng/kg (ppm)		
	SW846-6010B o						ig/kg (ppm)		
Wastewater	Unpreserved		\$M3111B/\$W846-1 EPA 200.9	7000B Filame Atomic Absorption Graphite Furnace AA			0.4 mg/L (ppm) 0.003 mg/L (ppm)		-님-
Preserved wi	ith HNO₃pH < 2		EPA 200.9	ICP-AES		0.020 mg/L (ppm)			
Drinking Wat	ter Unpreserved		EPA 200.9	Graphite Furnace AA		0.003 mg/L (ppm)			
	ith HNÔ₃pH < 2		EPA 200.8				0.00	1 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				
Sample #		Locati		Volume/Area			Date/Time Sampled		
Air-001	18th floor softcore at 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 squa	re foot			7/2/2015	
Wipe-003	Blank			N/A				7/2/2015	
Cilent Samp	le#'s <u>A 7001</u>	- 1	nc -007		Tota	al # of Sa	mples	5	
Relinguished	d (Client).			7/6	//5	Time.		1.00pm	
Rocorved (Lab	ı).		o)(4)	7/2	ix	Time		1251	<i>T</i> /
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 - #9- 34(2015

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Page 1 of 1 pages



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

Client Sample Description	n Lab ID Collected	Analyzed	Volume	Lead Concentration
Air-001	201507917-0001 7/2/2015	7/8/2015	903 L	<4.4 µg/m³
	Site: 18th Floor Softcore a	t 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



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

Client Sample Description	ı Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
Wipe-001	201507917-000	3 7/2/2015	7/7/2015	144 in²	23 µg/ft²
	Site: Outside C	lean Room,	Level 13		
Wipe-002	201507917-000	4 7/2/2015	7/7/2015	144 in²	28 µg/ft²
	Site: Equipmer	t Room Floo	r, Level 13		
Wipe-003	201507917-000	5 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/kipe = ug/kt2 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. 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 FOSC Group				EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**				
Street: Buildin	9 1100, Suite	2136					authorization from	third party
City: Waveland	State/P	rovince: 🖊	75	Zip/Posta	I Co <mark>de: 39</mark> .	529	Country:	4SA
Report To (Name	Report To (Name			Telephon	e #:			
Email Address:				Fax #: Z	.28-688	-6456	Purchase C	Order: (b)
Project Name/Num	ber: BZ - Surv-	01			ovide Results		4 Email	Pur
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		irnaround T	ime (TAT) Option	s* - Please C	heck		
🖸 🛛 🖌 Hour	🗌 6 Hour 🛛 🗌 24		48 Hour			96 Hour	🗌 1 Week	2 Week
	*Analysis complete			's Terms ar				
	atrix		lethod		Instrun		Reporting Lir	
Chips 🔐 % by wt.	🗌 mg/cm² 🔲 ppm	SW	846-7000B		Flame Atomic	Absorption	0.01%	
Air		NI	OSH 7082		Flame Atomic	Absorption	4 µg/filter	
		NI	OSH 7105		Graphite Fui	пасе АА	0.03 µg/filte	
		NIOSH	7300 modil	ied	ICP-AES/I	CP-MS	0 5 µg/filter	
Wipe*	ASTM	SW	/846-7000B		Flame Atomic	Absorption	10 µg/wipe	
*if no box is checl	non ASTM	SW84	6-6010B or	С	ICP-AES		1.0 µg/wipe	
	ipe is assumed	SW84	6-7000B/70	10	Graphite Fu	nace AA	0.075 µg/wip	e 🗌
TCLP		SW846-131			Flame Atomic	· · ·	0 4 mg/L (ppr	
		SW846-1131/SW846-6010B or C		ICP-AES		0.1 mg/L (ppr		
Soil		SW846-7000B SW846-7010		Flame Atomic Absorption Graphite Furnace AA		40 mg/kg (pp		
		SW846-6010B or 0		С	ICP-A		0.3 mg/kg (pp 2 mg/kg (ppn	
		SM3111B/SW846-7000B			Flame Atomic		0.4 mg/L (ppr	
	Inpreserved □ NO₃ pH < 2 □	EPA 200 9 EPA 200 7 EPA 200 9 EPA 200 8 40 CFR Part 50			Graphite Furnace AA		0 003 mg/L (pr	
Preserved with H				ICP-AES		0.020 mg/L (ppm) [
Drinking Water t					Graphite Furnace AA		0 003 mg/L (pp	
Preserved with H	NO ₃ pH < 2 □			ICP-MS 50 ICP-AES		0.001 mg/L (ppm)		
TSP/SPM Filter		-	CFR Part 50		Graphite Fu		3 6 µg/filter	
Other:				,	e aprilie r a		o o pgrintor	
Name of Sample		(A)		Signa	ture of Samp	lei	(b)(4)	
Sample #	Locati	on	I		Volume/A		I Date/Ti	me Sample
	ding between les		airwell		1 5g f+		3/\$4/	15
3415-002 01.1	side near dus	+ collector	ns			· ·	3141	
	level 13, clea						3/5/	
106 D	Rlank			NIA		3/5/1		
001 90	Vest Pier Stai	r grey o.	n o range	NIA			315,	115
Client Sample #'s			I	,	Тс	otal # of Sa	amples: /	12
Relinquished (Cl	ient):		Date:	3/s/15		Time:	10:45	
	(b)(4)	Date:	3/1	5/15	Time:	1:21	lon
Received (Lab):								

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

Fray LOC clanp Greyon yellow on Its reyon BZ level 11, Soft Core Int. Siding grey 9101 Support Column Southside of containment level 11 BZ BZ Interface between 10-11 BZ ground Northside near dust collector B/GnK	863.1 L 802 L	3/5/15 # 3/5/15 3/5/15 3/4/15 3/4/15 4/1/min 3/4/15 397min 3/4/15 393min N/19
8 9101 Support Column Southside of containment level 11 BZ B2 Intertace between 10-11 B2 ground Northside Near dust collector B/GnK	863.1 L 802 L 786 L	3/4/15 3/4/15 4/1min 3/4/15 397min 3/4/15 393min
8 9101 Support Column Southside of containment level 11 BZ B2 Intertace between 10-11 B2 ground Northside Near dust collector B/GnK	863.1 L 802 L 786 L	3/4/15 411min 3/4/15 597min 3/4/15 393min
Southside of containment level 11 BZ B2 Intertace between 10-11 B2 ground Northside near dust collector Blank	802 L 786 L	3/4/15 397min 3/4/15 393min
B2 Intertace between 10-11 B2 ground Northside Near dust collector Blank	786 L	3/4/15 393min
Blank		
	~ 14	
cial Instructions:		

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	251501253-0009 3/4/2015	3/5/2015	863.1 L	<4.6 µg/m³
	Site: S side of containment le	evel II B2		
Air-002	251501253-0010 3/4/2015	3/5/2015	802 L	<5.0 µg/m³
	Site: B2 Interface between 1			
Air-003	251501253-0011 3/4/2015	3/5/2015	786 L	<5.1 µg/m³
	Site: B2 ground N side near			
Air-Blank	251501253-0012 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	251501253-0005 3/4/2015 3/5/2015	21 % wt				
	Site: On W Pier stair					
002	251501253-0006 3/4/2015 3/5/2015	7.0 % wt				
	Site: Gray LOC clamp					
003	251501253-0007 3/4/2015 3/5/2015	0.17 % wt				
	Site: B2 level II, Soft Cove Int.					
007 **	251501253-0008 3/4/2015 3/5/2015	0.14 % wt				
	Site: B9101 support column ** Data reported may not reach applicable analytical sensitivity due to insufficient sample weight submitted. Suggested weight for analysis is 0.2g.					



*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 C	Collected	Analyzed	Area Sampled	Lead Concentration
3316-001	251501253-0001 3	/4/2015	3/5/2015	144 in ²	1500 μg/ft²
	Site: Landing betwe	en level 1	0-11 stairwell		
3415-002	251501253-0002 3	/4/2015	3/5/2015	144 in²	240 µg/ft ²
	Site: Outside near of	dust collec			
005	251501253-0003 3	/4/2015	3/5/2015	144 in ²	210 µg/ft ²
	Site: B2 level 13, cl	ean RM F			
006	251501253-0004 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

	EMSL	Lead (Pb) Cl EMSL Orde		-		EMSL ANALYTIC 200 Route 130 CINNAMINSON, N PHONE: (800) 22) North J 08077
	EMBL ANALYTICAL, INC.			500		FAX: (856) 78	36-5974
	company: Jacobs Technole	Х у У				ame Different tructions in Comments**	
Q	Street: Building 1100 R.	4/213				authonzation from third p	arty
Navela	City: Siger Anis Source City State	Province: AA S	Zip/Posta Telephon	11 Code: 39, 5	<u> 79</u>	Country: (54
	Email Address: (b)(4)		Fax #:	<u> </u>	0)(4)	Purchase Order	(b)(4)
	Project Name/Numper: 65.5	2-2015	*****	rovide Results:	Fax	Email	
	U.S. State Samples Taken	hV4 a 12 A on				ole 🔲 Residential/Tax	Exempt
$\widehat{\mathcal{A}}$		urnaround Time (TA	T) Option	s* - Please Che			
Y.		4 Hour 48 Hour			Hour		2 Week
	Matrix	ted in accordance with EMS Method	SL'S Terms a	Instrume		Reporting Limit	Check
	Chips // % by wt. // mg/cm² // ppm	SW846-7000	в	Flame Atomic Ab		0.01%	
	Air	NIOSH 7082	•	Flame Atomic Ab		4 µg/filter	
		NIOSH 7105		Graphite Furna		0.03 µg/filter	
		NIOSH 7300 mod		ICP-AES/ICP		0.5 µg/filter	
(YB	Wipe* ASTM	SW846-7000	в	Flame Atomic Ab	sorption	10 µg/wipe	V
Ċ	*if no box is checked, non-ASTM Wipe is assumed	SW846-6010B c	ICP-AES		1.0 µg/wipe		
	TCLP	SW846-1311/7000B/S		Flame Atomic Abs	sorption	0.4 mg/L (ppm)	
	D _3	SW846-1131/SW846-6	010B or C	ICP-AES		0.1 mg/L (ppm)	
	Soil	SW846-7000	B	Flame Atomic Ab	sorption	40 mg/kg (ppm)	
		SW846-6010B c		ICP-AES		2 mg/kg (ppm)	
	Wastewater Unpreserved	SM3111B/SW846- EPA 200.9	7000B	Flame Atomic Ab Graphite Furnad		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) 0.020 mg/L (ppm)	
	Drinking Water Unpreserved	EPA 200.9		Graphite Furnad	æ 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 Other:	40 CFR Part 50 (2	2013)	ICP-MS		1.2 µg/filter	
	Name of Sampler: (b)(A)	Signa	ture of Sample		(1-) (4)	
	Sample # Locat		Signa	Volume/Are		(D)(4)	ampied
		Outside		x+2		3/17/15	
	2006 Lev. 8, Sout	h outside	L.C	f_{+}		3/17/15	-
	2010 WEN 9. SE.	Outside		F+. 2		3/17/15	-
	2011 Blank		6	>		2/17/12	
	AUT STONA		_		· .		•
	Client Sample #'s			Tota	# of Sa	amples: 4	
	Relinguished (Client):	Date:	1-7	May 15	Time:	1.2051	hia
	(D))(4)	17	1110112			uz.
	Received (Lab): Comments:	Date:	31	17115	Time:	<i>12:10</i> 9	pm

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

Page 1 of ____ pages



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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
2002	251501500-000	1 3/17/2015	3/17/2015	144 in²	1200 µg/ft²
	Site: Lev 9, Sout	th, Outside			
2006	251501500-0002	2 3/17/2015	3/17/2015	144 in ²	220 μg/ft²
	Site: Lev 8, Sout	th, Outside			
2010	251501500-0003	3 3/17/2015	3/17/2015	144 in ²	2000 µg/ft²
	Site: Lev 9, SE,	Outside			
2011	251501500-0004	4 3/17/2015	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,

	EMBL ANALYTICAL INC. CADORATORY - MODULATE - TRANSME Laboratory - MODULATE - TRANSME Laboratory - MODULATE - TRANSME Company : Jacobs (Stennis Space Conter- Street: Building 1100 Suite 213G City:Stennis-Space Conter- State Report To (Name) (b)(4) Email Address (b)(4)		Th (Lab (Th Zip/Posta Telephon Fax #:	Use Only): 2.3.4.16 EMSL-B If Bill to is Diff ird Party Billing red I Code: 39529 ae #	(b)(4) (b)(4)	Baton F PHON FAX ame []] Dif tructions in Co n authonzatio Court Purc	(225) 7 (225) 7 fferent	70809 755-1920 755-1989 Darty d States
	Project Name/Number: 6559-2015			rovide Results:		✓ Email		
	U.S. State Samples Taken: MS			les: 🔲 Comme		ole 🗌 Res	idential/Ta	x Exempt
		Turnaround Time (TA		I		<u> </u>		
(PB)	3 Hour 6 Hour	24 Hour 48 Hour	—		96 Hour		eek	2 Week
Č	Matrix	Method		Instrum			ing Limit	Check
	Chips % by wt. mg/cm ² ppm		B	Flame Atomic A		<u> </u>	01%	
	Air	NIOSH 7082		Flame Atomic A				\square
	Air	NIOSH 7082			·		g/filter	
		NIOSH 7300 mod		Graphite Furr			ug/filter Ig/filter	┦╴┝╡
A	Wipe* ASTM	SW846-7000		B Flame Atomic Absorption		10 µg/wipe		
9	*if no box is checked, non-ASTM Wipe is assumed	SW846-6010B	or C	ICP-AE	S	1.0 µ	g/wipe	
) I	TCLP	SW846-1311/7000B/S	SM 3111B	Flame Atomic A	Absorption		/L (ppm)	
	0.11	SW846-1131/SW846-6	3010B or C	ICP-AE	S	01mg	/L (ppm)	\square
	Soil	SW846-7000	В	Flame Atomic A	Absorption	40 mg/	kg (ppm)	
		SW846-6010B	or C	ICP-AE	S		(ppm)	
	Wastewater Unpreserved	SM3111B/SW846-	7000B	Flame Atomic A	,		/L (ppm)	
	Preserved with HNO ₃ pH < 2	EPA 200.9 EPA 200 7		Graphite Furr			g/L (ppm)	╏─╞╡─┤
	Drinking Water Unpreserved	EPA 200 9		Graphite Furr		7	g/L (ppm) g/L (ppm)	┠─┝┽─┤
	Preserved with HNO ₃ pH < 2	EPA 200.8		ICP-M			g/L (ppm)	╏╴┝┥
	TSP/SPM Filter	40 CFR Part 50 (2	2013)	ICP-M	s		g/filter	
[Other:							
ſ	Name of Sampler: (b)(4)		Signa	ture of Sampl	lei			
[Sample # Loca	ition	ce	Volume/A	rea		Date/Time S	Sampled
	4-1 45 15-001 Mezzanine Break	ntion Room Floor - Entr	1 sq ft			41	15/15 10	1:05
	4-1 \$ 15-002 Mezzanine Break	Room Floor-South	1 sq ft			4/	15/15 1	19:08
	4-15-15-003 Blank					41	15/15 (9740
]								
ł	Client Sample #'s	002	<u> </u>	То	tal # of Sa	amples:	3	
	Relinguished (Client)	Date:	4/1		Time:		9:25	5
	(b) Received (Lab):	(4) Date:	41	5/15	Time:	11	9:25 1:05 a	r.M
ľ	Comments:							<u> </u>

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

Page 1 of 1 pages

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Page 1 Of 1



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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-15-15-001	251502346-000	1 4/15/2015	4/16/2015	144 in ²	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 in ²	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 : Ja	cobs FOSC Grou	ıp (JCV	VS50)	EMSL-Bill to: / Same] Different If Bill to is Different note instructions in Comments**						
		g 1100 Suite 213	ρ,	~		ird Party Billing req	uires writter	authonzat	ion from third r	artv	
		Space Center-	State/P	fovince: MS		al Code: 39529			intry: United		
	Report To (Na			`	Telephor						
	Email Addres		4)			28-688-6456		Pur	chase Order	(b)(4)	
		/Number: 6563-20)15		Please Provide Results: Fax VI			Email			
		nples Taken: MS				les: 🗌 Commer				x Exempt	
			Τι	Irnaround Time (TA					brabintian ras		
Æ	3 Hour	🗌 6 Hour	24				6 Hour	🗌 1 W	/eek 🗌] 2 Week	
C	-		complete	d in accordance with EMS	L's Terms a					·	
		Matrix	<u> </u>	Method		Instrum	ent		ting Limit	Check	
	Chips 🗌 % b	y wt. 🦳 mg/cm² 📋	ppm	SW846-7000	В	Flame Atomic Al	bsorption	0	.01%		
	Air			NIOSH 7082		Flame Atomic Al	bsorption	4 μ	g/filter		
				NIOSH 7105	1	Graphite Furna			µg/filter		
				NIOSH 7300 mod	lified	ICP-AES/ICI	P-MS	0.5	µg/filter		
\mathcal{Q}	Wipe*	ASTM non ASTM		SW846-7000	3	Flame Atomic A	bsorption	10 μ	ıg/wipe	\checkmark	
	*if no box is checked, non-ASTM Wipe is assumed			SW846-6010B or C		ICP-AES		1.0 µg/wipe			
	TCLP		SW846-1311/7000B/S		Flame Atomic Al			g/L (ppm)			
	0.11			SW846-1131/SW846-6	010B or C	ICP-AES	3	0 1 m	g/L (ppm)		
	Soil		:	SW846-70001	3	Flame Atomic Al	bsorption	40 mg	/kg (ppm)		
Į				SW846-6010B c	or C	ICP-AES	3	2 mg/	kg (ppm)		
	Wastewater	Unpreserved		SM3111B/SW846-	7000B	Flame Atomic Al			J/L (ppm)		
		ith HNO ₃ pH < 2		EPA 200.9 EPA 200 7		Graphite Furna ICP-AES			ng/L (ppm)	┠─┝═┽┈	
ł	Drinking Wa	ter Unpreserved		EPA 200 9		Graphite Furnace AA			ng/L (ppm) ng/L (ppm)		
		ith HNO ₃ pH < 2	H	EPA 200 8		ICP-MS		0.001 mg/L (ppm)			
ľ	TSP/SPM Fil			40 CFR Part 50 (2	2013)	ICP-MS			ug/filter		
[Other:			•							
Į	Name of San	npler: (b)(4	1)		Signa	ture of Sample	er:				
]	Sample #		Locati	on		Volume/Ar	ea		Date/ I ime s	sampred	
	4-16-15-001	L11 Floor, ne	ar foot	of stairwell	1 sq ft				4-16-15	12:30	
	4-16-15-002	L11 Floor, ne	ar GN	Panel	1 sq ft				4-16-15	(2:33	
	4-16-15-003	L11 Floor, in	Room	C1109	1 sq ft				4-16-15	12:34	
	4-16-15-004	L11 Floor, ne	ar bat	hroom entrance	1 sq ft				4-16-15	12:39	
Ĩ	4-16-15-005	L11 Handrail			1 sq ft				4-16-15	12:41	
	Client Sample	le #'s 001	- 00	9		Tot	al # of Sa	mples:	9		
	Relinquished	d (Client)		Date:	4/10	0(15	Time:		2:45p		
	Received (Lab	» <u>):</u>		4) Date:	4/	17/15	Time:		7:45 am		
	Comments:										

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

Page 1 of 2 pages

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Page 1 Of 2



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	pecial Instructions:		

Page 2 of 2 pages

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

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	Lead Concentration
4-16-15-001	251502404-000	1 4/16/2015	4/17/2015	144 in ²	210 µg/ft ²
	Site: L11 Floor,	near foot of s	tairwell		
4-16-15-002	251502404-000	2 4/16/2015	4/17/2015	144 in ²	160 µg/ft²
	Site: L11 Floor,	near GN Pan	el		
4-16-15-003	251502404-000	3 4/16/2015	4/17/2015	144 in²	150 µg/ft²
	Site: L11 Floor,	in Room C11	09		
4-16-15-004	251502404-000	4 4/16/2015	4/17/2015	144 in²	200 µg/ft ²
	Site: L11 Floor,	near bathroor	n entrance		
4-16-15-005	251502404-000	5 4/16/2015	4/17/2015	144 in ²	41 µg/ft²
	Site: L11 Hand	ail			
4-16-15-006	251502404-000	6 4/16/2015	4/17/2015	144 in ²	1300 µg/ft²
	Site: L11 Stair,	mid-landing			
4-16-15-007	251502404-000	7 4/16/2015	4/17/2015	144 in ²	280 μg/ft ²
	Site: L11 Top o	f fluorescent l	ight fixture		
4-16-15-008	251502404-000	8 4/16/2015	4/17/2015	144 in²	330 µg/ft²
	Site: L10.5 Stai	rwell Landing			
4-16-15-009	251502404-000	9 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	Barnet Buildin	a 1100 Suite 213G					authorization from third	(narh/			
	City:Stennis 6	Space Center State	Province' MS		I Code: 39529	res written	Country: Unit				
	Report To (Na			Telephon			[• • • • • • • • • • • • • • • • • • •				
	Email Address			1 .	28-688-6456		Purchase Orde	er: (b)(4)			
		Number: 6563-2015		Please Provide Results: Fax √Email							
		nples Taken: MS					ble 🔲 Residential/T	ax Exempt			
			urnaround Time (TA								
Al	3 Hour	🗌 6 Hour 🗌 24	Hour 🗌 48 Hou	r 🗌 7:	2 Hour 🛛 🗍 96	Hour	🗌 1 Week	2 Week			
<i>w</i>			ed in accordance with EMS	SL's Terms a	· · · · · · · · · · · · · · · · · · ·						
		Matrix	Method		Instrume	nt	Reporting Limit	Check			
	Chips 🗌 % b	y wtmg/cm²ppm	SW846-7000	В	Flame Atomic Ab	sorption	0.01%				
	Air		NIOSH 7082	1	Flame Atomic Ab	sorption	4 µg/filter				
			NIOSH 7105	,	Graphite Furna		0.03 µg/filter				
			NIOSH 7300 mod	dified	ICP-AES/ICP	-MS	0.5 µg/filter				
(YE)	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 Ab	sorption	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)				
	···· •••		SW846-6010B	or C	ICP-AES		2 mg/kg (ppm)				
ĺ	Wastewater	Unpreserved	SM3111B/SW846-	7000B	Flame Atomic Ab		0.4 mg/L (ppm)				
		ith HNO ₃ pH < 2	EPA 200 9 EPA 200.7		Graphite Furna ICP-AES	ce AA	0.003 mg/L (ppm) 0 020 mg/L (ppm)				
	Drinking Wat	ter Unpreserved	EPA 200.7 EPA 200.9		Graphite Furna	re AA	0.003 mg/L (ppm)	╵┼╴┝┽			
		ith HNO ₃ pH < 2	EPA 200 8		ICP-MS		0 001 mg/L (ppm)				
	TSP/SPM Fill		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	ture, SE corner	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				
	Relinquished	d (Client):	Date:	417	5	Time:	11.18				
	Received (Lab	(b)(4	.) Date:		1/15	Time:	1:15 pt	L			
	Comments:			<i></i>	· / / -						

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

Page 1 of 1 pages

Couries

Page 1 Of 1



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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration			
4-17-15-001	251502422-000	01 4/17/2015	4/17/2015	144 in ²	85 μg/ft²			
	Site: L 16 Guardrail/top/N side							
4-17-15-002	251502422-000	02 4/17/2015	4/17/2015	144 in²	54 µg/ft ²			
	Site: L16 Stair	rail/top						
4-17-15-003	251502422-000	03 4/17/2015	4/17/2015	144 in ²	2400 µg/ft ²			
	Site: L16 Seco	nd step of stail	well					
4-17-15-004	251502422-000	04 4/17/2015	4/17/2015	144 in²	210 µg/ft ²			
	Site: L16 Top/L	ight Fixture/SI						
4-17-15-005	251502422-000	05 4/17/2015	4/17/2015	144 in²	<10 µg/ft²			
	Site: L16 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 04/17/2015 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	acobs FOSC Grou	up (JCV	VS50)	EMSL-Bill to: [2] Same [] Different						
		ng 1100 Suite 213			ть	ird Party Billing requ				d nadu	
		Space Center		Province: MS		al Code: 39529	mes willer		ountry: Uni		
1	Report To (Na	(1) (1)			Telephor		.)				
	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	🖌 Email			
	U.S. State Sar	nples Taken: MS			CT Samples: Commercial/Taxable CT Samples:						
		1		Irnaround Time (TA							
(LB)	3 Hour	6 Hour		Hour 🗌 48 Hour			6 Hour		Week	2 Week	
		-Analysis Matrix	complete	d in accordance with EMS Method	SL's Terms a	nd Conditions locate Instrume			rting Limit	Check	
	Chips 🗌 % b	by wtmg/cm²	ppm	SW846-7000	B	Flame Atomic Ab			0 01%		
	Air			NIOSH 7082	_	Flame Atomic Ab	,		µg/filter		
	A "			NIOSH 7082		Graphite Furna			3 µg/filter	┨╌┝╡	
				NIOSH 7300 modified		ICP-AES/ICP			5 µg/filter		
Æ	Wipe*	ASTM non ASTM	$\mathbf{\nabla}$	SW846-7000	В	Flame Atomic Ab	sorption		µg/wipe		
\sim	*if no box is checked, non-ASTM			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		g/kg (ppm)		
Ĩ				SW846-6010B c	or C	ICP-AES			g/kg (ppm)		
	Wastewater	Unpreserved		SM3111B/SW846-	7000B	Flame Atomic Ab	· - · - · · ·		ng/L (ppm)	╷┼╴┝╡	
		ith HNO₃pH < 2		EPA 200 9 EPA 200.7		Graphite Furnace AA ICP-AES		0.003 mg/L (ppm) 0.020 mg/L (ppm)			
ł	Drinking Wat	ter Unpreserved		EPA 200.9		Graphite Furna			mg/L (ppm)		
		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				-	
-	Sample #		Locatio			Volume/Are	a		Date/ IIme	e Sampled	
ļ	4-20-15-001	L11 Stairs (re	•	,	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	
ļ	4-20-15-005	L15 Handrail			1 sq ft			4-20-15 9:14			
	Client Sampl	e#'s 0 <mark>01</mark>	- 01	2)(4	1	Tota	al # of Sa	mples:	12		
	Relinquished	d (Client):		Date:		Hpy 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

