DATA CHEM LABORATORIES, INC.

ANALYTICAL REPORT

Report Date MAR 19 2007

(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)
DCL Project Manager: (b)(4)

Analytical Results

Sample ID 2042-2007-001 Media Paint Chip
Lab ID 7075030001 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.
This test report shall not be reproduced, except in full, without written approval of DataChem Laboratories, Inc.

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.

1727/1992/2

MSS

7075030

Mississippi Space Services
Building 2104
John C. Stennis Space Center, MS 39529-6000

-CHAIN OF CUSTODY-

7075030

Mississippi Space Services
Building 2104
John C. Stennis Space Center, MS 39529

MSS Contact: (b)(4)

MSS Phone: (b)(4)

MSS Fax: 228-688-1326

Laboratory: DataChem Laboratories

Laboratory Address: 960 West LeVoy Drive,Salt Lake City, UT 84123

Laboratory Phone: 800-356-9135

MSS Project Number: 2042-2007

Turn Around Time: 24 Hours

MSS Sample Number	Analysis Requested	Sample Volume	Units of Result Requested
2042-2007-001	Lead Content	Paint Chips/	

Relinquished By: (b)(4) Date: 3/15/07 Time: 12 NN

Shipped By: Date: Time:

Received By: (b)(4) Date: 3/16/07 Time: 1000

EMSL Analytical
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4300 Fax: (856) 853-9551 Email: westmontleadlab@emsl.com

Attn: (b)(4)
Jacobs FOSC Group
Building 2108
Stennis Space Center
Diamondhead, MS 39529
Fax: (228) 688-3368 Phone: (b)(4)
Project: **3152-2008-0**

Customer ID: JCWS50
Customer PO:
Received: 11/20/08 10:35 AM
EMSL Order: (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
	paint chip samples			

(b)(4)
(b)(4) Lead Lab Supervisor
or other approved signatory

Reporting limit is 0.01 % wt. 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

Date Printed: 11/20/2008 4:14:44 PM
ChmSnglePrm/nQC

EMSL

107 Haddon Avenue, Westmont, New Jersey 08108 1-800-220-3675 http://www.emsl.com

EMSL ANALYTICAL, Inc. CHAIN OF CUSTODY

EMSL Rep:

Third Party Billing requires written authorization from third party

Your Name: (b)(4)
Company:
Street: Stennis Space Center
Box #: Bldg 2104
City/State: **Zip** 39520

EMSL-Bill to: Same
Street:
Box #:
City/State: **Zip**

Phone Results to: (b)(4)
Name:
Telephone #: (b)(4)

Fax Results to: (b)(4)
Name:
Fax #: 228-688-1326 (b)(4)

Project Name/Number: 3152-2008-0

Purchase Order #:

TURNAROUND TIME

☐ 3 Hours	☐ 6 Hours	☐ 12 Hours	☒ 24 Hours	☐ 48 Hours	☐ 72 Hours	☐ 4 Days	☐ 5 Days	☐ 6-10 Days

SAMPLE MATRIX

☐ Air	☒ Bulk	☐ Soil	☐ Wipe	☐ Micro-Vac	☐ Drinking Water	☐ Wastewater	☐ Chips	☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☐ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2

OTHER:

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420☐ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☒ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐ Wipe, SW846-6010☐ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitrous Fibers - MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate count & id
- ☐ Bacterial Count and Gram Stain
- ☐ Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:

Client Sample # (S) - **TOTAL SAMPLE #**

Relinquished: **Date:** **Time:**
Received: **Date:** **Time:**
Relinquished: **Date:** **Time:**
Received: **Date:** **Time:**

EMSL Analytical
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4851 Email: westmontlab@emsl.com

Attn: (b)(4)
Jacobs FOSC Group
Building 2108
Stennis Space Center
Diamondhead, MS 39529

Fax: (228) 688-3368 Phone: (b)(4)
Project: **3165-2008**

Customer ID: JCWS50
Customer PO:
Received: 11/25/08 9:47 AM
EMSL Order: (b)(4)

EMSL Proj:

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)
(b)(4) Lead Lab Supervisor
or other approved signatory

Reporting limit s 4 µg/filter. OSHA PEL - 50 µg/m³.O SHA action level - 30 µg/m³.T he QC data associated with the sample results included in this reportm eet the recovery and precision requirements established by the AIHA, unless specifically indicated otherwise in the comments ection. Unless otherwise noted,r esults in this reporta re not blank corrected. The Laboratory is notr esponsible for data reported in µg/m³ which is dependenton volume collected by non-laboratory personnel. This reportm ay notbe reproduced excepti n full, withouw ritten approval by EMSL. This report relates only to those items tested.S amples received in good condition unless otherwise noted.Q uality Control Data associated with this sample set is within acceptable limits, unless otherwise noted
ACCREDITATIONS: NJ-NELAP: 04653, ACCREDITATIONS:A IHA accreditation #100194

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

EMSL 107 Haddon Avenue, Westmont, New Jersey 08108 1-800-220-3675 http://www.emsl.com

EMSL ANALYTICAL, Inc. CHAIN OF CUSTODY

EMSL Rep:

Third Party Billing requires written authorization from third party

Your Name: (b)(4)
Company:
Street: 2104 Bldg
Box #: Stennis Space Center
City/State: MS **Zip** 39520

EMSL-Bill to: SAME
Street:
Box #:
City/State: **Zip**

Phone Results to: (b)(4)
Name:
Telephone #: (b)(4)

Fax Results to: 228 688 1326
Name:
Fax #:

Project Name/Number: 3165-2008

Purchase Order #: (b)(4)

TURNAROUND TIME

☐ 3 Hours	☐ 6 Hours	☐ 12 Hours	☒ 24 Hours	☐ 48 Hours	☐ 72 Hours	☐ 4 Days	☐ 5 Days	☐ 6-10 Days

SAMPLE MATRIX

☒ Air	☐ Bulk	☐ Soil	☐ Wipe	☐ Micro-Vac	☐ Drinking Water	☐ Wastewater	☐ Chips	☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☐ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-5480-99
- ☐ Qualitative☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2

OTHER:

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420☐ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☒ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐ Wipe, SW846-6010☐ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterization
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitreous Fibers - MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate count & id
- ☐ Bacterial Count and Gram Stain
- ☐ Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:

Client Sample # (S)

TOTAL SAMPLE #

Relinquished:		**Date:**		**Time:**
Received:		**Date:**		**Time:**
Relinquished:		**Date:**		**Time:**
Received:		**Date:**		**Time:**

Chain of Custody

Asbestos Lab Services

3165 Project

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

Please print all information legibly.

Client Sample # (s) _____ - _____ **Total Samples #:** 11

Relinquished (b)(4) **Date:** 21 NOV 08 **Time:** _____

Received: _____ **Date:** _____ **Time:** _____

Relinquished: _____ **Date:** _____ **Time:** _____

Received: _____ **Date:** _____ **Time:** _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
3165-P1	Personal Air sample on clean up worker	234.0
3165-P2	" "	234.0
3165-P3	" "	225.0
3165 P4	" "	225.0
3165-A1	Area sample North end	243.0
3165 A2	Area sample South end	225.0
3165 A3	Area sample North end	243.0
3165 A4	Area sample Southend	225.0
3165-QA1	Quick Take Area monitoring	136.5
3165-QA2	Quick Take Area monitoring	136.5
3165-Blank1	Blank open in area	—
~~Blank2~~	~~Blank Not opened~~	—

EMSL Analytical
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-9551 Email: westmontleadlab@emsl.com

Attn: (b)(4)
Jacobs FOSC Group
Building 2108
Stennis Space Center
Diamondhead, MS 39529

Fax: (228) 688-3368 Phone: (b)(4)
Project: (b)(4)

Customer ID: JCWS50
Customer PO:
Received: 12/04/08 10:15 AM
EMSL Order: (b)(4)

EMSL Proj:

ReportD ate: 12/5/2008

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

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

(b)(4)

(b)(4) Lead Lab Supervisor
or other approved signatory

Reporting limiti s 0.01 % wt. The QC data associated with these sample results included in this reportm eet the method quality control requirements, unless specifically indicated otherwise. Unless noted,r esults in this reporta re notb lank corrected .T his reportr elates only to the samples reported above and may notbe reproduced,e xcepti n full,w ithoutw ritten approval by EMSL.E MSL bears no responsibility for sample collection activities.

* slightm odifications to methods applied Samples received in good condition unless otherwise noted.Q uality 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

Date Printed: 12/5/2008 3:38:06 PM
ChmSnglePrm/nQC

EMSL

107 Haddon Avenue, Westmont, New Jersey 08108 1-800-220-3675 http://www.emsl.com

EMSL ANALYTICAL, Inc. CHAIN OF CUSTODY

EMSL Rep: (b)(4)

Third Party Billing requires written authorization from third party

Your Name:		**EMSL-Bill to:**	
Company:	Stennis Space Center		SAME
Street:	Bldg 2104	**Street:**	
Box #:		**Box #:**	
City/State:	MS **Zip** 39520	**City/State:**	**Zip**
Phone Results to:	(b)(4)	**Fax Results to:**	(b)(4)
Name:		**Name:**	
Telephone #:	9 (b)(4)	**Fax #:**	228 688 1326
Project Name/Number:	3172 - 2008	**Purchase Order #:**	(b)(4)

TURNAROUND TIME

☐ 3 Hours ☐ 6 Hours ☐ 12 Hours ☐ 24 Hours ☐ 48 Hours ☒ 72 Hours ☐ 4 Days ☐ 5 Days ☐ 6-10 Days

SAMPLE MATRIX

☐ Air ☒ Bulk ☐ Soil ☐ Wipe ☐ Micro-Vac ☐ Drinking Water ☐ Wastewater ☐ Chips ☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☐ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative ☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2

OTHER:

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☒ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐ Wipe, SW846-6010 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterization
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitreous Fibers - MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate count & Id
- ☐ Bacterial Count and Gram Stain
- ☐ Bacterial Count and Identification

Water Samples
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- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
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- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐ Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:

Client Sample # (S) - **TOTAL SAMPLE #**

Relinquished:		**Date:**		**Time:**	
Received:		**Date:**		**Time:**	
Relinquished:		**Date:**		**Time:**	
Received:		**Date:**		**Time:**	

Chain of Custody

Asbestos Lab Services

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

Please print all information legibly.

Client Sample # (s) 3172 01 - 01 Total Samples #: 01

Relinquished: _____ Date: _____ Time: _____

Received: _____ Date: _____ Time: _____

Relinquished: _____ Date: _____ Time: _____

Received: _____ Date: _____ Time: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
3172-01	Paint Chips	N/A

GALSON LABORATORIES

(b)(4)

December 16, 2008

Jacobs FOSC Group
Building 2104
Stennis Space Center, MS 39529

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 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

(b)(4)

Laboratory Director

Enclosure(s)

GALSON LABORATORIES
6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : 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
Report ID : 597354

Account No. (b)(4)
Login No.

Iron Oxide

Sample ID	Lab ID	Air Vol liter	Total ug	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.

Level of quantitation: 11. ug
Analytical Method : mod. NIOSH 7300/OSHA 125G; ICP
OSHA PEL (TWA) : 10 mg/m3
Collection Media : Filter

Submitted by: crg
Approved by : crd
Date : 16-DEC-08 NYS DOH # : 11626
QC by: (b)(4)

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

GALSON LABORATORIES
6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : 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
Report ID : 597289

Account No (b)(4)
Login No.

Lead

Sample ID	Lab ID	Air Vol liter	Total ug	Conc mg/m3	µg/m3
3196-2008-P01	L185287-1	149	0.81	0.0055	5.5
3196-2008-P02	L185287-2	140.4	0.48	0.0034	3.4
3196-2008-P03	L185287-3	152.4	<0.38	<0.0025	
3196-2008-P04	L185287-4	147	<0.38	<0.0026	
3196-2008-P05	L185287-5	150.6	<0.38	<0.0025	
3196-2008-P06	L185287-6	149.4	<0.38	<0.0025	
3196-2008-A01	L185287-7	148.7	<0.38	<0.0025	
3196-2008-A02	L185287-8	147.2	<0.38	<0.0025	
3196-2008-A03	L185287-9	153.4	<0.38	<0.0024	
3196-2008-A04	L185287-10	148.3	<0.38	<0.0025	
3196-2008-A05	L185287-11	150.2	<0.38	<0.0025	
3196-2008-A06	L185287-12	146.3	<0.38	<0.0026	
BLANK OPEN	L185287-13	NA	<0.38	NA	
BLANK NOT OPEN	L185287-14	NA	<0.38	NA	

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

Level of quantitation: 0.38 ug
Analytical Method : mod. NIOSH 7300/OSHA 125G; ICP
OSHA PEL (TWA) : 0.05 mg/m3
Collection Media : Filter

Submitted by: crg
Approved by : crd
Date : 16-DEC-08 NYS DOH # : 11626
QC by: (b)(4)

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

GALSON LABORATORIES

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

Account No.
Login No. (b)(4)

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.
SOPs: im-icp(13), im-mwvfilt(9)
Iron calculated as iron oxide (Fe2O3); assuming all detected iron is iron oxide.

< -Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	

GALSON LABORATORIES
6601 Kirkville Rd
East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com

☐ Check if change of address

New Client ? ☐ yes ☒ no

Report To : [redacted]
Blg 2104
Stennis Space Center
MS. 39529
Phone No. : [redacted]
Fax No. : 228 688 1326

Invoice To : Same
(88)
Phone No. :
Fax No. :

Site Name : B1 Test Stand Project : 3196-2008 Sampled By [redacted]

Need Results By:	(surcharge)
☒ 5 Business Days	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same day	200%

☒ Samples submitted using the FreePumpLoan™ Program. ☐ Samples submitted using the FreeSamplingBadges™ Program.

Client Account No. :
Purchase Order No. :
Credit Card No. : Card Holder Name : Exp. :

Email / Fax Results To :
Email Address [redacted] Fax No. : 228-688-1326

Page 5 of 7 Report Reference:1 Generated:16-Dec-08

Sample Identification	Date Sampled	Collection Medium	*Air Volume (Liters)	Passive Monitors (Min)	Analysis Requested	Method Reference	Specific DL Needed
1. 3196-2008-P01	Dec 9,08	2P Nylon Cassette	149.0		Lead + Iron Oxide	per client	
2. 3196-2008-P02	"		140.4			XLS	
3. 3196-2008-P03	" "		152.4				
4. 3196-2008-P04	"		147.0				
5. 3196-2008-P05	"		150.6				
6. 3196-2008-P06	"		149.4				
7. 3196-2008 A01	"	Cassette	148.7				
8. 3196-2008 A02	"		147.2				
9. 3196-2008-A03	"		153.4				
10. 3196 2008-A04	"		148.3				
11. 3196 2008-A05	"		150.2				

☐ Yes ☒ No We normally add a laboratory blank for each analyte. We will charge you for this at our normal rate. If you agree please check "Yes" otherwise check "No".

List description of industry or process / interference's present in sampling area:

Comments:

Chain of Custody	Print Name	Signature	Date/Time
Relinquished by :	[redacted]		1322 12/10/08
Received by LAB :			12/11/08 1009

Samples received after 3pm will be considered as next day's business. * sample collection time X LPM = Air Vol.

GALSON LABORATORIES

6601 Kirkville Rd
East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com

☐ Check if change of address

New Client ? ☐ yes ☒ no

Report To : [redacted]
Bldg 2104
Stennis Space Center
MS 39529

Phone No. : [redacted]

Fax No. : 228 688 - 1326

Invoice To : SAME (88)

Phone No. :

Fax No. :

Site Name : B1 Test Stand Project : 3196 - 2008 Sampled By [redacted]

Need Results By:	(surcharge)
☐ 5 Business Days	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same day	200%

☒ Samples submitted using the FreePumpLoan™ Program.

☐ Samples submitted using the FreeSamplingBadges™ Program.

Client Account No. :

Purchase Order No. :

Credit Card No. : Card Holder Name : Exp. :

Email / Fax Results To :

Email Address : Fax No. :

Sample Identification	Date Sampled	Collection Medium	*Air Volume (Liters)	Passive Monitors (Min)	Analysis Requested	Method Reference	Specific DL Needed
3196 2008 - A06	Dec 9, 08	Cassette 2P Not galson	146.3		Lead + Iron Oxide	per client XLC	
Blank open							
Blank Not open							

☐ Yes ☒ No We normally add a laboratory blank for each analyte. We will charge you for this at our normal rate. If you agree please check "Yes" otherwise check "No".

List description of industry or process / interference's present in sampling area:

Comments:

Chain of Custody	Print Name	Signature	Date/Time
Relinquished by :	[redacted]		12/10/08 1320
Received by LAB :			12/11/08 1009

Login # :

Samples received after 3pm will be considered as next day's business.

* sample collection time X LPM = Air Vol.

GALSON LABORATORIES

LABORATORY ANALYSIS REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client : Jacobs FOSC Group
Site : B-1 Stand
Project No. : Piping

Date Sampled : 18-MAR-11
Date Received : 22-MAR-11
Date Analyzed : 24-MAR-11
Report ID : 685571

Account No
Login No. (b)(4)

Lead

Sample ID	Lab ID	Weight g	Total ug	Conc mg/kg	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 quantitation: 24. mg/kg
Analytical Method : mod. OSHA 125G/SW846 6010B/C;ICP;PAINT
OSHA PEL (TWA) : NA
Collection Media : Paint

Submitted by: cju
Approved by : DEH
Date : 24-MAR-11 NYS DOH # : 11626
QC by: (b)(4)

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

GALSON LABORATORIES
6601 Kirkville Rd
East Syracuse, NY 13057
Tel: 315-432-5227
888-432-5227
Fax: 315-437-0571
www.galsonlabs.com

☐ Check if change of address

New Client ? ☐ yes ☐ no

Report To* : (b)(4)
Jacobs FOSC

Phone No.* : (b)(4)

Fax No.* : 228 688 6956

Site Name : B-1 Stand

Project : Piping

Invoice To* : Steve Roy

Phone No. :

Fax/Email :

Sampled By : (b)(4)

Need Results By*:	(surcharge)
☐ 5 Business Days	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☒ 2 Business Days	75%
☐ Next Day, by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

☐ Samples submitted using the FreePumpLoan™ Program

☐ Samples submitted using the FreeSamplingBadges™ Program.

Client Account No.* :

Purchase Order No. :

Credit Card : ☐ Credit Card on File ☐ Will Phone in Credit Card information

Email Results To :

Email Address :

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV
☐ Cal OSHA ☐ Other (please specify)

Sample Identification*	Date Sampled	Collection Medium	Sample* Volume (Time, or Area)	Sample Units* (L, ml, min., ln2, 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	—	—	PCB		
5032-2011-02	03-18-11	Wipe	—	—	PCB		
5021-2011-01	"	Bulk	—	—	Lead		
" " " 02	"	"	—	—	"		
03	"	"	—	—	"		
5030 2011-01	"	"	—	—	Asbestos		

For Hexavalent Chromium: process must be listed for each sample submitted (eg., welding, plating, painting, etc.)*:

For Crystalline Silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

List description of Industry or process/interferences present in sampling area:

Comments:

Chain of Custody	Print Name	Signature	Date/Time
Relinquished by :	(b)(4)		2-21-11
Received by LAB :			3/22/11 1011

Samples received after 3pm will be considered as next day's business

* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page ___ of ___

Page 6 of 9 Report Reference:1 Generated:24-MAR-11 16:45

National Aeronautics and Space Administration
John C. Stennis Space Center
Stennis Space Center, MS 39529-6000

CONTRACTOR TRANSMITTAL SHEET

DATE: 7/22/11

SHEET 1 OF 1

SECTION I - REQUEST FOR APPROVAL *(To be Initiated by the Contractor)*

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE
(See Instructions on Reverse)

CONTRACT NO.: NNS11AA51C

☒ NEW SUBMITTAL
☐ RESUBMITTAL

TO	FROM	PREVIOUS TRANSMITTAL NO. *(If Any)*	TRANSMITTAL NO.
(b)(4)	South Gulf, Inc.	N/A	039

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

ITEM NO. (a)	DESCRIPTION OF ITEM SUBMITTED (Type, Size, Model Number, ect.) (See Instruction No. 3) (b)	MANUFACTURER OF ITEM *(See Instruction No. 8)* (c)	NO. OF COPIES (d)	CONTRACT REFERENCE DOCUMENT: SPECIFICATION PARAGRAPH NO. (e)	CONTRACT REFERENCE DOCUMENT: DRAWING SHEET NO. (f)	VARIATION (See Instruction No. 6) (g)	ACTION CODE *(See Instruction No. 9)* (h)
1	Air Monitoring Results	South Gulf, Inc	5	3.3.1.1			

RECEIVED
JUL 22 2011
DOCUMENT CONTROL

REMARKS

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications, except as stated.

(b)(4)

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED *(List by Item No.)*	NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY	DATE

SSC-581 (08/2006) (Ms Word 2003) C.G. (08/2006) pc

ENVIROCHEM
Environmental Laboratories

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

South Gulf
P.O. Box 170
Fairhope AL, 36533
Phone: (251) 583-9917
Fax: (850) 547-5560
Attention: (b)(4)

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

(b)(4)
(b)(4) Project Manager

ACCREDITED IN ACCORDANCE WITH NELAP

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.

ENVIROCHEM
Environmental Laboratories

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

South Gulf
P.O. Box 170
Fairhope AL, 36533
Phone: (251) 583-9917
Fax: (850) 547-5560
Attention: (b)(4)

Project: Pb
Project Number: NASA / SSC- B-Test Stand

Reported:
07/22/11 09:26

Date Sampled: 07/20/11 15:00
Date Received: 07/20/11 17:24

1 - Blank
11G0355-01 (Air)

Sampled by: (b)(4)
Sample Type: Composite

Analyte	Batch	Prepared	Analyzed	Analyst	Method	RL	Units	Result
Metals by NIOSH 7303								
Lead	1G21017	07/21/11 12:45	07/21/11 18:44	RGB	NIOSH 7303	0.05	Total mg	< 0.05

Date Sampled: 07/20/11 15:00
Date Received: 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 NIOSH 7303								
Lead	1G21017	07/21/11 12:45	07/21/11 18:51	RGB	NIOSH 7303	0.0003	mg/m³ Air	0.0004

Date Sampled: 07/20/11 15:00
Date Received: 07/20/11 17:24

3 - Outside Work Zone
11G0355-03 (Air)

Sampled by: (b)(4)
Sample Type: Composite

Analyte	Batch	Prepared	Analyzed	Analyst	Method	RL	Units	Result
Metals by NIOSH 7303								
Lead	1G21017	07/21/11 12:45	07/21/11 18:57	RGB	NIOSH 7303	0.0003	mg/m³ Air	< 0.0003

Date Sampled: 07/20/11 15:00
Date Received: 07/20/11 17:24

4 - Personnel
11G0355-04 (Air)

Sampled by: (b)(4)
Sample Type: Composite

Analyte	Batch	Prepared	Analyzed	Analyst	Method	RL	Units	Result
Metals by NIOSH 7303								
Lead	1G21017	07/21/11 12:45	07/21/11 19:04	RGB	NIOSH 7303	0.0003	mg/m³ Air	< 0.0003

SOUTH GULF, INC
PO BOX 505
BONIFAY, FL 32425
1-850-547-0920
mhowell@wfeca

DATE: 7/20/11

11G0355

Project: NASA
Location: SSC
Bld: B-Test Stand
Room: Roof

AIR MONITORING WORKSHEET

Sample	Pump ID	Flow-On	Flow-Off	Description	Time On	Time Off	Total Time	Total Volume	Lab ID
1	-	-	-	Blank					
2	144	2.0	2	Inside work zone	0700	1500	480	960	
3	400	2.0	2	Outside work zone	0700	↓	↓	↓	
4	201	2.0	2	Personnel	0700	↓	↓	↓	

Sample Parameter
Lead (circled)
Dust ___
Mold ___

Relinquished [redacted]
Date/time 7/20/11 17[illegible]

Received by [redacted]
Date/time 7/20/11 17:24

Temp 75-99
Wind-dir WSW
Wind-spd Variable
Hrs 0600-1700

1/2 Face Respirator
Tyvek Coveralls
Safety Glasses
Boots

Supervisor [redacted]
Sampler

Associate Mike Silk
SS#
Associate
SS#

National Aeronautics and Space Administration
John C. Stennis Space Center
Stennis Space Center, MS 39529-6000

CONTRACTOR TRANSMITTAL SHEET

DATE 8/11/11

SHEET 1 OF 1

SECTION I - REQUEST FOR APPROVAL *(To be Initiated by the Contractor)*

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE
(See Instructions on Reverse)

CONTRACT NO. NNS11AA51C

☒ NEW SUBMITTAL
☐ RESUBMITTAL

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

ITEM NO. (a)	DESCRIPTION OF ITEM SUBMITTED (Type, Size, Model Number, ect.) (See Instruction No. 3) (b)	MANUFACTURER OF ITEM *(See Instruction No. 8)* (c)	NO. OF COPIES (d)	CONTRACT REFERENCE DOCUMENT		VARIATION *(See Instruction No. 6)* (g)	ACTION CODE *(See Instruction No. 9)* (h)
				SPECIFICATION PARAGRAPH NO. (e)	DRAWING SHEET NO. (f)		
1	Air Monitoring Results	South Gulf, Inc	5	3.3.1.1			

RECEIVED
AUG 11 2011
DOCUMENT CONTROL

REMARKS

I certify that the above submitted items have been reviewedin detail and are correct and in strict confomance with the contract drawings and specifications, except as stated.