Page 1 Of 2

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		1 sq ft	4-20-15 9:26
رز 4-20-15-0	9 Blank	n/a	4-20-15
<u> </u>			
1			
· · · · · · · · · · · · · · · · · · ·			
Comments/S	Pecial Instructions:		t

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

Lah ID	Collected	Analwzod	Area Sampled	Lead Concentration
			*	
		4/20/2015	144 in²	1100 µg/ft²
	· · /			
		4/20/2015	144 in ²	630 µg/ft ²
Site: L16 Stairs	(re-sample)			
251502470-000	3 4/20/2015	4/20/2015	144 in²	210 µg/ft ²
Site: L15 Stairs				
251502470-000	4 4/20/2015	4/20/2015	144 in ²	86 μg/ft²
Site: L15 Guard	Irail			
251502470-000	5 4/20/2015	4/20/2015	144 in²	180 μg/ft²
Site: L15 Handı	ail			
251502470-000	6 4/20/2015	4/20/2015	144 in²	72 µg/ft ²
Site: L15 Light	Fixture			
251502470-000	7 4/20/2015	4/20/2015	144 in ²	260 µg/ft ²
Site: L15 Water	Tank			
251502470-000	8 4/20/2015	4/20/2015	144 in²	98 µg/ft²
Site: L14 Stairs				
251502470-000	9 4/20/2015	4/20/2015	144 in²	160 µg/ft²
Site: L14 Handı	ail			
251502470-001	0 4/20/2015	4/20/2015	144 in²	34 µg/ft²
Site: L14 Guard	Irail			
251502470-001	1 4/20/2015	4/20/2015	144 in ²	66 µg/ft²
Site: L14 Light	Fixture			
251502470-001	2 4/20/2015	4/20/2015	n/a	<10 µg/wipe
Site: Blank				
	Site: L11 Stairs 251502470-000 Site: L16 Stairs 251502470-000 Site: L15 Stairs 251502470-000 Site: L15 Guard 251502470-000 Site: L15 Handr 251502470-000 Site: L15 Water 251502470-000 Site: L14 Stairs 251502470-000 Site: L14 Handr 251502470-001 Site: L14 Guard 251502470-001 Site: L14 Light 251502470-001	251502470-0001 4/20/2015 Site: L11 Stairs (re-sample) 251502470-0002 4/20/2015 Site: L16 Stairs (re-sample) 251502470-0003 4/20/2015 Site: L15 Stairs 251502470-0004 4/20/2015 Site: L15 Guardrail 251502470-0005 4/20/2015 Site: L15 Handrail 251502470-0006 4/20/2015 Site: L15 Light Fixture 251502470-0007 4/20/2015 Site: L15 Water Tank 251502470-0008 4/20/2015 Site: L14 Stairs 251502470-0009 4/20/2015 Site: L14 Handrail 251502470-0010 4/20/2015 Site: L14 Guardrail 251502470-0011 4/20/2015 Site: L14 Light Fixture 251502470-0012 4/20/2015	251502470-0001 4/20/2015 4/20/2015 Site: L11 Stairs (re-sample) 4/20/2015 251502470-0002 4/20/2015 4/20/2015 Site: L16 Stairs (re-sample) 4/20/2015 251502470-0003 4/20/2015 4/20/2015 Site: L15 Stairs 4/20/2015 251502470-0004 4/20/2015 4/20/2015 Site: L15 Stairs 4/20/2015 251502470-0005 4/20/2015 4/20/2015 Site: L15 Guardrail 4/20/2015 251502470-0006 4/20/2015 4/20/2015 Site: L15 Handrail 4/20/2015 Site: L15 Light Fixture 4/20/2015 Site: L15 Light Fixture 4/20/2015 Site: L15 Water Tank 4/20/2015 Site: L14 Stairs 4/20/2015 Site: L14 Stairs 4/20/2015 Site: L14 Handrail 4/20/2015 251502470-0010 4/20/2015 4/20/2015 Site: L14 Guardrail 251502470-0011 4/20/2015 251502470-0011 4/20/2015 4/20/2015 Site: L14 Guardrail 251502470-0011 4/20/2015 251502470-0011 4/20/2015 4/20/2015 Site: L14 Light Fixture <td>251502470-0001 4/20/2015 4/20/2015 144 in² Site: L11 Stairs (re-sample) 251502470-0002 4/20/2015 4/20/2015 144 in² Site: L16 Stairs (re-sample) 251502470-0003 4/20/2015 4/20/2015 144 in² Site: L16 Stairs (re-sample) 251502470-0003 4/20/2015 4/20/2015 144 in² Site: L15 Stairs 251502470-0004 4/20/2015 4/20/2015 144 in² Site: L15 Guardrail 2 2 251502470-0005 4/20/2015 4/20/2015 251502470-0005 4/20/2015 4/20/2015 144 in² 144 in² Site: L15 Handrail 2 2 2 144 in² Site: L15 Light Fixture 2 2 144 in² 144 in² Site: L15 Light Fixture 2 2 144 in² 144 in² Site: L15 Water Tank 2 2 144 in² 144 in² Site: L14 Stairs 2 144 in² 144 in² 144 in² Site: L14 Handrail 2 144 in² 144 in² 144 in² Site: L14 Handrail 2 144 in² 144 in² 144 in² Site: L14 Guardrail 2 144 in² 144 i</td>	251502470-0001 4/20/2015 4/20/2015 144 in² Site: L11 Stairs (re-sample) 251502470-0002 4/20/2015 4/20/2015 144 in² Site: L16 Stairs (re-sample) 251502470-0003 4/20/2015 4/20/2015 144 in² Site: L16 Stairs (re-sample) 251502470-0003 4/20/2015 4/20/2015 144 in² Site: L15 Stairs 251502470-0004 4/20/2015 4/20/2015 144 in² Site: L15 Guardrail 2 2 251502470-0005 4/20/2015 4/20/2015 251502470-0005 4/20/2015 4/20/2015 144 in² 144 in² Site: L15 Handrail 2 2 2 144 in² Site: L15 Light Fixture 2 2 144 in² 144 in² Site: L15 Light Fixture 2 2 144 in² 144 in² Site: L15 Water Tank 2 2 144 in² 144 in² Site: L14 Stairs 2 144 in² 144 in² 144 in² Site: L14 Handrail 2 144 in² 144 in² 144 in² Site: L14 Handrail 2 144 in² 144 in² 144 in² Site: L14 Guardrail 2 144 in² 144 i



*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

ſ	Company : Ja	cobs FOSC Gro	up (JCW	/S50)	EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**						
		g 1100 Suite 213			Third Party Billing requires written authorization from third party						
	City:Stennis S			rovince: MS		I Code: 39529	ies winter		untry: United		
-	Report To (Nai		J		Telephon	$(l_{r}) (A)$				<u> </u>	
ł			(A)			28-688-6456		- Du	rchase Order	(b)(4)	
ł	Email Address		<u>)(4)</u> 045			ovide Results:		Ema		<u>N</u>	
ł		Number: 6563-2	015								
ŀ	U.S. State San	n <mark>ples Take</mark> n: MS		un anound Time /TA	CT Samples: Commercial/Taxable				esidențiai/Ta)	Exempt	
2F	3 Hour	6 Hour	T	Hour 48 Hour			Hour		Neek C	2 Week	
Ø				d in accordance with EMS				_			
ľ		Matrix		Method		Instrume			rting Limit	Check	
ľ	Chips 🗌 % b	y wtmg/cm² [ppm	SW846-7000	B	Flame Atomic Ab	sorption	(0.01%		
ľ	Air			NIOSH 7082		Flame Atomic Abs	sorption	4	µg/filter		
1				NIOSH 7105	i	Graphite Furna			3 µg/filter		
				NIOSH 7300 mod	dified	ICP-AES/ICP	MS	0.5	µg/filter		
9	Wipe*	ASTM non ASTM	\square	SW846-7000	В	Flame Atomic Ab	sorption	10	µg/wipe		
	*if no box is checked, non-ASTM Wipe is assumed			SW846-6010B or C		ICP-AES		1 0 µg/wipe			
Ī	TCLP			SW846-1311/7000B/S	SM 3111B	Flame Atomic Ab	sorption		ng/L (ppm)		
1				SW846-1131/SW846-6	6010B or C	ICP-AES		<u>0.1 n</u>	ng/L (ppm)		
	Soil			SW846-7000	в	Flame Atomic Ab	sorption	40 m	g/kg (ppm)		
				SW846-6010B	or C	ICP-AES		<u>2</u> mg	/kg (ppm)		
Ī	Wastewater	Unpreserved		SM3111B/SW846-	7000B	Flame Atomic Ab			ng/L (ppm)		
		ith HNO ₃ pH < 2	H	EPA 200 9		Graphite Furnace AA			mg/L (ppm)	╏╴╞═╡┄	
4				EPA 200.7			20.00		mg/L (ppm) mg/L (ppm)	╞╌╞═┽╴	
		ter Unpreserved ith HNO ₃ pH < 2	H	EPA 200.9 EPA 200 8		Graphite Furna ICP-MS			mg/L (ppm)	╏╴╞╡╴	
ł	TSP/SPM Fil			40 CFR Part 50 (2013)	ICP-MS		1.2 µg/filter			
ŀ	Other:										
ł	Name of San	nnlor: (b)(4	1)		Signa	ture of Sample	 r:				
	Sample #		Locati	on	<u>0.g</u>	Volume/Are			Date/Time	Sampled	
	4-21-15-001	L11 Stairs (r			1 sq ft				4-21-15 9		
		L16 Stairs (I	re-sam	ole)	1 sq ft			- 1	4-21-15 9	9:20	
	4-21-15-003	L13 Stairs			1 sq ft				4-21-15 9		
ł	4-21-15-004 L13 Stair rail			1 sq ft				4-21-15 9	9:28		
	4-21-15-005	L13 Guardra	ail		1 sq ft	· · · · · · · · · · · · · · · · · · ·	<u></u>		4-21-15 9	9:30	
	Client Samp		·- 01	0		Tota	l # of Sa	amples	10		
	Relinquishe			Date:	2/4	Pm 2015	Time:		1338.	ly.	
	Received (Lal		1) Date:	$\frac{2/2p_1 2015}{4/21/15}$ Time:			1338 Lu. 1:40pm				
	Comments:								/		
									•		

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)*

					Lead
Client Sample Descript	ion Lab ID (Collected	Analyzed	Area Sampled	Concentration
1-21-15-001	251502497-0001 4	1/21/2015	4/21/2015	144 in²	220 μg/ft²
	Site: L11 Stairs (re	-sample)			
4-21-15-002	251502497-0002 4	1/21/2015	4/21/2015	144 in²	670 μg/ft²
	Site: L16 Stairs (re	-sample)			
1-21-15-003	251502497-0003 4	1/21/2015	4/21/2015	144 in ²	940 µg/ft²
	Site: L13 Stairs				
4-21-15-004	251502497-0004 4	1/21/2015	4/21/2015	144 in²	96 µg/ft²
	Site: L13 Stair rail				
4-21-15-005	251502497-0005 4	1/21/2015	4/21/2015	144 in²	59 μg/ft²
	Site: L13 Guardrai	l			
4-21-15-006	251502497-0006 4	1/21/2015	4/21/2015	144 in ²	210 µg/ft ²
	Site: L13 Light Fixt	ure			
4-21-15-007	251502497-0007 4	1/21/2015	4/21/2015	144 in ²	560 µg/ft ²
	Site: L12 Stairs				
1-21-15-008	251502497-0008 4	1/21/2015	4/21/2015	144 in²	71 μg/ft²
	Site: L12 Stair rail				
1-21-15-009	251502497-0009 4	1/21/2015	4/21/2015	144 in²	370 μg/ft²
	Site: L12 Light Fixt	ure			
4-21-15-010	251502497-0010 4	1/21/2015	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 : Jacobs FOSC Group (JCWS50)					EMSL-Bill to: Same Different							
		treet:Building 1100 Suite 213G ity:Stennis Space Center State/Province: MS				Third Party Billing requires written authorization from third party							
			State/P	rovince: MS	Zip/Postal Code: 39529				Country: United States				
	Report To (Na	<u>me) (b)(4)</u>			Telephone #: (b)(4)								
	Email Address		(4)		Fax #: 228-688-6456				Purchase Order (b)(4)				
ļ	Project Name/	Number: 6563-20	015			Please Provide Results: Fax				🖌 Email			
	U.S. State San	U.S. State Samples Taken: MS					CT Samples: 🗌 Commercial/Taxab				ole 🔲 Residential/Tax Exempt		
\sim		I	·		T) Options* - Please Check								
H)							72 Hour 🗍 96 Hour			1 Week 2 Week			
~		Matrix	Method		L'S Terms ar	s Terms and Conditions located in the Pri Instrument			Reporting Limit		Check		
								0.01%					
	• ·				SW846-7000B		Flame Atomic Absorption						
	Air			NIOSH			Flame Atomic Absorption		4 µg/filter				
				NIOSH	· · · · · · · · · · · · · · · · · · ·		hite Furnace AA		0.03 µg/filter		<u> </u>		
				NIOSH 730	lified	fied ICP-AES/ICP-MS			0.5 µg/filter				
P	wipe"	Wipe* ASTM 🗸			SW846-7000B			Atomic Ab	tomic Absorption		10 μg/wipe		
<u> </u>	*if no box is checked, non-ASTM Wipe is assumed			SW846-60	r C	C ICP-AES		1 0 µg/wipe					
	TCLP	TCLP			SW846-1311/7000B/SM					0.4 mg/L (ppm)			
				SW846-1131/SW	010B or C ICP-AES		0.1 mg/L (ppm)						
	Soil				SW846-7000B			Flame Atomic Absorption			40 mg/kg (ppm)		
					SW846-6010B or			r C ICP-AES		2 mg/kg (ppm)			
	Wastewater				SM3111B/SW846-7						mg/L (ppm)	┝┝╋┈	
	Preserved wi				EPA 200.9 EPA 200.7			Graphite Furnace AA ICP-AES		0.003 mg/L (ppm) 0.020 mg/L (ppm) 0.003 mg/L (ppm) 0.001 mg/L (ppm) 1.2 µg/filter		┝╌┝┥	
ł	Drinking Wat				EPA 200.9		Graphite Furnace AA ICP-MS ICP-MS						
	Preserved with HNO ₃ pH < 2			EPA 2									
Ī		TSP/SPM Filter			40 CFR Part 50 (2								
	Other:												
	Name of Sam			Signature of Sampler:									
	Sample #	on		Volume/Area				Date/Time Sampled					
	4-22-15-001	· · · · · · · · · · · · · · · · · · ·			d wash)		1 sq ft n/a				4-22-15 1:15		
	4-22-15-002								4-22-15 1:15				
	Client Sample #'s 001 - 00 Relinquished (Client Received (Lab):			Date:				Total # of Sa		amples	s: 2		
						4/	22//5 Tim		Time:	9 4 5			
						4/2			Time:		2:50pm	л —	
	Comments:												

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

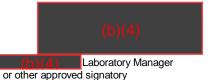
Page 1 of 1 pages

Reg. Feder

Page 1 Of 1



Client Sample Description	n Lab ID Collected	Analyzed	Area Sampled	Lead 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	22-1909	
Company : Ja	acobs (Stennis Space Ce	EMSL-Bill to: Same Different							
Street: Building 1100 Suite 213G				Third Party Billing requires written authorization from third party					
		Province: MS	T	al Code: 39529	mes written		Country: United		
Report To (Na			Telephor			I			
Email Addres	s (b)(4)		Fax #: 2	28-688-6456		F	Purchase Order		
Project Name	/Number: 6559-2015		Please P	rovide Results:	Fax	🗸 Еп	nail		
U.S. State Sar	nples Taken: MS			les: 🗌 Commerc		ole 🗌	Residential/Tax	Exempt	
	A 3	urnaround Time (TA							
3 Hour (Hour 48 Hour			6 Hour		1 Week 🗌	2 Week	
	Matrix	Method	SLS TEITIS a	Instrume			orting Limit	Check	
Chips 🗌 % t	by wt. mg/cm² ppm	SW846-7000	 B	Flame Atomic Ab			0.01%		
Air		NIOSH 7082		Flame Atomic Ab			4 µg/filter		
1 ~ "		NIOSH 7105		Graphite Furna			03 µg/filter		
		NIOSH 7300 mod		ICP-AES/ICP			.5 µg/filter	└──;	
Wipe*	ASTM 🗸	SW846-7000	з	Flame Atomic Ab			0 μg/wipe		
*if no box is	non ASTM	SW846-6010B c	or C	ICP-AES		1 0 µg/wipe			
TCLP	wipe la assumed	SW846-1311/7000B/S	SM 3111B	Flame Atomic Absorption		0.4 mg/L (ppm)			
		SW846-1131/SW846-6	010B or C	ICP-AES			mg/L (ppm)		
Soil		SW846-7000	В	Flame Atomic Ab	sorption	40 r	mg/kg (ppm)		
		SW846-6010B c	or C	ICP-AES		2 mg/kg (ppm)			
Wastewater	Unpreserved	SM3111B/SW846-7000B		Flame Atomic Ab	sorption		mg/L (ppm)		
	ith HNO ₃ pH < 2	EPA 200.9 EPA 200 7		Graphite Furnace AA ICP-AES		0.003 mg/L (ppm) 0.020 mg/L (ppm)		┝──┝━┥──	
Drinking Wa	ter Unpreserved	EPA 200 7 EPA 200 9		Graphite Furnace AA		0.020 mg/L (ppm)		<u> </u>	
	ith HNO ₃ pH < 2	EPA 200.8		ICP-MS		0.001 mg/L (ppm)			
TSP/SPM Fil		40 CFR Part 50 (2	2013)	ICP-MS			1 2 µg/filter		
Other:					_	-			
Name of San	npler: (b)(4)		Signa	ture of Sample		<u>(b</u>	// ·/		
Sample #	Locati			Volume/Are	a		Date/Time S	Sampled	
B1-1	Level 20 outside SV	V corner	1 sq ft				4/23/2015	i	
B1-2	Level 20 outside E	side	1 sq ft				4/23/2015	i	
B1-3 Level 20 outside SE side			1 sq ft				4/23/2015	i	
B1-4 Level 20 outside North side			1 sq ft				4/23/2015	;	
B1-5 Blank			N/A				4/23/2015)	
Client Samp	le #'s 15			Tota	al # of Sa	mple	s: 5		
Relinquished	d (Client):	Date:	4/2	23/14	Time:		6:000	NM .	
Received (Lat	(b)	(4) Date:	41	24/15	Time:		10:10a1	×	
Comments:			,						
1									

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

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Reg. Leder

Page 1 Of 1



Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
B1-1	251502612-000	01 4/23/2015	4/24/2015	144 in ²	170 µg/ft²
	Site: Level 20 c	outside SW co	rner		
B1-2	251502612-000	02 4/23/2015	4/24/2015	144 in²	210 µg/ft ²
	Site: Level 20 c	outside E side			
B1-3	251502612-000	03 4/23/2015	4/24/2015	144 in²	300 µg/ft ²
	Site: Level 20 c	outside SE side	e		
B1-4	251502612-000	04 4/23/2015	4/24/2015	144 in²	430 µg/ft²
	Site: Level 20 c	outside N side			
B1-5	251502612-000	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

							00-1000
	Company : Jacobs FOSC Group (JCW	/ S50)	EMSL-Bill to: Same Different				
	Street; Building 1100 Suite 213G	·	Th	ird Party Billing regu	iires writtei	n authonzation from third p	artv
		rovince: MS		I Code: 39529		Country: United	
	Report To (Name): (b)(4)		Telephon	e #: (b)(4	.)		
	Email Address: (b)(4)		Fax #: 22	28-688-6456		Purchase Order	(b)(4)
	Project Name/Number: 6563-2015		Please P	rovide Results:	Fax	Email	
	U.S. State Samples Taken: MS		CT Samp	les: 🗌 Commerc	 cial/Taxal	ole 🗌 Residential/Tax	Exempt
		rnaround Time (TA					
Æ	🖹 3 Hour 🗌 6 Hour 🗌 24				6 Hour		2 Week
Ċ		d in accordance with EMS	L's Terms a			ice Guide	Chack
	Matrix	Method		Instrume	-	Reporting Limit	Check
	Chips % by wt. mg/cm ² ppm	SW846-7000	3	Flame Atomic At	sorption	0.01%	
	Air	NIOSH 7082		Flame Atomic At	sorption	4 µg/filter	
		NIOSH 7105		Graphite Furna		0.03 µg/filter	
	14/1	NIOSH 7300 mod	lified	ICP-AES/ICF		0.5 µg/filter	
рØ	Wipe* ASTM 🗸 non ASTM	SW846-7000	3	Flame Atomic At	sorption	10 µg/wipe	
-	*If no box is checked, non-ASTM Uige is assumed	SW846-6010B c	or C	ICP-AES		1.0 μg/wipe	
	TCLP	SW846-1311/7000B/S		/		0.4 mg/L (ppm)	
		SW846-1131/SW846-6	010B or C	ICP-AES	5	0.1 mg/L (ppm)	
1	Soil	SW846-7000	3	Flame Atomic Absorption		40 mg/kg (ppm)	
		SW846-6010B c	r C ICP-AES		2 mg/kg (ppm)		
	Wastewater Unpreserved	SM3111B/SW846-	7000B			0.4 mg/L (ppm)	
	Preserved with HNO ₃ pH < 2	EPA 200.9 EPA 200.7	Graphite Furnace AA ICP-AES		0.003 mg/L (ppm)	┝─┝╤┥──	
	Drinking Water Unpreserved	EPA 200.7 EPA 200.9		Graphite Furnace AA		0.020 mg/L (ppm) 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 (b)(4)		Signa	ture of Sample			
	Sample # Location			Volume/Are	ea	Date/Time S	Sampled
	4-23-15-001 Level 19 Floor	•	1 sq ft			4-23-15	
		d rail	1 sq ft			4-23-15	
		+ Fixture	1 sq ft			4-23-15	
	4-23-15-004 Level 18 Stuir	<u>ک</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) (b)(4)	Date:	4/	23/15	Time:	q 00°.2	~
	Received (Lab):	Date:	Hjá	4/15	Time:	10:10an	K
	Comments:		•				
]							

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

Page 1 of 2 pages

Rg. Fely

Page 1 Of 2



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 Light Fixture Level 18 Top of Fuse Box	1 sq ft	4-23-15
	Level 18 guard rail	1 sq ft	4 -23-15
4-23-15-009		1 sq ft	4-23-15
4-23-15-010		1 sq ft	4-23-15
42315-011	Level 17 Guard roil	1 sq ft	4-23-15
42315-012	Level 17 Cable tray	1 sq ft	4-23-15
42315-013	Level 17 Cable tray Level 17 Light Fixture	1 sq ft	4-23-15
42315-014	Blank	159# N/A	4-23-15
42315-015	Blank Blank	tott NIA	4-23-15
42315-016			
	·		
·			
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)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-23-15-001	251502608-0001	4/23/2015	4/24/2015	144 in ²	49 µg/ft²
	Site: Level 19 Flo	oor			
4-23-15-002	251502608-0002	2 4/23/2015	4/24/2015	144 in ²	150 μg/ft²
	Site: Level 19 gu	ard rail			
4-23-15-003	251502608-0003	3 4/23/2015	4/24/2015	144 in ²	240 μg/ft ²
	Site: Level 19 Lig	ght Fixture			
4-23-15-004	251502608-0004	4/23/2015	4/24/2015	144 in ²	210 μg/ft ²
	Site: Level 18 St	airs			
4-23-15-005	251502608-0005	5 4/23/2015	4/24/2015	144 in ²	77 µg/ft²
	Site: Level 18 St	air rail			
4-23-15-006	251502608-0006	6 4/23/2015	4/24/2015	144 in ²	96 µg/ft²
	Site: Level 18 Lig	ght Fixture			
4-23-15-007	251502608-0007	4/23/2015	4/24/2015	144 in ²	1100 μg/ft²
	Site: Level 18 To	p of Fuse Bo)X		
4-23-15-008	251502608-0008	3 4/23/2015	4/24/2015	144 in ²	100 µg/ft²
	Site: Level 18 gu	ard rail			
4-23-15-009	251502608-0009	9 4/23/2015	4/24/2015	144 in ²	780 μg/ft²
	Site: Level 17 St	airs			
4-23-15-010	251502608-0010	0 4/23/2015	4/24/2015	144 in ²	110 µg/ft²
	Site: Level 17 St	air rail			
42315-011	251502608-0011	4/23/2015	4/24/2015	144 in ²	74 μg/ft²
	Site: Level 17 G	uard rail			
42315-012	251502608-0012	2 4/23/2015	4/24/2015	144 in ²	460 µg/ft ²
	Site: Level 17 Ca	able tray			
42315-013	251502608-0013	8 4/23/2015	4/24/2015	144 in ²	4600 µg/ft ²
	Site: Level 17 Lig	ght Fixture			
42315-014	251502608-0014	4/23/2015	4/24/2015	n/a	<10 µg/wipe
	Site: Blank				
42315-015	251502608-0015	5 4/23/2015	4/24/2015	n/a	<10 µg/wipe
	Site: Blank				