(b)(4)

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED *(List by Item No.)*	NAME, TITLE, AND SIGNATURE OF APPROVING AUTHORITY	DATE

SSC-581 (08/2006) (Ms Word 2003) C.G. (08/2006) pc

ENVIROCHEM
Environmental Laboratories

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

South Gulf
P.O. Box 170
Fairhope AL, 36533
Phone: (251) 583-9917
Fax: (850) 547-5560
Attention: (b)(4)

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 (b)(4)

Sample 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*	11H0161-04	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

(b)(4)
(b)(4) Project Manager

ENVIROCHEM
Environmental Laboratories

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

South Gulf
P.O. Box 170
Fairhope AL, 36533
Phone: (251) 583-9917
Fax: (850) 547-5560
Attention: (b)(4)

Project: Pb
Project Number: Stennis Space Center

Reported:
08/10/11 16:14

Date Sampled: 08/08/11 14:00
Date Received: 08/09/11 15:20

Blank
11H0161-01 (Air)

Sampled by: (b)(4)
Sample Type: Composite

Analyte	Batch	Prepared	Analyzed	Analyst	Method	RL	Units	Result
Metals by NIOSH 7303								
Lead	1H09013	08/09/11 15:45	08/10/11 03:47	RGB	NIOSH 7303	0.05	Total mg	< 0.05

Date Sampled: 08/08/11 14:00
Date Received: 08/09/11 15:20

Inside Work Area - 20
11H0161-02 (Air)

Sampled by: (b)(4)
Sample Type: Composite

Analyte	Batch	Prepared	Analyzed	Analyst	Method	RL	Units	Result
Metals by NIOSH 7303								
Lead	1H09013	08/09/11 15:45	08/10/11 03:54	RGB	NIOSH 7303	0.0002	mg/m³ Air	< 0.0002

Date Sampled: 08/08/11 14:00
Date Received: 08/09/11 15:20

Down Wind
11H0161-03 (Air)

Sampled by: (b)(4)
Sample Type: Composite

Analyte	Batch	Prepared	Analyzed	Analyst	Method	RL	Units	Result
Metals by NIOSH 7303								
Lead	1H09013	08/09/11 15:45	08/10/11 04:01	RGB	NIOSH 7303	0.0002	mg/m³ Air	**0.0019**

Date Sampled: 08/08/11 14:00
Date Received: 08/09/11 15:20

Personnel
11H0161-04 (Air)

Sampled by: (b)(4)
Sample Type: Composite

Analyte	Batch	Prepared	Analyzed	Analyst	Method	RL	Units	Result
Metals by NIOSH 7303								
Lead	1H09013	08/09/11 15:45	08/10/11 04:07	RGB	NIOSH 7303	0.0002	mg/m³ Air	**0.0041**

Date Sampled: 08/08/11 14:00
Date Received: 08/09/11 15:20

Inside Work Area - 19
11H0161-05 (Air)

Sampled by: (b)(4)
Sample Type: Composite

Analyte	Batch	Prepared	Analyzed	Analyst	Method	RL	Units	Result
Metals by NIOSH 7303								
Lead	1H09013	08/09/11 15:45	08/10/11 04:14	RGB	NIOSH 7303	0.0002	mg/m³ Air	**0.0005**

SOUTH GULF, INC
PO BOX 905
BONIFAY, FL 32425
1-850-547-0920
mhowell@wfeca

DATE 8/9/11

Project: NASA
Location: Stennis Space Center
Bld: B Test Stand
Room: Deck 19-20

AIR MONITORING WORKSHEET

11H0081-1-5

Sample	Pump ID	Flow On	Flow Off	Description	Time On	Time Off	Total Time	Total Volume	Lab ID
Blk				Blank					
1	188	2.5		Inside work area - 20	0600	1400	480	1200	
2	400			down wind					
3	831			Personnel					
4	178	↓		Inside work area - 19	↓	↓	↓	↓	

Sample Parameter
Lead
Dust ____
Mold ____

Temp 77-95
Wind dir variable
Wind spd 5-20
H [illegible] 1500

1/2 Face Respirator
Tyvek Coveralls
Safety Glasses
Boots

Supervisor (b)(4)
Sampler

Relinquished by ____
Date/time ____
Received by ____
Date/time ____

Associate Mike Sole
SS#
Associate
SS#

(b)(4)

8/9/11
1530

EMSL Analytical, Inc.
11931 Industriplex, Suite 100, Baton Rouge, LA 70809
Phone: (225) 769-1830 Fax: (225) 766-1909 Email: batonrougelab@emsl.com

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

Fax: (228) 688-3368 Phone: (b)(4)
Project: **5419-2011-**
B1 LH RW TANK

Customer ID: JCWS50
Customer PO: Pending
Received: 12/08/11 9:30 AM
EMSL Order: (b)(4)

EMSL Proj:

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
5419-2011-001	*0001*	12/7/2011	12/8/2011	0.33 % wt
5419-2011-002	*0002*	12/7/2011	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

251106256

Chain of Custody

EMSL ANALYTICAL, INC
LABORATORY PRODUCTS (RAPID)

EMSL Order Number (Lab Use Only): -6256

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

Company: JACOBS TECH	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments*
Street:	Third Party Billing requires written authorization from third party
City: Stennis Space Cnt **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** US
Report To (Name): (b)(4)	**Fax #:**
Telephone #: (b)(4)	**Email Address:** (b)(4)
Project Name/Number: 5419 - 2011 - RC Pending	
Please Provide Results: ☐ Fax ☐ Email	**Purchase Order:** **U.S. State Samples Taken:**

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☒ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test.
Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air
☐ NIOSH 7400
☐ w/ 8hr. TWA

TEM – Air ☐ 4-4.5hr TAT (AHERA ONLY)
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Water
Fibers ≥10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

PLM - Bulk
☐ PLM EPA 600/R-93/116
☐ PLM EPA NOB (<1%)
☐ NYS 198.1 (friable-NY)
☐ NYS 198.6 (non-friable-NY)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/ Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)

TEM - Dust
☐ Microvac – ASTM D 5755
☐ Wipe-ASTM D6480

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP

Soil/Rock/Vermiculite
☐ PLM CARB 435 – A (0.25% sensitivity)
☐ PLM CARB 435 – B (0.1% sensitivity)
☐ TEM CARB 435 – B (0.1% sensitivity)
☐ EPA Reg. 1 Screening Protocol (Qualitative)

Other:

Lead (Pb)

Flame Atomic Absorption
☒ Chips SW846-7000B or AOAC 974.02
☐ Soil SW846-7000B 7420
☐ Air NIOSH 7082
☐ Wastewater SW3111B or SW846-7000B 7420
☐ ASTM Wipe SW846-7000B/7420
☐ non ASTM Wipe SW846-7000B 7420
☐ TCLP SW846-1311/7420/SM 3111B

ICP
☐ Air NIOSH 7300 Modified
☐ non ASTM Wipe SW846-6010B or C
☐ ASTM Wipe SW846-6010B or C
☐ Soil SW846-6010 B or C
☐ Waste Water SW846-6010B or C
☐ TCLP SW846-6010B or C

Graphite Furnace Atomic Absorption
☐ Soil SW846-7421 ☐ Wastewater EPA 200.9
☐ Air NIOSH 7105 ☐ Drinking Water EPA 200.9

Other: ☐

Materials Science

☐ Common Particle ID (large particles)
☐ Fine Particle ID (environmental dust)
☐ Basic Material ID (solids)
☐ Advanced Material ID
☐ Physical Testing (Tensile, Compression)
☐ Combustion-by-products (soot, char, etc.)
☐ X-Ray Fluorescence (elem. analysis)
☐ X-Ray Diffraction (Crystalline Part.)
☐ MMVF's (Fibrous glass, RCF's)
☐ Particle Size (sieve/microscopy/laser)
☐ Combustible Dust
☐ Petrographic Examination
Other: ☐

Microbiology

Wipe and Bulk Samples
☐ Mold & Fungi – Direct Examination
☐ Mold & Fungi Culture (Genus Only)
☐ Mold & Fungi Culture (Genus & Species)
☐ Bacterial Count & ID (Up to Three Types)
☐ Bacterial Count & ID (Up to Five Types)
☐ MRSA
☐ *Pseudomonas aeruginosa*

Water Samples
☐ Total Coliform & E.coli (P/A)
☐ Fecal Coliform (SM 9222D)
☐ Sewage Screen
☐ Heterotrophic Plate Count (SM 9215)

Air Samples
☐ Mold & Fungi (Spore Trap)
☐ Mold & Fungi Culture (Genus Only)
☐ Mold & Fungi (Genus & Species)
☐ Bacterial Culture & ID (Up to Three Types)
☐ Bacterial Culture & ID (Up to Five Types)
☐ Endotoxin Testing

Real Time Q-PCR (See Analytical Guide for Code)
Code:

Legionella
☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4

Other: ☐

IAQ

Nuisance Dust NIOSH ☐ 0500 ☐ 0600
Airborne Dust ☐ PM10 ☐ TSP
Silica Analysis: ☐ All Species
Silica Analysis – Single Species
☐ Alpha Quartz ☐ Cristobalite ☐ Tridymite
☐ HVAC Efficiency
☐ Carbon Black
☐ Airborne Oil Mist
Radon Testing: Call for Kit and COC
Other: ☐

****Comments/Special Instructions:**

Client Sample #'s	5419-2011-001 → 004	**Total # of Samples:**	4
Relinquished (Client): (b)(4)	**Date:** 12/8	**Time:**	14:50
Received (Lab): (b)(4)	**Date:** 12/8	**Time:**	9:30

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

251106256

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS • TRAINING

Chain of Custody

EMSL Order Number *(Lab Use Only)*:

42256

EMSL ANALYTICAL, INC.
200 ROUTE 130 North
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-2974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
5419-2011			7-DEC-11
001	LIGHT-CREAM RUST BACK SIDE OF TANK		11
002	LIGHT CREAM-RUST BACK		11
003	DIRTY PAINT W/ WHITE + RUST BACK		11
004	BLUE - RUBBING BACKING WHITE + RUST FRONT		11
	002, 003, 004 = CHIPS ON BRAKE BACKING TANK		

*Comments/Special Instructions:

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

GALSON LABORATORIES

(b)(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

(b)(4)

Laboratory Director

Enclosure(s)

GALSON LABORATORIES

LABORATORY ANALYSIS REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client : Jacobs FOSC Group
Site : B-Test Stand-Sponge Blast
Project No. : #5441-2011

Date Sampled : 13-DEC-11
Date Received : 16-DEC-11
Date Analyzed : 20-DEC-11
Report ID : 720045

Account No.: (b)(4)
Login No. :

Lead

	Sample ID	Lab ID	Air Vol liter	Total ug	Conc mg/m3
#	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: 0.38 ug
Analytical Method : mod. NIOSH 7300/ mod. OSHA 125G; ICP
OSHA PEL (TWA) : 0.05 mg/m3
Collection Media : Filter

Submitted by: cri
Approved by : crd
Date : 27-DEC-11 NYS DOH # : 11626
QC by: (b)(4)

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

GALSON LABORATORIES

LABORATORY ANALYSIS REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client : Jacobs FOSC Group
Site : B-Test Stand-Sponge Blast
Project No. : #5441-2011

Date Sampled : 13-DEC-11
Date Received : 16-DEC-11
Date Analyzed : 22-DEC-11
Report ID : 720382

Account No.: (b)(4)
Login No. :

Lead

Sample ID	Lab ID	Weight g	Total ug	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 quantitation: 96. mg/kg
Analytical Method : mod. OSHA 125G/SW846 6010C;ICP;BULK
OSHA PEL (TWA) : NA
Collection Media : Bulk

Submitted by: cri
Approved by : CJU
Date : 27-DEC-11 NYS DOH # : 11626
QC by: (b)(4)

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

GALSON LABORATORIES

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY FOOTNOTE REPORT

Client Name : Jacobs FOSC Group
Site : B-Test Stand-Sponge Blast
Project No. : #5441-2011

Date Sampled : 13-DEC-11
Date Received: 16-DEC-11
Date Analyzed: 20-DEC-11 - 22-DEC-11

Account No.: (b)(4)
Login No. :

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: MT-SOP-5(9), MT-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	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	

GALSON LABORATORIES
6601 Kirkville Rd
East Syracuse, NY 13057
Tel: 315-432-5227
888-432-5227
Fax: 315-437-0571
www.galsonlabs.com

☐ Check if change of address

New Client ? ☐ yes ☑ no

Report To* : (b)(4)
Jacobs FOSC (technology)
Stennis Space Center,MS 39529
Phone No.* : (b)(4)
Fax No.* :

Invoice To* : Jacobs FOSC (Technology)
Building 1100
Stennis Space Center, MS 39529
Phone No. :
Fax/Email :

Site Name : B-Test Stand-Sponge Blast Project : #5441-2011 Sampled By : (b)(4)

Need Results By*:	(surcharge)
☑ 5 Business Days	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

☐ **Samples submitted using the FreePumpLoan™ Program**
☐ **Samples submitted using the FreeSamplingBadges™ Program.**

Client Account No.* :
Purchase Order No. : (b)(4) (P.O. to follow)
Credit Card : ☐ Credit Card on File
☐ Will Phone in Credit Card information
Email Results To :
Email Address : (b)(4)

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☑ ACGIH TLV
☐ Cal OSHA ☐ Other (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)
5441-2011-001	DEC-13-2011	3pc UW MCE	799	L	Lead-On Filter	Mod NIOSH 7300	
5441-2011-002	DEC-13-2011	3pc UW MCE	Blank				

For Hexavalent Chromium: process must be listed for each sample submitted (eg., welding, plating, painting, etc.)*:

For Crystalline Silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

List description of industry or process/interferences present in sampling area: Area sampling during sponge blast of lead paint(1.5% lead) Perlite (CAS# 93763-70-3)disturbed during blasting

Comments: Filter was over loaded with Perlite. Please remove and test perlite material as a bulk sample for lead. Analyze the filter for lead.

Chain of Custody	Print Name		Date/Time
Relinquished by :	(b)(4)	(b)(4)	Dec. 14, 2011 12-15-11
Received by LAB :	(b)(4)	(b)(4)	12/16/11 1102

Samples received after 3pm will be considered as next day's business

*** Required fields, failure to complete these fields may result in a delay in your samples being processed.**

Page ___ of ___

Page 5 of 5 Report Reference:1 Generated:27-DEC-11 17:05

IATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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

CERTIFICATE OF ANALYSIS

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

Report Date: 6/20/2012
Report Number: 276816
Project: AJ Soft Core Bstand 6/12/12
Project No.: 5721-2012

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location / Description	Concentration Lead By Weight (%)
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 LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

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: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0044% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 6/15/2012
Date Analyzed: 6/20/2012
Analyst: (b)(4)

Approved By: (b)(4)
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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 –

PRH

(b)(4)

Contact Information

Client Company:	Jacobs FOSC	**Project Number:**	5721-2012
Office Address:	Stennis Space Center	**Project Name:**	AJ Soft Core Bstand
City, State, Zip:	Waveland, MS 39529	**Primary Contact:**	(b)(4)
Fax Number:	228-688-6456	**Office Phone:**	
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: Need lead content in paint

Turnaround Time

Preliminary Results Requested Date: _____ (Specific date / time) ☐ 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***

RECEIVED
JUN 15 2012
IATL

Chain of Custody

Relinquished (Name/Organization	(b)(4)	14 Jun 12	Time: 1500
Received (Name / iATL):		Date:	Time:
Sample Login (Name / iATL):	(b)(4)	Date:	
Analysis(Name(s) / iATL):		Date:	
QA/QC Review (Name / iATL):		Date:	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date:	

(b)(4)

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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

Sample Log

–Environmental Lead –

Client: Jacobs FOSC Project: 5721-2012

Sampling Date/Time: 12 June 2012

Client Sample #	iATL #	Location/ Description	Flow Rate	Start / End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
01	4690439	East Side B Stand				Bulk	
02	4690440	Northside B-Stand				Bulk	
03	4690441	West Side B-Stand				Bulk	
04	4690442	Southside B-Stand				Bulk	

* = *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.

IATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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

CERTIFICATE OF ANALYSIS

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

Report Date: 7/11/2012
Report Number: 279314
Project: Derrick Crane; 7/6/12
Project No.: 5760-2012

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location / Description	Concentration Lead By Weight (%)
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

Accreditations: NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

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: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0044% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 7/9/2012
Date Analyzed: 7/11/2012
Analyst: (b)(4)

Approved By (b)(4)
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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 FOSC
Office Address: Stennis Space Center
City, State, Zip: Waveland, MS 39529
Fax Number: 228 688 - 6456
Email Address: (b)(4)

Project Number: 5760 - 2012
Project Name: Derrick Crane
Primary Contact: (b)(4)
Office Phone: (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:

- [x] 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 Lead content in Paint

Turnaround Time

Preliminary Results Requested Date: 13 July 12 (Specific date / time)

☐ 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

Relinquished (Name/Organizatio	(b)(4)	Date: 6 July 12	Time: 7-6-12
Received (Name / iATL):	(b)(4)	Date:	Time:
Sample Login (Name / iATL):	(b)(4)	Date:	Time:
Analysis(Name(s) / iATL):		Date:	Time:
QA/QC Review (Name / iATL):		Date: 7-12-12	Time:
Archived / Released: _____ QA/QC InterLAB Use: _____		Date:	Time:

RECEIVED JUL 9 2012 IATL - By (b)(4)

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Sample Log

–Environmental Lead –

Client: Jacobs Fosc Project: 5760-2012

Sampling Date/Time: 6 July 12

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
01	4715383	Draw Works Area	Brownish Gray				
02	4715384	Base of Derrick	Gray				
03	4715385	Arm of Derrick	red paint				
04	4715386	Derrick Arm South Side	red paint				

** = 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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Asbestos Testing Laboratories

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Toll Free 877-428-4285
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Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

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

Report Date: 11/26/2012
Report Number: 291016
Project: B-Stand; 21 Nov 12
Project No.: 5917-2012

LEAD PAINT SAMPLE ANALYSIS SUMMARY

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

Accreditations: NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

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: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0044% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 11/23/2012

Date Analyzed: 11/26/2012

Analyst: (b)(4)

Approved By: (b)(4)
Laboratory Director

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Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

– Environmental Lead –

Contact Information

Client Company: Jacobs FOSC
Office Address: [redacted] Stennis Space Center
City, State, Zip: Wauchand MS 39529
Fax Number: 228 688-6456
Email Address: (b)(4)

Project Number: 5917-2012
Project Name: BOfund
Primary Contact: (b)(4)
Office Phone: (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:

- [x] 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: % of Lead needed

Turnaround Time

Preliminary Results Requested Date: Nov 30, 12 (Specific date / time)

[ ] Verbal [x] Email [ ] Fax

[ ] 10 Day [ ] 5 Day [x] 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)(4) (b)(4) Date: 7 Nov 12 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: Jacobs FOSC Project: 5917 - 2012

Sampling Date/Time: 21 Nov 12

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
01		Background Level	—	—	Bulk		

* = *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.

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

CERTIFICATE OF ANALYSIS

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

Report Date: 7/26/2013
Report Number: 310956
Project: B-2 Deflector 7-18-13
Project No.: 6110-2013

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location / Description	Concentration Lead By Weight (%)
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: NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

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: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0044% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 7/26/2013
Date Analyzed: 7/26/2013
Analyst:

Approved By: (b)(4)
Laboratory Director

IATL International Asbestos Testing Laboratories

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: 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

AIHA LAP-LLC No. 100188 **NYS-DOH** 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: (b)(4)

Date: 7/26/13

Approved B (b)(4)

6110 - 2013

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Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

– Environmental Lead –

Contact Information

Client Company: Jacobs FOSC
Office Address: Stennis Space Center
City, State, Zip: Waveland MS 39529
Fax Number: 228 688-6456
Email Address: (b)(4)

Project Number: 6110 -2013
Project Name: BR-2 Deflector
Primary Contact: (b)(4)
Office Phone:
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 131
- ☐ Other _____

E-MAILED 1427 7/26

Special Instructions:

Turnaround Time

Preliminary Results Requested Date: 22 July 13
Specific date / time

☐ 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

Relinquished (Name/Organizatio (b)(4) Date: 25 July 13 Time:
Received (Name / iATL): (b)(4) Date: Time:
Sample Login (Name / iATL): Date:
Analysis(Name(s) / iATL): (b)(4) Date:
QA/QC Review (Name / iATL): Date:
Archived / Released: _____ QA/QC InterLAB Use: _____ Date: IATL - E

RECEIVED JUL

(b)(4)

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ASBESTOS TESTING LABORATORIES

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

Sample Log

–Environmental Lead –

Client: Jacobs Project: _____

Sampling Date/Time: 18 July 13

Client Sample #	iATL #	Location/ Description	Flow Rate	Start / End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
01	5076428	Inside side wall of Deflector			Bulk		
02	5076429	Top of Deflector			1'		
03	5076430	Outside wall of Deflector			1'		

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

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GALSON LABORATORIES

(b)(4)

August 09, 2013

Jacobs FOSC Group
Building 1100
213 G
Stennis Space Center, MS 39529

DOH ELAP# 11626
AIHA # 100324

Account# (b)(4)

Login# (b)(4)

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 (b)(4) 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)

GALSON LABORATORIES

LABORATORY ANALYSIS REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client : Jacobs FOSC Group
Site : B-Stand
Project No. : 6116-2013

Date Sampled : 01-AUG-13
Date Received : 05-AUG-13
Date Analyzed : 06-AUG-13
Report ID : 792993

Account No.: (b)(4)
Login No. :

Lead

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

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

Level of quantitation: 1.3 ug
Analytical Method : mod. NIOSH 9102/SW846 6010C; ICP GAUZE
OSHA PEL (TWA) : NA
Collection Media : Gauze

Submitted by: mlh/kml
Approved by : keg
Date : 07-AUG-13 NYS DOH # : 11626
QC by: (b)(4)

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

GALSON LABORATORIES

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY FOOTNOTE REPORT

Client Name : Jacobs FOSC Group
Site : B-Stand
Project No. : 6116-2013

Date Sampled : 01-AUG-13
Date Received: 05-AUG-13
Date Analyzed: 06-AUG-13

Account No.: (b)(4)
Login No. :

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	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
> -Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
NA -Not Applicable	ND -Not Detected	ppm -Parts per Million	

GALSON LABORATORIES

6601 Kirkville Rd
East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com

☐ New Client? Report To*: (b)(4)

Client Account No.*:

Stennis Space Center
Waveland MS 39529

Invoice To*: Same

RG

Phone No.*: (b)(4)
Cell No.:
Email Results to:
Email address:

Phone No.:
Email:
P.O. No.:
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
☐ Standard	0%
☒ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

Site Name: B-Stand Project: 6116 - 2013 Sampled by: (b)(4)

Comments: Conducted Lead wipe samples

List description of industry or Process/interferences present in sampling area: Lead Abatement Outside of Building

State samples were collected in (e.g., NY): MS

Please indicate which OEL this data will be used for:
☑ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume / Sample Time / Sample Area*	Sample Units*: L, ml, min, in2, cm2, ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)*
EXAMPLE	04/24/13	2pc UW PVC	960	L	Hexavalent Chromium (Cr6)	Mod OSHA ID-215	Welding
Lead wipe samples	1 Aug 13	Wipe	100cm		Lead		
Blank	"	"			"		
01 - Level 7 BStand	STAIRS	"	100 cm		"		
02 - Level 7 "	Area	"	"		"		
03 - Level 1 "	Area	"	"		"		
04 Elevator	Area	"	"		"		
05 - Level 1	Horizontal Surface	"	"		"		

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Chain of Custody	Date	Time		Date	Time
Relinquished by: (b)(4)	2 Aug	1330	Received by: (b)(4)	8/2/13	
Relinquished by:			Received by:	8/5/13	0826

Samples received after 3pm will be considered as next

* Required fields, failure to complete these fields may result in a delay i

NASA Environmental Services Laboratory

Operated by A2Research
Environmental Laboratory
Bldg 8100 Rm112
Lab. I.D.# MS00903
228-688-2065

April 11, 2014

Laboratory Batch Number(s): 140318B
Report Generated by: (b)(4)
Customer: NASA Environmental
For: Jenette Gordon / (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.

SAMPLE RESULTS - BATCH 140318B

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
Analyst: (b)(4) **Date Analyzed:** 4/2/2014 2:55:00 PM

Analyte	Concentration	Units
% Solids	69.6	%

List Type: ICP Metals - EPA Method 200.7

Sample ID: 141210 **Matrix:** Soil **Date Received:** 3/18/2014 12:47:18 PM
Analyst: (b)(4) **Date Analyzed:** 4/4/2014 2:12:00 PM

CAS No.	Analyte	Concentration	Units
007440-22-4	Ag328.	0.06	mg/kg
007429-90-5	Al309.	2027	mg/kg
007440-38-2	As189.	0.38	mg/kg
007440-42-8	B249.7	< 0.03	mg/kg
007440-39-3	Ba455.	37.4	mg/kg
007440-41-7	Be313.	0.11	mg/kg
007440-43-9	Cd228.	1.69	mg/kg
007440-47-3	Cr267.	15.5	mg/kg
007440-50-8	Cu327.	84.9	mg/kg
007439-96-5	Mn257.	294	mg/kg
007440-02-0	Ni221.	11.6	mg/kg
007439-92-1	Pb220.	404	mg/kg
007440-36-0	Sb206.	0.94	mg/kg
007782-49-2	Se196.	0.37	mg/kg
007440-21-3	Si251.	2437	mg/kg
007440-31-5	Sn189.	1.30	mg/kg
007440-24-6	Sr407.	60.5	mg/kg
007440-32-6	Ti334.	43.9	mg/kg
007440-28-0	Tl190.	< 0.18	mg/kg
007440-62-2	V292.4	8.68	mg/kg
007440-66-6	Zn213.	737	mg/kg

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

List Type: PCBs – Method 8082

Sample ID: 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
001336-36-3	Aroclor 1254	0.12	mg/kg

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

SAMPLE RESULTS - BATCH 140318B

09-Apr-14 **Project:** Other **Customer:** FOSC

Field Sample ID: B STAND SOIL #2

List Type: % Solids

Sample ID: 141211 **Matrix:** Soil **Analyst:** (b)(4) **Date Received:** 3/18/2014 12:47:18 PM **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:** Soil **Analyst:** (b)(4) **Date Received:** 3/18/2014 12:47:18 PM **Date Analyzed:** 4/4/2014 2:23:10 PM

CAS No.	Analyte	Concentration	Units
007440-22-4	Ag328.	< 0.02	mg/kg
007429-90-5	Al309.	1055	mg/kg
007440-38-2	As189.	< 0.11	mg/kg
007440-42-8	B249.7	< 0.03	mg/kg
007440-39-3	Ba455.	7.69	mg/kg
007440-41-7	Be313.	0.041	mg/kg
007440-43-9	Cd228.	0.063	mg/kg
007440-47-3	Cr267.	1.87	mg/kg
007440-50-8	Cu327.	4.00	mg/kg
007439-96-5	Mn257.	48.0	mg/kg
007440-02-0	Ni221.	1.65	mg/kg
007439-92-1	Pb220.	85.0	mg/kg
007440-36-0	Sb206.	< 0.11	mg/kg
007782-49-2	Se196.	< 0.21	mg/kg
007440-21-3	Si251.	1228	mg/kg
007440-31-5	Sn189.	0.47	mg/kg
007440-24-6	Sr407.	12.4	mg/kg
007440-32-6	Ti334.	14.6	mg/kg
007440-28-0	Tl190.	< 0.18	mg/kg
007440-62-2	V292.4	5.20	mg/kg
007440-66-6	Zn213.	90.5	mg/kg

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

List Type: PCBs – Method 8082

Sample ID: 141211 **Matrix:** Soil **Analyst:** (b)(4) **Date Received:** 3/18/2014 12:47:18 PM **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

SAMPLE RESULTS - BATCH 140318B

09-Apr-14 **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:** Soil **Date Received:** 3/18/2014 12:47:18 PM
Analyst: (b)(4) **Date Analyzed:** 4/4/2014 2:37:28 PM

CAS No.	Analyte	Concentration	Units
007440-22-4	Ag328.	< 0.02	mg/kg
007429-90-5	Al309.	3312	mg/kg
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	Tl190.	< 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 8082

Sample ID: 141214 **Matrix:** Soil **Date Received:** 3/18/2014 12:47:18 PM
Analyst: (b)(4) **Date Analyzed:** 4/9/2014 2:14 PM

CAS No.	Analyte	Concentration	Units
001336-36-3	Aroclor 1254	0.71	mg/kg

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

SAMPLE RESULTS - BATCH 140318B

09-Apr-14 **Project:** Other **Customer:** FOSC

Field Sample ID: B STAND SOIL #6

List Type: % Solids

Sample ID: 141215 **Matrix:** Soil **Analyst:** (b)(4) **Date Received:** 3/18/2014 12:47:18 PM **Date Analyzed:** 4/2/2014 2:55:00 PM

Analyte	Concentration	Units
% Solids	90.7	%

List Type: ICP Metals - EPA Method 200.7

Sample ID: 141215 **Matrix:** Soil **Analyst:** (b)(4) **Date Received:** 3/18/2014 12:47:18 PM **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	Al309.	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	Tl190.	< 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 8082

Sample ID: 141215 **Matrix:** Soil **Analyst:** (b)(4) **Date Received:** 3/18/2014 12:47:18 PM **Date Analyzed:** 4/9/2014 2:29 PM

CAS No.	Analyte	Concentration	Units
001336-36-3	Aroclor 1254	0.46	mg/kg

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

SAMPLE RESULTS - BATCH 140318B

09-Apr-14 **Project:** Other **Customer:** FOSC

Field Sample ID: B STAND SOIL #7

List Type: % Solids

Sample ID: 141216 **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	84	%

List Type: ICP Metals - EPA Method 200.7

Sample ID: 141216 **Matrix:** Soil **Date Received:** 3/18/2014 12:47:18 PM
Analyst: (b)(4) **Date Analyzed:** 4/4/2014 2:52:38 PM

CAS No.	Analyte	Concentration	Units
007440-22-4	Ag328.	0.18	mg/kg
007429-90-5	Al309.	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
007439-96-5	Mn257.	111	mg/kg
007440-02-0	Ni221.	10.0	mg/kg
007439-92-1	Pb220.	581	mg/kg
007440-36-0	Sb206.	0.54	mg/kg
007782-49-2	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	Tl190.	< 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 8082

Sample ID: 141216 **Matrix:** Soil **Date Received:** 3/18/2014 12:47:18 PM
Analyst: (b)(4) **Date Analyzed:** 4/9/2014 2:45 PM

CAS No.	Analyte	Concentration	Units
001336-36-3	Aroclor 1254	0.60	mg/kg

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

SAMPLE RESULTS - BATCH 140318B

09-Apr-14 **Project:** Other **Customer:** FOSC

Field Sample ID: B STAND SOIL #8

List Type: % Solids

Sample ID: 141217 **Matrix:** Soil **Analyst:** (b)(4) **Date Received:** 3/18/2014 12:47:18 PM **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: 141217 **Matrix:** Soil **Analyst:** (b)(4) **Date Received:** 3/18/2014 12:47:18 PM **Date Analyzed:** 4/4/2014 2:56:10 PM

CAS No.	Analyte	Concentration	Units
007440-22-4	Ag328.	0.029	mg/kg
007429-90-5	Al309.	1642	mg/kg
007440-38-2	As189.	< 0.11	mg/kg
007440-42-8	B249.7	< 0.03	mg/kg
007440-39-3	Ba455.	12.2	mg/kg
007440-41-7	Be313.	0.085	mg/kg
007440-43-9	Cd228.	0.36	mg/kg
007440-48-4	Co228.	18.39	mg/kg
007440-47-3	Cr267.	1.76	mg/kg
007440-50-8	Cu327.	46.9	mg/kg
007439-96-5	Mn257.	103	mg/kg
007440-02-0	Ni221.	13.8	mg/kg
007439-92-1	Pb220.	240	mg/kg
007440-36-0	Sb206.	1.24	mg/kg
007782-49-2	Se196.	< 0.21	mg/kg
007440-21-3	Si251.	1552	mg/kg
007440-31-5	Sn189.	2.47	mg/kg
007440-24-6	Sr407.	5.80	mg/kg
007440-32-6	Ti334.	22.6	mg/kg
007440-28-0	Tl190.	< 0.18	mg/kg
007440-62-2	V292.4	10.8	mg/kg
007440-66-6	Zn213.	150	mg/kg

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

List Type: PCBs – Method 8082

Sample ID: 141217 **Matrix:** Soil **Analyst:** (b)(4) **Date Received:** 3/18/2014 12:47:18 PM **Date Analyzed:** 4/9/2014 3:00 PM

CAS No.	Analyte	Concentration	Units
001336-36-3	Aroclor 1254	0.80	mg/kg

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

NASA /ENVIRONMENTAL
SCIENCE LABORATORY SERVICES
STENNIS SPACE CENTER
STENNIS, MS 39529
228-688-1447 688-1039 (Fax)

CHAIN-OF-CUSTODY RECORD

ANALYSIS REQUEST

Project Name: **B Stand Soil Samples**
C-O-C Number: BATCH 1403188

PAGE 1 OF 1

SAMPLER(S) Name (b)(4) | NASA Environmental Office - SSC Ph (228) 688-7384 | (b)(4) | DATE 03-18-14 TIME 12:47
SAMPLER(S) Signature | Bldg 1100 Rm 3012B, Stennis Space Center, MS 39529 | DATE 3.18.14 TIME 12:47
REPORT DUE DATE | FAX (228)688-2660 | SAMPLE DESTROYED BY DATE TIME

Sampling year is: **2014**

Temperature on Arrival_____ C°

DATE	TIME	NUMBER OF CONTAINERS	(G)rab or (C)omposite SAMPLE TYPE	SAMPLE NUMBER	SAMPLE NAME	Total Metals	PCBs	HNO3	HCl	H2SO4	NaOH
03/18/14	11:44	1	G	141210	B Stand Soil Sample # 1	X	X				
03/18/14	11:50	1	G	141211	B Stand Soil Sample # 2	X	X				
03/18/14	11:58	1	G	141212	B Stand Soil Sample # 3	X	X				
03/18/14	12:04	1	G	141213	B Stand Soil Sample # 4	X	X				
03/18/14	12:09	1	G	141214	B Stand Soil Sample # 5	X	X				
03/18/14	12:15	1	G	141215	B Stand Soil Sample # 6	X	X				
03/18/14	12:15	1	G	141216	B Stand Soil Sample # 7	X	X				
03/18/14	12:25	1	G	141217	B Stand Soil Sample # 8	X	X				

REMARKS:

XX51 - 0PFL - 00 00 - b stand soil samples

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

Page 61 redacted for the following reason:
- -
(b)(7)

IATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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

CERTIFICATE OF ANALYSIS

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

Report Date: 1/5/2015
Report Number: 353752
Project: B2 East Pier Handrail
Project No.: 6510-2014

LEAD PAINT SAMPLE ANALYSIS SUMMARY

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

Accreditations: NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

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: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0044% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 12/31/2014
Date Analyzed: 1/5/2015
Analyst: (b)(4)

Approved By: (b)(4)
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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
Office Address:	Building 1100 Suite 213G	**Project Name:**	B2 East Pier Handrail
City, State, Zip:	Stennis Space Center, MS 39529	**Primary Contact:**	(b)(4)
Fax Number:	228.688.6456	**Office Phone:**	
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 _____

E-MAILED 1/6/15 NG

Special Instructions:

Please analyze for lead and total chromium. PO (b)(4)

Turnaround Time

Preliminary Results Requested Date: _____ (Specific date / time)

☐ 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

Relinquished (Name/Organization	(b)(4)	Date: 12/30/14	Time: EOD EST
Received (Name / iATL):		Date:	Time:
Sample Login (Name / iATL):	(b)(4)	Date: 1/2/2015	Time:
Analysis(Name(s) / iATL):		Date:	Time: DEC
QA/QC Review (Name / iATL):		Date:	Time:
Archived / Released: _____ QA/QC InterLAB Use: _____		Date:	Time:

IATL - D

(b)(4)

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Sample Log

–Environmental Lead –

Client: Jacbos (Stennis Space Center) Project: 6510-2014

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

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
6510-2014-001	5516146	B2 East Pier South Stairwell/Paint-Grey on Orange	-	-	-	-	
6510-2014-002	5516147	B2 East Pier North Stairwell/Paint-Grey on Orange	-	-	-	-	

* = *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.

All correspondence and remittances to:
JACOBS TECHNOLOGY INC.
Building 2204
Stennis Space Center, MS. 39529-6000

Purchase Order

Purchase Order Number: (b)(4)

MOD: 0

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

Vendor: INTERNATIONAL ASBESTOS TESTING LAB 9000 COMMERCE PARKWAY SUITE B MT LAUREL, NJ 08054 Attn: N/A	Ship To: JACOBS TECHNOLOGY BLDG 2204 STENNIS SPACE CENTER, MS 39529

Vendor Code:	Date:	Ship Via:	Allot. No. Rating Certified under DMS. Regulation No. 1
4965	29-DEC-2014	FEDX OVERNT	**DO-09**
Direct Inquiries to: Buyer: (b)(4)		F.O.B.: DESTINATION	
		Terms: NET 30	Contract No. NNS07AB21C

Business Size: SMALL BUSINESS

Delivery Schedule: When equipment is to be delivered under this order, it should be delivered to the "Ship To" address above no later than: 31-JAN-2015

Description

For a complete list of the Supplies/Services to be provided under this order - See the Continuation sheets

This Purchase Order is Exempt from Mississippi Sales/UseTaxes pursuant to Regulation A, Permit Number JB215320-23.

"The Seller is responsible for the delivery of each item quantity within allowable variations, if any. If the Seller delivers and Jacobs Technology Inc. receives quantities of any item in excess of the quantity called for (after considering any allowable variations in quantity), such excess quantities will be treated as being delivered for the convenience of the Seller. Jacobs Technology Inc. may retain such excess quantities up to **$250** in value without compensating the Seller therefor, and the Seller waives all rights, title or interests therein. Quantities in excess of **$250** will, at the option of Jacobs Technology Inc., **either be returned at the Seller's expense or be retained and paid for by Jacobs Technology Inc.** at the contract unit price."

Three copies of the packing list shall be included in each shipment. Two copies inside and one copy on the outside of container number one (1). Submit bills of lading or other pertinent documentation to support freight cost in excess of **$50.00.** Immediately prior to shipment Seller shall notify Buyer of all shipping information and estimated time of arrival.

Jacobs FOSC Group STANDARD PROVISIONS, are made a part hereof and incorporated by reference.

THIS ORDER IS PLACED PURSUANT TO **NASA PRIME CONTRACT NUMBER: NNS07AB21C.**

This is a DO-09 rated order certified for national defense use, and the Contractor shall follow all the requirements of the Defense Priorities and Allocations Systems Regulation (15 CFR 700)

Your order is hereby acknowledged and accepted
Shipment will be made in accordance with above schedule

Date of Acceptance

Vendor's Name

Accredited Signing Party and Title

Mail all Invoices
Direct to

Jacobs Technology Inc.
Stennis Space Center
Building 1100 RM 1017B
Stennis Space Center, MS. 39529-6000
Attention: Accounts Payable

(b)(4)

Original

All correspondence and remittances to:
JACOBS TECHNOLOGY INC.
Building 2204
Stennis Space Center, MS. 39529-6000

Purchase Order

Purchase Order Number: (b)(4)
MOD: 0

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

	Quantity	Unit	Unit Price	Extended Price
Item: 1 Desc: PR IS INITIATED TO COVER COSTS FOR ANALYSIS OF 2 SAMPLES BEING SHIPPED TO IATL. THE SAMPLES WERE COLLECTED FROM THE B2 TEST STAND EAST PIER STAIRWELLS AND WILL BE ANALYZED FOR LEAD AND CHROMIUM. EHP-6510-2014. SEND THE ANALYSIS REPORT TO (b)(4)				
Model No Part No:	2	EA	$31.00	$62.00
New NSN#: -----				
Equipment: No				
Warranty Months: VPR Code1: 01 VPR Code2: VPR Code3: VPR Code4:				
Item: 2 Desc: COST OF SHIPPING SAMPLES OVERNIGHT PRIORITY FROM SSC TO THE LAB				
Model No Part No:	1	EA	$25.00	$25.00
New NSN#:				
Warranty Months: VPR Code1: 01 Equipment: No VPR Code2: VPR Code3: VPR Code4:				
Total PO Price:				$87.00

All correspondence and remittances to:
JACOBS TECHNOLOGY INC.
Building 2204
Stennis Space Center, MS. 39529-6000

Purchase Order

Purchase Order Number: (b)(4)

MOD: 0

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

Special Instructions:

None

IATL International Asbestos Testing Laboratories

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: 01 / 05 / 15)

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

AIHA-LAP, LLC No. 100188 **NYSDOH-ELAP No. 11021**

Analysis Method: ASTM D3335-85A
NIOSH 7082
EPA SW846 3050B 7000B

Comments: IATL assumes that all sampling complies with accepted methods.
All client supplied sampling data is assumed to be correct when calculating results.
Detection limit based upon 0.2 mg/L reporting limit and sample size.
* NIST Traceable.
** 80-120% acceptable limits.

Analyzed By: (b)(4)

Date: 1/5/15

Approved By (b)(4)
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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:**	6533-2015
Office Address:	Building 1100 Suite 213G	**Project Name:**	B1 L8 Vessels
City, State, Zip:	Stennis Space Center, MS 39529	**Primary Contact:**	(b)(4)
Fax Number:	228.688.6456	**Office Phone:**	
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 _____

E-MAILED

Special Instructions:

Please analyze for lead and total chromium.

PO (b)(4)

Turnaround Time

Preliminary Results Requested Date: Same Day (Specific date / time) ☐ 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

Relinquished (Name/Organization)	(b)(4)	Date: 2/5/15	Time:
Received (Name / iATL):		Date:	Time:
Sample Login (Name / iATL):		Date: 2/6/15	Time:
Analysis(Name(s) / iATL):	(b)(4)	Date:	Time:
QA/QC Review (Name / iATL):		Date:	Time:
Archived / Released: _____ QA/QC InterLAB Use: _____		Date:	Time:

RECEIVED FEB - 6 2015 IATL

(b)(4)

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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

Sample Log

–Environmental Lead –

Client: Jacobs (Stennis Space Center) Project: 6533-2015

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

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
6533-2015-001	5544470	B1 L8 North Vessel					
6533-2015-002	5544471	B1 L8 North Vessel					

** = 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.

IATL
International Asbestos
Testing Laboratories

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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 (mg)	Percent 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 *		
Matrix spike - Air *		
2.5 ppm Standard	0.25	101
10.0 ppm Standard	1.0	102
40.0 ppm Standard	4.0	98

AIHA-LAP, LLC No. 100188 **NYSDOH-ELAP No. 11021**

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: (b)(4)

Date: 2/6/15

Approved By: (b)(4)
Laboratory Director

IATL International Asbestos Testing Laboratories

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

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

Lab No.	Client No.	Description / Location	Chromium Concentration (% By Weight)
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 (<50 mg) *** Matrix / substrate interference possible.

Date Received: 2/6/2015
Date Analyzed: 2/6/2015
Analyst: (b)(4)

Approved By: (b)(4)
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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:**	6533-2015
Office Address:	Building 1100 Suite 213G	**Project Name:**	B1 L8 Vessels
City, State, Zip:	Stennis Space Center, MS 39529	**Primary Contact:**	(b)(4)
Fax Number:	228.688.6456	**Office Phone:**	
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 _____

E-MAILED 2/6/15 KC

Special Instructions:

Please analyze for lead and total chromium.

PO (b)(4)

Turnaround Time

Preliminary Results Requested Date: Same Day (Specific date / time) ☐ 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

Relinquished (Name/Organization)	(b)(4)	Date: 2/5/15	Time:
Received (Name / iATL):		Date:	Time:
Sample Login (Name / iATL):	(b)(4)	Date: 2/6/15	Time:
Analysis(Name(s) / iATL):		Date:	Time:
QA/QC Review (Name / iATL):		Date:	Time:
Archived / Released: _____ QA/QC InterLAB Use: _____		Date:	Time:

RECEIVED FEB - 6 2015 iATL (b)(4)

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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

Sample Log

–Environmental Lead –

Client: Jacobs (Stennis Space Center) Project: 6533-2015

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

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
6533-2015-001	5544470	B1 L8 North Vessel					
6533-2015-002	5544471	B1 L8 North Vessel					

* = *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.

IATL International Asbestos Testing Laboratories

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

Analyzed By: (b)(4)

Date: 2/6/15

Approved (b)(4)

Laboratory Director

ATL
RNATIONAL
ASBESTOS TESTING LABORATORIES

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:**	6534-2015
Office Address:	Building 100, Suite 213D	**Project Name:**	B2 Soft Core
City, State, Zip:	Stennis Space Center, MS, 39529	**Primary Contact:**	(b)(4)
Fax Number:		**Office Phone:**	
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 _____

E-MAILED 2/10/15 NG

Special Instructions: P.O. (b)(4)

Turnaround Time

Preliminary Results Requested Date: 1/9/15 (Specific date / time)

☐ 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

Relinquished (Name/Organization	(b)(4)	Date: 2/6/15	Time: 12:50 PM
Received (Name / iATL):		Date: 2/6/2015	Time: RECEIVED
Sample Login (Name / iATL):	(b)(4)	Date: 2/10/15	Time:
Analysis(Name(s) / iATL):		Date:	Time: FEB 10 20
QA/QC Review (Name / iATL):		Date:	Time:
Archived / Released: _____ QA/QC InterLAB Use: _____		Date:	Time:

iATL By (b)(4)

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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

Sample Log

–Environmental Lead –

Client: Jacobs (Stennis Space Center) Project: 6534-2015

Sampling Date/Time: 2/5/2015

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
001	5546484	Cleanroom floor				100 cm2	
002	5546485	21 ft. outside cleanroom entrance				100 cm2	
003	5546486	2 ft. outside cleanroom entrance				156.45 cm2	
004	5546487	31 ft. outside cleanroom entr., Facility Spares				100 cm2	
005	5546488	8 ft. outside cleanroom entr., elevator call panel				100 cm2	
006	5546489	Level 12, below cleanroom entrance				100 cm2	
007	5546490	Inside west elevator, floor				100 cm2	
008	5546491	Inside #2 (west) elevator, call panel				100 cm2	
009	5546492	(Blank)				0 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.
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.

National Aeronautics and Space Administration
John C. Stennis Space Center
Stennis Space Center, MS 39529-6000

REQUEST FOR SHIPPING NOTICE
(Implemented by NPG 4100.1)

SHIP TO:

International Asbestos Testing Laboratory
9000 Commerce Parkway, Suite B
Mt. Laurel, New Jersey 08054
Ph. 877-428-4285, 856-231-9449
Fx. 856-231-9818

IMPORTANT INSTRUCTION:

SN No.

THE MATERIAL LISTED BELOW IS BEING SHIPPED TO YOU FOR THE FOLLOWING REASONS:

- ☐ REPAIR OR REPLACE AT VENDOR'S EXPENSE
- ☐ LOAN
- ☐ NOT TO BE RETURNED (NO CHARGE)
- ☐ RETURN FOR CREDIT
- ☐ INSPECT, ADVISE REPAIR COST OBTAIN AUTHORIZING P.O. BEFORE REPAIRING
- ☐ RETURN OF A LOAN
- ☐ INCORRECT MATERIAL NOT ABLE TO IDENTIFY
- ☒ OTHER, SEE BELOW
- ☐ TO BE INCORPORATED IN OTHER EQUIPMENT BEING BUILT FOR US
- ☐ OVERSHIPMENT
- ☐ FOR PROCESSING BY YOU PER INSTRUCTIONS BELOW

THIS MATERIAL WAS ORIGINALLY SHIPPED TO US ON OUR ORDER

TERMS OF THAT ORDER STILL APPLY

DISCREP. AND CORRECTION NO.