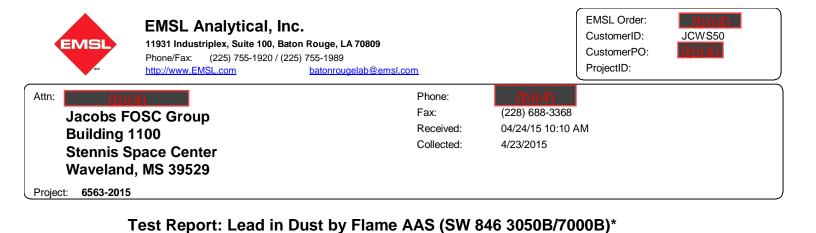


or other approved signatory

*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

EMSL
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	22-1888
	Company : Jacobs FOSC Group (JC	WS50)	EMSL-Bill to: Same Different				
	Street: Building 1100 Suite 213G		Th	urd Party Billing requires v	vritten autho	nzation from third p	arty
	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			les: 🔲 Commercial/T	axable 🗌	Residential/Tax	Exempt
\sim		urnaround Time (TA					
(H)		4 Hour 48 Hour		2 Hour 96 Hou			2 Week
	Matrix	ed in accordance with EMS Method	SLS I erriis a	Instrument		de porting Limit	Check
	Chips % by wt. mg/cm ² ppm	SW846-7000	B	Flame Atomic Absorpti		0.01%	
	Air	NIOSH 7082	,	Flame Atomic Absorpti		4 µg/filter	
		NIOSH 7105		Graphite Furnace AA		.03 µg/filter	
_		NIOSH 7300 mod		ICP-AES/ICP-MS		0.5 µg/filter	
Ľ)	Wipe* ASTM 🗸	SW846-7000	B	Flame Atomic Absorpti		10 µg/wipe	
	*if no box is checked, non-ASTM Wipe is assumed	SW846-6010B c	or C	ICP-AES	1	.0 µg/wipe	
	TCLP	SW846-1311/7000B/S		Flame Atomic Absorpti		mg/L (ppm)	
	Soil	SW846-1131/SW846-6		ICP-AES		mg/L (ppm)	
- 1	301	SW846-7000	В	C ICP-AES 000B Flame Atomic Absorption		mg/kg (ppm)	
		SW846-6010B c	or C			ng/kg (ppm)	
	Wastewater Unpreserved	SM3111B/SW846-	7000B			mg/L (ppm)	
	Preserved with HNO ₃ pH < 2	EPA 200 9 EPA 200 7	Graphite Furnace AA ICP-AES			3 mg/L (ppm) 0 mg/L (ppm)	
	Drinking Water Unpreserved	EPA 200 9		Graphite Furnace AA		03 mg/L (ppm)	
	Preserved with HNO ₃ pH < 2	EPA 200 8		ICP-MS		01 mg/L (ppm)	
	TSP/SPM Filter	40 CFR Part 50 (2	2013)	ICP-MS	^	1.2 µg/filter	
	Other:				(h	$\lambda(A)$	
	Name of Sampler: (b)(4)	lan	Signa	ture of Sampler	u)	(+)	a ma m l a d
	Sample # Locat 4-24-15-001 Level 12, Stair		1 sq ft	Volume/Area	<u> </u>	Date/Time S	sampieo
	· · · · · · · · · · · · · · · · · · ·	's (resample)	•	<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 DOI - DO	2.		Total # c	of Sample	 s: ∣ 3	
	Relinguished (Client):	Date:	4/2	ب الم	me:	3.06	
	Received (Lab): (b)(4/		ne:	8:40 a.	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 Descriptio	n Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
4-24-15-001	251502638-000	01 4/24/2015	4/28/2015	144 in ²	610 µg/ft ²
	Site: Level 12, S	Stairs (resamp	ole)		
4-24-15-002	251502638-000	2 4/24/2015	4/28/2015	144 in ²	420 µg/ft²
	Site: Level 13, S	Stairs (resamp	ole)		
4-24-15-003	251502638-000	3 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 FOSC Group (JCWS50)						EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**				
	Street: Building 1100			· · · ·		Third Party Billing requires written authorization from third party					
	City:Stennis Space (Center s	tate/P	rovince: MS			Zip/Postal Code: 39529			Country: United States	
	Report To (Name)	(b)(4)				Telephon	e #: (b)((4)			
	Email Address:					Fax #: 22	28-688-6456		Pu	rchase Order	(b)(4)
	Project Name/Numbe	er: 6563-201	5			Please Pi	rovide Results	s: 🗌 Fax	🖌 Emai	i l	
	U.S. State Samples T	aken: MS				CT Samp	les: 🗌 Comm	ercial/Taxat	ole 🗌 Re	esidential/Tax	Exempt
\sim		· · · · · · · · · · · · · · · · · · ·					s* - Please C	Check			
(16	🔳 3 Hour 🛛	6 Hour	_		48 Hour] 96 Hour		Neek 🗌	2 Week
C	Matr	· · · · · ·	omplete		ethod	sL's Terms ai	nd Conditions loo Instru			rting Limit	Check
	Chips 3% by wt.		ppm		846-7000		Flame Atomic Absorption			0.01%	
	/ _		ppin								
	Air				OSH 7082		Flame Atomic			ug/filter	
	1				DSH 7105		Graphite Fu			B µg/filter	
\sim) 4 /:+			NIOSH	7300 moc	lified	ICP-AES/	ICP-MS		µg/filter	
(Y)	Wipe*		4	SW	846-7000	3	Flame Atomic	Absorption	10	µg/wipe	
$\overline{}$	*if no box is checked Wige	d, non-ASTMLL e is assumed	_	SW84	6-6010B c	or C	ICP-4	AES .	1.0	µg/wipe	
	TCLP			SW846-1311/7000B/SM 3		SM 3111B	Flame Atomic Absorption		0 4 mg/L (ppm)		
				SW846-1131/SW846-6010B		010B or C	ICP-AES		0 1 mg/L (ppm)		
	Soil			SW846-7000B		Flame Atomic	Absorption	40 mg	/kg (ppm)		
				SW846-6010B or C		or C	ICP-4	AES	2 mg	/kg (ppm)	
	Wastewater Ung	preserved	7	SM3111B/SW846-7 EPA 200 9 EPA 200 7		Graphite Furnace AA		0.4 mg/L (ppm) 0.003 mg/L (ppm)			
	Preserved with HN(-								
							ICP-AES Graphite Furnace AA ICP-MS		0.020 mg/L (ppm) 0.003 mg/L (ppm) 0 001 mg/L (ppm)		
	Drinking Water Un Preserved with HN0		┥	<u>ا</u>	EPA 200 9 EPA 200 8						╏─╞┥─
	TSP/SPM Filter	03pii - L			Part 50 (2	2013)	ICP-			µg/filter	
	Other:										
	Name of Sampler:					Signa	ture of Sam	pler			
	Sample #	L	ocati	on			Volume//		1	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	re (re	e-sample)		1 sa ft				4-27-15	
	4-27-15-004 L18	Stairs (re-	samp	He) Electr	calpure	/1 sq ft				4-27-15	
	4-27-15-005 Blan					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:	: 2:45pm 9:15 and		
	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	1 4/27/2015	4/28/2015	144 in ²	1000 µg/ft²
	Site: L17 Stairs	(re-sample)			
4-27-15-002	251502656-0002	2 4/27/2015	4/28/2015	144 in ²	270 μg/ft²
	Site: L17 Cable	Tray (re-sam	ole)		
4-27-15-003	251502656-000	3 4/27/2015	4/28/2015	144 in ²	130 µg/ft²
	Site: L17 Light F	ixture (re-san	nple)		
4-27-15-004	251502656-0004	4 4/27/2015	4/28/2015	144 in ²	550 μg/ft²
	Site: L18 Electri	cal panel			
4-27-15-005	251502656-000	5 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 : Ja	EMSL-Bill to: 🖌 Same 🚺 Different								
	g 1100 Suite 213								
	Space Center	,	rovince: MS	Third Party Billing requires written authorization from third party Zip/Postal Code: 39529 Country: United States					
		J Stater						oundy. orneo	
Report To (Na Email Addres		(4)		Telephor Fax #: 2	<u>1e #:</u> (D) 28-688-6456	9)(4) 6	P	urchase Order	(b)(4)
	/Number: 6563-2	015			rovide Resul		√ Em		(~)(·)
	nples Taken: MS	010						Residential/Tax	Exempt
U.S. State Sa	npies raken: wo	т	Irnaround Time (TA					vesidentian raz	<u> Lvempt</u>
3 Hour	6 Hour		Hour 48 Hour			96 Hour		Week	2 Week
● <u>3 Hour</u>			d in accordance with EMS				_		
	Matrix		Method			ument		orting Limit	Check
Chips 🦳 %	oy wtmg/cm² [ppm	SW846-70008	В	Flame Atom	nic Absorption		0 01%	
Air			NIOSH 7082	!	Flame Atom	nic Absorption	4	µg/filter	
1			NIOSH 7105		Graphite f	Furnace AA)3 µg/filter	
			NIOSH 7300 mod	dified	ICP-AE	S/ICP-MS	0	5 µg/filter	
Wipe*	ASTM non ASTM	\Box	SW846-7000	В	Flame Atom	nic Absorption	10 µg/wipe		
*if no box is checked, non-ASTM			SW846-6010B c	or C	ICP-AES		1	0 µg/wipe	
TCLP			SW846-1311/7000B/SM 3111B		Flame Atomic Absorption			mg/L (ppm)	
			SW846-1131/SW846-6	010B or C	ICP	-AES	0.1	mg/L (ppm)	
Soil			SW846-7000	В	Flame Atom	nic Absorption	40 n	ng/kg (ppm)	
			SW846-6010B c	or C	ICP	P-AES	2 m	ig/kg (ppm)	
Wastewater Unpreserved		SM3111B/SW846-	7000B	Flame Atom	nic Absorption		mg/L (ppm)		
	Unpreserved vith HNO ₃ pH < 2	H	EPA 200 9		Graphite Furnace AA			3 mg/L (ppm)	┠╴╞╡
	- •		EPA 200 7			P-AES) mg/L (ppm)	┟┈╞╡
	ter Unpreserved		EPA 200 9 EPA 200.8		<u> </u>	Furnace AA P-MS		3 mg/L (ppm) 1 mg/L (ppm)	<u></u> } ⊢⊢┥
TSP/SPM Fi	/ith HNO₃pH < 2		40 CFR Part 50 (2013)			P-MS		2 µg/filter	\vdash
Other:				2013)		-1110	<u> ''</u>	z pgrinter	$\vdash \dashv$
			I	0	L				
Name of Sa	mpler: <u>(D)(4)</u> T	Locati		i Signa I	ature of San Volume		T	Date/Time	Sampled
Sample # 4-29-15-006	L9 South Ex		011	1 sq ft		AIVO		4-29-15	campicu
	L8.5 North E			1 sq ft				4-29-15	Omit
	l			•				4-29-15	
4-29-15-008	Blank			n/a				4-29-15	disca
·									per
	,								(b)(
Client Samp	ole #'s					Total # of Sa	amples		
Relinguishe	d (Client):			4/2	29/15	Time:		2:25	
			o)(4)	H	30/15	Time:		9:50 a	n
Received (La				1 1 1	- 1 / / / · · ·	1 1 11115.			· • • -

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 : Jacobs FOSC Group (JCWS50)					EMSL-Bill to: Same Different					
		g 1100 Suite 213		,]	Third Party Billing requires written authorization from third party					
	City:Stennis S		T	rovince: MS			I Code: 395			ntry: United	
	Report To (Nai					Telephone #: (b)(4)					
	Email Address		(4)				28-688-6456	3	Purc	hase Order:	(b)(4)
		Number: 6563-20	015				ovide Resul		Email		
	U.S. State Sam				mercial/Taxab		idential/Tax	Exempt			
_			Tu	Irnaround T	ime (TA						
P	🔳 3 Hour	🗌 6 Hour] 48 Hour			🗌 96 Hour	🗌 1 We	ek 🗌	2 Week
(Tar			s complete			L's Terms ai		located in the Pri			Oheelu
		Matrix			Nethod		Instr	ument		ng Limit	Check
	Chips [% by	y wtmg/cm² [ppm	SW	/846-7000E	3	Flame Atom	nic Absorption	0.0)1%	
	Air			N	OSH 7082		Flame Ator	nic Absorption	4 µg	/filter	
					OSH 7105			Furnace AA		ug/filter	
\sim				NIOSH	7300 mod	lified	ICP-AE	S/ICP-MS	· · · ·	g/filter	┍┈┝┛
(HD)	Wipe*	ASTM non ASTM	\square	SW	/846-7000E	3	Flame Atom	nic Absorption	10 µ	g/wipe	
	*if no box is	SW84	6-6010B o	or C	ICP-AES		1.0 µ	g/wipe			
	TCLP	Wipe is assumed		SW846-131	M 3111B	Flame Atomic Absorption		0.4 mg/L (ppm)			
				SW846-1131	1/SW846-6	010B or C	ICP	-AES	0 1 mg	/L (ppm)	
	Soil			SM	/846-7000E	3	Flame Atom	nic Absorption	40 mg/	kg (ppm)	
				SW84	46-6010B o	or C	ICP	-AES	2 mg/k	g (ppm)	
	Wastewater	Unpreserved		SM3111	B/SW846-7	7000B		nic Absorption	0 4 mg/L (ppm)		
		th HNO ₃ pH < 2	Ы	EPA 200.9		Graphite Fui		Furnace AA		g/L (ppm)	╞┈╞╡─
		ter Unpreserved			PA 200 7			Furnace AA	0.020 mg/L (ppm) 0.003 mg/L (ppm)		
		th HNO ₃ pH < 2			PA 200 9			P-MS	0 001 mg/L (ppm)		
	TSP/SPM Fill			40 CFF	40 CFR Part 50 (2013) ICP-MS			P-MS		g/filter	
	Other:										
	Name of Sam	pler: (b)(4)				Signa	ture of Sar	npler:			
	Sample #		Locati	on			Volume	/Area		ate/Time S	Sampled
•	4-29-15-001	L12 Stairs (r	e-samp	ole)		1 sq ft				4-29-15	
	4-29-15-002	002 L13 Stairs (re-sample)				1 sq ft				4-29-15	
	4-29-15-003					1 sq ft		· · · · · · · · · · · · · · · · · · ·		4-29-15	
	4-29-15-004					1 sq ft				4-29-15	
	4-29-15-005 Blank				n/a				4-29-15		
	Client Samp		- 00)5				Total # of Sa	amples:	5	
	Relinquished				Date:	+12	1 (5	Time:		2:25	
	Received (Lab);			Date:	41.	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	Lead Concentration
4-29-15-001	251502727-0001	4/29/2015	4/30/2015	144 in ²	430 μg/ft ²
	Site: L12 Stairs (re-sample)			
4-29-15-002	251502727-0002	4/29/2015	4/30/2015	144 in ²	330 µg/ft²
	Site: L13 Stairs (re-sample)			
4-29-15-003	251502727-0003	4/29/2015	4/30/2015	144 in ²	300 µg/ft²
	Site: L17 Stairs (re-sample)			
4-29-15-004	251502727-0004	4/29/2015	4/30/2015	144 in ²	22 µg/ft ²
	Site: L18 Electric	al Box (re-sa	ample)		
4-29-15-005	251502727-0005	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 Collected	Analyzed	Area Sampled	Concentration
5-4-15-01	251502850-0001 5/4/2015	5/5/2015	144 in ²	300 µg/ft²
	Site: B2, Level 8.5 N, Floor			
5-4-15-02	251502850-0002 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 Industriplex Suite 100 BATEN Rouge LA EMSLANALYTICAL, INC. 7080 200 ROLFE 130 NORTH CINNAMINSON, NJ 08077 RHONE (800) 220-3075 FAX (856) 720-5074
FAX: (856) 786-5974

Company: JACO'S Technolog	EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**						
		Third Party Billing requires written authorization from third party					
Street: Bost Hing 1100 K	Province: M S	Zip/Postal Code: 29529 Country: 145					
Report To (Name): (b)(4)		Telephone #:					
Email Address (b)(1)	Fax #:			Pur	chase Order	(b)(4)
Project Name/Number: 5,2 L-2.4	-0		rovide Results:	Fax	D'Email		
U.S. State Samples Taken: MS	í U -		les: Commerc				Evennt
	Irnaround Time (TA						Exempt
	Hour 48 Hou			6 Hour	1 W	eek 🔲	2 Week
	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	В	Flame Atomic Ab	sorption	0.	01%	
Air	NIOSH 7082		Flame Atomic Ab	sorption	4 µ	g/filter	
	NIOSH 7105		Graphite Furna			µg/filter	
	NIOSH 7300 mod	dified	ICP-AES/ICP	-MS	0.5	ug/filter	
Wipe* 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		Flame Atomic Ab	·	0.4 mg/L (ppm)		
Soil	SW846-1131/SW846-6	010B or C	DB or C ICP-AES			0.1 mg/L (ppm)	
301	SW846-7000	B			40 mg/	kg (ppm)	
· · · · · · · · · · · · · · · · · · ·	SW846-6010B c	or C	ICP-AES		2 mg/l	kg (ppm)	
Wastewater Unpreserved	SM3111B/SW846-7000B		Flame Atomic Ab	· · · · ·		/L (ppm)	
Wastewater Unpreserved □ Preserved with HNO ₃ pH < 2 □	EPA 200.9 EPA 200.7		Graphite Furnace AA ICP-AES			ig/L (ppm)	┝┥_┃
Drinking Water Unpreserved	EPA 200.9		Graphite Furna	ce AA		ig/L (ppm) ig/L (ppm)	
Preserved with HNO ₃ pH < 2 \Box	EPA 200.8		ICP-MS			ig/L (ppm)	╌╌╞╧╡╌╌┤
TSP/SPM Filter	40 CFR Part 50 (2	2013)	ICP-MS			g/filter	
Other:						·	
Name of Sampler: (b)(4	.)	Signa	ture of Sample	r:			
Sample # Location	on		Volume/Are	a		Jate/ I ime S	ampled
5415-01 BZ. Level 8.5	N FLOOR		144 /12			5/4/18	-
5-4-15-02 RIANK	l					CHI	
DUARIA			V IA		<u> </u>	<u>5/4//</u>	Š
				·		· · ·	
					· • • •	-	
Client Sample #'s			Tota	l # of Sa	mples:	<u> </u>	
	b)(4) Date:	5/4	Ave	Time:		⊥	
			//3			·	
Received (Lab):	Date:			Time:		·	
				·· · -			

12

Page 1 of ____ pages

	ANALYTIC	AR Status 504767
(ALS)	RESULTS	Status Required - ADDITIONAL CHARGE
	CONTACT AL	S LABORATORY GROUP PRIOR TO SENDING SAMPLES
Date 4/16/15 Purchase Order No. 29242 Company Name Jacobs (Stennis Space Address Building 1100, Suite 213G	26	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

Laboratory Use Only	Client Sample Number	Media Type	Sample Volume (Liters)	ANALYSES REQUERTED
0	001	MCE	395	ANALYSES REQUESTED - Use Method Number if Known
Ok	002	MCE	395	NIOSH 7300 mod. Lead, Cadmium and Chromium NIOSH 7300 mod. Lead, Cadmium and Chromium
03	003	Bulk	N/A	
04	004	MCE		SW601B and SW7199 Lead, Cadmium, Chromium and Hexavalent Chromiu
				NIOSH 7300 mod. Leed, Czdnium, 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)(4)	2912115
(Signature)	Date / Time	R	• 10	Date / Time
ALS ENVIRONMENTAL 4388 Glendale Milford Ro	ad / Cincinnati,	STD / PRTY MAIL UPS CLIENT DROP BOX CFEDEX ALS COURIER OTHER:	COOLER WETICE ICE CUSTODY SEALS: NO	



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

1504707-01001Air4/10/2015 09:004/21/2015 11:101504707-02002Air4/10/2015 09:004/21/2015 11:10	lold
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	
1504707-04004Air4/10/2015 09:004/21/2015 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. Stennis Space Center		Work Orde	er: (b)(4)	
i iojeci.	Stellins Space Center			Analytical	Results
Lab ID:	1504707-01A		С	ollection Date: 4/10/2015	0:00:00 AM
Client Sample ID	: 001			Matrix: AIR	
Analyses					
METALS BY NIOS	SH 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 Ord Analytical				
Lab ID: Client Sample	1504707-04A e ID: 004		Collection Date: 4/10/2015 9:00:00 AM Matrix: AIR					
Analyses								
METALS BY N	NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 0	Analyst: SRL			
Date Analyzed:	: 4/22/2015 16:48	µg/sample	Reporting Limit 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: H	PLC3		Metho	d: SW7199						
MBLK Client ID:	Sample ID:	MBLK-28009-2800		E HPLC3	_150422A		Jnits: mg/Kg qNo: 10423		Analysis Prep Date: 4/21		2/2015 11:2 DF: 1	23 AM
				501	0.514.14	SPK Ref Value		Control Limit	RPD Ref Value		RPD Limit	Qual
Analyte			Result	PQL	SPK Val	Value	%REC	Linit	Value	%RPD		Qual
,			U	0.25								
LCS Client ID:	Sample ID:	LCS-28009-28009		E HPLC3	_150422A		Jnits: mg/Kg qNo: 10423	•	Analysis Prep Date: 4/21		2/2015 10:: 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): HPLC3	_150422A		Jnits: mg/Kg qNo: 10423		Analysis Prep Date: 4/21		2/2015 11: 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 II	E HPLC3	_150422A		Jnits: mg/Kg qNo: 10423		Analysis Prep Date: 4/21		2/2015 03:: 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 MSE		E HPLC3	_150422A		Jnits: mg/Kg qNo: 10423		Analysis Prep Date: 4/21		2/2015 04:0 DF: 1)7 PM
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 DUF		E HPLC3	_150422A		Jnits: mg/Kg qNo: 10423		Analysis Prep Date: 4/21		2/2015 11:4 DF: 1	19 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		
DUP Client ID:	Sample ID:	1504650-01A DUF		E HPLC3	_150422A		Jnits: mg/Kg qNo: 10423		Analysis Prep Date: 4/21		2/2015 12: 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

	04651-01A DUP				nits: mg/Kg				2/2015 12:4	41 PM
Client ID:	Run IL): HPLC3	_150422A	Seq	No: 10423	59	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, Hexavalent	U	2.4	0	0	0		0.396	0		
DUP Sample ID: 150	04651-02A DUP			Ur	nits: mg/Kg	1	Analysis I	Date: 4/22	2/2015 01:	32 PM
Client ID:	Run II	D: HPLC3	_150422A	Seql	No: 10423	61	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, Hexavalent	ND	2.6	0	0	0		2.062	0		
DUP Sample ID: 150	04651-03A DUP			Ur	nits: mg/Kg	I	Analysis I	Date: 4/22	2/2015 01:	58 PM
Client ID:	Run II): HPLC3	_150422A	Seql	No: 10423	63	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, Hexavalent	ND	2.5	0	0	0		0.7937	0		
DUP Sample ID: 150)4652-01A DUP			Ur	nits: mg/Kg	I	Analysis I	Date: 4/22	2/2015 02::	24 PM
Client ID:	Run II	D: HPLC3	_150422A	Seql	No: 10423	65	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, Hexavalent	U	2.2	0	0	0		0.3873	0		
DUP Sample ID: 150)4652-02A DUP			Ur	nits: mg/Kg	l	•	Date: 4/22	2/2015 02:	50 PM
Client ID:	Run II	: HPLC3	_150422A		No: 10423	67	Prep Date: 4/21	/2015	DF: 1	
	Run II Result	D: HPLC3	_ 150422A SPK Val			67 Control Limit	Prep Date: 4/21/ RPD Ref Value	/ 2015 %RPD	DF: 1 RPD Limit	Qual
				SeqI SPK Ref	No: 10423 (Control	RPD Ref		RPD	Qual
Analyte	Result 276.8	PQL	SPK Val	Seql SPK Ref Value 0	No: 10423 %REC	Control Limit	RPD Ref Value 275.8	%RPD 0.358	RPD Limit	
Analyte Chromium, Hexavalent	Result 276.8 04707-03A DUP	PQL 2.5	SPK Val	SPK Ref Value 0 Ur	No: 10423 %REC 0	Control Limit	RPD Ref Value 275.8	%RPD 0.358 Date: 4/22	RPD	
Analyte Chromium, Hexavalent DUP Sample ID: 150 Client ID: 003	Result 276.8 04707-03A DUP	PQL 2.5	SPK Val	SPK Ref Value 0 Ur	No: 10423 <u>%REC</u> 0 hits: mg/Kg	Control Limit	RPD Ref Value 275.8 Analysis I	%RPD 0.358 Date: 4/22	RPD Limit	
Analyte Chromium, Hexavalent DUP Sample ID: 150	Result 276.8 04707-03A DUP Run II	PQL 2.5 D: HPLC3	SPK Val 0 _150422A	Seq SPK Ref Value 0 Ur Seq SPK Ref	No: 10423 %REC 0 hits: mg/Kg No: 10423	Control Limit 59 Control	RPD Ref Value 275.8 Analysis I Prep Date: 4/21, RPD Ref	%RPD 0.358 Date: 4/22 /2015	RPD Limit 2/2015 03: DF: 1 RPD	15 PM