QUANTITY	U/I	DESCRIPTION	FOR ACCOUNTING USE ONLY UNIT PRICE	TOTAL PRICE
		Surface wipe samples		

REMARKS: P.O. (b)(4)

ADDRESS ALL CORRESPONDENCE TO:

SHIPPING

CHECKED BY	(b)(4)	FROM	SSC
PACKED BY		HOW SHIPPED	UPS
BOX TYPE	USPS	WAYBILL NO.	
MARKED BY	(b)(4)	CAR INITIALS NO.	
SHIPPED BY		☑ PREPAID ☐ COLLECT ☐ BY CONSIGNEE	
WEIGHT	1 lbs	TRANSPORTATION CHGS. $	

APPROVED BY: (b)(4)

DATE 2/6/2015

REQUESTOR (b)(4)

EXT. 8-1234

SSC-280 (08/99) (MS Word 97) C.G. (08/99) pc

IATL International Asbestos Testing Laboratories

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 / 10 / 15)

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

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: (b)(4)

Date: 2/10/15

Approved By: (b)(4)

Laboratory Director

IATL **International Asbestos Testing Laboratories**

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

CERTIFICATE OF ANALYSIS

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

Report Date: 2/10/2015
Report Number: 356104
Project: B2 Soft Core; 2/5/15
Project No.: 6534-2015

LEAD WIPE SAMPLE ANALYSIS SUMMARY

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

Accreditation: **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analysis Method: EPA SW846-3050B:7000B "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges And Sediments By AAS"

Comments: Regulatory limit varies by surface location (EPA/HUD guidelines). Unless otherwise stated, results assume one square foot sampled. Method requires submittal of blanks. IATL assumes that all of the sampling methods and data upon which these results are based, have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD= 0.2 ppm MDL=4.4 µg/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 analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 2/10/2015
Date Analyzed: 2/10/2015
Analyst: (b)(4)

Approved By (b)(4)
(b)(4)
Laboratory Director

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

OrderID: 251501885

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

Company: Jacobs FOSC GROUP
Street: BUILDING 1100, SUITE 213G
City: Pemis Space Center | State/Province: MS | Zip/Postal Code: 39529 | Country: USA
Report To (Name): (b)(4) | Telephone #: (b)(4)
Email Address: (b)(4) | Fax #: 228.688.6456 | Purchase Order:
Project Name/Number: 6544-2015 | Please Provide Results: ☐ Fax ☑ Email
U.S. State Samples Taken: MS | CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt

EMSL-Bill to: ☑ Same ☐ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authonzation from third party

Pur (b)(4)

Turnaround Time (TAT) Options* - Please Check

~~☐ 3 Hour~~ ☑ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0 4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0 1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1 2 µg/filter	☐
Other:				☐

Name of Sampler: 3/30/2015 | Signature of Sampler: (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
33015-001	L11 FLOOR BOTTOM OF STAIRWELL	1 ft²	3/30/15, 9-3
33015-002	L11 FLOOR BEHIND GATE C1109	"	"
33015-003	L11 FLOOR UNDER GN HEATER PANEL	"	"
33015-004	L11 TOP OF LIGHT FIXTURE	"	"
33015-005	L11 BEAM N. WALL 3' HIGH	"	"

Client Sample #'s: 001 - 04 | Total # of Samples: 4

Relinquished (Client): | Date: | Time:

Received (Lab): (b)(4) | Date: 3/31/15 | Time: 8:00 am

Comments:

Rg. Eddy

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

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
33015-006	L11 FLOOR IN FRONT C1103	1 ft²	3/30/15 9-3p
33015-007	L12 FLOOR BOTTOM OF STAIRWELL	"	"
33015-008	L12 ~~GATE DOOR~~ C1206 STORAGE DOOR	"	"
33015-009	L12 TOP OF LIGHT FIXTURE	"	"
33015-010	L12 BEAM ON WEST WALL 5' HIGH	"	"
33015-011	L13 C1307 STORAGE DOOR (#8)	"	"
33015-012	L13 HANDRAIL	"	"
33015-013	L14 NORTH HANDRAIL	"	"
33015-014	L14 SOUTH HANDRAIL	"	"
33015-015	L14 BEAM NE CORNER	"	"
33015-016	L15 BEAM NORTH	"	"
33015-017	L15 SOUTH HANDRAIL	"	"
33015-018	L15 ½ STAIRWELL LANDING	"	"
33015-019	L15 TOP OF H_2O TANK 2	"	"
33015-020	L16 BEAM - SOUTH 6' HIGH	"	"
33015-021	L16 MIDDLE HANDRAIL	"	"
33015-022	L16 SECOND STEP	"	"
33015-023	L16 TOP OF LIGHT FIXTURE	"	"

Comments/Special Instructions:

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

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
33015-024	L17 Transformer 001574	144 in²	3/30/15
33015-025	Level 17 I Beam NE Corner 5th up	144 in²	3/30/15
33015-026	L17 Top of [illegible] Cable Tray to Elevator		
33015-027	[illegible] Top of Light fixture		
33015-028	I-Beam South wall		
33015-029	Top of Electrical Panel LP-117		
33015-030	I beam SW Corner	144 in²	
33015-031	Top of Unit Northwest		
33015-032	I-Beam North East		
33015-033	Top of Light in GCP3		
33015-034	Floor		
33015-035	Table in C-904		
33015-036	[illegible] Floor in 904		
33015-037	I Beam NW 5" up		
33015-038	Beam on East wall		
33015-039	Handrail		
33015-040	[illegible] I-Beam 12" up South wall		
33015-041	Light fixture above fire extinguisher		

Comments/Special Instructions:

Page 3 of 3 pages

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO:
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/31/15 8:00 AM
Collected: 3/30/2015

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*
33015-001	*251501885-0001*	3/30/2015	3/31/2015	144 in²	2400 µg/ft²
	Site: L11 Flr 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 in²	920 µg/ft²
	Site: L11 Flr Under GN Heater Panel				
33015-004	*251501885-0004*	3/30/2015	3/31/2015	144 in²	790 µg/ft²
	Site: L11 Top of Light Fixture				
33015-005	*251501885-0005*	3/30/2015	3/31/2015	144 in²	300 µg/ft²
	Site: L11 Beam N Wall 3' High				
33015-006	*251501885-0006*	3/30/2015	3/31/2015	144 in²	210 µg/ft²
	Site: L11 Flr in Front C1103				
33015-007	*251501885-0007*	3/30/2015	3/31/2015	144 in²	1200 µg/ft²
	Site: L12 Flr Bottom of Stairwell				
33015-008	*251501885-0008*	3/30/2015	3/31/2015	144 in²	110 µg/ft²
	Site: L12 C1206 Storage Door				
33015-009	*251501885-0009*	3/30/2015	3/31/2015	144 in²	590 µg/ft²
	Site: L12 Top of Light Fixture				
33015-010	*251501885-0010*	3/30/2015	3/31/2015	144 in²	260 µg/ft²
	Site: L12 Beam on W Wall 5' High				
33015-011	*251501885-0011*	3/30/2015	3/31/2015	144 in²	160 µg/ft²
	Site: L13 C1307 Storage Door				
33015-012	*251501885-0012*	3/30/2015	3/31/2015	144 in²	33 µg/ft²
	Site: L13 Handrail				
33015-013	*251501885-0013*	3/30/2015	3/31/2015	144 in²	140 µg/ft²
	Site: L14 N Handrail				
33015-014	*251501885-0014*	3/30/2015	3/31/2015	144 in²	21 µg/ft²
	Site: L14 S Handrail				
33015-015 ***	*251501885-0015*	3/30/2015		n/a	µg/wipe
	Site: L14 Beam NE Corner				
	*** Not submitted.				

(b)(4)
(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 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

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO:
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/31/15 8:00 AM
Collected: 3/30/2015

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 in²	1000 µg/ft²
	Site: L15 S Handrail				
33015-018	*251501885-0018*	3/30/2015	3/31/2015	144 in²	1600 µg/ft²
	Site: L15 1/2 Stairwell Landing				
33015-019	*251501885-0019*	3/30/2015	3/31/2015	144 in²	620 µg/ft²
	Site: L15 Top of H20 Tank 2				
33015-020	*251501885-0020*	3/30/2015	3/31/2015	144 in²	200 µg/ft²
	Site: L16 Beam S 6' High				
33015-021	*251501885-0021*	3/30/2015	3/31/2015	144 in²	34 µg/ft²
	Site: L16 Middle Handrail				
33015-022	*251501885-0022*	3/30/2015	3/31/2015	144 in²	1600 µg/ft²
	Site: L16 Second Step				
33015-023	*251501885-0023*	3/30/2015	3/31/2015	144 in²	570 µg/ft²
	Site: L16 Top of Light Fixture				
33015-024	*251501885-0024*	3/30/2015	3/31/2015	144 in²	71 µg/ft²
	Site: L17 Transformer 001374				
33015-025	*251501885-0025*	3/30/2015	3/31/2015	144 in²	220 µg/ft²
	Site: Level 17 I Beam NE Corner				
33015-026	*251501885-0026*	3/30/2015	3/31/2015	144 in²	1500 µg/ft²
	Site: L17 Top of Table Tray				
33015-027	*251501885-0027*	3/30/2015	3/31/2015	144 in²	400 µg/ft²
	Site: Top of Light Fixture				
33015-028	*251501885-0028*	3/30/2015	3/31/2015	144 in²	330 µg/ft²
	Site: I-Beam S				
33015-029	*251501885-0029*	3/30/2015	3/31/2015	144 in²	3300 µg/ft²
	Site: Top of Electrical Panel LP-117				
33015-030	*251501885-0030*	3/30/2015	3/31/2015	144 in²	31 µg/ft²
	Site: I beam SW Corner				

(b)(4)
(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 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

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO:
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/31/15 8:00 AM
Collected: 3/30/2015

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*
33015-031	*251501885-0031*	3/30/2015	3/31/2015	144 in²	220 µg/ft²
	Site: Top of Unit NW				
33015-032	*251501885-0032*	3/30/2015	3/31/2015	144 in²	510 µg/ft²
	Site: I-Beam NE				
33015-033	*251501885-0033*	3/30/2015	3/31/2015	144 in²	8100 µg/ft²
	Site: Top of Light at C1803				
33015-034	*251501885-0034*	3/30/2015	3/31/2015	144 in²	1600 µg/ft²
	Site: Floor				
33015-035	*251501885-0035*	3/30/2015	3/31/2015	144 in²	100 µg/ft²
	Site: Table in C904				
33015-036	*251501885-0036*	3/30/2015	3/31/2015	144 in²	1000 µg/ft²
	Site: Floor in 904				
33015-037	*251501885-0037*	3/30/2015	3/31/2015	144 in²	300 µg/ft²
	Site: I Beam NW 5" up				
33015-038	*251501885-0038*	3/30/2015	3/31/2015	144 in²	39 µg/ft²
	Site: Beam on E Wall				
33015-039	*251501885-0039*	3/30/2015	3/31/2015	144 in²	15 µg/ft²
	Site: Handrail				
33015-040	*251501885-0040*	3/30/2015	3/31/2015	144 in²	180 µg/ft²
	Site: I-Beam 2' up S Wall				
33015-041	*251501885-0041*	3/30/2015	3/31/2015	144 in²	1200 µg/ft²
	Site: Light fixture above fire extinguisher				

(b)(4)
(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 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

OrderID: 251501212

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

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

Company: Jacobs FOSC Group	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: Building 1100, Ste 2136	
City: ~~Stennis Space Center~~ Waveland (KD) **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** USA
Report To (Name): (b)(4)	**Telephone #:** (b)(4)
Email Address: (b)(4)	**Fax #:** 228-688-6456 **Purchase Order:** (b)(4)
Project Name/Number: 6544-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check (KD)

☑ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed (KD)	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
3315-001	Middle Table	1 sq foot	3/3/15 8:00am
3315-002	Micro wave Table	↓	↓
3315-003	Floor near Refridgerator		
3315-004	Floor near Entrance	↓	
3315-005	Microwave Turn table	154 inches	↓

Client Sample #'s 3315-001 - 3315-011 **Total # of Samples:** 11

Relinquished (Client) (b)(4)	**Date:**	3/3/15 3/3/5	**Time:**	2:30pm 2:30 pm
Received (Lab):	**Date:**	3/04/15	**Time:**	11:20 am

Comments:

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

Rg. Fedex

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

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
3315-006	Middle Table	1 sq foot	3/5/15 1330
3315-007	Microwave Table	↓	↓
3315-008	Floor near refrigerator	↓	↓
3315-009	Floor near entrance	↓	↓
3315-010	N/A	N/A	—
3315-011	N/A	N/A	—

Comments/Special Instructions: Please email Results to:

(b)(4)

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/04/15 11:20 AM
Collected: 3/3/2015

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*
3315-001	*251501212-0001*	3/3/2015	3/4/2015	144 in²	<10 µg/ft²
	Site: Middle Table				
3315-002	*251501212-0002*	3/3/2015	3/4/2015	144 in²	16 µg/ft²
	Site: Microwave Table				
3315-003	*251501212-0003*	3/3/2015	3/4/2015	144 in²	1200 µg/ft²
	Site: Floor Near Refridgerator				
3315-004	*251501212-0004*	3/3/2015	3/4/2015	144 in²	930 µg/ft²
	Site: Floor Near Entrance				
3315-005	*251501212-0005*	3/3/2015	3/4/2015	154 in²	<9.4 µg/ft²
	Site: Microwave Turntable				
3315-006	*251501212-0006*	3/3/2015	3/4/2015	144 in²	<10 µg/ft²
	Site: Middle Table				
3315-007	*251501212-0007*	3/3/2015	3/4/2015	144 in²	12 µg/ft²
	Site: Microwave Table				
3315-008	*251501212-0008*	3/3/2015	3/4/2015	144 in²	250 µg/ft²
	Site: Floor Near refridgerator				
3315-009	*251501212-0009*	3/3/2015	3/4/2015	144 in²	170 µg/ft²
	Site: Floor Near entrance				
3315-010	*251501212-0010*	3/3/2015	3/4/2015	n/a	<10 µg/wipe
	Site: N/A				
3315-011	*251501212-0011*	3/3/2015	3/4/2015	n/a	<10 µg/wipe
	Site: N/A				

(b)(4)
(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 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 03/04/2015 14:30:57

OrderID: 251501252

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

Company: Jacobs FOSC Group	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: Building 1100, Suite 213G	
City: Waveland **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** USA
Report To (Name): (b)(4)	**Telephone #:** (b)(4)
Email Address (b)(4)	**Fax #:** 228-688-6456 **Purchase Order:** (b)(4)
Project Name/Number: 6544-2015	**Please Provide Results:** ☐ Fax ☑ Email (b)(4)
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1 0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0 075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0 001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3 6 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
001	Break Room floor near entrance	1 sq ft	3/5/15 08:00
002	Break Room near refrigerator		
003	on desk office 1 north office		
004	floor entrance office 1 north office		
005	on desk office 2 middle office		

Client Sample #'s 001 - 010 **Total # of Samples:** 10

Relinquished (Client): (b)(4) **Date:** 3/5/15 **Time:** 10:45

Received (Lab): **Date:** 3/05/15 **Time:** 1:20pm

Comments:

Courier

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

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 office	1 sq ft	3/5/15 09:00
007	on desk office 3 south office		
008	floor entrance office 3 South office		
009	cable tray		
010	Blank	N/A	N/A

Comments/Special Instructions:

KB Email results to (b)(4)

Page 2 of 2 (KB) pages

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

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/05/15 1:20 PM
Collected: 3/5/2015

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*
001	*251501252-0001*	3/5/2015	3/5/2015	144 in²	69 µg/ft²
	Site: Break Room floor Near entrance				
002	*251501252-0002*	3/5/2015	3/5/2015	144 in²	120 µg/ft²
	Site: Break Room Near refridgerator				
003	*251501252-0003*	3/5/2015	3/5/2015	144 in²	<10 µg/ft²
	Site: On desk office 1 N office				
004	*251501252-0004*	3/5/2015	3/5/2015	144 in²	25 µg/ft²
	Site: Floor entrance office 1 N office				
005	*251501252-0005*	3/5/2015	3/5/2015	144 in²	25 µg/ft²
	Site: On desk office 2 Middle office				
006	*251501252-0006*	3/5/2015	3/5/2015	144 in²	120 µg/ft²
	Site: Floor entrance office 2 middle office				
007	*251501252-0007*	3/5/2015	3/5/2015	144 in²	10 µg/ft²
	Site: On desk office 3 S office				
008	*251501252-0008*	3/5/2015	3/5/2015	144 in²	150 µg/ft²
	Site: Floor entrance office 3 S office				
009	*251501252-0009*	3/5/2015	3/5/2015	144 in²	300 µg/ft²
	Site: Cable tray				
010	*251501252-0010*	3/5/2015	3/5/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 03/05/2015 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

Company: Jacobs FOSC Group	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: Building 1100, Suite 2136	
City: Waveland **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** USA
Report To (Name): (b)(4)	**Telephone #:** (b)(4)
Email Address: (b)(4)	**Fax #:** 228-688-6456 **Purchase Order:** (b)(4)
Project Name/Number: BZ-Surv-01	**Please Provide Results:** ☐ Fax ☑ Email Pur
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☑ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0 5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0 4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200 9	Graphite Furnace AA	0 003 mg/L (ppm)	☐
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200 9	Graphite Furnace AA	0 003 mg/L (ppm)	☐
	EPA 200 8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3 6 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sample:** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
wipe 3316-001	Landing between level 10-11 stairwell	1 sq ft	3/4/15
wipe 3415-002	Outside near dust collectors	↓	3/4/15
wipe 005	BZ level 13, clean RM Floor	↓	3/5/15
wipe 006	Blank	N/A	3/5/15
chip 001	West Pier Stair grey on orange	N/A	3/5/15

Client Sample #'s - **Total # of Samples:** 12

Relinquished (Client): (b)(4) **Date:** 3/5/15 **Time:** 10:45

Received (Lab): **Date:** 3/05/15 **Time:** 1:20pm

Comments:

Courier

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)*: 1253

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

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

Sample #	Location	Volume/Area	Date/Time Sampled
chip 002	Gray LOC clamp Grey on yellow on orange	[redacted] DM	3/5/15 [redacted] DM
chip 003	B2 level 11, Soft Core Int. Siding lt grey on dark grey sparkles		3/5/15
chip 007	B 9101 support column		3/4/15
Air-001	Southside of containment level 11 B2	863.1 L	3/4/15 411min
Air-002	B2 Interface between 10-11	802 L	3/4/15 397min
Air-003	B2 ground Northside near dust collector	786 L	3/4/15 393min
Air-Blank	Blank	N/A	N/A

Comments/Special Instructions:

(KB) Email results to (b)(4)

Page 2 of 2 (2) pages

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/05/15 1:20 PM
Collected: 3/4/2015

Project: **B2-Surv-01**

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 level II B2				
Air-002	*251501253-0010*	3/4/2015	3/5/2015	802 L	<5.0 µg/m³
	Site: B2 Interface between 10-11				
Air-003	*251501253-0011*	3/4/2015	3/5/2015	786 L	<5.1 µg/m³
	Site: B2 ground N side near dust collectors				
Air-Blank	*251501253-0012*	3/4/2015	3/5/2015	n/a	<4.0 µg/filter
	Site: Blank				

(b)(4)
(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

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/05/15 1:20 PM
Collected: 3/4/2015

Project: **B2-Surv-01**

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.			

(b)(4)

(b)(4) Laboratory Manager
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

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/05/15 1:20 PM
Collected: 3/4/2015

Project: **B2-Surv-01**

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	*251501253-0001*	3/4/2015	3/5/2015	144 in²	1500 µg/ft²
	Site: Landing between level 10-11 stairwell				
3415-002	*251501253-0002*	3/4/2015	3/5/2015	144 in²	240 µg/ft²
	Site: Outside near dust collectors				
005	*251501253-0003*	3/4/2015	3/5/2015	144 in²	210 µg/ft²
	Site: B2 level 13, clean RM Floor				
006	*251501253-0004*	3/4/2015	3/5/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 03/05/2015 16:55:03

OrderID: 251501501

EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 1501

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

Company: Jacobs FOSC Group	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: Building 1100, Suite 213G	*Third Party Billing requires written authorization from third party*
City: Waveland **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** USA
Report To (Name): [redacted] (b)(4)	**Telephone #:** [redacted] (b)(4)
Email Address: [redacted]	**Fax #:** 228-688-6456 **Purchase Order:** [redacted] (b)(4)
Project Name/Number: 6548-2015 B2 Surv	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS @12100 ppd	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

[redacted] (b)(4) **Turnaround Time (TAT) Options* - Please Check**

☐ 3 Hour | ☑ 6 Hour | ~~☑ 24 Hour~~ | ☑ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
non ASTM ☐	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
*If no box is checked, non-ASTM Wipe is assumed	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
Preserved with HNO_3 pH < 2 ☐	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: [redacted] (b)(4) **Signature of Sampler:** [redacted] (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
Air-001	B2 Interface level 10 & 11	964.8 L	10/12/15 480min
Air-Blank	N/A	N/A	10/12/15
~~[illegible]~~	* SEE NEXT PAGE		

Client Sample #'s [redacted] (b)(4)		**Total # of Samples:**	9
Relinquished (Client)	**Date:** 3/15/15	**Time:**	10:00
Received (Lab):	**Date:** 3/17/15	**Time:**	9:50 am

Comments: Please [redacted] (b)(4)
[redacted] (b)(4)

Reg. Fedex

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only).*

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
Wipe-001-3-13-15	Mezzanine Break Room Table	1 ft²	3/13/15 840
Wipe-002-3-13-15	Mezzanine Break Room Microwave Table	"	" 843
Wipe-003-3-13-15	Mezzanine Entrance Break Room Floor	"	" 845
Wipe-004-3-13-15	Mezzanine SE Break Room Floor	"	" 850
Wipe-005-3-13-15	Lv 10 Stairwell Landing	"	" 9:10
Wipe-006-3-13-15	Lv 13 Cleanroom Floor	"	" 945
Wipe-007-3-13-15	Blank	—	3/13/15

Comments/Special Instructions:

Page 2 of 2 pages

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/17/15 9:50 AM
Collected: 10/12/2015

Project: **6548-2015 B2 SUPV**

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				

(b)(4)
(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 03/17/2015 16:23:53

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/17/15 9:50 AM
Collected: 3/13/2015

Project: **6548-2015 B2 SUPV**

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	*251501501-0003*	3/13/2015	3/17/2015	144 in²	10 µg/ft²
	Site: Mezzanine Break Rm Table				
Wipe-002-3-13-15	*251501501-0004*	3/13/2015	3/17/2015	144 in²	35 µg/ft²
	Site: Mezzanine Break Rm Microwave Table				
Wipe-003-3-13-15	*251501501-0005*	3/13/2015	3/17/2015	144 in²	420 µg/ft²
	Site: Mezzanine Entrance Break Rm Floor				
Wipe-004-3-13-15	*251501501-0006*	3/13/2015	3/17/2015	144 in²	240 µg/ft²
	Site: Mezzanine SE Break Rm Floor				
Wipe-005-3-13-15	*251501501-0007*	3/13/2015	3/17/2015	144 in²	1900 µg/ft²
	Site: Lv 10 Stairwell Landing				
Wipe-006-3-13-15	*251501501-0008*	3/13/2015	3/17/2015	144 in²	140 µg/ft²
	Site: Lv 13 Clean Room Floor				
Wipe-007-3-13-15	*251501501-0009*	3/13/2015	3/17/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 03/17/2015 16:23:53

OrderID: 251501649

11931 Industriplex Blvd.
Baton Rouge LA 70809

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

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 1649

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Company: TES	EMSL-Bill to: ☐ Same ☐ Different If Bill to Is Different note Instructions in Comments**
Street: 5133 Taravella Rd.	*Third Party Billing requires written authorization from third party*
City:	State/Province:	Zip/Postal Code:	Country:
Report To (Name	(b)(4)	Telephone #: (b)(4)	
Email Address: (b)(4)		Fax #:	Purchase Order: (b)(4)
Project Name/Number: ENV-1150 15068		Please Provide Results: ☐ Fax ☑ Email	
U.S. State Samples Taken:		CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

(b)(4)

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☑ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: Signature of Sampler:

Sample #	Location	Volume/Area	Date/Time Sampled
	See Next Page		

Client Sample #'s: Total # of Samples:

Relinquished (Client): (b)(4)	Date: 3/20/15	Time: 1:30 pm
Received (Lab):	Date: 3/23/15	Time: 8:20 am

Comments:

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

Page 1 of 2 pages

Rig. Index

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only):* 1649

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
B_S-Air1	Stairwell Between Floor 10 & 11	872 L	3/19/15
B_S-Air2	10th Floor Outside	900 L	3/19/15
B_S-Air3	Exhaust	912 L	3/19/15
B_{swipe}-1	Stairwell Between Floors 10 & 11	144 in^2	3/19/15
B_{swipe}-2	Bottom of 10th Floor Stairs	144 in^2	3/19/15
B_{swipe}-3	Clean Room Floor	144 in^2	3/19/15
B_{swipe}-4	Exhaust	144 in^2	

Comments/Special Instructions:

Page 2 of 2 pages

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO: (b)(4)
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 03/23/15 8:20 AM
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 Between Flr 10 & 11				
BsAir2	*251501649-0002*	3/19/2015	3/23/2015	900 L	<4.4 µg/m³
	Site: 10th Flr Outside				
BsAir3	*251501649-0003*	3/19/2015	3/23/2015	912 L	<4.4 µg/m³
	Site: Exhaust				

(b)(4)
(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 03/23/2015 14:46:23

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO: (b)(4)
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

Project: **ENV-1150 15068**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
Pbwipe-1	*251501649-0004*	3/19/2015	3/23/2015	144 in²	190 µg/ft²
	Site: Stairwell Between Flrs 10 & 11				
Pbwipe-2	*251501649-0005*	3/19/2015	3/23/2015	144 in²	110 µg/ft²
	Site: Bottom of 10th Flr Stairs				
Pbwipe-3	*251501649-0006*	3/19/2015	3/23/2015	144 in²	300 µg/ft²
	Site: Clean Rm Floor				
Pbwipe-4	*251501649-0007*	3/19/2015	3/23/2015	144 in²	170 µg/ft²
	Site: Exhaust				

(b)(4)
(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 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 03/23/2015 14:46:23

OrderID: 251501773

11931 Industriplex Blvd.
Baton Rouge LA 70809

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

EMSL ANALYTICAL, INC.