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-28003-28003			Units: µg/sample			Analysis	Date: 4/22	2/2015 03:	17 PM
Client ID:	Run	ID: ICP1_	150422A	SeqNo: 1043109			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	U	0.10)							
Chromium	ND	1.0)							
Lead	U	1.0)							
LCS	Sample ID: LCS-28003-28003		Units: µg/sample			Analysis Date: 4/22/2015 03:20 PM				
Client ID:	Run ID: ICP1_150422A			SeqNo: 1043110 Prep			Prep Date: 4/22	Date: 4/22/2015 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-28003-28003			U	Inits: µg/sa	nple	Analysis	Date: 4/22	/2015 03::	23 PM
Client ID:	Run	ID: ICP1_	150422A	Sec	qNo: 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 in	ig samples were analyzed in this batch:		1504707-01A	1504	1707-02A	15	04707-04A			

ALS Environmental

Client: Project: WorkOrder:	Jacobs Technology, Inc. Stennis Space Center (b)(4) QUALIFIERS, ACRONYMS, UNITS								
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								
0	Sample amount is > 4 times amount spiked								
Р	Dual Column results percent difference $> 40\%$								
R	PD 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/sampl	e								

mg/Kg

ALS Environmental

Sample Receipt Checklist

Client Name: JACOBS-MISSISSIPPI		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

-													
Con	npany : ^{Ja}	icobs (Stennis S	Space Cer	nter)		EMSL-Bill to: [] Same [] Different If Bill to is Different note instructions in Comments**							
Stre	et: Buildin	g 1100 Suite 21	3G			т	urd Party B	illing requi	res writtei	n authori	ization from thirc	l party	
City	:Stennis S	Space Center	State/P	Province: M	IS	Zip/Postal Code: 39529 Country: United States							
Rep	ort To (Na	me): (b)(4)				Telephone #: (b)(4)							
Ema	ail Address	3 (b)	(4)			Fax #: Purchase Order (b)(4)							
Proj	ect Name/	Number:				Please Provide Results: 🔲 Fax 📝 Email							
U.S.	State San	n <mark>ples Tak</mark> en: MS	3			CT Samp	oles: 🗌 C	ommerci	ial/Taxal	ble 🗌	Residential/T	ax Exempt	
			744	urnaround	l Time (TA			ase Che	ck				
] 3 Hour				48 Hour		2 Hour 96 Hour nd Conditions located in the Price					2 Week	
		*Analys Matrix	as complete	d in accordar I	nce with EMS Method	SL's Terms a	-	ons located strumer			ce Guide Reporting Limit Check		
Chi	ne [/]e/ h	y wt. mg/cm ²								l veh	-	_	
	ps [v] % b	y wtmg/cm-	ppm		SW846-7000	B	Flame A	Atomic Abs	orption	ļ	0.01%		
Air					NIOSH 7082	2	Flame A	Atomic Abs	orption		4 µg/filter		
					NIOSH 7105		Graphite Furnace AA				03 µg/filter		
	<u>.</u>			NIOS	NIOSH 7300 modified			ICP-AES/ICP-MS			.5 µg/filter		
Wip)e^	ASTM non ASTM		5	SW846-7000B			Flame Atomic Absorption			0 µg/wipe		
	*if no box is	checked, non-ASTN Wipe is assumed	، لـــا ،	sw	or C	ICP-AES			1.0 µg/wipe				
TCL	-P			SW846-1	SW846-1311/7000B/SM 3111			Atomic Abs	orption	0.4 mg/L (ppm)			
					131/SW846-6	010B or C		ICP-AES		0.1	mg/L (ppm)		
Soil	Soil			5	SW846-7000B			tomic Abs	orption	40 r	mg/kg (ppm)		
				SW	/846-6010B c	or C		ICP-AES		2 m	ng/kg (ppm)		
Was	stewater	Unpreserved		SM31*	11B/SW846-	7000B			0.4 mg/L (ppm)				
		th HNO ₃ pH < 2			EPA 200.9		· · · ·	hite Furnac	æ AA	0.003 mg/L (ppm) 0.020 mg/L (ppm)			
Drir	king Mat	ter Unpreserved			EPA 200.7 EPA 200.9			ICP-AES Graphite Furnace AA			0.003 mg/L (ppm)		
		th HNO ₃ pH < 2			EPA 200.8	ICP-MS			0.003 mg/L (ppm)				
	P/SPM File			40 CI	FR Part 50 (2	2013)				1 2 µg/filter			
Oth	er:												
Nan	ne of San	npler: (b)(4)			Signa	ture of \$	Sampler	;				
	mple #		Locati	on				me/Area			Date/Time	Sampled	
050	615-002	Crane near	spool								5/6/15		
			•								0,0,10		
Clie	ent Sampl	e #'s				1		Tota	l # of Sa	amples	s: 1		
Reli	inquished	I (Client)			ate:	5/7	7/15		Time:		2:30		
Rec	eived (Lab	<i>.</i>):			ate:	5/	08/13	-	Time:		10:20	an	
	nments:												
Com	nments:						•						

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

Page 1 of 1 pages

fig. Lehy

Page 1 Of 1



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

				Lead
Client Sample Description	Lab ID	Collected	Analyzed	Concentration
050615-002	251502984-0001	5/6/2015	5/11/2015	7.7 % wt
	Site: Crane near	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 in ²	46 µg/ft ²
	Site: Supply St	orage 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 gelab@emsl.com	EMSL Order: CustomerID: CustomerPO: ProjectID:	TECH55
Attn: (b)(4 Technica PO Box 1 Marrero, I	·	Phone: Fax: Received: Collected:	(504) 348-3098 (504) 348-3043 07/15/15 10:45 AM 7/14/2015	

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

Client Sample Descripti	on Lab ID Collected	Analyzed	Volume	Lead Concentration
001	251504602-0001 7/14/2015	7/16/2015	824.6 L	<4.9 µg/m³
	Site: Level 16 North			
002	251504602-0002 7/14/2015	7/16/2015	887.25 L	<4.5 μg/m³
	Site: Level 10.5 South			



*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		.com		EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55
Attn: (b)(4 Technical PO Box 1 Marrero, I		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 in²	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 Rouge, LA 70809							
PHONE:	(225) 755-1920						
FAX:	(225) 755-1989						

_ _ _ _ _

				EMSL .Bill		ame 🔽 Different		
	Jacobs (Stennis Space C	EMSL-Bill to: Same / Different If Bill to is Different note instructions in Comments**						
	ling 1100 Suite 213G		Third Party Billing requires written authorization from third party					
City Stenni	City Stennis Space Center State/Province: MS			l Code. 39529		Country: United	d States	
Report To (Name) (b)(4)		Telephor	ne # (b)(4)				
Email Addr	eser (b)(4)		Fax #:			Purchase Order	(b)(4)	
	ne/Number, 6618-2015		Please P	rovide Results.	Fax	🖌 Email		
US State S	amples Taken: MS					ble 🔲 Residential/Tax	k Exempt	
		furnaround Time (TA						
🗌 3 Hour	'Analysis comple	4 Hour 48 Hou led in accordance with EM			in the Pr] 2 Week	
	Matrix	Method		Instrumer		Reporting Limit	Check	
Chips 🗔 🤋	6 by wtmg/cm²ppm	SW846-7000	18	Flame Atomic Abs	orption	0.01%		
Air		NIOSH 7082	2	Flame Atomic Abs	orption	4 µg/filter		
		NIOSH 710	-	Graphite Furnac		0.03 µg/filter		
		NIO\$H 7300 mo	dified	ICP-AES/ICP-	MS	0.5 µg/filter	╞╘┙	
2) Wipe*	ASTM	SW846-7000	B	Flame Atomic Abs	orption	i 10 µg/wipe		
"If no bo	x is checked_non-ASTM Wipe is assumed	SW846-6010B	or C	ICP-AES		1 0 µg/wipe		
TCLP		\$W846-1311/7000B/SM 3111B		Flame Atomic Absorption		0.4 mg/L (ppm)		
E		SW846-1131/SW846-6010B or C		ICP-AES		0.1 mg/L (ppm)		
Soil		SW846-7000	B	Flame Atomic Absorption		40 mg/kg (ppm)		
		SW846-60108	or C	ICP-AES		2 mg/kg (ppm)		
Wastewate	r Unpreserved	SM3111B/SW846-				0.4 mg/L (ppm)		
	with HNO ₃ pH < 2	EPA 200.9 EPA 200 7	Graphite Furnace AA ICP-AES		0.003 mg/L (ppm) 0.020 mg/L (ppm)	╏┢┥		
	Vater Unpreserved	EPA 200.9		Graphite Furnace AA		0.003 mg/L (ppm)		
	with HNO ₃ pH < 2	EPA 200.8	1CP-M5		0.001 mg/L (ppm)	╽╶╤┥┈┉		
TSP/SPM I	Fifter	40 CFR Part 50 (2013)	ICP-MS		1.2 µg/filter	╘╌┶╡┈┈	
Other.	(h)(A)	1			-			
Name of S Sample #		tion	j Signa	ture of Sampter Volume/Area	-	Uate/Time 3	ampled	
001	9th floor outside so		1 squa	re foot	1	7/16/15	sampieu	
002	NACE Inspector A		50 Liters			7/16/15		
003	Blank (wipe)				N/A			
004	Blank (air)	N/A			7/16/15			
			1					
Client Sam	iple #' <u>s</u>			Total	# of Sa	imples 4		
Relinguist	ned (Client) (b)	(4) Date	<u> </u>	2/15	Time.	(700		
Received (L	.ab).	Date:	110	3/15	Time	10:00 0	1	
Commenta								
Killis Dehorah	Holler Building 1100 Suite 1017C Stennis :	Space Center, MS 39529, deporalities	a.holler@nasa.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)*

Client Sample Description	Lab ID	Collected	Analyzed	Volume	Lead Concentration
002	251504846-000	3	7/23/2015	50 L	<80 µg/m³
	Site: NACE Insp	pector AJ			
004	251504846-0004	4	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



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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
001	251504846-000	01	7/23/2015	144 in ²	1100 μg/ft²
	Site: 9th floor o	utside south			
003	251504846-000	02	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		Custo	merPO:	3)(4) CH55
Attn: (b)(4)		Phone:	(504) 348-3098		
Technica	I Environmental Service, Inc.	Fax:	(504) 348-3043		
PO Box 1	· · ·	Received:	07/20/15 9:50 AM		
• • • • •	LA 70073	Collected:	7/17/2015	22	

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

Client Sample Description	Lab ID Collected	i Analyzed	Volume	Lead Concentration
0010717	251504731-0001 7/17/201	5 7/20/2015	886 L	<4.5 μg/m³
	Site: Level 13 North			
0020717	251504731-0002 7/17/201	5 7/20/2015	863.85 L	<4.6 μg/m³
	Site: Level 10.5 South			



*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

hone/Fax: (225) 755-1920 / (225)	Rouge, LA 70809 755-1989	m	5 M	CustomerID: CustomerPO: ProjectID:	TECH55	
		Phone:	(504) 348-3098			
- nvironmental Service.	Inc.	Fax:	(504) 348-3043			
		Received:	07/20/15 9:50 AN	1		
		Collected:	7/17/2015			
,	Phone/Fax: (225) 755-1920 / (225) http://www.EMSL.com	http://www.EMSL.com <u>batonrougelab@ernsl.com</u> nvironmental Service, Inc. 1	Phone/Fax: (225) 755-1920 / (225) 755-1989 http://www.EMSL.com Phone: Phone: Phone: Phone: Fax: Received: Collected:	Phone/Fax: (225) 755-1920 / (225) 755-1989 http://www.EMSL.com batonrougelab@emsl.com Phone: (504) 348-3098 nvironmental Service, Inc. Fax: (504) 348-3043 1 Collected: 07/20/15 9:50 AN	Phone/Fax: (225) 755-1920 / (225) 755-1989 CustomerPO: http://www.EMSL.com batonrougelab@emsl.com ProjectID: Phone: (504) 348-3098 nvironmental Service, Inc. Fax: (504) 348-3043 Received: 07/20/15 9:50 AM Collected: 7/17/2015	Phone/Fax: (225) 755-1920 / (225) 755-1989 CustomerPO: http://www.EMSL.com batonrougelab@emsl.com ProjectID: Phone: (504) 348-3098 nvironmental Service, Inc. Fax: (504) 348-3043 Received: 07/20/15 9:50 AM Collected: 7/17/2015

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

Client Sample Description	Lab ID Collected	Analyzed	Area Sampled	Lead 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			EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55	
Attn:	(b)(4) Technical PO Box 16 Marrero, L		, 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	251504832-000	1	7/23/2015	884 L	 <4.5 µg/m³
	Site: Level 15				
002	251504832-000	2	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	Baton Rouge, LA 70809	<u>com</u>		EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55
Attn:	(b)(4) Technica PO Box 1 Marrero, I		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					

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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled		Lead Concentration	
003	251504832-000)3	7/23/2015	144 in²		21 µg/ft ²	_
	Site: Storage R	oom			<u> </u>		
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

EMSL	EMSL Analytical, Inc. 11931 Industriplex, Suite 100, Baton Rou Phone/Fax: (225) 755-1920 / (225) 755- http://www.EMSL.com bat	•		EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55
Attn: (b)(4) Technica PO Box 1 Marrero,		Phone: Fax: Received: Collected:	(504) 348-3098 (504) 348-3043 07/29/15 10:50 A 7/28/2015	М	
Project: IH 1550-11	5262				

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 South			
002	251504993-0002 7/28/2015	7/29/2015	982 L	<4.1 µg/m³
	Site: Level 14 North			



*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 Ro Phone/Fax: (225) 755-1920 / (225) 755 http://www.EMSL.com ba	•	EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55
Attn: (b)(4	()	Phone:	(504) 348-3098	
Technic	al Environmental Service, In	c. Fax:	(504) 348-3043	
PO Box		Received:	07/29/15 10:50 AM	,
), LA 70073	Collected:	7/28/2015	
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	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/ft²
	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 (µg/ft ²) 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: 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 accuratel 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/ft² RL=10.0 µg/ft² (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	<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 / Different						
Street: Building 1100 Suite 213G			Third Party Billing requires written authorization from third party					artv	
City:Stennis S	Stennis Space Center State/Province: MS			Zip/Postal Code: 39529 Country: United States					
Report To (Na	eport To (Name) (b)(4)			Telephor		0		· · · · · · · · · · · · · · · · · · ·	
Email Address	s: (b)(4)		Fax #:			P	urchase Order	(b)(4)
Project Name	Number: 6618-20)15			rovide Results:	Fax	√ Em		
	nples Taken: MS				les: Commer				Evennet
		Tu	Irnaround Time (TA	T) Option	s* - Please Che			Residential/Tax	Exempt
🗌 3 Hour	6 Hour	24				6 Hour		Week	2 Week
		complete	d in accordance with EMS	'L's Terms a	nd Conditions locate	ed in the Pr			
	Matrix		Method		Instrume	nt	Rep	orting Limit	Check
Chips 🗌 % b	y wt. mg/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			03 µg/filter	
14/2			NIOSH 7300 mod	ified	ICP-AES/ICF	'-MS	0	.5 µg/filter	
Wipe*	ASTM non ASTM	$\mathbf{\nabla}$	SW846-7000E	3	Flame Atomic Ab	sorption	1	0 µg/wipe	\Box
	s checked, non-ASTM Wipe is assumed		SW846-6010B o	r C	ICP-AES		1.	0 µg/wipe	
TCLP			SW846-1311/7000B/S		Flame Atomic Ab			mg/L (ppm)	
C all			SW846-1131/SW846-6	010B or C	ICP-AES		0.1	mg/L (ppm)	
Soil			SW846-7000E	3	Flame Atomic Absorption		40 r	ng/kg (ppm)	
			SW846-6010B or C		ICP-AES		2 mg/kg (ppm)		
Wastewater	Unpreserved		SM3111B/SW846-7000B		Flame Atomic Absorption		0.4 mg/L (ppm)		
	ith HNO ₃ pH < 2		EPA 200.9		Graphite Furnace AA		0.003 mg/L (ppm)		
Drinking Wat	ter Unpreserved		EPA 200.7 EPA 200.9		ICP-AES) mg/L (ppm)	<u> </u>
	ith HNO ₃ pH < 2		EPA 200.9 EPA 200.8		Graphite Furnace AA ICP-MS		0.003 mg/L (ppm) 0.001 mg/L (ppm)		
TSP/SPM Fill			40 CFR Part 50 (2013)		ICP-MS			2 µg/filter	
Other:			40 CH RT art 30 (2013)				1.2 µg/mei		
Name of San	npler: (b)(4)			Signa	ture of Sample	r.	L	I	
Sample #		Locatio	on	1 3	Volume/Are			Date/Time S	ampled
001	13th fl clean i	room e	ntrance				8/13/2015		
002	13th fl equipr	nent ro	om	1 squa				8/13/2015	
003	blank			-	5712765			8/13/2015	
······································									
			10						
Client Sampl	e#'s 0 <mark>€1</mark>				Tota	al # of Sa	mples	: 3	
Relinquished (Client): (b)(4)		(4) (b)(4)	8/14/1		Time:		Z: 70,0 m		
		0/1 / 1	·**						
Received (Lab Comments:):					Time:			
	ar Building 1100 Suito 1017C	Ctoppin fine	ace Center, MS 39529. deborah.a.t	D.					
	st building rive build forme	, otennis ope	ice Center, MG 39529. Geboran.a.r	ioliei@nasa.gov	,		e er	CIN/	
Controlled Document	Lead (Pb) COC R9 3/4/201	5	Page 1 of <u>1</u>	QK	55 8/18/14		AUG	1 7 2015	D
	SHOMET O'SAITIN'								



DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 08 / 18 / 15)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	97
Lab Control Std	1.400	94
Matrix Spike - LBP *	0.31	86
Matrix Spike - Wipe *	0.33	90
Matrix Spike - Soil *	0.299	97
Matrix spike - Air *	0.050	95
2.5 ppm Standard	0.25	97
10.0 ppm Standard	1.0	98
40.0 ppm Standard	4.0	98

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analysis Method:	ASTM D3335-85A		
•	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		Approved By:	(b)(4)
Analyzoa Dy	(b)(4)		
Date	x <u>8/18/15</u>		LaboratoryDirector
AAS.DailyQC.005			

	EMSL Analytical, II 11931 Industriplex, Suite 100, B Phone/Fax: (225) 755-1920 / (http://www.EMSL.com	aton Rouge, LA 70809		11 11	EMSL Order: CustomerID: CustomerPO: ProjectID:	(b)(4) TECH55	
Attn:	(b)(4)	Phon	e: (:	504) 348-3098			
Те	chnical Environmental Servio	e. Inc.	(504) 348-3043			
) Box 1601	'Rece	ived: 0	8/17/15 11:05 A	M		
	nrrero, LA 70073	Colle	cted: 8	/14/2015			ļ

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	Baton Rouge, LA 70809	om		EMSL Order: CustomerID: CustomerPO: ProjectID:	TECH55
Attn:	PO Box 1		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						

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

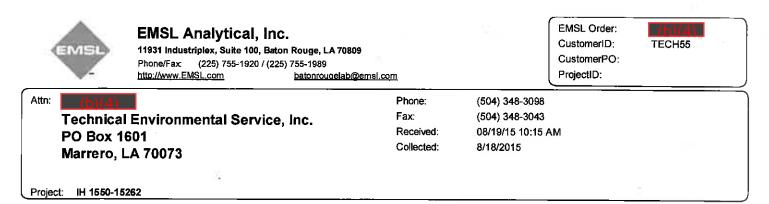
Client Sample Description	Lab ID Collected	Analyzed	Area Sampled	Lead Concentration
003	251505509-0003 8/14/2015	8/18/2015	144 in ²	27 µg/ft ²
	Site: Supply Room			
004	251505509-0004 8/14/2015	8/18/2015	144 in²	83 μg/ft²
	Site: Clean Room			



*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

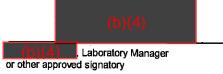
Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA LELAP 01950, A2LA Accredited Environmental Testing Cert #2845.03

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



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

Client Sample Description	Lab ID Collec	sted Analyzed	Volume	 Lead Concentration
001	251505585-0001 8/18/2	2015 8/20/2015	890 L	 <4.5 μg/m³
	Site: Level 10 South			
002	251505585-0002 8/18/2	2015 8/20/2015	890 L	<4.5 µg/m³
	Site: Level 12 North			



*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
PO Box 1	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	8/20/2015	144 in ²	70 µg/ft²
	Site: Clean Room			
004	251505585-0004 8/18/2015	8/20/2015	1 4 4 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>	<u>Client No.</u>	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	ALLEAD LABORATO AIHA-LAP, LLC No. 1001		DITATION PRO NYSDOH-ELAP No.	
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"
N S S E d	Method requires submittal o upplied by the client. Meth Standard Determined (LSD) ampled). The EPA 403 Fin E1792. Sample results are no	Inface location (EPA/HUD guidelines). f blanks. IATL assumes that all of the nod 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.	sampling methods an lethod 40CFR Part 13 lcies. LSD= 0.2 ppm all wipe samples of so or analystical blanks.	d data upon which these r 6 Appendix B. Reporting MDL=4.4 µg/ft ² RL=10.0 ettled dust shall be collect This confidential report r	esults are based, have been accurately g Limit (RL) based upon Lowest) μg/ft ² (based upon 1.0 square foot ed using a wipe that meets ASTM elates only to those item(s) tested and
Date Received:	8/26/2015	_			(b)(<i>4</i>)
Date Analyzed Analyst:	: <u>8/27/2015</u>	-		Approved By:	
		- Dere 1	- F 1	Labora	(b)(4) tory Director



Chain of Custody – Environmental Lead –

Contact Information	
Office Address: Building 1100, Suite 213G Project Name: B2 Surveillance	
City, State, Zip: <u>Stennis Space Center, MS 39529</u> Primary Contact: (b)(4)	
Office I none.	
Email Address: (b)(4) Cell Phone: (b)(4)	
iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other national recognized state programs.	l testing of onally
Matrix/Method:	
□ Paint by AAS: ASTM D3335-85a, 2009	
✓ Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010	н. Н
□ 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	
□ Other 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{DO}	(b)(4)
<u>Turnaround Time</u>	
Preliminary Results Requested Date: Verbal Email Fax	
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	1
Relinquished (Name/Organizatic (b)(4) Sate: 8/25/15 Time:	
Received (Name / iATL): Date: \Box	
Sample Login (Name / iATL): Date: 572611711 Time:	
Analysis(Name(s) / iATL): (b)(4) Date: Time	
QA/QC Review (Name / iATL): (i)(4) Date: Iiii Archived / Released: QA/QC InterLAB Use: Date: Iiii	

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

	i sa tanang sa	Location/	Flow	Start	Sampling	A 100 (62)	Results
Client Sample #	iATL #	Description	Rate	End	time (min)	Area (ft2) Volume (L)	()
001	5722452	9th Floor outside south (b4 cleaning)				1 sq ft	s.
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	
		¥	<u></u>				
						· · · ·	
•	•						
·	•						

* = 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

n



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	
Analysis Method:	ASTM D3335-85A		
	NIOSH 7082		
	EPA SW846 3050B 7000B		
Comments:	IATL assumes that all sampling complies with accepted	ed methods	
	All client supplied sampling data is assumed to be con		
	Detection limit based upon 0.2 mg/L reporting limit an		
	* NIST Traceable.		
	** 80-120% acceptable limits.		
Analyzed By: Date:		Approved By:	(b)(4) atory Director

AAS.DailyQC.005

EMEL	EMSL Analytical, Inc. 11931 Industriplex, Suite 100, Baton Rouge, LA 70 Phone/Fax (225) 755-1920 / (225) 755-1989 http://www.EMSL.com batonrougelate		EMSL Ord CustomerII CustomerF ProjectID:	D: TECH55
Attn: (b)(4)		Phone:	(504) 348-3098	
Technica	Environmental Service, Inc.	Fax:	(504) 348-3043	
PO Box 1	•	Received:	08/28/15 9:50 AM	
Marrero, I		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	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	27/2015	8/28/2015	880 L	<4.5 µg/m³
	Site: Level 11 N				



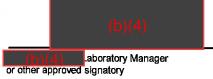
*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter: ug/filter = ug/m3 x volume sampled (m3). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility 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, LA Phone/Fax: (225) 755-1920 / (225) 755-1989 http://www.EMSL.com batonrouge	70809 lab@emsi.com	c c	MSL Order: ustomerID: ustomerPO: rojectID:	(b)(4) TECH55
Attn: (b)(4) Technical PO Box 1 Marrero, I		Phone: Fax: Received: Collected:	(504) 348-3098 (504) 348-3043 08/28/15 9:50 AM 8/27/2015		
Project: <u>IH 1550-15</u>	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	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 Descriptio	n Lab ID	Collected	Analyzed	Volume	Lead Concentration
001	251506005-00	01 9/1/2015	9/4/2015	1200 L	<3.3 µg/m³
	Site: Level 10 S	South Outside			
002	251506005-00	02 9/1/2015	9/4/2015	1200 L	<3.3 µg/m³
	Site: Level 11 N	North Inside			
005	251506005-00	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 Col	lected Analyze	d Area Sampled	Lead Concentration
003	251506005-0004 9/1/	/2015 9/3/201	5 144 in²	27 μg/ft²
	Site: Storage Room F	loor		
004	251506005-0005 9/1/	/2015 9/3/201	5 144 in²	24 μg/ft ²
	Site: Outside Clean R	Room Floor		