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only):* 1773

Company: TES	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note Instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 5133 Tacavella Rd.	
City:	**State/Province:** **Zip/Postal Code:** **Country:**
Report To (Name (b)(4)	**Telephone #:**
Email Address:	**Fax #:** **Purchase Order** (b)(4)
Project Name/Number: 1150 15068	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken:	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour ~~☐~~ ☑ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☑ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
W B2-1	Exhaust	144 in²	3/24 4:26 pm
W B2-2	Spring Between 10 & 11	144 in²	3/24 4:46 pm
W B2-3	Clean Room	144 in²	3/24 5:31 pm
W A1-1	Clean Room	144 in²	3/24 2:22 pm
W A1-2	Rep Floor	144 in²	3/24 2:38 pm

Client Sample #'s - **Total # of Samples:** ~~12~~ 6

Relinquished (Clie (b)(4) **Date:** **Time:**

Received (Lab): **Date:** 3/26/15 **Time:** 9:40 am

Comments:

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

6 wipes KB
6 cassettes KB

Reg. Tech

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)*: 1773

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
A,-3	EXhaust	144 in 2	2:50 3/24
B2 Air-1	Air Exhaust B2	1018.8L	4:19pm
B2 Air-2	Interface Bet. Level 10 & 11	971.1L	4:37pm
B2 Air3	Outside South of Containment	1081L	5:10pm
A,Air1	East Containment	1096L	6:25pm
A,Air2	West Containment	1090L	6:25pm
A,Air3	Near Dust Collector	1048.8L	6:37pm

w Cassettes #2

Comments/Special Instructions:

Page 2 of 2 pages

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO: (b)(4)
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

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	*251501773-0007*	3/24/2015	3/26/2015	1018.8 L	<3.9 µg/m³
	Site: Air Exhaust B2				
B2Air-2	*251501773-0008*	3/24/2015	3/26/2015	971.1 L	<4.1 µg/m³
	Site: Interface Bet. Level 10 & 11				
B2Air3	*251501773-0009*	3/24/2015	3/26/2015	1081 L	<3.7 µg/m³
	Site: Outside South of Cont.				
A1Air1	*251501773-0010*	3/24/2015	3/26/2015	1096 L	<3.6 µg/m³
	Site: East Containment				
A1Air2	*251501773-0011*	3/24/2015	3/26/2015	1090 L	<3.7 µg/m³
	Site: West Containment				
A1Air3	*251501773-0012*	3/24/2015	3/26/2015	1048.8 L	<3.8 µg/m³
	Site: Near Dust Collector				

(b)(4)
(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 03/26/2015 16:21:31

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO: (b)(4)
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

Project: **1150 15068**

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

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

(b)(4)
(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 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

OrderID: 251502002

11931 Industriplex Blvd Ste 10C
Baton Rouge, LA 70809

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

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2002

Same day (3 of 6 Ls)

Company: TES, Inc.	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 5133 Taravella Rd.	*Third Party Billing requires written authorization from third party*
City: Marrero **State/Province:** LA	**Zip/Postal Code:** 70072 **Country:** US
Report To (Nam (b)(4)	**Telephone #:** 504-348-3098
Email Address:	**Fax #:** **Purchase Order:**
Project Name/Number: IH 1150-15068	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: LA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour (RR)	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☐
Air (RR) ✓	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☑ (RR)
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
040215-Air-1	B-Stand Interior-11 Landing Interface	781.65 L	04/02/15 9:00
" - " -2	B-Stand Exterior-12 Landing	774.625 L	"
" - " -3	B-Stand Exterior-N side by exhaust	760.0 L	"
" - " -4	A1-Stand Exterior-1-NE side-N exhaust	748.0 L	"
" - " -5	A1-Stand Exterior-5-stairwell	742.0 L	"

Client Sample #'s **Total # of Samples:** 5

Relinquished (Client): (b)(4) **Date:** 04/02/15 **Time:** 17:00

Received (Lab): **Date:** 4/3/15 **Time:** 10:00am

Comments:

Controlled Document — Lead (Pb) COC – R8– 6/12/2012

Page 1 of 3 pages

Req. FedEx

OrderID: 251502002

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only):* 7002

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

11931 Industriplex Blvd Ste 100
Baton Rouge, LA 70809
EMSL ANALYTICAL, INC.
~~200 ROUTE 130 NORTH~~
~~CINNAMINSON, NJ 08077~~
PHONE. (800) 220-3675
FAX: (856) 786-5974

As Same day turnaround (3 - 6 hours)

Company: TES, Inc.	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 5133 Taravella Rd.	*Third Party Billing requires written authorization from third party*
City: Marrero **State/Province:** LA	**Zip/Postal Code:** 70072 **Country:** U.S.
Report To (Nam (b)(4)	**Telephone #:** 504-348-3098
Email Address:	**Fax #:** **Purchase Order:**
Project Name/Number: IH 150-15068	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour ☑ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☑ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
040215-Air-6	Al-Stand Exterior-W side-5-S containment	722.0 L	04/02/15
040215-Bulk-1	Al-Stand Exterior-5-base of stairs		"
040215-Wipe-1	Al-Stand Ext-5-Chem Pm Floor	(12"x12") 144 in²	"
" - " - 2	" " -5-base of stairs @containment	" "	"
" - " - 3	" " -4-I-beam on platform @grade	(10"x14.5") 145 in²	"

Client Sample #'s **Total # of Samples:** 5

Relinquished (Client): (b)(4) **Date:** 04/02/15 **Time:** 1700

Received (Lab): **Date:** 4/3/15 **Time:** 10:00am

Comments:

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

Page 2 of 3 pages

Req. FedEx

OrderID: 251502002

11931 Industriplex Blvd
Baton Rouge, LA 70809 Ste 100

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

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2002

Company: TES, Inc.	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 5133 Taravella Rd.	*Third Party Billing requires written authorization from third party*
City: Marrero **State/Province:** LA	**Zip/Postal Code:** 70072 **Country:** U.S.
Report To (Name): [redacted] (b)(4)	**Telephone #:** 504-348-3048
Email Address: [redacted] (b)(4)	**Fax #:** **Purchase Order:**
Project Name/Number: DH 1150-15068	**Please Provide Results:** ☐ Fax ☑ ~~Email~~
U.S. State Samples Taken: LA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ ~~3 Hour~~ (BR)	☑ ~~6 Hour~~	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed (BR)	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑ (BR)
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0 001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: [redacted] (b)(4) **Signature of Sampler:** [redacted] (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
040215-WIPE-4	A/1-Ground Floor-Ext-NE side-Northeast (12"x12")	144 in²	04/02/15
" " -5	B-Stand Ground Floor-Ext-N side-exterior concrete	"	"
" " -6	B-Stand Exterior-1-Clean Room	"	"
" " -7	B-Stand Interior-1-Mid Landing	"	"
" " -8	A/Stand-5-Exterior-Clean not to handrail (6"x24")	"	"

Client Sample #'s **Total # of Samples:** 5

Relinquished (Client): [redacted] (b)(4) **Date:** 04/02/15 **Time:** 17:00

Received (Lab): **Date:** 4/3/15 **Time:** 10:00am

Comments:

Req. FedEx

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

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	*251502002-0001*		4/3/2015	781.65 L	<5.1 µg/m³
	Site: B-Stand Int-11Landing				
040215-Air-2	*251502002-0002*		4/3/2015	779.625 L	<5.1 µg/m³
	Site: B-Stand Ext-12Landing				
040215-Air-3	*251502002-0003*		4/3/2015	760 L	<5.3 µg/m³
	Site: B-Stand Ext- Exhaust				
040215-Air-4	*251502002-0004*		4/3/2015	748 L	<5.3 µg/m³
	Site: A1-Stand Ext-1NE Side Exhaust				
040215-Air-5	*251502002-0005*		4/3/2015	742 L	<5.4 µg/m³
	Site: A1-Stand Ext-S Staircase				
040215-Air-6	*251502002-0006*		4/3/2015	722 L	<5.5 µg/m³
	Site: A1-Stand Ext-W side-5-S containment				

(b)(4)
(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 04/03/2015 15:01:05

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

Project: **IH 1150-15068**

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

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

(b)(4)
(b)(4) Laboratory Manager
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

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

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*
040215-Wipe-1	*251502002-0008*		4/3/2015	144 in²	310 µg/ft²
	Site: A1-Stand Ext-5-CleanRm Floor				
040215-Wipe-2	*251502002-0009*		4/3/2015	144 in²	560 µg/ft²
	Site: A1-Stand Ext-5-base stairs				
040215-Wipe-3	*251502002-0010*		4/3/2015	145 in²	380 µg/ft²
	Site: A1-Stand Ext-4-Ibeam Eside				
040215-Wipe-4	*251502002-0011*		4/3/2015	144 in²	<10 µg/ft²
	Site: 4/A1-Ground Floor Ext-NE				
040215-Wipe-5	*251502002-0012*		4/3/2015	144 in²	360 µg/ft²
	Site: B-Stand Ground Floor Ext-N exhaust				
040215-Wipe-6	*251502002-0013*		4/3/2015	144 in²	14 µg/ft²
	Site: B-Stand Int-13-CleanRm				
040215-Wipe-7	*251502002-0014*		4/3/2015	144 in²	<10 µg/ft²
	Site: B-Stand Int-11-Mid Land				
040215-Wipe-8	*251502002-0015*		4/3/2015	144 in²	170 µg/ft²
	Site: A1-Stand-5-Ext Ibeam				

(b)(4)
(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 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

11931 Industriplex Blvd.
Baton Rouge LA 70809

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

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2106

Company: TES		**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*	
Street: 5133 Taravella Rd.			
City: Marrero	**State/Province:** LA	**Zip/Postal Code:** 70072	**Country:** U.S.
Report To (Name [redacted]		**Telephone #:** 504-348-3098 [redacted]	
Email Address: [redacted]		**Fax #:**	**Purchase Order:**
Project Name/Number: IH 1150-15068		**Please Provide Results:** ☐ Fax ☑ Email	
U.S. State Samples Taken: MS		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour	☐ 6 Hour	☑ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☒ by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
non ASTM ☐	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
*if no box is checked, non-ASTM Wipe is assumed	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
Preserved with HNO_3 pH < 2 ☐	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: [redacted] **Signature of Sampler:** [redacted]

Sample #	Location	Volume/Area	Date/Time Sampled
040715-AIR-①	B-exhaust of dust collector	888 L	04/07/15
" -AIR-②	B-interface 10/11	837.4 L	↓
" -AIR-③	B-outside S containment	828 L	↓
" -AIR-④	A1-near dust collector	838 L	↓
" -AIR-⑤	A1-outside E containment	834 L	↓

Client Sample #'s			**Total # of Samples:**	13
Relinquished (Client):	[redacted]	**Date:** 04/07/15	**Time:**	17:00
Received (Lab):		**Date:** 4/08/15	**Time:**	9:45 am

Comments:

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

7 airs
6 wipes

Page 1 of 2 pages

Reg. Fedex

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only):* 2106

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

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

Sample #	Location	Volume/Area	Date/Time Sampled
040715-AIR-(6)	A1-outside W container	838.35L	04/07/15
040715-AIR-BLANK		—	
040715-WIPE-(1)	A1-outside dust collector	144 in²	
" -WIPE-(2)	A1-representative floor Soho stairs	144 in²	
" -WIPE-(3)	A1-clean room	144 in²	
" -WIPE-(4)	B-interface 10/11	144 in²	
" -WIPE-(5)	B-outside mar dust collector	144 in²	
" -WIPE-BLANK			

Comments/Special Instructions:

Page 2 of 2 pages

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

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

Project: **IH 1150-15068**

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

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

(b)(4)
(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 04/09/2015 08:14:50

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

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 in²	20 µg/ft²
	Site: A1-outside dust collector				
040715-WIPE-2	*251502106-0009*	4/7/2015	4/8/2015	144 in²	470 µg/ft²
	Site: A1-representative floor below stairs				
040715-WIPE-3	*251502106-0010*	4/7/2015	4/8/2015	144 in²	1300 µg/ft²
	Site: A1-clean room				
040715-WIPE-4	*251502106-0011*	4/7/2015	4/8/2015	144 in²	<10 µg/ft²
	Site: B-interface 10/11				
040715-WIPE-5	*251502106-0012*	4/7/2015	4/8/2015	144 in²	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				

(b)(4)
(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 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

OrderID: 201507917

EMSL ANALYTICAL, INC

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 201507917

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 If Bill to is Different note instructions in Comments**
Street: Building 1100 Suite 213G	*Third Party Billing requires written authorization from third party*
City: Stennis Space Center — State/Province: MS	Zip/Postal Code: 39529 — Country: United States
Report To (Name): (b)(4)	Telephone #: (b)(4)
Email Address: (b)(4)	Fax #: 228-688-3368 — Purchase Order: (b)(4)
Project Name/Number: 6548-2015	Please Provide Results: ☐ Fax ☑ Email
U.S. State Samples Taken: MS	CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☑ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *If no box is checked, non ASTM Wipe is assumed	SW846 7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) — Signature of Sampler

Sample #	Location	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 square foot	7/2/2015
Wipe-003	Blank	N/A	7/2/2015

Client Sample #'s: Air-001 - Wipe-003 — **Total # of Samples**: 5

Relinquished (Client): (b)(4) — 7/6/15 — **Time**: 1:00 pm

Received (Lab): 7/7/15 — **Time**: 1051 JK

Comments

Bill to Debbie Holler, deborah.a.holler@nasa.gov, Building 1100, Room 1017C, Stennis Space Center, MS 39529, 228-688-2141

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 07/07/15 10:05 AM
Collected: 7/2/2015

Project: **6548-2015**

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

Client Sample Description	*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 at Blast Level				
Air-002	*201507917-0002*	7/2/2015	7/8/2015	n/a	<4.0 µg/filter
	Site: Blank				

(b)(4)
(b)(4) Laboratory Director
NJ-NELAP Accredited:03036
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. 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

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 07/07/15 10:05 AM
Collected: 7/2/2015

Project: **6548-2015**

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	*201507917-0003*	7/2/2015	7/7/2015	144 in²	23 µg/ft²
	Site: Outside Clean Room, Level 13				
Wipe-002	*201507917-0004*	7/2/2015	7/7/2015	144 in²	28 µg/ft²
	Site: Equipment Room Floor, Level 13				
Wipe-003	*201507917-0005*	7/2/2015	7/7/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(b)(4) Laboratory Director
NJ-NELAP Accredited:03036
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 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

Company: Jacobs FOSC Group	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: Building 1100, Suite 2136	*Third Party Billing requires written authorization from third party*
City: Waveland **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** USA
Report To (Name): (b)(4)	**Telephone #:** (b)(4)
Email Address:	**Fax #:** 228-688-6456 **Purchase Order:** (b)(4)
Project Name/Number: B2-Surv-01	**Please Provide Results:** ☐ Fax ☑ Email Pur
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☑ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0 5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0 4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200 9	Graphite Furnace AA	0 003 mg/L (ppm)	☐
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200 9	Graphite Furnace AA	0 003 mg/L (ppm)	☐
	EPA 200 8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3 6 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
wipe 3316-001	Landing between level 10-11 stairwell	1 sq ft	3/4/15
wipe 3415-002	Outside near dust collectors	↓	3/4/15
wipe 005	B2 level 13, clean RM Floor	↓	3/5/15
wipe 006	Blank	N/A	3/5/15
chip 001	West Pier Stair grey on orange	N/A	3/5/15

Client Sample #'s - **Total # of Samples:** 12

Relinquished (Client): (b)(4) **Date:** 3/5/15 **Time:** 10:45

Received (Lab): **Date:** 3/05/15 **Time:** 1:20pm

Comments:

Courier

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)*: 1253

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

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

	Sample #	Location	Volume/Area	Date/Time Sampled
chip	002	Gray LOC clamp Grey on yellow or orange	[redacted] DM	3/5/15 [redacted] DM
chip	003	B2 level 11, Soft Core Int. Siding Itgrey on dark grey sparkles		3/5/15
chip	007	B 9101 support column		3/4/15
	Air-001	Southside of containment level 11 B2	863.1 L	3/4/15 411min
	Air-002	B2 Interface between 10-11	802 L	3/4/15 397min
	Air-003	B2 ground Northside near dust collector	786 L	3/4/15 393min
	Air-Blank	Blank	N/A	N/A

Comments/Special Instructions:

(b)(4) Email results to [redacted]

Page 2 of 2 (2) pages

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/05/15 1:20 PM
Collected: 3/4/2015

Project: **B2-Surv-01**

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 level II B2				
Air-002	*251501253-0010*	3/4/2015	3/5/2015	802 L	<5.0 µg/m³
	Site: B2 Interface between 10-11				
Air-003	*251501253-0011*	3/4/2015	3/5/2015	786 L	<5.1 µg/m³
	Site: B2 ground N side near dust collectors				
Air-Blank	*251501253-0012*	3/4/2015	3/5/2015	n/a	<4.0 µg/filter
	Site: Blank				

(b)(4)
(b)(4) aboratory 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

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/05/15 1:20 PM
Collected: 3/4/2015

Project: **B2-Surv-01**

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.			

(b)(4)
(b)(4) Laboratory Manager
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

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/05/15 1:20 PM
Collected: 3/4/2015

Project: **B2-Surv-01**

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	*251501253-0001*	3/4/2015	3/5/2015	144 in²	1500 µg/ft²
	Site: Landing between level 10-11 stairwell				
3415-002	*251501253-0002*	3/4/2015	3/5/2015	144 in²	240 µg/ft²
	Site: Outside near dust collectors				
005	*251501253-0003*	3/4/2015	3/5/2015	144 in²	210 µg/ft²
	Site: B2 level 13, clean RM Floor				
006	*251501253-0004*	3/4/2015	3/5/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 03/05/2015 16:55:03

OrderID: 251501500

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 1500

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

Company: Jacobs Technology
Street: Building 1100, RM 213
City: Stennis Space Ctr. State/Province: MS
Zip/Postal Code: 39529 Country: USA
Report To (Name): (b)(4)
Telephone #: (b)(4)
Email Address: (b)(4)
Fax #:
Purchase Order: (b)(4)
Project Name/Number: 6552-2015
Please Provide Results: ☐ Fax ☑ Email
U.S. State Samples Taken: (b)(4)
CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt

EMSL-Bill to: ☐ Same ☐ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authonzation from third party

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☑ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) Signature of Sampler (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
2007	Lev. 9, South, Outside	1.0 Ft.²	3/17/15
2006	Lev. 8, South, Outside	1.0 Ft.²	3/17/15
2010	Lev 9, SE, Outside	1.0 Ft.²	3/17/15
2011	Blank	0	3/17/15

Client Sample #'s

Total # of Samples: 4

Relinquished (Client): (b)(4) Date: 17 Mar 15 Time: 1205 hrs.

Received (Lab): Date: 3/17/15 Time: 12:10 pm

Comments:

Courier

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 03/17/15 12:10 PM
Collected: 3/17/2015

Project: **6557-2015**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
2002	*251501500-0001*	3/17/2015	3/17/2015	144 in²	1200 µg/ft²
	Site: Lev 9, South, Outside				
2006	*251501500-0002*	3/17/2015	3/17/2015	144 in²	220 µg/ft²
	Site: Lev 8, South, Outside				
2010	*251501500-0003*	3/17/2015	3/17/2015	144 in²	2000 µg/ft²
	Site: Lev 9, SE, Outside				
2011	*251501500-0004*	3/17/2015	3/17/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 03/17/2015 16:26:54

OrderID: 251502346

EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE (225) 755-1920
FAX (225) 755-1989

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2346

Company : Jacobs ~~(Stennis Space Center)~~ FOSC	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: Building 1100 Suite 213G	*Third Party Billing requires written authonzation from third party*
City: ~~Stennis Space Center~~ Waveland **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name) (b)(4)	**Telephone #** (b)(4)
Email Address (b)(4)	**Fax #:** (b)(4) **Purchase Order:** (b)(4)
Project Name/Number: 6559-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0 5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0 4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0 1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200 9	Graphite Furnace AA	0 003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
4-15-15-001	Mezzanine Break Room Floor - Entrance	1 sq ft	4/15/15 / 9:05
4-15-15-002	Mezzanine Break Room Floor - South	1 sq ft	4/15/15 / 9:08
4-15-15-003	Blank	—	4/15/15 / 9:10

Client Sample #'s 001 - 002 **Total # of Samples:** 3

Relinquished (Client) (b)(4) **Date:** 4/15/15 **Time:** 9:25

Received (Lab): **Date:** 4/16/15 **Time:** 10:05 am

Comments:

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

Page 1 of 1 pages

Rg, Fedex

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/16/15 10:05 AM
Collected: 4/15/2015

Project: **6559-2015**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
4-15-15-001	*251502346-0001*	4/15/2015	4/16/2015	144 in²	79 µg/ft²
	Site: Mezz. Break Rm Floor-Entrance				
4-15-15-002	*251502346-0002*	4/15/2015	4/16/2015	144 in²	150 µg/ft²
	Site: Mezz. Break Rm Floor-South				
4-15-15-003	*251502346-0003*	4/15/2015	4/16/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 04/16/2015 12:11:30

OrderID: 251502404

EMSL Analytical, Inc
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE (225) 755-1920
FAX (225) 755-1989

EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2404

Company : Jacobs FOSC Group (JCWS50)	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authonzation from third party*
Street: Building 1100 Suite 213G	
City: ~~Stennis Space Center~~ Waveland (M) **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name (b)(4)	**Telephone #:** (b)(4)
Email Address (b)(4)	**Fax #:** 228-688-6456 **Purchase Order:** (b)(4)
Project Name/Number: 6563-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

KB ☒ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
KB **Wipe*** ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0 1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0 4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0 003 mg/L (ppm)	☐
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
4-16-15-001	L11 Floor, near foot of stairwell	1 sq ft	4-16-15 12:30
4-16-15-002	L11 Floor, near GN Panel	1 sq ft	4-16-15 12:33
4-16-15-003	L11 Floor, in Room C1109	1 sq ft	4-16-15 12:34
4-16-15-004	L11 Floor, near bathroom entrance	1 sq ft	4-16-15 12:39
4-16-15-005	L11 Handrail	1 sq ft	4-16-15 12:41

Client Sample #'s 001 - 009 **Total # of Samples:** 9

Relinquished (Client) (b)(4) **Date:** 4/16/15 **Time:** 2:45p

Received (Lab): **Date:** 4/17/15 **Time:** 9:45am

Comments:

Rg. Tube

EMSL Analytical, Inc.
11931 Industriplex Boulevard,

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LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)* 2404

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

Sample #	Location	Volume/Area	Date/Time Sampled
4-16-15-006	L11 Stair, mid-landing	1 sq ft	4-16-15 12:47
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	4-16-15 826

Comments/Special Instructions:

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/17/15 9:45 AM
Collected: 4/16/2015

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*
4-16-15-001	*251502404-0001*	4/16/2015	4/17/2015	144 in²	210 µg/ft²
	Site: L11 Floor, near foot of stairwell				
4-16-15-002	*251502404-0002*	4/16/2015	4/17/2015	144 in²	160 µg/ft²
	Site: L11 Floor, near GN Panel				
4-16-15-003	*251502404-0003*	4/16/2015	4/17/2015	144 in²	150 µg/ft²
	Site: L11 Floor, in Room C1109				
4-16-15-004	*251502404-0004*	4/16/2015	4/17/2015	144 in²	200 µg/ft²
	Site: L11 Floor, near bathroom entrance				
4-16-15-005	*251502404-0005*	4/16/2015	4/17/2015	144 in²	41 µg/ft²
	Site: L11 Handrail				
4-16-15-006	*251502404-0006*	4/16/2015	4/17/2015	144 in²	1300 µg/ft²
	Site: L11 Stair, mid-landing				
4-16-15-007	*251502404-0007*	4/16/2015	4/17/2015	144 in²	280 µg/ft²
	Site: L11 Top of fluorescent light fixture				
4-16-15-008	*251502404-0008*	4/16/2015	4/17/2015	144 in²	330 µg/ft²
	Site: L10.5 Stairwell Landing				
4-16-15-009	*251502404-0009*	4/16/2015	4/17/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 04/17/2015 12:42:19

OrderID: 251502422

EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE (225) 755-1920
FAX: (225) 755-1989

EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only):* 2422

Company : Jacobs FOSC Group (JCWS50)	**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*
City: ~~Stennis Space Center~~ Waveland (YL) **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name) (b)(4)	**Telephone #:** (b)(4)
Email Address (b)(4)	**Fax #:** 228-688-6456 **Purchase Order:** (b)(4)
Project Name/Number: 6563-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check (YL)

■ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed (YL)	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1 0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0 1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0 020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 8	ICP-MS	0 001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1 2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:** (b)(4)

Sample #	Location	Volume/Area	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 rail	1 sq ft	4-17-15
4-17-15-003	L16 Second step of stairwell	1 sq ft	4-17-15
4-17-15-004	L16 Top of light fixture, SE corner	1 sq ft	4-17-15
4-17-15-005	L16 Blank	1 sq ft	4-17-15

Client Sample #'s 001 - 005 **Total # of Samples:** 5

Relinquished (Client): (b)(4) **Date:** 4/17/15 **Time:** 11:18

Received (Lab): **Date:** 4/17/15 **Time:** 1:15 pm

Comments:

Courier

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/17/15 1:15 PM
Collected: 4/17/2015