*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

									225) 1	0-100	<u> </u>
	Company : TE	ES		······		EMSL-Bill If Bill to is Differ		Different 🖌			
		Faravella Road			Th	ird Party Billing requ	lires writter	n authorization fro	m third p	arty	
	City: Marrero		State/P	rovince: LA	Zip/Posta	al Code: 70072		Country:	United	States	3
	Report To (Na	ame): (b)(4)			Telephon	e#: 504348309	8		.		
	Email Addres	s: (b)(4)			Fax #:			Purchase	e Order		
	Project Name	Number: IH 1550	-15262	2	Please Pl	rovide Results:	FA)	K 🖌 E-mai	i1 🗌	Mail	
	U.S. State Sa	mples Taken: LA			CT Samp	les: 🔲 Commerc	cial/Taxal	bie 🔲 Resider	ntial/Tax	Exem	pt_
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	🔲 3 Hour	🗌 6 Hour 🥢	🔀 24				5 Hour	🚺 1 Week		2 Wee	k
			omplete	d in accordance with EMS	L's Terms a						
1		Matrix		Method		Instrume	nt	Reporting		Che	ск
_	Chips 🗌 % b	oy wt. 🗌 mg/cm² 📋	ppm	SW846-7000	3	Flame Atomic Ab	sorption	0.01%			<u> </u>
Æ	Air			NIOSH 7082		Flame Atomic Ab		4 µg/filte		X	
				NIOSH 7105		Graphite Furna		0.03 µg/fi			↓
\bigcirc		· · · · · · · · · · · · · · · · · · ·		NIOSH 7300 mod		ICP-AES/ICP		0.5 µg/fil			<u> </u>
HP	Wipe*			SW846-7000		Flame Atomic Ab		10 µg/wi		X	
	*if no box k	non ASTM [checked, non-ASTM		SW846-6010B c		ICP-AES		1.0 µg/wi	<u> </u>		
		Wipe is assumed		SW846-7000B/7		Graphite Furna		0.075 µg∧	<u> </u>		<u>i</u>
	TCLP			SW846-1311/7000B/S		Flame Atomic Ab		0.4 mg/L (┝
[0.11			SW846-1131/SW846-6	_	ICP-AES		0.1 mg/L (┣━━
	Soll			SW846-70001 SW846-7010		Flame Atomic Ab Graphite Furna		40 mg/kg () 0.3 mg/kg (
	1			SW846-6010B c		ICP-AES		2 mg/kg (p			
			_	SM3111B/SW846-	7000B	Flame Atomic Ab	sorption	0.4 mg/L (r			Ĺ
	Wastewater Processed w			EPA 200.9		Graphite Furna	ce AA	0,003 mg/L	(ppm)		\Box
ļ				EPA 200.7		ICP-AES		0.020 mg/L			<u> </u>
			<u>ב</u>	EPA 200.9	_	Graphite Furna		0.003 mg/L			Ļ
	Preserved w	ith HNO ₃ pH < 2		EPA 200.8	0	ICP-MS		0.001 mg/L (
	TSP/SPM Fill	ter	:	40 CFR Part 5 40 CFR Part 5		Graphite Furna		<u>12 µg/filt</u> 3.6 µg/filt			
	Other:							0.0 µg/m			
	Name of San	mler		•	Signa	ture of Sample					
	Sample #		ocatio	<u>הייי</u> הייי		Volume/Are		Date	/Time \$	Sampi	ed
		Level 10 So			10	200 L		9/1/			
	007		ort		tá	200 L			115		
	003	Storage	Ro	om Floor	[' fta		9/1/	1 <u>5</u>	110-	7
	004	Outside C	legn	Room Floor		ft2		9/1	115	110	•5
	005	Levell eas	st 8	nutside	12	002		9/1	115		
Ī	Cilent Sampl		·			Tota	al # of St	amples:			
	Relinguished	d (Client		(4)		/15	Time:				
	Received (Lab);			91	03/15	Time:	11	150	2M	
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Page 1 of ____ pages

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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	n Lab ID	Collected	Analyzed	Volume	Lead Concentration
SSC090315-01	251506035-000	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	2 9/3/2015	9/8/2015	690 L	<5.8 µg/m³
	Site: Inside soft	core blasting	level		
SSC090315-03	251506035-000	3 9/3/2015	9/8/2015	690 L	<5.8 µg/m³
	Site: N side blas	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



EMSL Order: CustomerID: CustomerPO: ProjectID:

TECH55

Fax:

Attn:

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

Phone: Received: Collected:

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

(504) 348-3098

Project: IH 1550-15262

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

Client Sample Descripti	on Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
SSC090315-04	251506035-00	04 9/3/2015	9/8/2015	144 in²	26 µg/ft²
	Site: Storage r	oom floor			
SSC090315-05	251506035-00	05 9/3/2015	9/8/2015	144 in ²	15 μg/ft²
	Site: Outside of	lean room floo	r		
SSC090315-06	251506035-00	06 9/3/2015	9/8/2015	144 in ²	330 µg/ft ²
	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

Date 8/7/15 Purchase Order No. 29610 Company Name JACOBS TECHNOLOGY	
Address BUILDING 1100 SUITE 2	
STEMMIS SPACE CENTER US	39529
Person to Contact(b)(4)	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	STENNIS SPACE CENTER

Fax Telephone (228) 688-6456

Client Sample Number	Media Sample Volume Type (Liters)		ANALYSES REQUESTED - Use Method Number if Known				
001	MCE	768.8	NIOGH 7300 MOD.	LEAD, CADMINM,	CHROMIUM		
002	1	753.7		1			
003	1	NIA		1			
	-						
······································	-						
3	-	ļ					
			· · ·				
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		L					
·							
	Number 001 002 003	Number Type OOI MCE OO2 J OO3 J	Number Type (Liters) 001 MCE 768.8 002 1 753.7 003 1 NIA	Number Type (Liters) ANALYSES REC 001 MCE 768.8 Niosu 7300 mpo, 002 1 753.7 003 1 NIA			

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			8/12/158-26
Relinguished by: (Signature)	74		Date / Time	DELIVERY METHOD:	COOLING METHOD: NON	Date / Time
ALS ENVIRO	ONMENTAL	4388 Glendale Milford Road	d / Cincinnati	STD / PRTY MAIL UPS	COOLER WETICE ICE PACI CUSTODY SEALS: NONE 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 II	<u>Client Sample ID</u>	<u>Matrix</u>	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: Jacobs Technology, Inc. Work Order: **Project:** Stennis Space Center **Analytical Results**

Lab ID:	1508344-01A		С	ollection Date: 8/7/2015					
Client Sample ID: 001			Matrix: AIR						
Analyses									
METALS BY NIOSH	1 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	1 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	1 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					
Lead		ND	1.0	NA					

Note:

Date: 14-Aug-15

Client:	Jacobs Technology, Inc.					
Work Order:	(b)(4)					
Draiaat.	Stannis Space Contor					

QC BATCH REPORT

Project: Stennis Space Center

Batch ID: 29	951 Instrument ID: IC	CP1		Method	: N7300							
MBLK Client ID:	Sample ID: mblk-29951-2995		Run ID: ICP1 150813B		S		s: µg/sa ı o: 11107	-	Analysis Prep Date: 8/12	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									
Chromium		ND	1.0									
Lead		ND	1.0									
LCS	Sample ID: Ics-29951-29951					Unit	is: µg/sai	nple	Analysis	Date: 8/13	/2015 11:	53 AM
Client ID:		Rur	n ID: ICP1_	150813B	S		o: 11107	•	Prep Date: 8/12/2015		•	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Cadmium		20.46	0.10	20		0	102	80-120	0			
Chromium		19.35	1.0	20		0	96.8	80-120	0			
Lead		20.48	1.0	20		0	102	80-120	0			
LCSD	Sample ID: Icsd-29951-29951					Unit	is: µg/sai	nple	Analvsis	Date: 8/13	/2015 11:	56 AM
Client ID:		Rur	ID: ICP1_	150813B	S		o: 11107	-	Prep Date: 8/12		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
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	15	0834	14-02a	15	08344-03a			

Client: Project: WorkOrder:	Jacobs Technology, Inc. Stennis Space Center (b)(4)	QUALIFIERS, ACRONYMS, UNITS
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the Reportin	ng 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	
О	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	d Description	

µg/sample

Sample Receipt Checklist

Client Name: JACOBS-MISSISSIPPI		Date/Time F	Received:	12-Aug-1	<u>5 09:26</u>	
Work Order: (b)(4)		Received by	r: <u>s</u>	<u>SEG</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 Preser	nt 🗌		
Custody seals intact on shipping container/cooler?	Yes	No 🗌	Not Preser	nt 🗸		
Custody seals intact on sample bottles?	Yes	No 🗌	Not Preser	nt 🔽		
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 s	ubmitted	\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:	
Comments:			
CorrectiveAction:			

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						

	Requirement			Initial Assessement				Verification			
	Location	OSHA - Air (Action		Date of Type of Sample			Initial	Verification Date	e Type of 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 2/22/2015			
	West Pier Stairwell		occupancy	2/14/2015		Wipe	640 μg/ft2	and 2/24/2015		Wipe	380 μg/ft2
			400 μg/ft2, clearance for					Resampled on 2/22/2015			
	West Pier Badge Area Floor		occupancy	2/14/2015		Wipe	640 μg/ft2	and 2/24/2015		Wipe	150 μg/ft2
			400 μg/ft2, clearance for				/* -				
	West Pier Badge Area Table		occupancy	2/14/2015		Wipe	37 μg/ft2				
			400 μg/ft2, clearance for	2/44/2045			222 (1)2				
	Basement N Floor		occupancy	2/14/2015		Wipe	320 μg/ft2				
	Deserve and Calue Marshine		400 μ g/ft2, clearance for	2/11/2015			45				
	Basement Coke Machine		occupancy 400 μg/ft2, clearance for	2/14/2015		Wipe	15 μg/ft2				
	Basement Air Compressor Floor		occupancy	2/14/2015		Wino	290 ug/ft2				
			400 μg/ft2, clearance for	2/14/2015		Wipe	380 μg/ft2				
	Basement, South floor							2/17/2015		Wipe	66 μg/ft2
	Basement, South noor		occupancy 400 μg/ft2, clearance for					2/17/2015		wipe	00 µg/112
	Basement, West Floor		400 μg/π2, clearance for occupancy					2/17/2015		Wipe	120 μg/ft2
			400 μg/ft2, clearance for					2/17/2015		wipe	120 μg/π2
	Basement, North Floor		occupancy					2/17/2015		Wipe	52 μg/ft2
			400 μg/ft2, clearance for							wipe	52 µ8/112
	Basement, East Floor		occupancy					2/17/2015		Wipe	140 μg/ft2
	West Pier, Top of Steps	30 µg/m3; 50 µg/m3						2/18/2015	8-hr Air		**
	Basement at Air Compressor	30 µg/m3; 50 µg/m3						2/18/2015	8-hr Air		**
			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								
	Basement Mezzanine E Wall		occupancy					2/18/2015		Wipe	**
			400 μg/ft2, clearance for								
	West Pier Stairway to Mezzanine		occupancy					2/22/2015		Wipe	**
			100					2/22/2015			1200 μg/ft2;
	West Dier Steinway to Mazzanina		400 μ g/ft2, clearance for					2/22/2015;		Mine	Resample result
	West Pier Stairway to Mezzanine		occupancy 400 μg/ft2, clearance for					Resampled on 2/24/2015		Wipe	10 μg/ft2
	West Pier Stairway to Mezzanine		400 μg/π2, clearance for occupancy					2/22/2015		Wipe	**
			400 μg/ft2, clearance for					2/22/2013		wipe	
	West Pier Stairway to Mezzanine		occupancy					2/22/2015		Wipe	77 μg/ft2
			400 μg/ft2, clearance for							wipe	// µ8/112
	West side of Mezzanine by Compressor		occupancy					2/22/2015		Wipe	120 μg/ft2
			400 μg/ft2, clearance for								
-	West side of Mezzanine by Compressor		occupancy	S	ee Verific	ation Sar	nple	2/22/2015		Wipe	110 μg/ft2
Z			400 μg/ft2, clearance for								
<u>Z</u> E	West side of Mezzanine by Compressor		occupancy					2/22/2015		Wipe	18 μg/ft2
BASEMENT)			400 μg/ft2, clearance for								
	West side of Mezzanine by Compressor		occupancy					2/22/2015		Wipe	350 μg/ft2

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							

Location	Requir		Initial As	sesseme	nt	Verification				
	OSHA - Air (Action		Date of Type of Sample Init			Initial	Verification Date	Type o	f Sample	
	Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
West side of Mezzanine by Compressor		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	22 μg/ft2
· · ·		400 μg/ft2, clearance for								
West side of Mezzanine by Compressor		occupancy 400 μg/ft2, clearance for					2/22/2015		Wipe	38 μg/ft2
West side of Mezzanine by Compressor		occupancy					2/22/2015		Wipe	48 μg/ft2
Mezzanine Hallway		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	22 μg/ft2
Mezzanine Hallway		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	**
		400 μ g/ft2, clearance for								
Mezzanine Hallway		occupancy 400 μg/ft2, clearance for					2/22/2015		Wipe	36 μg/ft2
Mezzanine Hallway		occupancy					2/22/2015		Wipe	110 μg/ft2
Mezzanine Hallway		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	120 μg/ft2
Mezzanine Hallway		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	32 μg/ft2
		400 μ g/ft2, clearance for								
North Side of Mezzanine		occupancy 400 μg/ft2, clearance for					2/22/2015		Wipe	29 μg/ft2
North Side of Mezzanine		occupancy					2/22/2015		Wipe	92 μg/ft2
North Side of Mezzanine		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	34 μg/ft2
North Side of Mezzanine		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	320 μg/ft2
		400 μ g/ft2, clearance for								
North Side of Mezzanine		occupancy 400 μg/ft2, clearance for	2/22/2015		Wipe	800 μg/ft2	Resampled on 2/24/2015		Wipe	150 μg/ft2
North Side of Mezzanine		occupancy	50	ee Verific	ation Sar	mple	2/22/2015		Wipe	49 μg/ft2
North Side of Mezzanine		400 μg/ft2, clearance for occupancy	2/22/2015		Wipe	880 μg/ft2	Resampled on 2/24/2015		Wipe	290 μg/ft2
North Side of Mazzanina		400 μg/ft2, clearance for			· · · ·		2/22/2015			
North Side of Mezzanine		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 Pier Entrance		400 μg/ft2, clearance for occupancy					2/22/2015		Wipe	**
		400 μ g/ft2, clearance for								
West Pier Entrance		occupancy 400 μg/ft2, clearance for					2/22/2015		Wipe	170 μg/ft2
West Pier Entrance		occupancy					2/22/2015		Wipe	**
		400 μg/ft2, clearance for					2/22/2015; Resampled			540 μg/ft2; Resample result
West Pier Entrance		occupancy 400 μg/ft2, clearance for	C	oo Vorifia	ation for	mnlo	on 2/24/2015		Wipe	10 µg/ft2
West entrance door		occupancy	30	ee Verific		lihie	2/24/2015		Wipe	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								
West electrical panel		occupancy					2/24/2015		Wipe	**

Data as of August 18th, 201	.5
-----------------------------	----

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	Requirement		Initial As	sesseme	ent	Verification			
		OSHA - Air (Action		Date of Type of Sample		Initial	Verification Date Type		Sample	Varification Decult	
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
			400 μ g/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 μ g/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		**			
		400 μg/ft2, clearance for	, -,						
EAST PIER ROOM Work Table			2/13/2015		Wipe	60 μg/ft2		Wipe	
		occupancy	2/13/2013		wipe			wipe	
		40 μg/ft2, clearance for				680 μg/ft2			
EAST PIER ROOM Microwave		consumption area	2/13/2015		Wipe	(Recleaning)		Wipe	
		400 μg/ft2, clearance for							
EAST PIER ROOM Storage Cabinet		occupancy	2/13/2015		Wipe	25 μg/ft2			
		400 μg/ft2, clearance for				5900 μg/ft2			
EAST PIER ROOM South Stair Landing		occupancy	2/13/2015		Wipe	(Recleaning)		Wipe	
		400 µg/ft2, clearance for			·	3500 μg/ft2			
EAST PIER ROOM North Stair Landing		occupancy	2/13/2015		Wipe	(Recleaning)		Wipe	
			2/13/2013		wipe	(Wipe	
		400 μ g/ft2, clearance for					2/22/2015		100 //
East Pier		occupancy					2/22/2015	Wipe	180 µg/f
		400 μg/ft2, clearance for							
East Pier		occupancy					2/22/2015	Wipe	27 μg/ft
		400 μg/ft2, clearance for							
East Pier		occupancy					2/22/2015	Wipe	21 μg/ft
		400 μg/ft2, clearance for						·	
East Pier		occupancy					2/22/2015	Wipe	40 μg/ft
		400 μg/ft2, clearance for					2,22,2013	Wipe	το μg/ τι
							2/22/2015		40
East Pier		occupancy					2/22/2015	Wipe	48 μg/ft
		400 μg/ft2, clearance for							
East Pier		occupancy					2/22/2015	Wipe	52 μg/ft
		400 μg/ft2, clearance for							
East Pier		occupancy					2/22/2015	Wipe	120 μg/f
		400 μg/ft2, clearance for							
East Pier		occupancy					2/22/2015	Wipe	270 μg/f
		400 μg/ft2, clearance for						mpe	270 pb/1
East Dior							2/22/201E	14/100	04/6
East Pier		occupancy					2/22/2015	Wipe	94 μg/ft
		400 μg/ft2, clearance for							
East Pier		occupancy					2/22/2015	Wipe	150 μg/f
		400 μg/ft2, clearance for							
East Pier		occupancy					2/22/2015	Wipe	250 μg/ft
		400 μg/ft2, clearance for							
East Pier		occupancy					2/22/2015	Wipe	180 μg/f
		400 μg/ft2, clearance for					_,, _010	mpe	100 µg/1
Break Room floor Near Entrance							2/5/2015	14/100	60 ug/ft
		occupancy	S	ee Verifica	ation Sar	mnle	3/5/2015	Wipe	69 μg/ft
		400 μ g/ft2, clearance for	J						
Break Room Near Refridgerator		occupancy					3/5/2015	Wipe	120 μg/ft

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 As	sesseme	ent	Verification			
	Location	OSHA - Air (Action		Date of	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
EA			400 μg/ft2, clearance for		-						
	On Desk Office 1, North Office		occupancy 400 μg/ft2, clearance for					3/5/2015		Wipe	**
	Floor Entrance Office 1, North Office		400 μg/itz, clearance for occupancy					3/5/2015		Wipe	25 μg/ft2
			400 μg/ft2, clearance for					0,0,2020		mpe	20 µ8/ 112
	On Desk Office 2, Middle Office		occupancy					3/5/2015		Wipe	25 μg/ft2
			400 μg/ft2, clearance for								
	Floor Entrance Office 2, Middle Office		occupancy					3/5/2015		Wipe	120 μg/ft2
			400 μg/ft2, clearance for								
	On Desk Office 3, South Office		occupancy					3/5/2015		Wipe	10 μg/ft2
	Floor Entrance Office 3, South Office		400 μg/ft2, clearance for occupancy					3/5/2015		Wipe	150 μg/ft2
			400 μg/ft2, clearance for					5/5/2015		wipe	130 μg/π2
	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
	Manageria - Fastana - Darah Daam Flash		400 μg/ft2, clearance for					3/13/2015; Resampled			420 μg/ft2; Resampled resu
	Mezzanine Entrance Break Room Floor		occupancy					on 4/15/16		Wipe	μg/ft2
			400 μg/ft2, clearance for					3/13/2015; Resampled			240 μg/ft2; Resampled result
	Mezzanine Southeast Break Room Floor		occupancy					on 4/15/16		Wipe	μg/ft2
										2	
			400 μg/ft2, clearance for								
ы	Basement mid-rail		occupancy	2/13/2015		Wipe	43 μg/ft2				
- 0.5			400 μg/ft2, clearance for								
LEVEL	Basement & LVL 1, Landing	20.00 / 20.00 / 20.00 / 20.00	occupancy	2/13/2015		Wipe	110 μg/ft2	2/10/2015			**
Ú T	Basement, Elevator/stairs	30 µg/m3; 50 µg/m3	400 μg/ft2, clearance for	C	oo Vorific	ation Sa	mnlo	2/18/2015	8-hr Air		T T
	Basement & LVL 1, Landing		occupancy	30	ee Verific	aliuli Jdi	inhie	2/19/2015		Wipe	17 μg/ft2
			1 1					, ,			2, h9/112
			400 μg/ft2, clearance for								

	1)// 1 top of headrail	400 μg/ft2, clearance for	2/12/2015	Wine	**		Wine	
	LVL 1, top of handrail	occupancy 400 μg/ft2, clearance for	2/13/2015	Wipe			Wipe	
	LVL 1 E Floor	400 μg/π2, clearance for occupancy	2/14/2015	Wipe	110 μg/ft2		Wipe	
		400 μg/ft2, clearance for	2/11/2013	mpe	110 µ6/112		mpe	
	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 μ g/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						
LEVEL	LVL 1 Personnel Wall	occupancy	2/14/2015	Wipe	37 μg/ft2		Wipe	
Ŭ,		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 μg/ft2, clearance for				2/17/2015	Wipe	120 μg/ft2
	LVL 1 N Floor	400 μg/ft2, clearance for				2/17/2015	Wipe	63 μg/ft2
	LVL 1 E Floor	400 μ g/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

	LEGEND
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**	for Sampling and An
	Not App
	Compliant with
	Above Regulator

	Requir	Requirement			sesseme	ent		Verification		
Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of	Sample	Varification Decult
	Level; Permissible	HUD - Wipe	HUD - Wipe Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
LVL 1 Hand Rail		400 μg/ft2, clearance for		_		_	2/17/2015		Wipe	**
LVL 1 S Wall		400 μg/ft2, clearance for	Se	See Verification Sample			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

r										
			400 μg/ft2, clearance for							
	LVL 2, top of handrail		occupancy	2/13/2015		Wipe	**			
			400 μg/ft2, clearance for			•				
	IVI 2 E Floor			2/14/2015		Wipe	02 ug/ft2			
	LVL 2 E Floor		occupancy	2/14/2015		wipe	93 μg/ft2			
			400 μg/ft2, clearance for							
	LVL 2 S Floor		occupancy	2/14/2015		Wipe	59 μg/ft2			
			400 μg/ft2, clearance for					Resampled on 2/17/20	015	
	LVL 2 W Floor		occupancy	2/14/2015		Wipe	130 μg/ft2	and 2/22/2015		42 μg/ft2
			400 μg/ft2, clearance for	2/14/2013		wipe	130 µg/112			τε με/τιε
	LVL 2N Floor		occupancy	2/14/2015		Wipe	76 μg/ft2			
			400 μg/ft2, clearance for							
	LVL 2 S Floor		occupancy					2/17/2015	Wipe	52 μg/ft2
										550 μg/ft2;
			400 μg/ft2, clearance for					2/17/2015;		Resample result
	LVL 2 W Floor		occupancy					Resampled on 2/22/20	015 Wipe	42 µg/ft2
7				-					vipe	42 μg/π2
			400 μg/ft2, clearance for							
A N	LVL 2 N Floor		occupancy					2/17/2015	Wipe	320 μg/ft2
LEVEL			400 μg/ft2, clearance for							
	LVL 2 E Floor		occupancy					2/17/2015	Wipe	150 μg/ft2
			400 μg/ft2, clearance for							
	LVL 2 Hand Rail		occupancy					2/17/2015	Wipe	**
			400 μg/ft2, clearance for							
	LVL 2 S Wall		occupancy	I S	ee Verifica	ation Sai	mple	2/18/2015	Wipe	**
			· · ·	-				2/10/2013	wipe	
			400 μg/ft2, clearance for							
	LVL 2 W Wall		occupancy					2/18/2015	Wipe	10 µg/ft2
			400 μg/ft2, clearance for							
	LVL 2 N Wall		occupancy					2/18/2015	Wipe	**
			400 μg/ft2, clearance for							
	LVL 2 E Wall		occupancy					2/18/2015	Wipe	**
	LVL 2 Floor	30 µg/m3; 50 µg/m3	cooperie					2/19/2015	8-hr Air	**
		30 µg/iii3, 30 µg/iii3	400 ug/th2 alegrap as for					2/15/2015	0-111 All	
			400 μg/ft2, clearance for							
	LVL 2 to LVL 3 Landing		occupancy					2/19/2015	Wipe	29 μg/ft2
			400 μg/ft2, clearance for							
	Level 2 Floor		occupancy					2/22/2015	Wipe	42 μg/ft2
	•									
				242/221-			**			
	LVL 3 Breakroom by sink	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air					
	LVL 3 Breakroom coke machine	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**			
	LVL 3 Break room by Sink	30 μg/m3; 50 μg/m3		2/13/2015	Air - 6 Hr		**			
1	1)/1.2 Drook room by Cake maching	20 4 4 2 50 4 4 2		2/12/2015	Aim Cillin		**			

Air - 6 Hr

Air - 6 Hr

2/13/2015

2/13/2015

2/13/2015

40 μg/ft2, clearance for consumption area

ection Limits nalytical Equipment

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Requirements

ory Requirements

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

Planned - 430

Total Samples Above Limits - 62

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

		Requir		Initial Assessement				Ver	Verification			
	Location	OSHA - Air (Action		Date of	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	
			40 μ g/ft2, clearance for									
	LVL 3 Break room Table		consumption area	2/13/2015		Wipe	**					
			400 μg/ft2, clearance for	2/12/2015			**					
	LVL 3, top of handrail		occupancy 400 μg/ft2, clearance for	2/13/2015		Wipe						
	LVL 3 E Floor		400 μg/12, clearance for occupancy	2/14/2015		Wipe	77 μg/ft2					
			400 μg/ft2, clearance for	2/14/2013		wipe	// μ6/112					
	LVL 3 S Floor		occupancy	2/14/2015		Wipe	30 μg/ft2					
			400 µg/ft2, clearance for				10,					
	LVL 3 W Floor		occupancy	2/14/2015		Wipe	47 μg/ft2					
ŝ			400 μ g/ft2, clearance for									
Ē	LVL 3 N Floor		occupancy	2/14/2015		Wipe	75 μg/ft2					
LEVEL			400 μg/ft2, clearance for									
	LVL 3 S Floor		occupancy	-				2/17/2015		Wipe	60 μg/ft2	
			400 μg/ft2, clearance for					2/17/2015			0.4	
	LVL 3 W Floor		occupancy 400 μg/ft2, clearance for	-				2/17/2015		Wipe	94 μg/ft2	
	LVL 3 N Floor		400 μg/12, clearance for occupancy					2/17/2015		Wipe	32 μg/ft2	
			400 μg/ft2, clearance for					2/17/2015		wipe	52 μg/ τ2	
	LVL 3 E Floor		occupancy					2/17/2015		Wipe	45 μg/ft2	
			400 μg/ft2, clearance for								10	
	LVL 3 Hand Rail		occupancy		_		_	2/17/2015		Wipe	**	
			400 μg/ft2, clearance for	1 S	ee Verific	ation Sai	mple					
	LVL 3 S Wall		occupancy					2/18/2015		Wipe	**	
			400 μg/ft2, clearance for									
	LVL 3 W Wall		occupancy	-				2/18/2015		Wipe	**	
			400 μg/ft2, clearance for					2/19/2015		Mine	**	
	LVL 3 N Wall		occupancy 400 μg/ft2, clearance for	-				2/18/2015		Wipe		
	LVL 3 E Wall		400 μg/π2, clearance for occupancy					2/18/2015		Wipe	**	
	LVL 3 Floor	30 µg/m3; 50 µg/m3	occupancy					2/19/2015	8-hr Air	wipc	**	
			400 μg/ft2, clearance for					,,				
	LVL 3 to LVL 4 Landing		occupancy					2/19/2015		Wipe	75 μg/ft2	
			400 μg/ft2, clearance for									
	LVL 4, mid-rail		occupancy	2/13/2015		Wipe	140 μg/ft2					
			400 μg/ft2, clearance for	1						XIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		

	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
L 4	LVL 4 W Floor	400 μg/ft2, clearance for occupancy				2/17/2015	Wipe	80 μg/ft2
LEVE	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					

				A
	Requi	rement		Initia
Location	OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Ty Ai
LVL 4 Hand Rail		400 μg/ft2, clearance for occupancy	Se	ee Ve
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			

Total Samples Taken - 549

Approximate Number of Samples

Planned - 430

		Requir	ement		Initial As	sesseme	nt	Verification			
	Location	OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Air	Sample Wipe	Initial Assessment	Verification Date of Sample	Type of Air	Sample Wipe	Verification Result
			400 μg/ft2, clearance for	Jampie		wipe	Assessment			wipe	
	LVL 4 Hand Rail		occupancy	S	ee Verific	ation Sar	nple	2/17/2015		Wipe	**
			400 μg/ft2, clearance for								
	LVL 4 S Wall		occupancy					2/18/2015		Wipe	**
	LVL 4 W Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
			400 μg/ft2, clearance for				2/10/2013		wipe		
	LVL 4 N Wall		occupancy					2/18/2015		Wipe	**
			400 μg/ft2, clearance for								
	LVL 4 E Wall		occupancy					2/18/2015		Wipe	**
	LVL 4 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
			400 μg/ft2, clearance for								
ъ	LVL 4 & LVL 5 between mid rail		400 μg/1t2, clearance for occupancy	2/13/2015		Wipe	350 μg/ft2				
- 4.5			400 μg/ft2, clearance for	2,10,2010		mpe	000 µ8/112				
LEVEL	LVL 4 & LVL 5, mid Landing		occupancy	2/13/2015		Wipe	90 μg/ft2				
Ш Ц			400 μg/ft2, clearance for	S	ee Verific	ation Sar	nnlo				
	LVL 4 to LVL 5 Landing		occupancy	5			lible	2/19/2015		Wipe	75 μg/ft2
	LVL 5 Office C507	20 4 4 2 50 4 4 2		2/12/2015	2 hr Partial Air		**				
	LVL 5 Corridor	30 µg/m3; 50 µg/m3 30 µg/m3; 50 µg/m3		2/13/2015 2/13/2015	2 hr Partial Air 2 hr Partial Air		**				
	LVL 5 Conf 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		**				
			40 μ g/ft2, clearance for								
	LVL 5 office desk		consumption area	2/13/2015		Wipe	**				
	LVL 5 Conference table		40 μg/ft2, clearance for consumption area	2/13/2015		Wipe	**				
			400 μg/ft2, clearance for	2/13/2013		Wipe					
	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				
	LVL 5 S Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	51 μg/ft2				
			400 μg/ft2, clearance for	2/14/2013		wipe	51 µg/112				
	LVL 5 W Floor		occupancy	2/14/2015		Wipe	100 μg/ft2				
			400 μg/ft2, clearance for								
Ч	LVL 5 N Floor		occupancy	2/14/2015		Wipe	53 μg/ft2				
LEVEL	LVL 5 S Floor		400 µg/ft2, clearance for					2/17/2015		Wipe	69 µg/ft2
ΓEΛ			occupancy 400 μg/ft2, clearance for					2/17/2013		wipe	09 μg/π2
	LVL 5 W Floor		occupancy					2/17/2015		Wipe	64 μg/ft2
			400 μg/ft2, clearance for								
	LVL 5 N Floor		occupancy					2/17/2015		Wipe	44 μg/ft2
			400 µg/ft2, clearance for					2/17/2015		14/:	10.00/612
	LVL 5 E Floor		occupancy 400 μg/ft2, clearance for					2/17/2015		Wipe	40 μg/ft2
	LVL 5 Hand Rail		400 μg/π2, clearance for occupancy					2/17/2015		Wipe	11 μg/ft2
			400 μg/ft2, clearance for	S	ee Verific	ation Sar	nple				
	LVL 5 S Wall		occupancy					2/18/2015		Wipe	**
			400 μ g/ft2, clearance for					2/40/2045			ب ب
	LVL 5 W Wall		occupancy	l				2/18/2015		Wipe	**

Mark Level; Permissible Sample Air Wipe Assessment Of Sample Air Wipe Ux. 4 fault fault 200 w/ftz, desine for cockakey 600 w/ftz, desine for cockakey See Verification Sample 2/17/2015 0.00 0.00 Ux. 4 fault fault 200 w/ftz, desine for cockakey See Verification Sample 2/17/2015 0.00 0.00 Ux. 4 fault 200 w/ftz, desine for cockakey 0.00	
Image: Section of the sectio	
VA 4.8 ubd fail Company 400 (gR/s, demander (gR/s, dem	Verification Result
VL 4.5 Vuli M0 u/ft2_centre for GCUMPC_ 400 u/ft2_centre for M0 u/ft2_centre for M1 u/ft2_centre for M0 u/ft2_centre for M1 u/ft2_ft V/ft2_ft	
Vit 5 Will Social Sociel Social	**
Vi. 4 W Wall 400 rg/h2, charance for coccepancy VI. 4 W Wall	**
UL 4W Walk Concurancy (W1, 4W Walk <td></td>	
Vi. 4. Will Social of the section of the sectin of the section of the sectin of the section of the se	**
Will & Wall Wile Wile Wile Wile Wile Vil 4 Floor 30 µg/m3 50 µg/m3 Wile <	
Ut 4 F Volit ZU14/2015	**
Unit 4 Floor 20 µg/m3: 50 µg/m3 mmmmmmm 2/13/2015 8-hr Air mmmm Y 1. Vit 4.6 loor 400 µg/m2, clearance for uscupancy 2/13/2015 Wipe 350 µg/m2 4.00 µ	**
Yu. 4 Liv. 5 Descent of rail Descent of rail Descent of rail Occupancy Z/13/2015 Wipe 350 µg/h2 Mail and m	**
Pgg UV. 8 LVL 5 between mid rail Just 6 LVL 6 and 10 g Occupancy 2/13/2015 Wipe 350 µg/h2 Mode (R)	
Main Uv. 4 & LVL 5, mid Landing Mod (pc/LL) (dealarce for occupance) 2/13/2015 Wipe 90 (pc/L2) Mulpe Vipe 90 (pc/L2) 400 (pc/L2) 400 (pc/L2) 400 (pc/L2) Wipe 90 (pc/L2) 90 (pc/L2)<	
Main Uv. 4 & LVL 5, mid Landing Mod (pc/LL) (dealarce for occupance) 2/13/2015 Wipe 90 (pc/L2) Mulpe Vipe 90 (pc/L2) 400 (pc/L2) 400 (pc/L2) 400 (pc/L2) Wipe 90 (pc/L2) 90 (pc/L2)<	
UVL 4 to UVL 5 Landing occupancy See Vermication Sample 2/13/2015 <th< td=""><td></td></th<>	
UVL 4 to UVL 5 Landing occupancy See Vermication Sample 2/13/2015 <th< td=""><td></td></th<>	
UVL 5 Corritor 30 µg/m3 50 µg/m3 20 µg/m3 50 µg/m3 2/13/2015 2 hr Partial Air ** 50 µg/m3 50 µg/m3 50 µg/m3 2/13/2015 2 hr Partial Air ** 50 µg/m3 50 µg/m3 50 µg/m3 2/13/2015 2 hr Partial Air ** ** 6	75 μg/ft2
VILS Conference Room 30 µg/m3; 50 µg/m3 2/13/2015 2 hr Partial Air ** 6000000000000000000000000000000000000	
Start Start <th< td=""><td></td></th<>	
LVL 5 - Conference Room 30 µg/m3; 50 µg/m3 2/13/2015 Air - 6 Hr ••	
LVL 5 - Dutside Office C507Conference Room 30 µg/m3; 50 µg/m3 and another the second of the the the second of the the the second of the the second of the the second of the the the second of the the the second of the	
Yul 5 office desk 40 µg/ft2, clearance for consumption area 2/13/2015 Wipe ** Addition	
VL 5 Conference table 40 µg/t2, clearance for consumption area 2/13/2015 Wipe ** LVL 5 Conference table 400 µg/t2, clearance for occupancy 2/13/2015 Wipe ** 42 µg/t2 40 40 400 µg/t2, clearance for occupancy 2/13/2015 Wipe 42 µg/t2 40 40 400 µg/t2, clearance for occupancy 2/14/2015 Wipe 130 µg/t2 40 40 400 µg/t2, clearance for occupancy 2/14/2015 Wipe 130 µg/t2 40 400 µg/t2, clearance for occupancy 2/14/2015 Wipe 100 µg/t2 400 µg/t2 400 µg/t2, clearance for occupancy 2/14/2015 Wipe 100 µg/t2 400 µg/t2 400 µg/t2 400 µg/t2, clearance for occupancy 2/14/2015 Wipe 100 µg/t2 400 µg/t2 400 µg/t2, clearance for occupancy 2/14/2015 Wipe 100 µg/t2 400 µg/t2 400 µg/t2, clearance for occupancy 2/14/2015 Wipe 100 µg/t2 400 µg/t2 400 µg/t2, clearance for occupancy 2/14/2015 Wipe 100 µg/t2 400 µg/t2 400 µg/t2, clearance for occupancy 2/14/2015 Wipe 100 µg/t2 100 µg/t2 100 µg/t2	
Note: Not	
LVL 5 Floor at Stairs, Conf Rm 400 µg/t2, clearance for occupancy 2/13/2015 Wipe 42 µg/t2 end	
LVL S Floor at Stairs, Conf Rm Occupancy 2/13/2015 Wipe 42 µg/ft2 Control Contro Contro Contro <thc< td=""><td></td></thc<>	
Image: Note of the state of the st	
VL 5 S Floor 400 µg/ft2, clearance for occupancy 2/14/2015 Wipe 51 µg/ft2 LVL 5 S Floor 400 µg/ft2, clearance for occupancy 2/14/2015 Wipe 100 µg/ft2 LVL 5 W Floor 400 µg/ft2, clearance for occupancy 2/14/2015 Wipe 100 µg/ft2 LVL 5 N Floor 400 µg/ft2, clearance for occupancy 2/14/2015 Wipe 53 µg/ft2 LVL 5 N Floor 400 µg/ft2, clearance for occupancy 2/14/2015 Wipe 53 µg/ft2 LVL 5 S Floor 400 µg/ft2, clearance for occupancy 2/14/2015 Wipe 53 µg/ft2 LVL 5 S Floor 400 µg/ft2, clearance for occupancy 2/17/2015 Wipe LVL 5 W Floor 400 µg/ft2, clearance for occupancy 2/17/2015 Wipe	
LVL 5 S Floor Occupancy 2/14/2015 Wipe 51 µg/ft2 Image: Company of the company o	
LVL 5 W Floor 400 μg/ft2, clearance for occupancy 2/14/2015 Wipe 100 μg/ft2 Image: Clearance for occupancy Image: Clearance for occupancy 2/14/2015 Wipe 53 μg/ft2 LVL 5 N Floor 400 μg/ft2, clearance for occupancy 2/14/2015 Wipe 53 μg/ft2 Image: Clearance for occupancy 2/17/2015 Image: Clearance for occupancy	
LVL 5 W Floor occupancy 2/14/2015 Wipe 100 μg/ft2 Mipe 100 μg/ft2 LVL 5 N Floor 400 μg/ft2, clearance for occupancy 2/14/2015 Wipe 53 μg/ft2 2/17/2015 Wipe 100 μg/ft2 LVL 5 N Floor 400 μg/ft2, clearance for occupancy 2/14/2015 Wipe 53 μg/ft2 2/17/2015 Wipe 100 μg/ft2 LVL 5 S Floor 400 μg/ft2, clearance for occupancy 400 μg/ft2, clearance for occupancy 100 μg/ft2	
Image: Signal system LVL 5 N Floor 400 µg/ft2, clearance for occupancy 2/14/2015 Wipe 53 µg/ft2 LVL 5 N Floor 400 µg/ft2, clearance for occupancy 400 µg/ft2, clearance for occupancy 2/14/2015 Vipe LVL 5 S Floor 400 µg/ft2, clearance for occupancy 0 2/17/2015 Wipe LVL 5 W Floor 400 µg/ft2, clearance for occupancy 2/17/2015 Wipe	
Image: Base of the system 400 μg/ft2, clearance for occupancy 2/17/2015 Wipe LVL 5 S Floor 400 μg/ft2, clearance for occupancy 2/17/2015 Wipe LVL 5 W Floor 0ccupancy 2/17/2015 Wipe	
LVL 5 W Floor 2/17/2015 Wipe	
LVL 5 W Floor 2/17/2015 Wipe	
LVL 5 W Floor 2/17/2015 Wipe	69 μg/ft2
	64 μg/ft2
400 μg/ft2, clearance for	01 µ6/112
LVL 5 N Floor 2/17/2015 Wipe	44 μg/ft2
400 μg/ft2, clearance for	
LVL 5 E Floor Occupancy 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 μg/ft2, clearance for See Verification Sample	MD/112
LVL 5 S Wall Occupancy 2/18/2015 Wipe	**
400 μg/ft2, clearance for	
LVL 5 W Wall Occupancy 2/18/2015 Wipe	**

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

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 Date	Type of	Sample	Varification Decult
	Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
		400 μ g/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

							1		.		
			400 μg/ft2, clearance for	2/12/2015		14/5	**				
	LVL 6, top of handrail		occupancy	2/13/2015		Wipe					
			400 μ g/ft2, clearance for								
	LVL 6 E Floor		occupancy	2/14/2015 Wipe 290 μg/ft2							
	LVL 6 S Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	520 μg/ft2	Resampled on 2/17/20	015	Wipe	110 μg/ft2
			400 μg/ft2, clearance for	2/14/2013		wipe	520 µg/112			wipe	110 μg/π2
	LVL 6 W Floor		400 μg/π2, clearance for occupancy	2/14/2015		Wipe	470 μg/ft2	Resampled on 2/17/2	015	Wipe	230 μg/ft2
			400 μg/ft2, clearance for								
	LVL 6 N Floor		occupancy	2/14/2015		Wipe	340 μg/ft2				
			400 μ g/ft2, clearance for		VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	·		2/47/2045			110 Kin
	LVL 6 S Floor		occupancy	4				2/17/2015		Wipe	110 μg/ft2
	LVL 6 W Floor		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	230 μg/ft2
9			400 μg/ft2, clearance for								10,
LEVEL	LVL 6 N Floor		occupancy					2/17/2015		Wipe	240 μg/ft2
Щ			400 μ g/ft2, clearance for								
	LVL 6 E Floor		occupancy					2/17/2015		Wipe	140 μg/ft2
	LVL 6 Hand Rail		400 μg/ft2, clearance for occupancy							Wipe	12 μg/ft2
			400 μg/ft2, clearance for	l c	an Varifian	tion Co.	mula	2/17/2015		wipe	12 μg/π2
	LVL 6 S Wall		400 μg/π2, clearance for occupancy	 3	ee Verifica	luon sai	npie	2/18/2015		Wipe	**
	LVL 6 W Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
			400 μg/ft2, clearance for	1				2, 10, 2013		wipe	
	LVL 6 N Wall		400 μg/πz, clearance for occupancy					2/18/2015		Wipe	13 µg/ft2
			400 μg/ft2, clearance for]							
	LVL 6 E Wall		occupancy]				2/18/2015		Wipe	16 μg/ft2
	LVL 6	30 μg/m3; 50 μg/m3						2/19/2015	8-hr Air		**
			400 μg/ft2, clearance for	<u></u>							
	LVL 6 to LVL 7 Landing		occupancy					2/19/2015		Wipe	11 μg/ft2
			100 ug/ft2 clearance for								

	400 μg/ft2, clearance for		
LVL 7, top of handrail	occupancy	2/13/2015	
	400 μg/ft2, clearance for		
LVL 7 E Floor	occupancy	2/14/2015	
	400 μg/ft2, clearance for		
LVL 7 S Floor	occupancy	2/14/2015	
	400 μg/ft2, clearance for		
LVL 7 W Floor	occupancy	2/14/2015	
	400 μg/ft2, clearance for		
LVL 7 N Floor	occupancy	2/14/2015	
	400 μg/ft2, clearance for		
LVL 7 S Floor	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			
<u> </u>		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 18th, 2015

Total Samples Taken - 549

Approximate Number of Samples

Planned - 430

		Require	ement		Initial As	sesseme	ent	Verification			
	Location	OSHA - Air (Action	HUD - Wipe	Date of	Type of	Sample	Initial	Verification Date	Type of	f Sample	Verification Result
		Level; Permissible		Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Vermication Result
			400 μg/ft2, clearance for					2/17/2015			110
	LVL 7 W Floor		occupancy 400 μg/ft2, clearance for					2/17/2015		Wipe	140 μg/ft2
	LVL 7 N Floor		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
			400 μg/ft2, clearance for					2/17/2013		wipe	
	LVL 7 Hand Rail		occupancy					2/17/2015		Wipe	**
L 7	LVL 7 S Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	21 μg/ft2
LEVEL			400 µg/ft2, clearance for								
	LVL 7 W Wall		occupancy 400 μg/ft2, clearance for					2/18/2015		Wipe	**
	LVL 7 N Wall		occupancy					2/18/2015		Wipe	12 μg/ft2
			400 μ g/ft2, clearance for	l s	ee Verific	ation Sa	mnle	2/12/2015			
	LVL 7 E Wall		occupancy				mpic	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
			800 μg/ft2, clearance for					2/15/2015		wipe	20 μg/π2
	Level 7 South Outside		outside surfaces					2/27/2015		Wipe	580 μg/ft2
	Level 7 South Outside		800 μg/ft2, clearance for outside surfaces					2/27/2015		Wipe	470 μg/ft2
			800 μ g/ft2, clearance for								
	Level 7 West Outside		outside surfaces 800 µg/ft2, clearance for					2/27/2015		Wipe	51 μg/ft2
	Level 7 North Outside		outside surfaces					2/27/2015		Wipe	71 μg/ft2
			800 μ g/ft2, clearance for					2/27/2015			450 /60
	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	2/13/2015		Wipe	**				
			400 μg/ft2, clearance for	2/44/2017			220 ///2				
	LVL 8 E Floor		occupancy 400 μg/ft2, clearance for	2/14/2015		Wipe	320 μg/ft2				
	LVL 8 S Floor		occupancy	2/14/2015		Wipe	130 μg/ft2				
	LVL 8 W Floor		400 μg/ft2, clearance for occupancy	2/14/2015		Wipe	180 μg/ft2				
			400 μg/ft2, clearance for	2/14/2013		wipe	100 µg/112				
	LVL 8 N Floor		occupancy	2/14/2015		Wipe	92 μg/ft2				
	LVL 8 S Floor		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	91 μg/ft2
			400 µg/ft2, clearance for	1							
	LVL 8 W Floor		occupancy 400 μg/ft2, clearance for					2/17/2015		Wipe	49 μg/ft2
	LVL 8 N Floor		occupancy					2/17/2015		Wipe	80 μg/ft2
			400 μg/ft2, clearance for					2/17/2015		W/ma	00
	LVL 8 E Floor		occupancy 400 μg/ft2, clearance for					2/17/2015		Wipe	90 μg/ft2
	LVL 8 Hand Rail		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

Planned - 430

								-			
		Requir	ement		Initial As	sesseme	ent	Verification			
	Location	OSHA - Air (Action	HUD - Wipe	Date of	Type of S	Sample	Initial	Verification Date	Type of	f Sample	Verification Result
		Level; Permissible	•	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Vermeation Result
œ	LVL 8 S Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	**
LEVEL			400 μg/ft2, clearance for								
LEV L	LVL 8 W Wall		occupancy 400 μg/ft2, clearance for					2/18/2015		Wipe	13 μg/ft2
	LVL 8 N Wall		occupancy					2/18/2015		Wipe	25 μg/ft2
	LVL 8 E Wall		400 μg/ft2, clearance for occupancy	C C		ation Car	mala	2/18/2015		Wipe	**
				50	ee Verifica	ation Sai	npie				
	LVL 8 Floor	30 µg/m3; 50 µg/m3	400 μg/ft2, clearance for					2/19/2015	8-hr Air		**
	LVL 8 to LVL 9 Landing		occupancy					2/19/2015		Wipe	16 μg/ft2
	Level 8 South Outside		800 μg/ft2, clearance for outside surfaces					2/27/2015		Wipe	1000 μg/ft2 (Recleaning)
			800 μ g/ft2, clearance for								
	Level 8 West Outside		outside surfaces 800 µg/ft2, clearance for					2/27/2015		Wipe	14 μg/ft2
	Level 8 North Outside		outside surfaces					2/27/2015		Wipe	160 μg/ft2
	Level 8 East Outside		800 μg/ft2, clearance for outside surfaces					2/27/2015		Wipe	23 μg/ft2
	Level 8 South Outside	800 μg/ft2, clearance for outside surfaces					3/6/2015; Resampled on 3/17/2015		Mine	2300 μg/ft2 (Recleaning)	
			800 μg/ft2, clearance for					5/1//2015		Wipe	(Necleaning)
	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 800 µg/ft2, clearance for	5/0/2015		wipe	1900 μg/ft2				
8.5	Level 8.5 North Outside		outside surfaces	3/6/2015		Wipe	(Recleaning)				
EL 8	Level 8.5 East Outside		800 μg/ft2, clearance for outside surfaces	3/6/2015		Wipe	340 μg/ft2				
LEVEL			800 μg/ft2, clearance for	3/6/2015		Wipe	140 μg/ft2				
	Level 8.5 South Outside		outside surfaces 800 µg/ft2, clearance for			-					
	Level 8.5 North Outside		outside surfaces	S	ee Verifica	ation Sar	mple	5/4/2015		Wipe	300 μg/ft2
			400 μg/ft2, clearance for					-			
	LVL 9, top of handrail		occupancy	2/13/2015		Wipe	**				
	LVL 9 E Floor		400 μg/ft2, clearance for 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 400 μg/ft2, clearance for	2/14/2015		Wipe	470 μg/ft2	Resampled on 2/17/2015		Wipe	250 μg/ft2
	LVL 9 W Floor		occupancy	2/14/2015		Wipe	880 μg/ft2	Resampled on 2/17/2015		Wipe	200 μg/ft2
	LVL 9 N Floor		400 μg/ft2, clearance for 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 400 μg/ft2, clearance for					2/17/2015		Wipe	250 μg/ft2
	LVL 9 W Floor		occupancy					2/17/2015		Wipe	200 μg/ft2