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*
4-17-15-001	*251502422-0001*	4/17/2015	4/17/2015	144 in²	85 µg/ft²
	Site: L 16 Guardrail/top/N side				
4-17-15-002	*251502422-0002*	4/17/2015	4/17/2015	144 in²	54 µg/ft²
	Site: L16 Stair rail/top				
4-17-15-003	*251502422-0003*	4/17/2015	4/17/2015	144 in²	2400 µg/ft²
	Site: L16 Second step of stairwell				
4-17-15-004	*251502422-0004*	4/17/2015	4/17/2015	144 in²	210 µg/ft²
	Site: L16 Top/Light Fixture/SE corner				
4-17-15-005	*251502422-0005*	4/17/2015	4/17/2015	144 in²	<10 µg/ft²
	Site: L16 Blank				

(b)(4)
(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 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 04/17/2015 15:05:21

OrderID: 251502470

EMSL Analytical, Inc
11931 Industriplex Boulevard,

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

EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only).* 2470

Company : Jacobs FOSC Group (JCWS50)	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: Building 1100 Suite 213G	
City: Stennis Space Center **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name) (b)(4)	**Telephone #:** (b)(4)
Email Address: (b)(4)	**Fax #:** 228-688-6456 **Purchase Order** (b)(4)
Project Name/Number: 6563-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0 5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1 2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
4-20-15-001	L11 Stairs (re-sample)	1 sq ft	4-20-15 9:00
4-20-15-002	L16 Stairs (re-sample)	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 Guardrail	1 sq ft	4-20-15 9:12
4-20-15-005	L15 Handrail	1 sq ft	4-20-15 9:14

Client Sample #'s 001 - 012 (b)(4) **Total # of Samples:** 12

Relinquished (Client): (b)(4) **Date:** 20 Apr 15 **Time:** 1325

Received (Lab): **Date:** 4/20/15 **Time:** 1'25pm

Comments:

EMSL Analytical, Inc.
11931 Industriplex Boulevard,

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

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LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)*: 2470

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

Sample #	Location	Volume/Area	Date/Time Sampled
4-20-15-006	L15 Light Fixture	1 sq ft	4-20-15 9:16
4-20-15-007	L15 Water Tank	1 sq ft	4-20-15 9:18
4-20-15-008	L14 Stairs	1 sq ft	4-20-15 9:20
4-20-15-009	L14 Handrail	1 sq ft	4-20-15 9:22
4-20-15-0010	L14 Guardrail	1 sq ft	4-20-15 9:24
4-20-15-011	L14 Light Fixture	1 sq ft	4-20-15 9:26
4-20-15-012	Blank	n/a	4-20-15

Comments/Special Instructions:

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/20/15 1:25 PM
Collected: 4/20/2015

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*
4-20-15-001	*251502470-0001*	4/20/2015	4/20/2015	144 in²	1100 µg/ft²
	Site: L11 Stairs (re-sample)				
4-20-15-002	*251502470-0002*	4/20/2015	4/20/2015	144 in²	630 µg/ft²
	Site: L16 Stairs (re-sample)				
4-20-15-003	*251502470-0003*	4/20/2015	4/20/2015	144 in²	210 µg/ft²
	Site: L15 Stairs				
4-20-15-004	*251502470-0004*	4/20/2015	4/20/2015	144 in²	86 µg/ft²
	Site: L15 Guardrail				
4-20-15-005	*251502470-0005*	4/20/2015	4/20/2015	144 in²	180 µg/ft²
	Site: L15 Handrail				
4-20-15-006	*251502470-0006*	4/20/2015	4/20/2015	144 in²	72 µg/ft²
	Site: L15 Light Fixture				
4-20-15-007	*251502470-0007*	4/20/2015	4/20/2015	144 in²	260 µg/ft²
	Site: L15 Water Tank				
4-20-15-008	*251502470-0008*	4/20/2015	4/20/2015	144 in²	98 µg/ft²
	Site: L14 Stairs				
4-20-15-009	*251502470-0009*	4/20/2015	4/20/2015	144 in²	160 µg/ft²
	Site: L14 Handrail				
4-20-15-010	*251502470-0010*	4/20/2015	4/20/2015	144 in²	34 µg/ft²
	Site: L14 Guardrail				
4-20-15-011	*251502470-0011*	4/20/2015	4/20/2015	144 in²	66 µg/ft²
	Site: L14 Light Fixture				
4-20-15-012	*251502470-0012*	4/20/2015	4/20/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 04/20/2015 15:21:18

OrderID: 251502497

EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE: (225) 755-1920
FAX (225) 755-1989

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2497

Company : Jacobs FOSC Group (JCWS50)	**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*
City: Stennis Space Center **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name) (b)(4)	**Telephone #** (b)(4)
Email Address: (b)(4)	**Fax #:** 228-688-6456 **Purchase Order** (b)(4)
Project Name/Number: 6563-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

KB ☑ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
KB Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1 0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
4-21-15-001	L11 Stairs (re-sample)	1 sq ft	4-21-15 9:15
4-21-15-002	L16 Stairs (re-sample)	1 sq ft	4-21-15 9:20
4-21-15-003	L13 Stairs	1 sq ft	4-21-15 9:25
4-21-15-004	L13 Stair rail	1 sq ft	4-21-15 9:28
4-21-15-005	L13 Guardrail	1 sq ft	4-21-15 9:30

Client Sample #'s 001 - 010)(**Total # of Samples:** 10

Relinquished (Client): (b)(4) **Date:** 21 Apr 2015 **Time:** 1338 hr.

Received (Lab): **Date:** 4/21/15 **Time:** 1:40pm

Comments:

Week 1

EMSL Analytical, Inc.
11931 Industriplex Boulevard,

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

EMSL ANALYTICAL, INC.
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EMSL ANALYTICAL, INC.
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LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)* 2491

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

Sample #	Location	Volume/Area	Date/Time Sampled
4-21-15-006	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/Special Instructions:

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/21/15 1:40 PM
Collected: 4/21/2015

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*
4-21-15-001	*251502497-0001*	4/21/2015	4/21/2015	144 in²	220 µg/ft²
	Site: L11 Stairs (re-sample)				
4-21-15-002	*251502497-0002*	4/21/2015	4/21/2015	144 in²	670 µg/ft²
	Site: L16 Stairs (re-sample)				
4-21-15-003	*251502497-0003*	4/21/2015	4/21/2015	144 in²	940 µg/ft²
	Site: L13 Stairs				
4-21-15-004	*251502497-0004*	4/21/2015	4/21/2015	144 in²	96 µg/ft²
	Site: L13 Stair rail				
4-21-15-005	*251502497-0005*	4/21/2015	4/21/2015	144 in²	59 µg/ft²
	Site: L13 Guardrail				
4-21-15-006	*251502497-0006*	4/21/2015	4/21/2015	144 in²	210 µg/ft²
	Site: L13 Light Fixture				
4-21-15-007	*251502497-0007*	4/21/2015	4/21/2015	144 in²	560 µg/ft²
	Site: L12 Stairs				
4-21-15-008	*251502497-0008*	4/21/2015	4/21/2015	144 in²	71 µg/ft²
	Site: L12 Stair rail				
4-21-15-009	*251502497-0009*	4/21/2015	4/21/2015	144 in²	370 µg/ft²
	Site: L12 Light Fixture				
4-21-15-010	*251502497-0010*	4/21/2015	4/21/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(b)(4) aboratory 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 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 04/21/2015 15:23:30

OrderID: 251502588

EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE (225) 755-1920
FAX: (225) 755-1989

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2588

Company : Jacobs FOSC Group (JCWS50)	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: Building 1100 Suite 213G	
City: Stennis Space Center **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name) (b)(4)	**Telephone #:** (b)(4)
Email Address: (b)(4)	**Fax #:** 228-688-6456 **Purchase Order** (b)(4)
Project Name/Number: 6563-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1 0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0 001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
4-22-15-001	L16 Stairs (after acid wash)	1 sq ft	4-22-15 1:15
4-22-15-002	Blank	n/a	4-22-15 1:15

Client Sample #'s 001 - 002 **Total # of Samples:** 2

Relinquished (Client (b)(4) **Date:** 4/22/15 **Time:** 2:30

Received (Lab): **Date:** 4/23/15 **Time:** 2:50pm

Comments:

Reg. Fedex

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/23/15 2:50 PM
Collected: 4/22/2015

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*
4-22-15-1	*251502588-0001*	4/22/2015	4/23/2015	144 in²	260 µg/ft²
	Site: L16 Stairs (after acid wash)				
4-22-15-2	*251502588-0002*	4/22/2015	4/23/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 04/23/2015 16:34:39

OrderID: 251502612

EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE (225) 755-1920
FAX: (225) 755-1989

EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2612

Company : Jacobs (Stennis Space Center)	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: Building 1100 Suite 213G	
City: Stennis Space Center **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name): (b)(4)	**Telephone #:** (b)(4)
Email Address (b)(4)	**Fax #:** 228-688-6456 **Purchase Order** (b)(4)
Project Name/Number: 6559-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☑ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1 0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200 9	Graphite Furnace AA	0 003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1 2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
B1-1	Level 20 outside SW corner	1 sq ft	4/23/2015
B1-2	Level 20 outside E side	1 sq ft	4/23/2015
B1-3	Level 20 outside SE side	1 sq ft	4/23/2015
B1-4	Level 20 outside North side	1 sq ft	4/23/2015
B1-5	Blank	N/A	4/23/2015

Client Sample #'s 1 - 5 **Total # of Samples:** 5

Relinquished (Client):	(b)(4)	**Date:**	4/23/14	**Time:**	6:00pm
Received (Lab):		**Date:**	4/24/15	**Time:**	10:10am

Comments:

Reg. Index

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/24/15 10:10 AM
Collected: 4/23/2015

Project: **6559-2015**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
B1-1	*251502612-0001*	4/23/2015	4/24/2015	144 in²	170 µg/ft²
	Site: Level 20 outside SW corner				
B1-2	*251502612-0002*	4/23/2015	4/24/2015	144 in²	210 µg/ft²
	Site: Level 20 outside E side				
B1-3	*251502612-0003*	4/23/2015	4/24/2015	144 in²	300 µg/ft²
	Site: Level 20 outside SE side				
B1-4	*251502612-0004*	4/23/2015	4/24/2015	144 in²	430 µg/ft²
	Site: Level 20 outside N side				
B1-5	*251502612-0005*	4/23/2015	4/24/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 04/24/2015 16:14:16

OrderID: 251502608

EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE (225) 755-1920
FAX (225) 755-1989

EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2608

Company : Jacobs FOSC Group (JCWS50)	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authonzation from third party*
Street: Building 1100 Suite 213G	
City: Stennis Space Center **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name): (b)(4)	**Telephone #:** (b)(4)
Email Address: (b)(4)	**Fax #:** 228-688-6456 **Purchase Order:** (b)(4)
Project Name/Number: 6563-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1 2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
4-23-15-001	Level 19 Floor	1 sq ft	4-23-15
4-23-15-002	Level 19 guard rail	1 sq ft	4-23-15
4-23-15-003	Level 19 Light Fixture	1 sq ft	4-23-15
4-23-15-004	Level 18 Stairs	1 sq ft	4-23-15
4-23-15-005	Level 18 Stair rail	1 sq ft	4-23-15

Client Sample #'s 1 - 15 **Total # of Samples:** 15

Relinquished (Client) (b)(4) **Date:** 4/23/15 **Time:** 6:00 pm

Received (Lab): **Date:** 4/24/15 **Time:** 10:10 am

Comments:

EMSL Analytical, Inc
11931 Industriplex Boulevard,

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

EMSL ANALYTICAL, INC.
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EMSL ANALYTICAL, INC.
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LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)*: 2608

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

Sample #	Location	Volume/Area	Date/Time Sampled
4-23-15-006	Level 18 Light Fixture	1 sq ft	4-23-15
4-23-15-007	Level 18 Top of Fuse Box	1 sq ft	4-23-15
4-23-15-008	Level 18 guard rail	1 sq ft	4-23-15
4-23-15-009	Level 17 Stairs	1 sq ft	4-23-15
4-23-15-010	Level 17 ~~Stair~~ PM Stair rail	1 sq ft	4-23-15
42315-011	Level 17 Guard rail	1 sq ft	4-23-15
42315-012	Level 17 Cable tray	1 sq ft	4-23-15
42315-013	Level 17 Light Fixture	1 sq ft	4-23-15
42315-014	Blank	~~1 sq ft~~ N/A	4-23-15
42315-015	Blank	~~1 sq ft~~ N/A	4-23-15
42315-016			

Comments/Special Instructions:

Page 2 of 2 pages

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/24/15 10:10 AM
Collected: 4/23/2015

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 in²	49 µg/ft²
Site: Level 19 Floor					
4-23-15-002	*251502608-0002*	4/23/2015	4/24/2015	144 in²	150 µg/ft²
Site: Level 19 guard rail					
4-23-15-003	*251502608-0003*	4/23/2015	4/24/2015	144 in²	240 µg/ft²
Site: Level 19 Light Fixture					
4-23-15-004	*251502608-0004*	4/23/2015	4/24/2015	144 in²	210 µg/ft²
Site: Level 18 Stairs					
4-23-15-005	*251502608-0005*	4/23/2015	4/24/2015	144 in²	77 µg/ft²
Site: Level 18 Stair rail					
4-23-15-006	*251502608-0006*	4/23/2015	4/24/2015	144 in²	96 µg/ft²
Site: Level 18 Light Fixture					
4-23-15-007	*251502608-0007*	4/23/2015	4/24/2015	144 in²	1100 µg/ft²
Site: Level 18 Top of Fuse Box					
4-23-15-008	*251502608-0008*	4/23/2015	4/24/2015	144 in²	100 µg/ft²
Site: Level 18 guard rail					
4-23-15-009	*251502608-0009*	4/23/2015	4/24/2015	144 in²	780 µg/ft²
Site: Level 17 Stairs					
4-23-15-010	*251502608-0010*	4/23/2015	4/24/2015	144 in²	110 µg/ft²
Site: Level 17 Stair rail					
42315-011	*251502608-0011*	4/23/2015	4/24/2015	144 in²	74 µg/ft²
Site: Level 17 Guard rail					
42315-012	*251502608-0012*	4/23/2015	4/24/2015	144 in²	460 µg/ft²
Site: Level 17 Cable tray					
42315-013	*251502608-0013*	4/23/2015	4/24/2015	144 in²	4600 µg/ft²
Site: Level 17 Light Fixture					
42315-014	*251502608-0014*	4/23/2015	4/24/2015	n/a	<10 µg/wipe
Site: Blank					
42315-015	*251502608-0015*	4/23/2015	4/24/2015	n/a	<10 µg/wipe
Site: Blank					

(b)(4)
(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 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 04/24/2015 16:12:58

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/24/15 10:10 AM
Collected: 4/23/2015

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***

(b)(4)

(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 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 04/24/2015 16:12:58

EMSL ANALYTICAL, INC.
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EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE: (225) 755-1920
FAX (225) 755-1989

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only):* 2638

Company : Jacobs FOSC Group (JCWS50)	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: Building 1100 Suite 213G	
City: Stennis Space Center **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name): [redacted]	**Telephone #:** [redacted]
Email Address: [redacted]	**Fax #:** 228-688-6456 **Purchase Order:** [redacted]
Project Name/Number: 6563-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

4B ☒ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
4B **Wipe*** ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0 1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/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)	☐
Preserved with HNO_3 pH < 2 ☐	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐	EPA 200 9	Graphite Furnace AA	0 003 mg/L (ppm)	☐
Preserved with HNO_3 pH < 2 ☐	EPA 200 8	ICP-MS	0 001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: [redacted] **Signature of Sampler:** [redacted]

Sample #	Location	Volume/Area	Date/Time Sampled
4-24-15-001	Level 12, Stairs (resample)	1 sq ft	4-24-15
4-24-15-002	Level 13, Stairs (resample)	1 sq ft	4-24-15
4-24-15-003	Blank	n/a	4-24-15

Client Sample #'s	001 - 003			**Total # of Samples:**	3
Relinquished (Client):	[redacted]	**Date:**	4/24/15	**Time:**	3:06
Received (Lab):		**Date:**	4/27/15	**Time:**	8:40 am

Comments:

Reg. [illegible]

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/27/15 8:40 AM
Collected: 4/24/2015

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*
4-24-15-001	*251502638-0001*	4/24/2015	4/28/2015	144 in²	610 µg/ft²
	Site: Level 12, Stairs (resample)				
4-24-15-002	*251502638-0002*	4/24/2015	4/28/2015	144 in²	420 µg/ft²
	Site: Level 13, Stairs (resample)				
4-24-15-003	*251502638-0003*	4/24/2015	4/28/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 04/28/2015 11:11:07

OrderID: 251502656

EMSL Analytical, Inc.
11931 Industriplex Boulevard,

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

EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 21656

Company : Jacobs FOSC Group (JCWS50)		**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*	
Street: Building 1100 Suite 213G			
City: Stennis Space Center	**State/Province:** MS	**Zip/Postal Code:** 39529	**Country:** United States
Report To (Name) (b)(4)		**Telephone #:** (b)(4)	
Email Address: (b)(4)		**Fax #:** 228-688-6456	**Purchase Order** (b)(4)
Project Name/Number: 6563-2015		**Please Provide Results:** ☐ Fax ☑ Email	
U.S. State Samples Taken: MS		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0 4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0 1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 8	ICP-MS	0 001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
4-27-15-001	L17 Stairs (re-sample)	1 sq ft	4-27-15
4-27-15-002	L17 Cable Tray (re-sample)	1 sq ft	4-27-15
4-27-15-003	L17 Light Fixture (re-sample)	1 sq ft	4-27-15
4-27-15-004	L18 ~~Stairs (re-sample)~~ Dry Electrical panel	1 sq ft	4-27-15
4-27-15-005	Blank	n/a	4-27-15

Client Sample #'s 001 - 005 **Total # of Samples:** 5

Relinquished (Client): (b)(4) **Date:** 4/27/15 **Time:** 2:45pm

Received (Lab): **Date:** 4/28/15 **Time:** 9:15 AM

Comments:

Pg. Index

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/28/15 9:15 AM
Collected: 4/27/2015

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*
4-27-15-001	*251502656-0001*	4/27/2015	4/28/2015	144 in²	1000 µg/ft²
	Site: L17 Stairs (re-sample)				
4-27-15-002	*251502656-0002*	4/27/2015	4/28/2015	144 in²	270 µg/ft²
	Site: L17 Cable Tray (re-sample)				
4-27-15-003	*251502656-0003*	4/27/2015	4/28/2015	144 in²	130 µg/ft²
	Site: L17 Light Fixture (re-sample)				
4-27-15-004	*251502656-0004*	4/27/2015	4/28/2015	144 in²	550 µg/ft²
	Site: L18 Electrical panel				
4-27-15-005	*251502656-0005*	4/27/2015	4/28/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 04/28/2015 12:27:17

OrderID: 251502728

EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE (225) 755-1920
FAX (225) 755-1989

EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2728

Company : Jacobs FOSC Group (JCWS50)	**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*
City: Stennis Space Center **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name) (b)(4)	**Telephone #:** (b)(4)
Email Address: (b)(4)	**Fax #:** 228-688-6456 **Purchase Order** (b)(4)
Project Name/Number: 6563-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0 5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1 0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0 4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200 9	Graphite Furnace AA	0 003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
4-29-15-006	L9 South Exterior	1 sq ft	4-29-15
~~4-29-15-007~~	~~L8.5 North Exterior~~	~~1 sq ft~~	~~4-29-15~~ Omit and discard per (b)(4)
4-29-15-008	Blank	n/a	4-29-15

Client Sample #'s 006 008 **Total # of Samples:** 3

Relinquished (Client): (b)(4) **Date:** 4/29/15 **Time:** 2:25

Received (Lab): **Date:** 4/30/15 **Time:** 9:50 am

Comments:

(b)(4)

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

Page 1 of 1 pages

Reg. Ledger

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/30/15 9:50 AM
Collected: 4/29/2015

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***
4-29-15-006	*251502728-0001*	4/29/2015	4/30/2015	144 in²	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				

(b)(4)
(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 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 04/30/2015 13:34:15

OrderID: 251502727

EMSL Analytical, Inc.
11931 Industriplex Boulevard,

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

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2727

Company : Jacobs FOSC Group (JCWS50)	**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*
City: Stennis Space Center **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name) (b)(4)	**Telephone #:** (b)(4)
Email Address (b)(4)	**Fax #:** 228-688-6456 **Purchase Order:** (b)(4)
Project Name/Number: 6563-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☑ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0 1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0 4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200 8	ICP-MS	0 001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
4-29-15-001	L12 Stairs (re-sample)	1 sq ft	4-29-15
4-29-15-002	L13 Stairs (re-sample)	1 sq ft	4-29-15
4-29-15-003	L17 Stairs (re-sample)	1 sq ft	4-29-15
4-29-15-004	L18 Electrical Box (re-sample)	1 sq ft	4-29-15
4-29-15-005	Blank	n/a	4-29-15

Client Sample #'s 001 - 005 **Total # of Samples:** 5

Relinquished (Client): (b)(4) **Date:** 4/29/15 **Time:** 2:25

Received (Lab): **Date:** 4/30/15 **Time:** 9:50 am

Comments:

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 04/30/15 9:50 AM
Collected: 4/29/2015

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***
4-29-15-001	*251502727-0001*	4/29/2015	4/30/2015	144 in²	430 µg/ft²
	Site: L12 Stairs (re-sample)				
4-29-15-002	*251502727-0002*	4/29/2015	4/30/2015	144 in²	330 µg/ft²
	Site: L13 Stairs (re-sample)				
4-29-15-003	*251502727-0003*	4/29/2015	4/30/2015	144 in²	300 µg/ft²
	Site: L17 Stairs (re-sample)				
4-29-15-004	*251502727-0004*	4/29/2015	4/30/2015	144 in²	22 µg/ft²
	Site: L18 Electrical Box (re-sample)				
4-29-15-005	*251502727-0005*	4/29/2015	4/30/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 04/30/2015 13:32:39

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 05/05/15 10:00 AM
Collected: 5/4/2015

Project: **B2 Lead**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead* ***Concentration***
5-4-15-01	*251502850-0001*	5/4/2015	5/5/2015	144 in²	300 µg/ft²
	Site: B2, Level 8.5 N, Floor				
5-4-15-02	*251502850-0002*	5/4/2015	5/5/2015	0 in²	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 05/05/2015 15:09:04

11931 Industriplex Suite 100
Baton Rouge, LA 70809

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

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only):*

Company: Jacobs Technology - FOSC	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: Building 1100, Room 213D	
City: Wayland / Stennis **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** U.S.
Report To (Name): (b)(4)	**Telephone #:**
Email Address: (b)(4)	**Fax #:** **Purchase Order** (b)(4)
Project Name/Number: B2 Lead	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☑ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
54-15-01	B2, Level B, S N, Floor	144 in²	5/4/15
5-4-15-02	Blank	0 in²	5/4/15

Client Sample #'s **Total # of Samples:** 2

Relinquished (Client): (b)(4) **Date:** 5/4/15 **Time:**

Received (Lab): **Date:** **Time:**

Comments:

ANALYTICAL REQUEST FORM

☑ **REGULAR** Status 1504707

☐ **RUSH** Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date 4/16/15 Purchase Order No. 292426

Company Name Jacobs (Stennis Space Center)

Address Building 1100, Suite 213G

Stennis Space Center (City) MS (State) 39529 (Zip)

Person to Contact (b)(4)

Email Address (b)(4)

Telephone (b)(4)

Fax Telephone (228) 688-6456

Billing Address (if different)

Quote No. 5017, 4946

Sampling Site Stennis Space Center

Date/Time of Collection 4/10/2015 / 0900

Laboratory Use Only	Client Sample Number	Media Type	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
01	001	MCE	395	NIOSH 7300 mod. Lead, Cadmium and Chromium
02	002	MCE	395	NIOSH 7300 mod. Lead, Cadmium and Chromium
03	003	Bulk	N/A	SW601B and SW7199 Lead, Cadmium, Chromium and Hexavalent Chromium
04	004	MCE	BLANK	NIOSH 7300 mod. Lead, Cadmium, Chromium

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

CHAIN OF CUSTODY

Relinquished (Signature) (b)(4)	Date / Time 4/10/15 2300	(b)(4)	Date / Time 4/14/15 1110
Relinquished (Signature)	Date / Time		Date / Time

DELIVERY METHOD: STD / PRTY MAIL UPS CLIENT DROP BOX FEDEX ALS COURIER OTHER: _____

COOLING METHOD: NONE COOLER WET ICE ICE PACK

CUSTODY SEALS: NONE COOLER PACKAGE SAMPLES

COOLER TEMP

28-Apr-2015

(b)(4)
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)(4)
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,

(b)(4)
Electronically approved by: (b)(4)
(b)(4)
Project Manager

ALS Environmental

Date: 28-Apr-15

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

Work Order Sample Summary

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

Client: Jacobs Technology, Inc.
Project: Stennis Space Center
Work Order: (b)(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.