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

		Requir	ement		Initial As	sesseme	ent		Ver	ification	
	Location	OSHA - Air (Action	HUD - Wipe	Date of	Type of	-	Initial	Verification Date	<u> </u>	f Sample	Verification Result
		Level; Permissible	400 μg/ft2, clearance for	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	
	LVL 9 N Floor		occupancy					2/17/2015		Wipe	140 μg/ft2
			400 μg/ft2, clearance for							р	
	LVL 9 E Floor		occupancy		_		2/17/2015		Wipe	160 μg/ft2	
			400 μ g/ft2, clearance for					2/47/2045			**
	LVL 9 Hand Rail		occupancy 400 μg/ft2, clearance for					2/17/2015		Wipe	
	LVL 9 S Wall		occupancy					2/18/2015		Wipe	**
			400 μg/ft2, clearance for								
	LVL 9 W Wall		occupancy					2/18/2015		Wipe	**
			400 μ g/ft2, clearance for					2/18/2015			**
	LVL 9 N Wall		occupancy 400 μg/ft2, clearance for							Wipe	**
	LVL 9 E Wall		occupancy					2/18/2015		Wipe	**
6	LVL 9 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
E			400 μg/ft2, clearance for								
LEVEL	LVL 9 to LVL 10 Landing		occupancy 800 μg/ft2, clearance for					2/19/2015		Wipe	41 μg/ft2
_	Level 9 South Outside		outside surfaces					2/27/2015		Wipe	150 μg/ft2
										mpe	100 pB/ 102
			800 μ g/ft2, clearance for					2/27/2015; Resampled			1500 μg/ft2
	Level 9 South Outside		outside surfaces	5	ee Verific	ation Sai	mple	on 3/6/2015		Wipe	(Recleaning)
	Level 0 Couth Outside		800 μg/ft2, clearance for outside surfaces					2/27/2015		Mine	270 ug/ft2
	Level 9 South Outside		800 μg/ft2, clearance for					2/2//2015		Wipe	270 μg/ft2
	Level 9 West Outside		outside surfaces					2/27/2015		Wipe	420 μg/ft2
			800 µg/ft2, clearance for								
	Level 9 East Outside		outside surfaces					2/27/2015		Wipe	280 μg/ft2
	Lough O North Outside		800 μg/ft2, clearance for outside surfaces					2/27/2015		Wine	12 ug/#2
	Level 9 North Outside		outside surfaces					2/2//2015		Wipe	12 μg/ft2
			800 μg/ft2, clearance for					3/6/2015; Resampled on			960 μg/ft2
	Level 9 South Outside		outside surfaces					3/17/2015		Wipe	(Recleaning)
			800 μg/ft2, clearance for								
	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)
			800 μg/ft2, clearance for					5/17/2015		wipe	2000 μg/ft2
	Level 9 Southeast Outside		outside surfaces					3/17/2015		Wipe	(Recleaning)
		800 μg/ft2, clearance for			· · ·	1100 µg/ft2					
	Level 9 South Outside		outside surfaces					7/16/2015		Wipe	(Recleaning)
			800 μg/ft2, clearance for								1400 μg/ft2
	Level 9 South Outside		outside surfaces	4				8/20/2015		Wipe	(Recleaning)
	Level 9 South Outside		800 μg/ft2, clearance for outside surfaces					8/20/2015		Wipe	1500 μg/ft2 (Recleaning)
			800 μg/ft2, clearance for	1						wipe	(
	Level 9 South Outside		outside surfaces					8/21/2015		Wipe	400 μg/ft2
									A 777777777777777777777777777777777777	×	
			400 μg/ft2, clearance for	2/4/2015			210 /50				
	LVL 10 E Floor		occupancy	2/14/2015		Wipe	210 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 A
	Not Ap
	Compliant with
	Above Regulato

	• .•	Require	ement		Initial Assessement			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	
			400 μg/ft2, clearance for	2/11/2015		mpe	120 μ8/ 112				00 00/112	
	LVL 10 W Floor		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					
											500 μg/ft2;	
			400 μg/ft2, clearance for					2/17/2015;). Atting	Resample result	
	LVL 10 S Floor		occupancy 400 μg/ft2, clearance for					Resampled on 2/22/2015		Wipe	59 μg/ft2	
	LVL 10 W Floor		occupancy					2/17/2015		Wipe	82 μg/ft2	
	LVL 10 N Floor		400 μg/ft2, clearance for					2/17/2015		Wipe	72	
			occupancy 400 μg/ft2, clearance for					2/17/2015		wipe	72 μg/ft2	
	LVL 10 E Floor		occupancy					2/17/2015		Wipe	88 μg/ft2	
	LVL 10 Hand Rail		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	**	
			400 μg/ft2, clearance for					2/1//2015		wipe		
10	LVL 10 S Wall		occupancy					2/18/2015		Wipe	**	
LEVEL	LVL 10 W Wall		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	14 μg/ft2	
LE/			400 µg/ft2, clearance for								P.O	
	LVL 10 N Wall		occupancy					2/18/2015		Wipe	**	
	LVL 10 E Wall		400 μg/ft2, clearance for occupancy	S	ee Verifica	ation Sar	nnle	2/18/2015		Wipe	**	
							пріс			·		
	LVL 10 Floor	30 µg/m3; 50 µg/m3	400 μg/ft2, clearance for					2/19/2015	8-hr Air		**	
	LVL 10 Floor		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		**	
			800 μg/ft2, clearance for					2/27/2015			22	
	Level 10 West Outside		outside surfaces 800 µg/ft2, clearance for					2/27/2015		Wipe	23 μg/ft2	
	Level 10 South Outside		outside surfaces					2/27/2015		Wipe	230 μg/ft2	
	Level 10 North Outside		800 μg/ft2, clearance for outside surfaces					3/6/2015		\\//inc	120	
			outside suitaces					5/0/2015		Wipe	130 μg/ft2	
			400 μ g/ft2, clearance for					3/13/2015; Resampled			1900 μg/ft2; Resampled result	
	Level 10.5 Stairwell Landing B2 Interface Level 10 & 11	30 µg/m3; 50 µg/m3	occupancy					on 4/16/15 3/13/2015	8-hr Air	Wipe	330 μg/ft2 **	
	B2 Interface Level 10 & 11	30 μg/m3, 30 μg/m3						5/15/2015	o-III AII			
			400 $\mu g/ft2$, clearance for									
	LVL 11, top of handrail		occupancy 400 μg/ft2, clearance for	2/13/2015		Wipe	30 μg/ft2 820 μg/ft2					
	LVL 11 Final step		400 μg/π2, clearance for occupancy	2/13/2015		Wipe	(Recleaning)					
			400 µg/ft2, clearance for									
	LVL 11 Floor		occupancy 800 μg/ft2, clearance for	2/14/2015		Wipe	220 μg/ft2					
	Level 11 West Outside		outside surfaces					2/27/2015		Wipe	11 μg/ft2	
1				•								

Detection Limits

and Analytical Equipment

ot Applicable

t with Requirements

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	

Planned - 430

Total Samples Above Limits - 62

		Requir	rement		Initial As	sesseme	nt		1		
	Location	OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Air	Sample Wipe	Initial Assessment	Verification Date of Sample	Type of Air	Sample Wipe	Verification Result
	Level 11 South Outside		800 μg/ft2, clearance for outside surfaces					2/27/2015		Wipe	190 μg/ft2
	Level 11 East Outside		800 μg/ft2, clearance for outside surfaces					2/27/2015		Wipe	160 μg/ft2
	Level 11 North Outside		800 μg/ft2, clearance for 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
LEVEL 11	Level 11 Floor Behind Gate C1109		400 μg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/16/15		Wipe	3900 μg/ft2; Resampled result 150 μg/ft2
<u> </u>	Level 11 Floor Under GN Heater Panel		400 μg/ft2, clearance for occupancy	S	ee Verific	ation Sar	nple	3/30/2015; Resampled on 4/16/15		Wipe	920 μg/ft2; Resampled result 160 μg/ft2
	Level 11 Top of Light Fixture		400 μg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/16/15		Wipe	790 μg/ft2; Resampled result 280 μg/ft2
	Level 11 Horizontal Beam North Wall 3' High		400 μg/ft2, clearance for occupancy					3/30/2015		Wipe	300 μg/ft2
	Level 11 Floor in Front of C1103		400 μg/ft2, clearance for occupancy					3/30/2015		Wipe	210 μg/ft2
	Level 11 Floor near bathroom entrance		400 μg/ft2, clearance for occupancy					4/16/2015		Wipe	200 μg/ft2
	Level 11 stairwell handrail		400 μg/ft2, clearance for occupancy					4/16/2015		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
	LVL 12, Below LVL 13 Clean Room Entrance		400 μg/ft2, clearance for occupancy	2/5/2015		Wipe	41000.0 μg/ft2 (Recleaning)				
	LVL 12, Final Step		400 μg/ft2, clearance for occupancy	2/13/2015		Wipe	2200 μg/ft2 (Recleaning)				
	Level 12 0 ft Inside		400 μg/ft2, clearance for occupancy 400 μg/ft2, clearance for					3/6/2015		Wipe	570 μg/ft2 (Recleaning)
	Level 12 10 ft Inside		occupancy					3/7/2015		Wipe	31 µg/ft2
LEVEL 12	Level 12 Stairs		400 μg/ft2, clearance for occupancy	S	ee Verifica	ation Sar	nple	3/30/2015; Resampled on 4/21/15; Resampled on 4/24/15; Resampled on 4/29/15		Wipe	1200 μg/ft2; Resampled result 560 μg/ft2; Resampled result 610 μg/ft2; Resampled result 430 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

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		Initial As	sesseme	ent	Verification				
	Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type o	f 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/ft2, 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)				
			occupancy	2/3/2013		wipe	(neciculiing)				
			400 μg/ft2, clearance for				12000.0 μg/ft2				
	1)/1 12 2 ft outoide Clean Deam			2/5/2015		Wipe					
	LVL 13, 2 ft outside Clean Room	_	occupancy	2/5/2015		wipe	(Recleaning)				
			100 /50 1 5				500 0 /// D				
			400 μg/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 μg/ft2, clearance for								
	LVL 13, top of handrail		occupancy	2/13/2015		Wipe	120 μg/ft2				
			800 μg/ft2, clearance for								
	LVL 13 - Behind stouts on I-Beam		outside surfaces	2/13/2015		Wipe	80 μg/ft2				
			800 μg/ft2, clearance for								
	LVL 13 - Outside Elevator Buttons		outside surfaces	2/13/2015		Wipe	24 μg/ft2				
			400 μg/ft2, clearance for								
)	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
i			400 μg/ft2, clearance for								10,
	Level 13 20 ft		occupancy					3/8/2015		Wipe	130 μg/ft2
			400 μg/ft2, clearance for					0,0,000			
	Level 13 30 ft		occupancy					3/9/2015		Wipe	83 μg/ft2
			400 μg/ft2, clearance for					5/5/2015		mpe	00 µ8/10
	Level 13 Handrail Inside		occupancy					3/10/2015		Wipe	24 μg/ft2
			400 μg/ft2, clearance for					5/10/2015		Wipe	2-τ μβ/ττ2
	Level 13 Mid-rail Inside							3/11/2015		Wipe	22 ug/ft2
			occupancy					5/11/2015		wipe	33 μg/ft2
			400 μ g/ft2, clearance for					2/42/2045			
	Level 12 Clean Room Floor		occupancy					3/13/2015		Wipe	140 μg/ft2
			400 μg/ft2, clearance for	S S	ee Verific	ation Sa	nple				
	Level 13 Horizontal Shelf on Cage Door C1307		occupancy				•	3/30/2015		Wipe	160 μg/ft2
			400 μ g/ft2, clearance for								
	Level 13 Top of Guardrail Around Stair Landing		occupancy					3/30/2015		Wipe	33 μg/ft2
								1/21/2015, Descripted			040 ug/ft2. Posemulad result to
			100					4/21/2015; Resampled			940 μg/ft2; Resampled result 420
	Level 13 Stairs		400 μ g/ft2, clearance for					on 4/24/15; Resampled on 4/29/15		Wipe	μg/ft2; Resampled result 330 μg/ft2
	LL av val. 4 D. Charlos		occupancy						FURTHER CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT	a 147	

	Requir	ement		Initial As	sesseme	ent	Verification				
Location	OSHA - Air (Action		Date of	Type of S	Sample	Initial	Verification Date	Type of S	ample		
	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	
		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 μg/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		400 μg/π2, clearance for occupancy	2/5/2015		Wipe	(Recleaning)					
LVL 13, 8 ft outside Clean Room, Elevator Call Panel		400 μg/ft2, clearance for occupancy	2/5/2015		Wipe	**					
LVL 13, top of handrail		400 μg/ft2, 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					
LVL 13 - Outside Elevator Buttons		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	24 μg/ft2					
Level 13 0 ft		400 μg/ft2, clearance for occupancy			·		3/6/2015		Wipe	92 μg/ft2	
Level 13 10 ft		400 μg/ft2, clearance for 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		400 μg/ft2, clearance for occupancy					3/9/2015		Wipe	83 μg/ft2	
Level 13 Handrail Inside		400 μg/ft2, 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 occupancy					3/13/2015		Wipe	140 μg/ft2	
Level 13 Horizontal Shelf on Cage Door C1307		400 μg/ft2, clearance for occupancy	S	ee Verifica	ation Sa	mple	3/30/2015		Wipe	160 μg/ft2	
Level 13 Top of Guardrail Around Stair Landing		400 μg/ft2, clearance for 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											

Γ		Requir		Initial As	ssesseme	nt	Verification						
	Location	OSHA - Air (Action		Date of		Type of Sample		Type of Sample Initial		Verification Date	Type of	Sample	Verification Decult
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result		
			400 μg/ft2, clearance for			-							
L	evel 13 Stair Rail		occupancy					4/21/2015		Wipe	96 μg/ft2		
			400 μg/ft2, clearance for										
L	evel 13 Guard Rail		occupancy					4/21/2015		Wipe	59 μg/ft2		
			400 μg/ft2, clearance for										
L	evel 13 Light Fixture		occupancy					4/21/2015		Wipe	210 μg/ft2		

		400 μg/ft2, clearance for							
	11/1 14 top of bonducil	00000000	2/12/2015		14/:00	10			
	LVL 14, top of handrail	occupancy	2/13/2015		Wipe	49 μg/ft2			
		400 μg/ft2, clearance for							2900 μg/ft2
	Level 14 East Inside	occupancy					3/6/2015	Wipe	(Recleaning)
		400 μg/ft2, clearance for							930 μg/ft2
	Level 14 North Inside	occupancy					3/6/2015	Wipe	(Recleaning)
		400 μg/ft2, clearance for							450 μg/ft2
	Level 14 West Inside	occupancy					3/6/2015	Wipe	(Recleaning)
		400 μg/ft2, clearance for						· · ·	
		400 µg/112, clearance for							
	Level 14 South Inside	occupancy					3/6/2015	Wipe	270 μg/ft2
		· · ·						1	- 1-0/
14		400 μ g/ft2, clearance for							
	Level 14 Handrail	occupancy					3/6/2015	Wipe	24 μg/ft2
			4				3, 0, 2013		- 1 40/112
5		400 μg/ft2, clearance for					1		
LEVEL	Level 14 Mid-rail	occupancy					3/6/2015	Wipe	28 ug/ft2
				ee Verifica	ation Sau	mnlo	5/0/2015	wipe	28 μg/ft2
		400 μg/ft2, clearance for	ر _ا		ativii Jal	inhic	1		
	Loval 14 North Llandrail					-	2/20/2015	Mino	140
	Level 14 North Handrail	occupancy					3/30/2015	Wipe	140 μg/ft2
		400 μg/ft2, clearance for							
	Level 14 South Handrail	occupancy					3/30/2015	Wipe	21 µg/ft2
		400 μg/ft2, clearance for							
		400 µg/112, clearance 101							
	Level 14 Stairs	occupancy					4/20/2015	Wipe	98 μg/ft2
								· ·	10,
		400 μ g/ft2, clearance for							
	Level 14 Handrail	occupancy					4/20/2015	Wipe	160 μg/ft2
		400 μg/ft2, clearance for							
	Level 14 Guardrail	occupancy					4/20/2015	Wipe	34 μg/ft2
			4				., _ 0, _ 0 _ 0		0 · [~8/ ··-
		400 μg/ft2, clearance for							
	Level 14 Light Fixture	occupancy					4/20/2015	Wipe	66 μg/ft2
							1/20/2013	mpe	00 μ6/112
		400 μg/ft2, clearance for							
	LVL 15, Top of handrail	occupancy	2/13/2015		Wipe	510 μg/ft2			
		400 ug/ft2 classes for			•				
		400 μg/ft2, clearance for					1		
	Level 15 Mid-rail Inside	occupancy					3/6/2015	Wipe	40 μg/ft2
			1						
		400 μ g/ft2, clearance for							
	Level 15 North Inside	occupancy					3/6/2015	Wipe	2300 μg/ft2
			4				5,0/2015	wipe	2000 μg/π2
		400 μg/ft2, clearance for					1		
	Level 15 West Inside	occupancy					3/6/2015	Wipe	11000 μg/ft2
			4				5/0/2015	wipe	11000 μg/π2
		400 μg/ft2, clearance for					1		
		$\pm 00 \mu_{\rm B}/112$, cicarance for							
							2/0/2015	Minc	10000 /4+2
	Level 15 East Inside	occupancy	_				3/6/2015	Wipe	19000 μg/ft2
		 occupancy					3/6/2015	 Wipe	19000 μg/ft2
	Level 15 East Inside	occupancy 400 μg/ft2, clearance for	-					 	
		occupancy					3/6/2015 3/6/2015	Wipe Wipe	19000 μg/ft2 5700 μg/ft2
10	Level 15 East Inside	occupancy 400 μg/ft2, clearance for occupancy	-						
15	Level 15 East Inside Level 15 South Inside	 occupancy 400 µg/ft2, clearance for occupancy 400 µg/ft2, clearance for	-				3/6/2015	Wipe	5700 μg/ft2
.L 15	Level 15 East Inside	occupancy 400 μg/ft2, clearance for occupancy	-						

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

		Requir	Requirement			ssesseme	ent	Verification			
	Location	OSHA - Air (Action		Date of	Туре о	f Sample	Initial	Verification Date	e Type of	Sample	Marifiantian Desult
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
LEVE			400 μg/ft2, clearance for								
<u> </u>	Level 15 Mid-rail Inside		occupancy					3/6/2015		Wipe	35 μg/ft2
			400 μg/ft2, clearance for	C C	oo Vorifi	cation Sa	mnlo	3/30/2015			
	Level 15 Horizontal Beam North Wall		occupancy		See Verification Sample					Wipe	580 μg/ft2 (Recleaning)
			400 μg/ft2, clearance for								
	Level 15 South Handrail Mid-Rail		occupancy					3/30/2015		Wipe	1000 μg/ft2 (Recleaning)
			400 μg/ft2, clearance for					3/30/2015; Resampled			1600 μg/ft2; Resampled result
	Level 15 Floor 1/2 Stairwell Landing		occupancy					on 4/20/15		Wipe	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							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

		 <i>//</i>	-		
		400 μg/ft2, clearance for			
	LVL 16, Top of handrail	occupancy	2/13/2015		١
		400 μg/ft2, clearance for			
	LVL 16 Floor	occupancy	2/14/2015		١
		800 μg/ft2, clearance for			
	Level 16 Southeast Outside	outside surfaces	2/27/2015		١
		800 μg/ft2, clearance for			
	Level 16 Northeast Outside	outside surfaces	2/27/2015		١
		800 μg/ft2, clearance for			
	Level 16 Northwest Outside	outside surfaces	2/27/2015		١
		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			
LEVEL 16		400 μg/ft2, clearance for			
<pre>CE</pre>	Level 16 Horizontal Beam South 6' High	occupancy			
Ú J		400 μg/ft2, clearance for			
	Level 16 Guardrail Top-Rail Handrail	occupancy			
			5	ee Verifica	τις
		400 μg/ft2, clearance for			
	Level 16 Stairwell Second Step	occupancy			
	Level to stail well second step	occupancy	l		

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
			F -	
ation Sar	nple			
		3/30/2015; Resampled		1600 μg/ft2; Resampled result
		on 4/17/15; Resampled		2400 μg/ft2; Resampled result
		on 4/20/15; Resampled		630 μg/ft2; Resampled result 670
		on 4/21/15; Resampled		μg/ft2; Resampled result 260
		on 4/2/15;	Wipe	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 Deter
**	for Sampling and An
	Not App
	Compliant with
	Above Regulator

		Requir	ement		Initial As	sesseme	ent	Verification			
	Location	OSHA - Air (Action		Date of	Type of S	Type of Sample Initial		Verification Date Type of Sample			
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	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	3/6/2015		Wipe	320 μg/ft2				
	Level 17 West Inside		400 μg/ft2, clearance for occupancy	3/6/2015		Wipe	31 μg/ft2				
	Level 17 South Inside		400 μg/ft2, clearance for occupancy 400 μg/ft2, clearance for	3/6/2015		Wipe	350 μg/ft2				
	Level 17 Mid-rail Inside		occupancy 400 μg/ft2, clearance for	3/6/2015		Wipe	52 μg/ft2				
	Level 17 Handrail		occupancy	3/6/2015		Wipe	**				
	Level 17 Top of Transformer 001374		400 μg/ft2, clearance for occupancy					3/30/2015		Wipe	71 μg/ft2
	Level 17 Horizontal Beam, Northeast Corner		400 μg/ft2, clearance for occupancy					3/30/2015		Wipe	220 μg/ft2
LEVEL 17	Level 17 Top of Cable Tray, by Elevator		400 μg/ft2, clearance for occupancy					3/30/2015; Resampled on 4/23/2015; Resampled on 4/27/2015		Wipe	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	ation 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/ft2, clearance for occupancy					4/23/2015		Wipe	74 μg/ft2

LVL 18, Top of ha	andrail	400 μg/ft2, clearance for occupancy	2/13/2015	Wipe	**			
Level 18 South Ir	nside	400 μg/ft2, clearance for occupancy				3/6/2015	Wipe	55 μg/ft2

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						

Total Samples Taken - 549

Approximate Number of Samples

Planned - 430

		Requir	rement		Initial As	sesseme	ent	Verification				
	Location	OSHA - Air (Action		Date of	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									
	Level 18 West Inside		occupancy					3/6/2015		Wipe	110 μg/ft2	
			400 μ g/ft2, clearance for								490 μg/ft2	
	Level 18 North Inside		occupancy					3/6/2015		Wipe	(Recleaning)	
			400 μg/ft2, clearance for								510 μg/ft2	
	Level 18 East Inside		occupancy					3/6/2015		Wipe	(Recleaning)	
			400 μg/ft2, clearance for									
	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	Level 18 Top of Electrical Panel LP-117		400 μg/ft2, clearance for occupancy	S	ee Verific	ation Sai	mple	3/30/2015; Resampled on 4/23/2015; Resampled on 4/27/15; Resampled on 4/29/15		Wipe	3300 μg/ft2; Resampled result 1100 μg/ft2; Resampled result 550 μg/ft2; Resampled result 22 μg/ft2	
			400 μg/ft2, clearance for									
	Level 18 Diagonal Beam, Southwest corner		occupancy					3/30/2015		Wipe	31 μg/ft2	
			400 μg/ft2, clearance for									
	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	
			400 μ g/ft2, clearance for					1/22/2015			210	
	Level 18 Stairs		occupancy					4/23/2015		Wipe	210 μg/ft2	
			400 μ g/ft2, clearance for					1/22/2015			77	
	Level 18 Stairs Rail		occupancy 400 μg/ft2, clearance for					4/23/2015		Wipe	77 μg/ft2	
	Level 18 Guard Rail		400 μg/π2, clearance for occupancy					4/23/2015		Wing	100 μg/ft2	
			occupancy					4/23/2013		Wipe	100 μg/π2	
			100	1			400					
	Loval 10 South Incide		400 μg/ft2, clearance for	2/6/2015		Mino	400 μg/ft2 (Recleaning)					
	Level 19 South Inside		occupancy	3/6/2015		Wipe	(Recleaning)					
	Loval 10 Fact Inside		400 μ g/ft2, clearance for	2/6/2015		14/2-2	70					
	Level 19 East Inside		occupancy	3/6/2015		Wipe	79 μg/ft2					
			400 μ g/ft2, clearance for				200 /0.2					
	Level 19 South Inside		occupancy	3/6/2015		Wipe	260 μg/ft2					

	400 μg/ft2, clearance for			400 μg/ft2			
Level 19 South Inside	occupancy	3/6/2015	Wipe	(Recleaning)			
	400 μg/ft2, clearance for						
Level 19 East Inside	occupancy	3/6/2015	Wipe	79 μg/ft2			
	400 μg/ft2, clearance for						
Level 19 South Inside	occupancy	3/6/2015	Wipe	260 μg/ft2			
	400 μg/ft2, clearance for						
Level 19 East Inside	occupancy	3/6/2015	Wipe	120 μg/ft2			
	400 μg/ft2, clearance for						
Level 19 Handrail Inside	occupancy	3/6/2015	Wipe	90 μg/ft2			
	400 μg/ft2, clearance for						
Level 19 Mid-rail Inside	occupancy	3/6/2015	Wipe	40 μg/ft2			
	400 μg/ft2, clearance for				3/30/2015; Resampled		1600 µg/ft2; Resampled result 49
Level 19 Floor, Diamond Plate, Top of Stairs	occupancy				on 4/23/2015	Wipe	μg/ft2
	400 μg/ft2, clearance for	1					
Level 19 Tabletop in Room C904	occupancy				3/30/2015	Wipe	100 μg/ft2