ALS Environmental

Date: *28-Apr-15*

Client: Jacobs Technology, Inc.
Project: Stennis Space Center

Work Order: (b)(4)

Analytical Results

Lab ID: 1504707-01A
Client Sample ID: 001

Collection Date: 4/10/2015 9:00:00 AM
Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: **N7300**	Air Volume (L): **395**	Analyst: **SRL**
Date Analyzed: 4/22/2015 16:42		Reporting Limit		
	µg/sample	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
Client Sample ID: 002

Collection Date: 4/10/2015 9:00:00 AM
Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: **N7300**	Air Volume (L): **395**	Analyst: **SRL**
Date Analyzed: 4/22/2015 16:45		Reporting Limit		
	µg/sample	µg/sample	**mg/m3**	
Cadmium	ND	0.10	<0.00025	
Chromium	ND	1.0	<0.0025	
Lead	**6.2**	**1.0**	**0.016**	

Note:

ALS Environmental

Date: *28-Apr-15*

Client: Jacobs Technology, Inc.
Project: Stennis Space Center
Work Order: (b)(4)
Sample ID: 003
Lab ID: 1504707-03
Collection Date: 4/10/2015 09:00 AM
Matrix: BULK

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
HEXAVALENT CHROMIUM BY SW846 7199			**SW7199**		Prep Date: **4/21/2015**	Analyst: **MHW**
Chromium, Hexavalent	**11**		**2.4**	**mg/Kg**	1	4/22/2015 03:03 PM
METALS BY ICP			**SW6010B**		Prep Date: **4/24/2015**	Analyst: **VAW**
Cadmium	**2.5**		**0.97**	**mg/Kg**	1	4/28/2015 11:47 AM
Chromium	**120**		**1.9**	**mg/Kg**	1	4/28/2015 11:47 AM
Lead	**350,000**		**490**	**mg/Kg**	100	4/28/2015 01:37 PM

Note:

ALS Environmental

Date: *28-Apr-15*

Client: Jacobs Technology, Inc.
Project: Stennis Space Center

Work Order: (b)(4)

Analytical Results

Lab ID: 1504707-04A
Client Sample ID: 004

Collection Date: 4/10/2015 9:00:00 AM
Matrix: AIR

Analyses

METALS BY 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
Lead	ND	1.0	NA

Note:

QC BATCH REPORT

Batch ID: **28009** Instrument ID: **HPLC3** Method: **SW7199**

MBLK Sample ID: **MBLK-28009-28009** Units: **mg/Kg** Analysis Date: **4/22/2015 11:23 AM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042353** 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	0.25								

LCS Sample ID: **LCS-28009-28009** Units: **mg/Kg** Analysis Date: **4/22/2015 10:57 AM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042351** 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	47.27	0.25	50	0	94.5	83-115	0			

LCSD Sample ID: **LCSD-28009-28009** Units: **mg/Kg** Analysis Date: **4/22/2015 11:10 AM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042352** 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	47.32	0.25	50	0	94.6	70-130	47.27	0.106	20	

MS Sample ID: **1504651-01A MS** Units: **mg/Kg** Analysis Date: **4/22/2015 03:28 PM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042370** 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	439.2	2.4	470.8	0.396	93.2	70-130	0			

MSD Sample ID: **1504651-01A MSD** Units: **mg/Kg** Analysis Date: **4/22/2015 04:07 PM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042371** 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	440.4	2.4	478.9	0.396	91.9	70-130	439.2	0.274	20	

DUP Sample ID: **1504649-01A DUP** Units: **mg/Kg** Analysis Date: **4/22/2015 11:49 AM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042355** 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		0.5929	0		

DUP Sample ID: **1504650-01A DUP** Units: **mg/Kg** Analysis Date: **4/22/2015 12:15 PM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042357** 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	2.4	0	0	0		0.6679	0		

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

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

QC BATCH REPORT

Batch ID: **28009** Instrument ID: **HPLC3** Method: **SW7199**

DUP Sample ID: **1504651-01A DUP** Units: **mg/Kg** Analysis Date: **4/22/2015 12:41 PM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042359** 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: **1504651-02A DUP** Units: **mg/Kg** Analysis Date: **4/22/2015 01:32 PM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042361** 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: **1504651-03A DUP** Units: **mg/Kg** Analysis Date: **4/22/2015 01:58 PM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042363** 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: **1504652-01A DUP** Units: **mg/Kg** Analysis Date: **4/22/2015 02:24 PM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042365** 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: **1504652-02A DUP** Units: **mg/Kg** Analysis Date: **4/22/2015 02:50 PM**
Client ID: Run ID: **HPLC3_150422A** SeqNo: **1042367** 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	276.8	2.5	0	0	0		275.8	0.358		

DUP Sample ID: **1504707-03A DUP** Units: **mg/Kg** Analysis Date: **4/22/2015 03:15 PM**
Client ID: **003** Run ID: **HPLC3_150422A** SeqNo: **1042369** 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	11.12	2.4	0	0	0		10.63	4.46		

The following samples were analyzed in this batch: 1504707-03A

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

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

QC BATCH REPORT

Batch ID: **28003** Instrument ID: **ICP1** Method: **N7300**

MBLK Sample ID: **MBLK-28003-28003** Units: **µg/sample** Analysis Date: **4/22/2015 03:17 PM**
Client ID: Run ID: **ICP1_150422A** SeqNo: **1043109** Prep 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	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 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** Units: **µg/sample** Analysis Date: **4/22/2015 03:23 PM**
Client ID: Run ID: **ICP1_150422A** SeqNo: **1043111** Prep 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	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 following samples were analyzed in this batch: 1504707-01A 1504707-02A 1504707-04A

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

ALS Environmental

Date: 28-Apr-15

Client: Jacobs Technology, Inc.
Project: Stennis Space Center
WorkOrder: (b)(4)

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	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
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/sample	
mg/Kg	

ALS Environmental

Sample Receipt Checklist

Client Name: **JACOBS-MISSISSIPPI** Date/Time Received: **21-Apr-15 11:10**

Work Order: **1504707** Received by: **SNH**

Checklist completed by: (b)(4) 21-Apr-15 Reviewed by: (b)(4) 22-Apr-15

eSignature | Date | eSignature | Date

Matrices:

Carrier name: FedEx

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 ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

OrderID: 251502984

EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE (225) 755-1920
FAX: (225) 755-1989

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 2984

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*
City: Stennis Space Center **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name): (b)(4)	**Telephone #:** (b)(4)
Email Address (b)(4)	**Fax #:** **Purchase Order** (b)(4)
Project Name/Number:	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☑ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0 001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1 2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
050615-002	Crane near spool		5/6/15

Client Sample #'s (b)(4) **Total # of Samples:** 1

Relinquished (Client) Date: 5/7/15 Time: 2:30

Received (Lab): Date: 5/08/15 Time: 10:20 AM

Comments:

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

Page 1 of 1 pages

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 05/08/15 10:20 AM
Collected: 5/6/2015

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
050615-002	*251502984-0001*	5/6/2015	5/11/2015	7.7 % wt
	Site: Crane near spool			

(b)(4)
(b)(4) Laboratory Manager
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 05/11/2015 11:36:46

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 07/08/15 10:10 AM
Collected: 7/7/2015

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	*251504433-0001*	7/7/2015	7/8/2015	144 in²	46 µg/ft²
	Site: Supply Storage Area				

(b)(4)
(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 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 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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 07/15/15 10:45 AM
Collected: 7/14/2015

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

Client Sample Description	*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				

(b)(4)
(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 07/16/2015 10:02:29

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

EMSL Order: [redacted]
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: [redacted]
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 07/15/15 10:45 AM
Collected: 7/14/2015

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

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 in²	<10 µg/ft²
	Site: Clean Room				

[redacted]
[redacted] 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 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

OrderID: 251504846

EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE (225) 755-1920
FAX: (225) 755-1989

EMSL ANALYTICAL INC.

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 4846

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*
City Stennis Space Center **State/Province** MS	**Zip/Postal Code** 39529 **Country** United States
Report To (Name) (b)(4)	**Telephone #** (b)(4)
Email Address (b)(4)	**Fax #:** **Purchase Order** (b)(4)
Project Name/Number 6618-2015	**Please Provide Results.** ☐ Fax ☑ Email
U.S. State Samples Taken MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☑ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *If no box is checked non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other.				☐

Name of Sampler. (b)(4) **Signature of Sampler** (b)(4)

Sample #	Location	Volume/Area	Date/Time Sampled
001	9th floor outside south (wipe)	1 square foot	7/16/15
002	NACE Inspector AJ (air)	50 Liters	7/16/15
003	Blank (wipe)	N/A	7/16/15
004	Blank (air)	N/A	7/16/15

Client Sample #'s (b)(4) **Total # of Samples** 4

Relinquished (Client) **Date** 7/22/15 **Time** 1300

Received (Lab). **Date:** 7/23/15 **Time** 10:00 am

Comments

Kill to Deborah Heller Building 1100 Suite 1017C Stennis Space Center MS 39529 deborah.a.holler@nasa.gov

EMSL Analytical, Inc.
11931 Industriplex, Suite 100, Baton Rouge, LA 70809
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http://www.EMSL.com batonrougelab@emsl.com

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 07/23/15 11:44 AM
Collected:

Project: **6618-2015**

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

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

(b)(4)
(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 07/23/2015 16:10:57

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

EMSL Order: (b)(4)
CustomerID: JCWS50
CustomerPO: (b)(4)
ProjectID:

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

Phone: (b)(4)
Fax: (228) 688-3368
Received: 07/23/15 11:44 AM
Collected:

Project: **6618-2015**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
001	*251504846-0001*		7/23/2015	144 in²	1100 µg/ft²
	Site: 9th floor outside south				
003	*251504846-0002*		7/23/2015	n/a	<10 µg/wipe
	Site: Blank				

(b)(4)
(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 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 16:10:57

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 07/20/15 9:50 AM
Collected: 7/17/2015

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

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

(b)(4)
(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 07/21/2015 10:41:38

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
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				

(b)(4)
(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 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 07/21/2015 10:41:38

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 07/22/15 3:10 PM
Collected:

Project: **IH 1150 15262**

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

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

(b)(4)
(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 07/23/2015 16:09:24

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
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Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 07/22/15 3:10 PM
Collected:

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*
003	*251504832-0003*		7/23/2015	144 in²	21 µg/ft²
	Site: Storage Room				
004	*251504832-0004*		7/23/2015	144 in²	17 µg/ft²
	Site: Clean Room				

(b)(4)

(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 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

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EMSL Order: (b)(4)
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PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 07/29/15 10:50 AM
Collected: 7/28/2015

Project: **IH 1550-15262**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Volume*	*Lead Concentration*
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				

(b)(4)
(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 07/30/2015 09:47:48

EMSL Analytical, Inc.
11931 Industriplex, Suite 100, Baton Rouge, LA 70809
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http://www.EMSL.com batonrougelab@emsl.com

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 07/29/15 10:50 AM
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 in²	44 µg/ft²
	Site: Storage Area				

(b)(4)
(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 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

IATL International Asbestos Testing Laboratories

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

CERTIFICATE OF ANALYSIS

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

Report Date: 8/18/2015
Report Number: 371367
Project:
Project No.: 6618-2015

LEAD WIPE SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location / Description	Area Sampled (ft²)	Concentration (µg/ft²)
5712763	001	13th Flr Clean Rm Entrance	1.00	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 accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD= 0.2 ppm MDL=4.4 µg/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 analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 8/17/2015
Date Analyzed: 8/18/2015
Analyst: (b)(4)

Approved By: (b)(4)
(b)(4)

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE: (225) 755-1920
FAX: (225) 755-1989

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only):*

Company : Jacobs (Stennis Space Center)	**EMSL-Bill to:** ☐ Same ☑ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: Building 1100 Suite 213G	
City: Stennis Space Center **State/Province:** MS	**Zip/Postal Code:** 39529 **Country:** United States
Report To (Name) (b)(4)	**Telephone #:** (b)(4)
Email Address: (b)(4)	**Fax #:** **Purchase Order** (b)(4)
Project Name/Number: 6618-2015	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MS	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	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 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	☐
Other:				☐

Name of Sampler: (b)(4) **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
001	13th fl clean room entrance	1 square foot 5712763	8/13/2015
002	13th fl equipment room	1 square foot 5712764	8/13/2015
003	blank	- 5712765	8/13/2015

Client Sample #'s 001 [redacted] **Total # of Samples:** 3

Relinquished (Client): (b)(4) (b)(4) 8/14/15 **Time:** 2:30pm

Received (Lab): **Time:**

Comments:

Bill to Deborah Holler Building 1100 Suite 1017C, Stennis Space Center, MS 39529. deborah.a.holler@nasa.gov

DJ 8/18/17

RECEIVED
AUG 17 2015

E-MAILED

@BC 8/18/15

IATL
International Asbestos
Testing Laboratories

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: 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: (b)(4)

Date: 8/18/15

Approved By: (b)(4)
Laboratory Director

EMSL Analytical, Inc.
11931 Industriplex, Suite 100, Baton Rouge, LA 70809
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http://www.EMSL.com batonrougelab@emsl.com

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 08/17/15 11:05 AM
Collected: 8/14/2015

Project: **IH1150-15262**

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				

(b)(4)

(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 08/18/2015 11:50:58

EMSL Analytical, Inc.
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http://www.EMSL.com batonrougelab@emsl.com

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
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Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 08/17/15 11:05 AM
Collected: 8/14/2015

Project: **IH1150-15262**

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

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

(b)(4)
(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 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

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Phone/Fax: (225) 755-1920 / (225) 755-1989
http://www.EMSL.com batonrougelab@emsl.com

EMSL Order: (b)(4)
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Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 08/19/15 10:15 AM
Collected: 8/18/2015

Project: **IH 1550-15262**

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

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

(b)(4)
(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 08/20/2015 12:27:41

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EMSL Order: (b)(4)
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Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 08/19/15 10:15 AM
Collected: 8/18/2015

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	*251505585-0003*	8/18/2015	8/20/2015	144 in²	70 µg/ft²
	Site: Clean Room				
004	*251505585-0004*	8/18/2015	8/20/2015	144 in²	26 µg/ft²
	Site: Storage Room				

(b)(4)
(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 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

IATL International Asbestos Testing Laboratories

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

CERTIFICATE OF ANALYSIS

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

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

LEAD WIPE SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location / Description	Area Sampled (ft²)	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: NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analysis Method: EPA SW846-3050B:7000B "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges And Sediments By AAS"

Comments: Regulatory limit varies by surface location (EPA/HUD guidelines). Unless otherwise stated, results assume one square foot sampled. Method requires submittal of blanks. IATL assumes that all of the sampling methods and data upon which these results are based, have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD= 0.2 ppm MDL=4.4 µg/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 analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 8/26/2015
Date Analyzed: 8/27/2015
Analyst: (b)(4)

Approved By: (b)(4)
(b)(4)
Laboratory Director

iATL
INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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)
Office Address: Building 1100, Suite 213G
City, State, Zip: Stennis Space Center, MS 39529
Fax Number: 228-688-6456
Email Address: [redacted]

Project Number: 6618-2015
Project Name: B2 Surveillance
Primary Contact: [redacted]
Office Phone: [redacted]
Cell Phone: [redacted]

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 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. DO [redacted]

Turnaround Time

Preliminary Results Requested Date: ____________________ (Specific date / time)   ☐ 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

Relinquished (Name/Organization): [redacted] Date: 8/25/15 Time: ________
Received (Name / iATL): [redacted] Date: ________ Time: ________
Sample Login (Name / iATL): [redacted] Date: 8/26/15 Time: ________
Analysis(Name(s) / iATL): Date: ________ Time: [redacted]
QA/QC Review (Name / iATL): Date: ________ Time:
Archived / Released: ________ QA/QC InterLAB Use: ______ Date: ________ Time:

RECEIVED

EMAILED 8/27/15

iATL By

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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

Sample Log

–Environmental Lead –

Client: Jacobs (Stennis Space Center) Project: 6618-2015

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

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
001	5722452	9th Floor outside south (b4 cleaning)				1 sq ft	
002	5722453	9th Floor outside south (b4 cleaning)				1 sq ft	
003	5722454 A-F	8th floor tool box material				80 sq inches	
004	5722455	9th Floor outside south (cleaned)				1 sq ft	
005	5722456	blank				N/A	

** = 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.

IATL
International Asbestos
Testing Laboratories

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: 08 / 27 / 15)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
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 methods.
All client supplied sampling data is assumed to be correct when calculating results.
Detection limit based upon 0.2 mg/L reporting limit and sample size.
* NIST Traceable.
** 80-120% acceptable limits.

Analyzed By: (b)(4)

Date: 8/27/15

Approved By: (b)(4)
Laboratory Director

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 08/28/15 9:50 AM
Collected: 8/27/2015

Project: **IH 1550-15262**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Volume*	*Lead Concentration*
001	*251505811-0001*	8/27/2015	8/28/2015	880 L	<4.5 µg/m³
	Site: Level 10 S				
002	*251505811-0002*	8/27/2015	8/28/2015	880 L	<4.5 µg/m³
	Site: Level 11 N				

(b)(4)
(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 08/31/2015 10:50:09

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

Phone: (504) 348-3098
Fax: (504) 348-3043
Received: 08/28/15 9:50 AM
Collected: 8/27/2015

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	*251505811-0003*	8/27/2015	8/31/2015	n/a	20 µg/wipe
	Site: Clean Room				
004	*251505811-0004*	8/27/2015	8/31/2015	n/a	22 µg/wipe
	Site: Supply Room				

(b)(4)
(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 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

EMSL Analytical, Inc.
11931 Industriplex, Suite 100, Baton Rouge, LA 70809
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http://www.EMSL.com batonrougelab@emsl.com

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

Project: **IH 1550-15262**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Volume*	*Lead Concentration*
001	*251506005-0001*	9/1/2015	9/4/2015	1200 L	<3.3 µg/m³
	Site: Level 10 South Outside				
002	*251506005-0002*	9/1/2015	9/4/2015	1200 L	<3.3 µg/m³
	Site: Level 11 North Inside				
005	*251506005-0003*	9/1/2015	9/4/2015	1200 L	<3.3 µg/m³
	Site: Level 11 East Outside				

(b)(4)
(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 09/04/2015 10:37:44

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

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	*251506005-0004*	9/1/2015	9/3/2015	144 in²	27 µg/ft²
	Site: Storage Room Floor				
004	*251506005-0005*	9/1/2015	9/3/2015	144 in²	24 µg/ft²
	Site: Outside Clean Room Floor				

(b)(4)
(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 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

OrderID: 251506005

EMSL Analytical, Inc.
11931 Industriplex Boulevard,
Baton Rouge, LA 70809
PHONE: (225) 755-1920
FAX: (225) 755-1989

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 6005

Company: TES	**EMSL-Bill to:** ☐ Different ☑ Same If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 5133 Taravella Road	
City: Marrero **State/Province:** LA	**Zip/Postal Code:** 70072 **Country:** United States
Report To (Name): (b)(4)	**Telephone #:** 5043483098
Email Address: (b)(4)	**Fax #:** **Purchase Order:**
Project Name/Number: IH 1550-15262	**Please Provide Results:** ☐ FAX ☑ E-mail ☐ Mail
U.S. State Samples Taken: LA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour (48) ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☐
(48) Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☒
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
(48) Wipe* ASTM ☐ non ASTM ☐ *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☒
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
001	Level 10 South outside	1200 L	9/1/15
002	Level 11 North inside	1200 L	9/1/15
003	Storage Room Floor	1 ft²	9/1/15 1107
004	Outside Clean Room Floor	1 ft²	9/1/15 1105
005	Level 11 east outside	1200 L	9/1/15

Client Sample #'s **Total # of Samples:**

Relinquished (Client): (b)(4) 9/1/15 **Time:**

Received (Lab): 9/03/15 **Time:** 11:15 am

Comments:

UPS

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

Project: **IH 1550-15262**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Volume*	*Lead Concentration*
SSC090315-01	*251506035-0001*	9/3/2015	9/8/2015	690 L	<5.8 µg/m³
	Site: 11th floor S outside exhaust of neg air				
SSC090315-02	*251506035-0002*	9/3/2015	9/8/2015	690 L	<5.8 µg/m³
	Site: Inside softcore blasting level				
SSC090315-03	*251506035-0003*	9/3/2015	9/8/2015	690 L	<5.8 µg/m³
	Site: N side blasting level				

(b)(4)
(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 09/08/2015 10:58:06

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

EMSL Order: (b)(4)
CustomerID: TECH55
CustomerPO:
ProjectID:

Attn: (b)(4)
Technical Environmental Service, Inc.
PO Box 1601
Marrero, LA 70073

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

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*
SSC090315-04	*251506035-0004*	9/3/2015	9/8/2015	144 in²	26 µg/ft²
	Site: Storage room floor				
SSC090315-05	*251506035-0005*	9/3/2015	9/8/2015	144 in²	15 µg/ft²
	Site: Outside clean room floor				
SSC090315-06	*251506035-0006*	9/3/2015	9/8/2015	144 in²	330 µg/ft²
	Site: 12th floor neg air intake				
SSC090315-07	*251506035-0007*	9/3/2015	9/8/2015	144 in²	180 µg/ft²
	Site: 12th floor S side beam				
SSC090315-08	*251506035-0008*	9/3/2015	9/8/2015	144 in²	210 µg/ft²
	Site: 12th floor in front of contractor storage entrance				

(b)(4)
(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 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

150834

☑ **REGULAR** Status

☐ **RUSH** Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date 8/7/15 Purchase Order No. 296168

Company Name JACOBS TECHNOLOGY

Address BUILDING 1100 SUITE 213

STENNIS SPACE CENTER (City) MS 39529 (Zip)

Person to Contact (b)(4)

Email Address (b)(4)

Telephon (b)(4)

Fax Telephone (228) 688-6456

Billing Address (if different)

(b)(4)

BUILDING 1100, ROOM 1017C

STENNIS, SPACE CENTER, MS 39529

Quote No. 5017

Sampling Site STENNIS SPACE CENTER

Date/Time of Collection 8/7/15

Laboratory Use Only	Client Sample Number	Media Type	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
01	001	MCE	768.8	NIOSH 7300 MOD. LEAD, CADMIUM, CHROMIUM
02	002	↓	753.7	↓
03	003	↓	N/A	↓

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

CHAIN OF CUSTODY

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
(b)(4) (b)(4)	9:30P 8/10/15	(b)(4)	8/12/15 @ 9:26
Relinquished by: (Signature)	Date / Time	(Signature)	Date / Time

DELIVERY METHOD:
STD / PRTY MAIL UPS
CLIENT DROP BOX
FEDEX ALS COURIER
OTHER: _____

COOLING METHOD: NONE
COOLER WET ICE ICE PACK
CUSTODY SEALS: NONE
COOLER PACKAGE SAMPLES
COOLER TEMP: _____ °C

14-Aug-2015

(b)(4)
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)(4)

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,

(b)(4)
Electronically approved by: (b)(4)
(b)(4)
Project Manager

ALS Environmental

Date: 14-Aug-15

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

Work Order Sample Summary

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

ALS Environmental

Date: 14-Aug-15

Client: Jacobs Technology, Inc.
Project: Stennis Space Center
Work Order: (b)(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.

ALS Environmental

Date: *14-Aug-15*

Client: Jacobs Technology, Inc.
Project: Stennis Space Center

Work Order: (b)(4)

Analytical Results

Lab ID: 1508344-01A
Client Sample ID: 001

Collection Date: 8/7/2015
Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.	Method: N7300	Air Volume (L): 768.8	Analyst: VAW
Date Analyzed: 8/13/2015 13:06		Reporting Limit	
	µg/sample	µg/sample	mg/m3
Cadmium	ND	0.10	<0.00013
Chromium	ND	1.0	<0.0013
Lead	ND	1.0	<0.0013

Lab ID: 1508344-02A
Client Sample ID: 002

Collection Date: 8/7/2015
Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.	Method: N7300	Air Volume (L): 753.7	Analyst: VAW
Date Analyzed: 8/13/2015 13:09		Reporting Limit	
	µg/sample	µg/sample	mg/m3
Cadmium	ND	0.10	<0.00013
Chromium	ND	1.0	<0.0013
Lead	ND	1.0	<0.0013

Lab ID: 1508344-03A
Client Sample ID: 003

Collection Date: 8/7/2015
Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.	Method: N7300	Air Volume (L): 0	Analyst: VAW
Date Analyzed: 8/13/2015 13:13		Reporting Limit	
	µg/sample	µg/sample	mg/m3
Cadmium	ND	0.10	NA
Chromium	ND	1.0	NA
Lead	ND	1.0	NA

Note:

ALS Environmental

Date: 14-Aug-15

Client: Jacobs Technology, Inc.