	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

		Requi	rement		Initial As	sesseme	ent		Veri	ification	1
	Location	OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Air	Sample Wipe	Initial Assessment	Verification Date of Sample	Type of Air	Sample 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		-	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 400 μg/ft2, clearance for	S	ee Verific	ation Sai	mple	3/30/2015		Wipe	39 μg/ft2
	Level 19 Guardrail, Top Rail		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					3/30/2015; Resampled on 4/23/2015		Wipe	1200 μg/ft2; Resampled result 240 μg/ft2
	Level 19 Guardrail		400 μg/ft2, clearance for occupancy					4/23/2015		Wipe	150 μg/ft2
	Level 20 North Outside		800 μg/ft2, clearance for outside surfaces	3/6/2015		Wipe	170 ug/ft2				
	Level 20 West Outside		800 μg/ft2, clearance for outside surfaces	3/6/2015		Wipe	170 μg/ft2 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	3/6/2015		Wipe	230 μg/ft2				
LEVEL	Level 20 SW Corner Outside		800 μg/ft2, clearance for outside surfaces					4/23/2015			170 µg/ft2
	Level 20 E Side Outside		800 μg/ft2, clearance for outside surfaces 800 μg/ft2, clearance for	S	ee Verific	ation Sai	mple	4/23/2015			210 μg/ft2
	Level 20 SE Side Outside		outside surfaces 800 µg/ft2, clearance for	-				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
			400 μg/ft2, clearance for								
	West Elevator, Call Panel		occupancy 400 μg/ft2, clearance for	2/5/2015		Wipe	320.0 μg/ft2				26 μg/ft2
R	West Elevator button panel		occupancy 400 µg/ft2, clearance for	2/13/2015		Wipe	**				99 μg/ft2
VATO	W Pier Elevator Access Wall		occupancy	2/14/2015 Wipe 18 μg/ft2							
	West Elevator North Walll		400 μg/ft2, clearance for occupancy					2/17/2015		Wipe	120 μg/ft2
NEST	West Elevator West Walll		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

						regulatory he	44	1			
		Requir	rement		Initial As	ssesseme	nt		Ver	ification	
	Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of	f Sample	Marifiantian Deput
		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	**
			400 μg/ft2, clearance for	C.	oo Vorifia	ation for	mnlo				
	West Elevator Door		occupancy 400 μg/ft2, clearance for	3	ee Verific	aliun sai	npie	2/17/2015		Wipe	**
	West Elevator Floor		occupancy					2/17/2015		Wipe	**
	West Elevator button panel		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	120 μg/ft2
	West Elevator Floor		400 μg/ft2, clearance for					2/18/2015			
	West Elevator Floor		occupancy					2/10/2013		Wipe	15 μg/ft2 85 μg/ft2
			400 μ g/ft2, clearance for								
	East Elevator Floor		occupancy	2/13/2015		Wipe	940 μg/ft2	Resampled on 2/17/2015		Wipe	Using exterior clearance standard
			400 μ g/ft2, clearance for								instead of interior clearance
	East Elevator North Wall		occupancy					2/17/2015		Wipe	standard Using exterior clearance standard
0R			400 μg/ft2, clearance for								instead of interior clearance
ELEVATOR	East Elevator East Wall		occupancy 400 μg/ft2, clearance for					2/17/2015		Wipe	standard
ELE	East Elevator South Wall		occupancy	C.	oo Vorifia	ation Sar	mala	2/17/2015		Wipe	460 μg/ft2
EAST	East Elevator Door		400 μg/ft2, clearance for occupancy	5	ee Verific	alion Sai	lible	2/17/2015		Wipe	16 μg/ft2
ш	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	
			400 μg/ft2, clearance for								
	East Elevator Floor		occupancy					2/18/2015		Wipe	
			800 μg/ft2, clearance for								
Z O M	Construction Elevator Floor		outside surfaces	2/14/2015		Wipe	500 μg/ft2				
CONSTRUCTION ELEVATOR	Construction Elevator Wall		800 μg/ft2, clearance for outside surfaces	2/14/2015		Wipe	15 μg/ft2				
EVA			800 μg/ft2, clearance for		************************	<u> </u>					
EL	Level 10 Elevator Floor		outside surfaces 800 μg/ft2, clearance for	S	ee Verific	ation Sar	nple	3/6/2015		Wipe	
Ŭ	Level 10 Elevator Wall		outside surfaces				•	3/6/2015		Wipe	
										A	
	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 North Side, 50 ft N of smoke pen	30 µg/m3; 50 µg/m3 30 µg/m3; 50 µg/m3		2/13/2015 2/13/2015	2 hr Partial Air 2 hr Partial Air		**				**
	North Side - 20 ft North of Smoke pen	30 μg/m3; 50 μg/m3 30 μg/m3; 50 μg/m3		2/13/2015	Air - 6 Hr		**				**
			800 μg/ft2, clearance for								
	NORTH - 50 ft from Containment		outside surfaces 800 μg/ft2, clearance for	2/13/2015		Wipe	76 μg/ft2				**
	NORTH - 50 ft from Containment -2		outside surfaces	2/13/2015		Wipe	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	**				**

		Require	ement		Initial As	sesseme	nt		Veri	ificatior	1
	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								
	West Elevator South Walll		occupancy					2/17/2015		Wipe	**
	West Elevator Door		400 μg/ft2, clearance for occupancy	S	ee Verifica	ation San	nple	2/17/2015		Wipe	**
			400 μg/ft2, clearance for	_				2/17/2015		wipe	
	West Elevator Floor		occupancy					2/17/2015		Wipe	**
			400 μ g/ft2, clearance for								
	West Elevator button panel		occupancy 400 μg/ft2, clearance for					2/18/2015		Wipe	120 μg/ft2
	West Elevator Floor		occupancy					2/18/2015		Wipe	15 μg/ft2
			••••••					_/ _0/ _0 _0		Wipe	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	
											Using exterior clearance standard
	East Elevator North Wall		400 μg/ft2, clearance for					2/17/2015		Wipe	instead of interior clearance standard
			occupancy					2/17/2013		vvipe	Using exterior clearance standard
OR			400 μg/ft2, clearance for								instead of interior clearance
AT	East Elevator East Wall		occupancy					2/17/2015		Wipe	standard
ELEVATOR			400 μ g/ft2, clearance for								
	East Elevator South Wall		occupancy 400 μg/ft2, clearance for	S	ee Verifica	ation San	nple	2/17/2015		Wipe	460 μg/ft2
EAST	East Elevator Door		occupancy					2/17/2015		Wipe	16 μg/ft2
L L L			400 μg/ft2, clearance for							1° -	
	East Elevator Floor		occupancy					2/17/2015		Wipe	
			400 μ g/ft2, clearance for								
	East Elevator button panel		occupancy 400 μg/ft2, clearance for					2/18/2015		Wipe	
	East Elevator Floor		occupancy					2/18/2015		Wipe	
										a	
			800 μg/ft2, clearance for								
TION	Construction Elevator Floor		outside surfaces	2/14/2015		Wipe	500 μg/ft2				
OR			800 μ g/ft2, clearance for								
STRUCTIC EVATOR	Construction Elevator Wall		outside surfaces	2/14/2015		Wipe	15 μg/ft2				
NST	Level 10 Elevator Floor		800 μg/ft2, clearance for outside surfaces					3/6/2015		Wipe	
ш СО СО			800 μg/ft2, clearance for	S	ee Verifica	ation San	nple	5/0/2015		mpe	
0	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 North Side, 50 ft N of smoke pen	30 µg/m3; 50 µg/m3 30 µg/m3; 50 µg/m3		2/13/2015 2/13/2015	2 hr Partial Air 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				**
	NORTH FO ft from Containment 2		800 μg/ft2, clearance for	2/12/201F			16 16+2				**
	NORTH - 50 ft from Containment -2		outside surfaces 800 µg/ft2, clearance for	2/13/2015		Wipe	46 μg/ft2				
	NORTH - 50 ft from Containment -3		outside surfaces	2/13/2015		Wipe	82 μg/ft2				**
			800 µg/ft2, clearance for								
	NORTH - 100 ft from Contaiment Porta-Potty		outside surfaces	2/13/2015		Wipe	**				**

		Requir	ement		Initial As	ssesseme	nt		Ver	ification	
	Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of	f Sample	
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
			400 μ g/ft2, clearance for		-						
	West Elevator South Walll		occupancy 400 μg/ft2, clearance for				_	2/17/2015		Wipe	**
	West Elevator Door		occupancy	S	ee Verific	ation Sar	nple	2/17/2015		Wipe	**
			400 μg/ft2, clearance for				•				
	West Elevator Floor		occupancy					2/17/2015		Wipe	**
	West Elevator button panel		400 μg/ft2, clearance for occupancy					2/18/2015		Wipe	120 μg/ft2
			400 μg/ft2, clearance for					2/10/2013		wipe	120 μg/π2
	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	
			occupancy	2/13/2013		wipe	940 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
Ř			400 μg/ft2, clearance for								Using exterior clearance standard instead of interior clearance
ντο	East Elevator East Wall		occupancy					2/17/2015		Wipe	standard
ELEVATOR			400 μg/ft2, clearance for							F -	
ELI	East Elevator South Wall		occupancy	S	ee Verific	ation Sar	nnle	2/17/2015		Wipe	460 μg/ft2
AST	East Elevator Door		400 μg/ft2, clearance for occupancy				iipic	2/17/2015		Wipe	16 μg/ft2
Ш			400 μg/ft2, clearance for							Wipe	10 µ6/112
	East Elevator Floor		occupancy					2/17/2015		Wipe	
			400 μ g/ft2, clearance for					2/40/2045			
	East Elevator button panel		occupancy 400 μg/ft2, clearance for					2/18/2015		Wipe	
	East Elevator Floor		occupancy					2/18/2015		Wipe	
	•		-					-			
_			800 μg/ft2, clearance for								
	Construction Elevator Floor		outside surfaces	2/14/2015		Wipe	500 μg/ft2				
NSTRUCTIO	Construction Elevator Wall		800 μg/ft2, clearance for outside surfaces	2/14/2015		Wipe	15 μg/ft2				
VA			$800 \mu\text{g/ft2}$, clearance for	2/14/2013		wipe	15 µg/112				
CONSTRUCTION ELEVATOR	Level 10 Elevator Floor		outside surfaces	S	ee Verific	ation Sar	nnlo	3/6/2015		Wipe	
8			800 μ g/ft2, clearance for	5	ee verme	ation Sai	lihie				
	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	800 μg/ft2, clearance for	2/13/2015	Air - 6 Hr		**				**
	NORTH - 50 ft from Containment		outside surfaces	2/13/2015		Wipe	76 μg/ft2				**
			800 μg/ft2, clearance for								
	NORTH - 50 ft from Containment -2		outside surfaces	2/13/2015		Wipe	46 μg/ft2				**
	NORTH - 50 ft from Containment -3		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	82 μg/ft2				**
			800 μg/ft2, clearance for	-, 10, 2013		mpe	ος με/πε				
	NORTH - 100 ft from Contaiment Porta-Potty		outside surfaces	2/13/2015		Wipe	**				**

		Requir	rement		Initial A	ssesseme	nt		Ver	ification	Ì
	Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of	f Sample	
		Level; Permissible	HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
-			400 μg/ft2, clearance for					2/17/2015			**
	West Elevator South Wall		occupancy 400 μg/ft2, clearance for					2/17/2015		Wipe	Τ Τ
	West Elevator Door		occupancy	S	ee Veritio	ation Sar	nple	2/17/2015		Wipe	**
			400 μ g/ft2, clearance for					2/47/2015			**
	West Elevator Floor		occupancy 400 μg/ft2, clearance for					2/17/2015		Wipe	
	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 85 μg/ft2
			400 μg/ft2, clearance for								ου μg/π2
	East Elevator Floor		occupancy	2/13/2015		Wipe	940 μg/ft2	Resampled on 2/17/2015		Wipe	
											Using exterior clearance stan
			400 μg/ft2, clearance for								instead of interior clearan
	East Elevator North Wall		occupancy					2/17/2015		Wipe	standard Using exterior clearance stan
TOR			400 μg/ft2, clearance for								instead of interior clearance
АТС	East Elevator East Wall					2/17/2015		Wipe	standard		
ELEV			400 μg/ft2, clearance for								
	East Elevator South Wall		occupancy 400 μg/ft2, clearance for	S	ee Verific	ation Sar	nnle	2/17/2015		Wipe	460 μg/ft2
EAST	East Elevator Door		400 μg/itz, clearance for occupancy				inpre	2/17/2015		Wipe	16 μg/ft2
Ē			400 μg/ft2, clearance for					_/ _ / _ = = = = = = = = = = = = = = = =		mpe	10 μβ/ ττ2
	East Elevator Floor		occupancy					2/17/2015		Wipe	
			400 μg/ft2, clearance for								
	East Elevator button panel		occupancy 400 μg/ft2, clearance for					2/18/2015		Wipe	
	East Elevator Floor		occupancy					2/18/2015		Wipe	
	ł									a '	
			800 μg/ft2, clearance for								
NO	Construction Elevator Floor		outside surfaces	2/14/2015		Wipe	500 μg/ft2				
OR OR			800 μg/ft2, clearance for								
AT AT	Construction Elevator Wall		outside surfaces	2/14/2015		Wipe	15 μg/ft2				
)NSTRUCTION ELEVATOR	Level 10 Elevator Floor		800 μg/ft2, clearance for outside surfaces					3/6/2015		Wipe	
ECON			800 μg/ft2, clearance for	S	ee Verific	ation Sar	nple	5/0/2015		Wipe	
0	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 North Side, 50 ft N of smoke pen	30 µg/m3; 50 µg/m3 30 µg/m3; 50 µg/m3		2/13/2015 2/13/2015	2 hr Partial Air 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 μ g/ft2, clearance for	2/42/2017			10 IS -				**
	NORTH - 50 ft from Containment -2		outside surfaces 800 μg/ft2, clearance for	2/13/2015		Wipe	46 μg/ft2				**
	NORTH - 50 ft from Containment -3		outside surfaces	2/13/2015		Wipe	82 μg/ft2				**
			800 μg/ft2, clearance for			F -					
	NORTH - 100 ft from Contaiment Porta-Potty		outside surfaces	2/13/2015		Wipe	**			XIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	**

	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

								1			
		Requi	rement		Initial As	sesseme	nt		Ver	ification	
	Location	OSHA - Air (Action Level; Permissible	HUD-Wibe	Date of Sample	Type of Air	Sample Wipe	Initial Assessment	Verification Date of Sample	Type of Air	Sample 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	- /			**
ĸ	NORTH - 10 ft from Stand NORTH - 10 ft from Stand							2/17/2015 2/17/2015	8 hr Air 8 hr Air		** 39 μg/ft2
RIO	NORTH - 50 ft from Stand NORTH - 50 ft from Stand	30 µg/m3; 50 µg/m3 30 µg/m3; 50 µg/m3						2/17/2015 2/17/2015	8hr Air 8hr Air		19 μg/ft2 41 μg/ft2
H EXTERIO	NORTH - 10 ft from Stand	00 P0/110/00 P0/110	800 μg/ft2, clearance for outside surfaces					2/18/2015	8 hr Air		190 μg/ft2
NORTH	NORTH - 50 ft from Stand		800 μg/ft2, 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		
	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	
	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	
	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
		30 μβ/113, 30 μβ/113	800 μg/ft2, clearance for	2/13/2013							21 μg/π2
	SOUTH Porta Potty top		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	**				**
	SOUTH - 50 Ft from Containment - 2		800 μg/ft2, clearance for outside surfaces	2/13/2015 Wipe **						**	
	SOUTH - 50 Ft from Containment - 3		800 μg/ft2, clearance for 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	**

		Requireme	ent		Initial As	sesseme	nt		Veri	fication	
	Location	OSHA - Air (Action		Date of	Type of	Sample	Initial	Verification Date	Type of	Sample	
		Level; Permissible	JD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
	NORTH - 100 ft from Contaiment Porta-Potty-2		ft2, clearance for side surfaces	2/13/2015		Wipe	97 μg/ft2				**
	<u>_</u>	800 μg/	ft2, clearance for								**
	NORTH - 100 ft from Contaiment Porta-Potty-3 NORTH - 10 ft from Stand	ой 30 µg/m3; 50 µg/m3	side surfaces	2/13/2015		Wipe	67 μg/ft2	2/17/2015	8 hr Air		**
• 1	NORTH - 10 ft from Stand	30 µg/m3; 50 µg/m3						2/17/2015	8 hr Air		39 μg/ft2
O	NORTH - 50 ft from Stand	30 µg/m3; 50 µg/m3						2/17/2015	8hr Air		19 μg/ft2
ERI	NORTH - 50 ft from Stand	30 µg/m3; 50 µg/m3						2/17/2015	8hr Air		41 μg/ft2
NORTH EXTERIOR		800 μg/	ft2, clearance for side surfaces								
H	NORTH - 10 ft from Stand		ft2, clearance for					2/18/2015	8 hr Air		190 μg/ft2
NOR	NORTH - 50 ft from Stand		side surfaces ft2, clearance for					2/18/2015	8 hr Air		**
_	NORTH - 100 ft from Stand	out	side surfaces					2/18/2015	8hr Air		66 μg/ft2
	NORTH - 100 ft from Stand	out	ft2, clearance for side surfaces					2/18/2015	8hr Air		
	NORTH - 100 ft from Stand	out	ft2, clearance for side surfaces	Se	ee Verific	ation Sar	nple	2/18/2015	8hr Air		
	NORTH - 0' from stand	out	ft2, clearance for side surfaces					2/17/2015		Wipe	
	NORTH - 20' from stand	out	ft2, clearance for side surfaces					2/17/2015		Wipe	
	NORTH - 0' from stand	out	ft2, clearance for side surfaces					2/17/2015		Wipe	
	NORTH - 20' from stand		ft2, clearance for side surfaces					2/17/2015		Wipe	
	NORTH - 0' from stand	out	ft2, clearance for side surfaces					2/17/2015		Wipe	
	NORTH - 20' from stand		ft2, clearance for side 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 South Side - 75 ft from south entrance	30 µg/m3; 50 µg/m3 30 µg/m3; 50 µg/m3		2/13/2015 2/13/2015	2 hr Partial Air 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
		800 μg/	ft2, clearance for				**				**
	SOUTH Porta Potty top	01/11/11/11/11/11/11/11/11/11/11/11/11/1	side surfaces ft2, clearance for	2/13/2015		Wipe	**				**
	SOUTH - 100 ft from Containment		side surfaces ft2, clearance for	2/13/2015		Wipe	140 μg/ft2				**
	SOUTH - 50 Ft from Containment	out	side surfaces	2/13/2015		Wipe	**				**
	SOUTH - 50 Ft from Containment - 2	out	ft2, clearance for side surfaces	2/13/2015		Wipe	**				**
	SOUTH - 50 Ft from Containment - 3	out	ft2, clearance for side surfaces	2/13/2015		Wipe	68 μg/ft2				**
	SOUTH- 100 ft from Containment - 2		ft2, clearance for side surfaces	2/13/2015		Wipe	74 μg/ft2				**
	SOUTH- 100 ft from Containment - 3		ft2, clearance for side surfaces	2/13/2015		Wipe	470 μg/ft2				**
	SOUTH - 0-10 ft from containment pt - Generator	800 μg/	ft2, clearance for side surfaces	2/13/2015		Wipe	890 μg/ft2	Resampled on 2/24/2015	5	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

		Initial As	sesseme	ent		Verification				
Location	OSHA - Air (Action Level; Permissible	HUD - Wibe	Date of Sample	Type of Air	Sample Wipe	Initial Assessment	Verification Date of Sample	Type of Air	f Sample Wipe	Verification Result
 10 ft South Side	30 µg/m3; 50 µg/m3		Jampie		wipe	Assessment	2/24/2015	Air	wipe	**
10 ft South Side	30 μg/m3; 50 μg/m3						2/24/2015	Air		21 μg/ft2
10 ft South Side							2/24/2015	Air		<u>21 μg/πz</u> **
50 ft South Side	h Side 30 μg/m3; 50 μg/m3			2/24/2015	Air		60 μg/ft2			
50 ft South Side	30 μg/m3; 50 μg/m3						2/24/2015	Air		**
50 ft South Side	30 μg/m3; 50 μg/m3						2/24/2015	Air		200 μg/ft2
100 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air		**
100 ft South Side	30 μg/m3; 50 μg/m3						2/24/2015	Air		33 μg/ft2
100 ft South Side	30 μg/m3; 50 μg/m3						2/24/2015	Air		**
	30 µg/113, 30 µg/113	800 μg/ft2, clearance for	2							
South Outside Generator		outside surfaces					2/24/2015		Wipe	**
		800 μg/ft2, clearance for	-				2/24/2015		wipe	
South Outside lift equipment		outside surfaces					2/24/2015		Wipe	15 μg/ft2
		800 μg/ft2, clearance for							Wipe	13 μg/ π2
South outside sample panel		outside surfaces					2/24/2015		Wipe	130 µg/ft2
		800 μg/ft2, clearance for	-						wipe	150 μβ/112
South outside light tower		outside surfaces		ee Verific	ation Sa	mnlo	2/24/2015		Wipe	28 μg/ft2
		800 μg/ft2, clearance for	- J	ee vernic	ation Sa	inple			mpe	20 μβ/ 112
South outside VJ 134 Panel		outside surfaces					2/24/2015		Wipe	
		800 μg/ft2, clearance for	-						wipe	
South outside small grape		outside surfaces					2/24/2015		Wino	
South outside small crane							2/24/2015		Wipe	
Couth outside fooding wine		800 μg/ft2, clearance for outside surfaces					2/24/2015		14/5-2	15
South outside feeding pipe			-				2/24/2015		Wipe	15 μg/ft2
Courth outside large graps		800 μg/ft2, clearance for outside surfaces					2/24/2015		M/in a	20
South outside large crane		800 μg/ft2, clearance for	-				2/24/2015		Wipe	29 μg/ft2
South outside 470 Machine		outside surfaces					2/24/2015		Wipe	12 ug/ft2
		800 μg/ft2, clearance for	-				2/24/2013		wipe	12 μg/ft2
South outside Volvo Machine		outside surfaces					2/24/2015		Wipe	29 ug/ft2
		800 μg/ft2, clearance for					2/24/2015		wipe	38 μg/ft2
South outside light pole		outside surfaces					2/24/2015		Wipe	25 μg/ft2
		800 μg/ft2, clearance for					2/24/2013		wipe	25 μg/π2
South dumpster		outside surfaces					2/24/2015		Wipe	37 μg/ft2
south dumpster									Wipe	39 μg/ft2
		800 μg/ft2, clearance for								33 μβ/ττ2
WEST Porta Potty top		outside surfaces	2/13/2015		Wipe	**				18 μg/ft2
		800 μg/ft2, clearance for	2/15/2015		Wipe					10 µg/ 112
West outside parking bumper #1		outside surfaces					2/24/2015		Wipe	**
		800 μg/ft2, clearance for							wipe	
West outside parking bumper #2		outside surfaces					2/24/2015		Wipe	
West outside parking bumper #2		800 μg/ft2, clearance for	-						wipe	
West outside blue bin		outside surfaces					2/24/2015		Wipe	
		800 μg/ft2, clearance for	-				2/24/2015		wipe	
Wast outside light plant		outside surfaces					2/24/2015		Wipe	
West outside light plant		800 μg/ft2, clearance for			•		2/24/2013		wipe	
West outside parking stripe #1		outside surfaces	S	ee Verific	ation Se	ction	2/24/2015		Wipe	
West outside parking stripe #1		800 μg/ft2, clearance for				2/24/2013		wipe		
West outside parking stripe #2		outside surfaces					2/24/2015		Wipe	
יייבאר סענאועב אמראווא אנוואָב אב		800 μg/ft2, clearance for	1				2/24/2013		wihe	
West outside parking stripe #3		outside surfaces					2/24/2015		Wipe	
		800 μg/ft2, clearance for	1				2/24/2013		wipe	
West outside parking stripe #4		outside surfaces				2/24/2015		Wipe		
West outside parking stripe #4		outside sui idles	J				2/24/2013		vvipe	

Data as of August 18th, 2	2015
Total Samples Taken - S	549
Approximate Number of Sa Planned - 430	mples
Total Samples Above Limi	ts - 62

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

	Total Samples Above Limits - 62				Compi	ant with Req	urements				
		-			Above R	egulatory Re	quirements				
		Requirement		Initial Assessement			Verification				
		OSHA - Air (Action		Date of	e of Type of Sample		Initial	Verification Date	e Type of Sample		Varification Decult
		Level; Permissible	e HUD - Wipe	Sample	Air	Wipe	Assessment	of Sample	Air	Wipe	Verification Result
			800 μg/ft2, clearance for			-					
	West generator		outside surfaces					2/24/2015		Wipe	
EAST EXTERIOR	5 (800 μ g/ft2, clearance for	2/24/2015			11 15:2				
	East fan		outside surfaces	2/24/2015		Wipe	41 μg/ft2				
	East Orange Machine		800 μg/ft2, clearance for outside surfaces	2/24/2015		Wipe	49 μg/ft2				
			800 μg/ft2, clearance for	2/2 1/2013		wipe	+3 μβ/τι2				
	East Dock Wall #3		outside surfaces	2/24/2015		Wipe	19 µg/ft2				
			800 μg/ft2, clearance for								
	East Dock Wall #2		outside surfaces	2/24/2015		Wipe	17 μg/ft2				
			800 μg/ft2, clearance for								
	East Light Pole		outside surfaces	2/24/2015		Wipe	49 μg/ft2				
			800 μ g/ft2, clearance for	2/24/2015							
	East Rail		outside surfaces	2/24/2015		Wipe	86 μg/ft2				