Work Order: (b)(4)

Project: Stennis Space Center

QC BATCH REPORT

Batch ID: **29951** Instrument ID: **ICP1** Method: **N7300**

MBLK Sample ID: **mblk-29951-29951** Units: **µg/sample** Analysis Date: **8/13/2015 11:50 AM**

Client ID: Run ID: **ICP1_150813B** SeqNo: **1110778** Prep Date: **8/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	ND	0.10								
Chromium	ND	1.0								
Lead	ND	1.0								

LCS Sample ID: **lcs-29951-29951** Units: **µg/sample** Analysis Date: **8/13/2015 11:53 AM**

Client ID: Run ID: **ICP1_150813B** SeqNo: **1110779** Prep Date: **8/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	20.46	0.10	20	0	102	80-120	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: **lcsd-29951-29951** Units: **µg/sample** Analysis Date: **8/13/2015 11:56 AM**

Client ID: Run ID: **ICP1_150813B** SeqNo: **1110780** Prep Date: **8/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	20.24	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 following samples were analyzed in this batch: 1508344-01a 1508344-02a 1508344-03a

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

ALS Environmental

Date: 14-Aug-15

Client: Jacobs Technology, Inc.
Project: Stennis Space Center
WorkOrder: (b)(4)

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	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
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/sample	

ALS Environmental

Sample Receipt Checklist

Client Name: **JACOBS-MISSISSIPPI** Date/Time Received: **12-Aug-15 09:26**

Work Order: (b)(4) Received by: **SEG**

Checklist completed by: (b)(4) 12-Aug-15 Reviewed by: (b)(4) 14-Aug-15

eSignature | Date | eSignature | Date

Matrices:

Carrier name: FedEx

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 ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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

Location	Requirement		Initial Assessement				Verification			
	OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
				Air	Wipe			Air	Wipe	
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		**				
West Pier Stairwell		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	640 µg/ft2	Resampled on 2/22/2015 and 2/24/2015		Wipe	380 µg/ft2
West Pier Badge Area Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	640 µg/ft2	Resampled on 2/22/2015 and 2/24/2015		Wipe	150 µg/ft2
West Pier Badge Area Table		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	37 µg/ft2				
Basement N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	320 µg/ft2				
Basement Coke Machine		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	15 µg/ft2				
Basement Air Compressor Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	380 µg/ft2				
Basement, South floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	66 µg/ft2
Basement, West Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	120 µg/ft2
Basement, North Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	52 µg/ft2
Basement, East Floor		400 µg/ft2, clearance for 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		**
Basement Mezzanine S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	13 µg/ft2
Basement Mezzanine W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
Basement Mezzanine N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
Basement Mezzanine E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
West Pier Stairway to Mezzanine		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	**
West Pier Stairway to Mezzanine		400 µg/ft2, clearance for occupancy					**2/22/2015; Resampled on 2/24/2015**		Wipe	**1200 µg/ft2; Resample result 10 µg/ft2**
West Pier Stairway to Mezzanine		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	**
West Pier Stairway to Mezzanine		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	77 µg/ft2
West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	120 µg/ft2
West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	110 µg/ft2
West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	18 µg/ft2
West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	350 µg/ft2

BASEMENT)

See Verification Sample

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Location	Requirement		Initial Assessment				Verification			
	OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
				Air	Wipe			Air	Wipe	
WEST PIER ENTRANCE AND MEZZANINE (I										
West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	22 µg/ft2
West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	38 µg/ft2
West side of Mezzanine by Compressor		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	48 µg/ft2
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	**
Mezzanine Hallway		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	36 µg/ft2
Mezzanine Hallway		400 µg/ft2, clearance for 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
North Side of Mezzanine		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	29 µg/ft2
North Side of Mezzanine		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	92 µg/ft2
North Side of Mezzanine		400 µg/ft2, clearance for 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
North Side of Mezzanine		400 µg/ft2, clearance for occupancy	2/22/2015		Wipe	800 µg/ft2	Resampled on 2/24/2015		Wipe	150 µg/ft2
North Side of Mezzanine		400 µg/ft2, clearance for occupancy	**See Verification Sample**				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 Mezzanine		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	71 µg/ft2
WEST Pier - Badge Board	30 µg/m3; 50 µg/m3						2/19/2015	8hr-air		**
WEST Pier - Top of Stairs	30 µg/m3; 50 µg/m3						2/19/2015	8 hr Air		**
West Pier Entrance		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	**
West Pier Entrance		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	170 µg/ft2
West Pier Entrance		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	**
West Pier Entrance		400 µg/ft2, clearance for occupancy	**See Verification Sample**				**2/22/2015; Resampled on 2/24/2015**		Wipe	**540 µg/ft2; Resample result 10 µg/ft2**
West entrance door		400 µg/ft2, clearance for occupancy					**2/24/2015**		Wipe	**10 µg/ft2**
West Air Condition Unit		400 µg/ft2, clearance for occupancy					2/24/2015		Wipe	11 µg/ft2
West electrical panel		400 µg/ft2, clearance for occupancy					2/24/2015		Wipe	**

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	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
	West pier floor		400 µg/ft2, clearance for occupancy					**2/24/2015**		Wipe	**380 µg/ft2**
	West Stiarway wall		400 µg/ft2, clearance for occupancy					2/24/2015		Wipe	12 µg/ft2
	West Stairway floor		400 µg/ft2, clearance for occupancy					**2/24/2015**		Wipe	**150 µg/ft2**
	North Mezzanine Floor #1		400 µg/ft2, clearance for occupancy					**2/24/2015**		Wipe	**150 µg/ft2**
	North Mezzanine Floor #2		400 µg/ft2, clearance for occupancy					**2/24/2015**		Wipe	**290 µg/ft2**
EAST PIER AND EAST MEZZANINE (BASEMENT)	East Side (58)	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	EAST PIER ROOM Work Table		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	60 µg/ft2			Wipe	
	EAST PIER ROOM Microwave		40 µg/ft2, clearance for consumption area	2/13/2015		Wipe	680 µg/ft2 (Recleaning)			Wipe	
	EAST PIER ROOM Storage Cabinet		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	25 µg/ft2				
	EAST PIER ROOM South Stair Landing		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	5900 µg/ft2 (Recleaning)			Wipe	
	EAST PIER ROOM North Stair Landing		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	3500 µg/ft2 (Recleaning)			Wipe	
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	180 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	27 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	21 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	40 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	48 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	52 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	120 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	270 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	94 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	150 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	250 µg/ft2
	East Pier		400 µg/ft2, clearance for occupancy					2/22/2015		Wipe	180 µg/ft2
	Break Room floor Near Entrance		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	69 µg/ft2
	Break Room Near Refridgerator		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	120 µg/ft2

See Verification Sample

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Location	Requirement		Initial Assessement				Verification			
	OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
				Air	Wipe			Air	Wipe	
EA										
On Desk Office 1, North Office		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	**
Floor Entrance Office 1, North Office		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	25 µg/ft2
On Desk Office 2, Middle Office		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	25 µg/ft2
Floor Entrance Office 2, Middle Office		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	120 µg/ft2
On Desk Office 3, South Office		400 µg/ft2, clearance for 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
Cable Tray		400 µg/ft2, clearance for occupancy					3/5/2015		Wipe	300 µg/ft2
Mezzanine Break Room Table		40 µg/ft2, clearance for consumption area					3/13/2015		Wipe	10 µg/ft2
Mezzanine Break Room Microwave Table		40 µg/ft2, clearance for consumption area					3/13/2015		Wipe	35 µg/ft2
Mezzanine Entrance Break Room Floor		400 µg/ft2, clearance for occupancy					**3/13/2015; Resampled on 4/15/16**		Wipe	**420 µg/ft2; Resampled result 79 µg/ft2**
Mezzanine Southeast Break Room Floor		400 µg/ft2, clearance for occupancy					**3/13/2015; Resampled on 4/15/16**		Wipe	240 µg/ft2; Resampled result 150 µg/ft2
LEVEL 0.5										
Basement mid-rail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	43 µg/ft2				
Basement & LVL 1, Landing		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	110 µg/ft2				
Basement, Elevator/stairs	30 µg/m3; 50 µg/m3		**See Verification Sample**				2/18/2015	8-hr Air		**
Basement & LVL 1, Landing		400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	17 µg/ft2
LEVEL 1										
LVL 1, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**			Wipe	
LVL 1 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	110 µg/ft2			Wipe	
LVL 1 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	74 µg/ft2			Wipe	
LVL 1 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	130 µg/ft2			Wipe	
LVL 1 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	55 µg/ft2			Wipe	
LVL 1 Mail table		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	58 µg/ft2			Wipe	
LVL 1 Personnel Wall		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	37 µg/ft2			Wipe	
LVL 1 Personnel Floor		400 µg/ft2, clearance for 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 µg/ft2, clearance for					2/17/2015		Wipe	58 µg/ft2

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	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
	LVL 1 Hand Rail		400 µg/ft2, clearance for	See Verification Sample				2/17/2015		Wipe	**
	LVL 1 S Wall		400 µg/ft2, clearance for					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
LEVEL 2	LVL 2, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**				
	LVL 2 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	93 µg/ft2				
	LVL 2 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	59 µg/ft2				
	LVL 2 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	130 µg/ft2	Resampled on 2/17/2015 and 2/22/2015			**42 µg/ft2**
	LVL 2N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	76 µg/ft2				
	LVL 2 S Floor		400 µg/ft2, clearance for occupancy	See Verification Sample				2/17/2015		Wipe	52 µg/ft2
	LVL 2 W Floor		400 µg/ft2, clearance for occupancy					**2/17/2015; Resampled on 2/22/2015**		Wipe	**550 µg/ft2; Resample result 42 µg/ft2**
	LVL 2 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	320 µg/ft2
	LVL 2 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	150 µg/ft2
	LVL 2 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**
	LVL 2 S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 2 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	10 µg/ft2
	LVL 2 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 2 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 2 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
	LVL 2 to LVL 3 Landing		400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	29 µg/ft2
	Level 2 Floor		400 µg/ft2, clearance for occupancy					**2/22/2015**		Wipe	**42 µg/ft2**
	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		**				
	LVL 3 Break room by Coke machine	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				
	LVL 3 - Outside Break Room in foyer	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				
	LVL 3 Break room Floor @ door		40 µg/ft2, clearance for consumption area	2/13/2015		Wipe	**				

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		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
LEVEL 3	LVL 3 Break room Table		40 µg/ft2, clearance for consumption area	2/13/2015		Wipe	**				
	LVL 3, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**				
	LVL 3 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	77 µg/ft2				
	LVL 3 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	30 µg/ft2				
	LVL 3 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	47 µg/ft2				
	LVL 3 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	75 µg/ft2				
	LVL 3 S Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	60 µg/ft2
	LVL 3 W Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	94 µg/ft2
	LVL 3 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	32 µg/ft2
	LVL 3 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	45 µg/ft2
	LVL 3 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**
	LVL 3 S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 3 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 3 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 3 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 3 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
	LVL 3 to LVL 4 Landing		400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	75 µg/ft2
LEVEL 4	LVL 4, mid-rail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	140 µg/ft2				
	LVL 4 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	55 µg/ft2				
	LVL 4 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	65 µg/ft2				
	LVL 4 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	98 µg/ft2				
	LVL 4 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	95 µg/ft2				
	LVL 4 S Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	54 µg/ft2
	LVL 4 W Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	80 µg/ft2
	LVL 4 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	100 µg/ft2
	LVL 4 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	52 µg/ft2

See Verification Sample

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

	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
	LVL 4 Hand Rail		400 µg/ft2, clearance for occupancy	See Verification Sample				2/17/2015		Wipe	**
	LVL 4 S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 4 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 4 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 4 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 4 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
LEVEL 4.5	LVL 4 & LVL 5 between mid rail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	350 µg/ft2				
	LVL 4 & LVL 5, mid Landing		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	90 µg/ft2				
	LVL 4 to LVL 5 Landing		400 µg/ft2, clearance for occupancy	See Verification Sample				2/19/2015		Wipe	75 µg/ft2
LEVEL 5	LVL 5 Office C507	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	LVL 5 Corridor	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	LVL 5 Conf Rm, C501	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	LVL 5 - Conference Room	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				
	LVL 5 - Outside Office C507Conference Room	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				
	LVL 5 office desk		40 µg/ft2, clearance for consumption area	2/13/2015		Wipe	**				
	LVL 5 Conference table		40 µg/ft2, clearance for consumption area	2/13/2015		Wipe	**				
	LVL 5 Floor at Stairs, Conf Rm		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	42 µg/ft2				
	LVL 5 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	130 µg/ft2				
	LVL 5 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	51 µg/ft2				
	LVL 5 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	100 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	See Verification Sample				2/17/2015		Wipe	69 µg/ft2
	LVL 5 W Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	64 µg/ft2
	LVL 5 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	44 µg/ft2
	LVL 5 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	40 µg/ft2
	LVL 5 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	11 µg/ft2
	LVL 5 S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 5 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**

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LEGEND	
**	Below Detection Limits for Sampling and Analytical Equipment
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	Above Regulatory Requirements

	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
	LVL 5 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 5 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 5 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
	LVL 5 to LVL 6 Landing		400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	34 µg/ft2
	LVL 6, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**				
	LVL 6 E Floor		400 µg/ft2, clearance for 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 2/17/2015		Wipe	110 µg/ft2
	LVL 6 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	470 µg/ft2	Resampled on 2/17/2015		Wipe	230 µg/ft2
	LVL 6 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	340 µg/ft2				
	LVL 6 S Floor		400 µg/ft2, clearance for occupancy					**2/17/2015**		Wipe	**110 µg/ft2**
	LVL 6 W Floor		400 µg/ft2, clearance for occupancy					**2/17/2015**		Wipe	**230 µg/ft2**
	LVL 6 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	240 µg/ft2
	LVL 6 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	140 µg/ft2
	LVL 6 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	12 µg/ft2
	LVL 6 S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 6 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 6 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	13 µg/ft2
	LVL 6 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	16 µg/ft2
	LVL 6	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
	LVL 6 to LVL 7 Landing		400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	11 µg/ft2
	LVL 7, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**				
	LVL 7 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	230 µg/ft2				
	LVL 7 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	200 µg/ft2				
	LVL 7 W Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	1000 µg/ft2	Resampled on 2/17/2015		Wipe	140 µg/ft2
	LVL 7 N Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	130 µg/ft2				
	LVL 7 S Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	36 µg/ft2

LEVEL 6

See Verification Sample

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	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
LEVEL 7	LVL 7 W Floor		400 µg/ft2, clearance for occupancy	See Verification Sample				**2/17/2015**		Wipe	**140 µg/ft2**
	LVL 7 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	27 µg/ft2
	LVL 7 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	56 µg/ft2
	LVL 7 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**
	LVL 7 S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	21 µg/ft2
	LVL 7 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 7 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	12 µg/ft2
	LVL 7 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 7 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
	LVL 7 to LVL 8 Landing		400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	26 µg/ft2
	Level 7 South Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	580 µg/ft2
	Level 7 South Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	470 µg/ft2
	Level 7 West Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	51 µg/ft2
	Level 7 North Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	71 µg/ft2
	Level 7 East Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	150 µg/ft2
	Level 7 South Outside		800 µg/ft2, clearance for outside surfaces					3/6/2015		Wipe	190 µg/ft2
	LVL 8, Top of Handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**				
	LVL 8 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	320 µg/ft2				
	LVL 8 S Floor		400 µg/ft2, clearance for 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				
	LVL 8 N Floor		400 µg/ft2, clearance for 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
	LVL 8 W Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	49 µg/ft2
	LVL 8 N Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	80 µg/ft2
	LVL 8 E Floor		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	90 µg/ft2
	LVL 8 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**

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	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample Air	Type of Sample Wipe	Initial Assessment	Verification Date of Sample	Type of Sample Air	Type of Sample Wipe	Verification Result
LEVEL 8	LVL 8 S Wall		400 µg/ft2, clearance for occupancy	See Verification Sample				2/18/2015		Wipe	**
	LVL 8 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	13 µg/ft2
	LVL 8 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	25 µg/ft2
	LVL 8 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 8 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
	LVL 8 to LVL 9 Landing		400 µg/ft2, clearance for 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)
	Level 8 West Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	14 µg/ft2
	Level 8 North Outside		800 µg/ft2, clearance for 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**		Wipe	**2300 µg/ft2 (Recleaning)**
	Level 8 South Outside		800 µg/ft2, clearance for outside surfaces					**3/17/2015**		Wipe	**220 µg/ft2**
LEVEL 8.5	Level 8.5 West Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	200 µg/ft2				
	Level 8.5 North Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	1900 µg/ft2 (Recleaning)				
	Level 8.5 East Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	340 µg/ft2				
	Level 8.5 South Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	140 µg/ft2				
	Level 8.5 North Outside		800 µg/ft2, clearance for outside surfaces	See Verification Sample				5/4/2015		Wipe	300 µg/ft2
	LVL 9, top of handrail		400 µg/ft2, clearance for 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
	LVL 9 S Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	470 µg/ft2	Resampled on 2/17/2015		Wipe	250 µg/ft2
	LVL 9 W Floor		400 µg/ft2, clearance for 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
	LVL 9 S Floor		400 µg/ft2, clearance for occupancy					**2/17/2015**		Wipe	**250 µg/ft2**
	LVL 9 W Floor		400 µg/ft2, clearance for occupancy					**2/17/2015**		Wipe	**200 µg/ft2**

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	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
LEVEL 9	LVL 9 N Floor		400 µg/ft2, clearance for occupancy					**2/17/2015**		Wipe	**140 µg/ft2**
	LVL 9 E Floor		400 µg/ft2, clearance for occupancy					**2/17/2015**		Wipe	**160 µg/ft2**
	LVL 9 Hand Rail		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**
	LVL 9 S Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 9 W Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 9 N Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 9 E Wall		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**
	LVL 9 Floor	30 µg/m3; 50 µg/m3						2/19/2015	8-hr Air		**
	LVL 9 to LVL 10 Landing		400 µg/ft2, clearance for occupancy					2/19/2015		Wipe	41 µg/ft2
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	150 µg/ft2
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces	**See Verification Sample**				**2/27/2015; Resampled on 3/6/2015**		Wipe	**1500 µg/ft2 (Recleaning)**
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	270 µg/ft2
	Level 9 West Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	420 µg/ft2
	Level 9 East Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	280 µg/ft2
	Level 9 North Outside		800 µg/ft2, clearance for outside surfaces					2/27/2015		Wipe	12 µg/ft2
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces					**3/6/2015; Resampled on 3/17/2015**		Wipe	**960 µg/ft2 (Recleaning)**
	Level 9 East Outside		800 µg/ft2, clearance for outside surfaces					3/6/2015		Wipe	800 µg/ft2
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces					**3/17/2015**		Wipe	**1200 µg/ft2 (Recleaning)**
	Level 9 Southeast Outside		800 µg/ft2, clearance for outside surfaces					**3/17/2015**		Wipe	**2000 µg/ft2 (Recleaning)**
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces					**7/16/2015**		Wipe	**1100 µg/ft2 (Recleaning)**
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces					**8/20/2015**		Wipe	**1400 µg/ft2 (Recleaning)**
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces					**8/20/2015**		Wipe	**1500 µg/ft2 (Recleaning)**
	Level 9 South Outside		800 µg/ft2, clearance for outside surfaces					**8/21/2015**		Wipe	400 µg/ft2
	LVL 10 E Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	210 µg/ft2				

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

See Verification Sample

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	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
LEVEL 11	Level 11 South Outside		800 µg/ft2, clearance for outside surfaces	See Verification Sample				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 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**
	Level 11 Floor Under GN Heater Panel		400 µg/ft2, clearance for occupancy					**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**
LEVEL 12	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	See Verification Sample				3/6/2015		Wipe	570 µg/ft2 (Recleaning)
	Level 12 10 ft Inside		400 µg/ft2, clearance for occupancy					3/7/2015		Wipe	31 µg/ft2
	Level 12 Stairs		400 µg/ft2, clearance for occupancy					**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

LEVEL 13

Location	Requirement		Initial Assessement				Verification			
	OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
				Air	Wipe			Air	Wipe	
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
LVL 13, Clean Room Floor		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	**				
LVL 13, 21 ft outside Clean Room		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	730.0 µg/ft2 (Recleaning)				
LVL 13, 2 ft outside Clean Room		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	12000.0 µg/ft2 (Recleaning)				
LVL 13, 31 ft outside Clean Room		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	500.0 µg/ft2 (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	See Verification Sample				3/6/2015		Wipe	92 µg/ft2
Level 13 10 ft		400 µg/ft2, clearance for occupancy					3/7/2015		Wipe	22 µg/ft2
Level 13 20 ft		400 µg/ft2, clearance for 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					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
Level 13 Stairs		400 µg/ft2, clearance for occupancy					**4/21/2015; Resampled on 4/24/15; Resampled on 4/29/15**		Wipe	**940 µg/ft2; Resampled result 420 µg/ft2; Resampled result 330 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

Location	Requirement		Initial Assessement				Verification			
	OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
				Air	Wipe			Air	Wipe	
Level 13 Stair Rail		400 µg/ft2, clearance for occupancy					4/21/2015		Wipe	96 µg/ft2
Level 13 Guard Rail		400 µg/ft2, clearance for occupancy					4/21/2015		Wipe	59 µg/ft2
Level 13 Light Fixture		400 µg/ft2, clearance for occupancy					4/21/2015		Wipe	210 µg/ft2
LEVEL 14 LVL 14, top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	49 µg/ft2				
Level 14 East Inside		400 µg/ft2, clearance for occupancy	See Verification Sample				3/6/2015		Wipe	2900 µg/ft2 (Recleaning)
Level 14 North Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	930 µg/ft2 (Recleaning)
Level 14 West Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	450 µg/ft2 (Recleaning)
Level 14 South Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	270 µg/ft2
Level 14 Handrail		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	24 µg/ft2
Level 14 Mid-rail		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	28 µg/ft2
Level 14 North Handrail		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	140 µg/ft2
Level 14 South Handrail		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	21 µg/ft2
Level 14 Stairs		400 µg/ft2, clearance for occupancy					4/20/2015		Wipe	98 µg/ft2
Level 14 Handrail		400 µg/ft2, clearance for occupancy					4/20/2015		Wipe	160 µg/ft2
Level 14 Guardrail		400 µg/ft2, clearance for occupancy					4/20/2015		Wipe	34 µg/ft2
Level 14 Light Fixture		400 µg/ft2, clearance for occupancy					4/20/2015		Wipe	66 µg/ft2
LEVEL 15 LVL 15, Top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	510 µg/ft2				
Level 15 Mid-rail Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	40 µg/ft2
Level 15 North Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	2300 µg/ft2
Level 15 West Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	11000 µg/ft2
Level 15 East Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	19000 µg/ft2
Level 15 South Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	5700 µg/ft2
Level 15 Handrail Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	25 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

	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
LEVEL 15	Level 15 Mid-rail Inside		400 µg/ft2, clearance for occupancy	See Verification Sample				3/6/2015		Wipe	35 µg/ft2
	Level 15 Horizontal Beam North Wall		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	580 µg/ft2 (Recleaning)
	Level 15 South Handrail Mid-Rail		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	1000 µg/ft2 (Recleaning)
	Level 15 Floor 1/2 Stairwell Landing		400 µg/ft2, clearance for occupancy					**3/30/2015; Resampled on 4/20/15**		Wipe	**1600 µg/ft2; Resampled result 210 µg/ft2**
	Level 15 Top of H2O Tank 2		400 µg/ft2, clearance for occupancy					**3/30/2015; Resampled on 4/20/15**		Wipe	**620 µg/ft2; Resampled result 260 µg/ft2**
	Level 15 Guardrail		400 µg/ft2, clearance for occupancy					4/20/2015		Wipe	86 µg/ft2
	Level 15 Stairwell Handrail		400 µg/ft2, clearance for occupancy					4/20/2015		Wipe	180 µg/ft2
	Level 15 Light Fixture		400 µg/ft2, clearance for occupancy					4/20/2015		Wipe	72 µg/ft2
LEVEL 16	LVL 16, Top of handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	59 µg/ft2				
	LVL 16 Floor		400 µg/ft2, clearance for occupancy	2/14/2015		Wipe	250 µg/ft2				
	Level 16 Southeast Outside		800 µg/ft2, clearance for outside surfaces	2/27/2015		Wipe	290 µg/ft2				
	Level 16 Northeast Outside		800 µg/ft2, clearance for outside surfaces	2/27/2015		Wipe	**				
	Level 16 Northwest Outside		800 µg/ft2, clearance for outside surfaces	2/27/2015		Wipe	13 µg/ft2				
	Level 16 East Inside		400 µg/ft2, clearance for occupancy	See Verification Sample				3/6/2015		Wipe	8700 µg/ft2 (Recleaning)
	Level 16 North Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	6400 µg/ft2 (Recleaning)
	Level 16 West Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	77 µg/ft2
	Level 16 South Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	290 µg/ft2
	Level 16 Handrail		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	53 µg/ft2
	Level 16 Horizontal Beam South 6' High		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	200 µg/ft2
	Level 16 Guardrail Top-Rail Handrail		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	34 µg/ft2
	Level 16 Stairwell Second Step		400 µg/ft2, clearance for occupancy	See Verification Sample				**3/30/2015; Resampled on 4/17/15; Resampled on 4/20/15; Resampled on 4/21/15; Resampled on 4/2/15;**		Wipe	**1600 µg/ft2; Resampled result 2400 µg/ft2; Resampled result 630 µg/ft2; Resampled result 670 µg/ft2; Resampled result 260 µg/ft2**

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

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

	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
	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	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	3/6/2015		Wipe	350 µg/ft2				
	Level 17 Mid-rail Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	52 µg/ft2				
	Level 17 Handrail		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	**				
	Level 17 Top of Transformer 001374		400 µg/ft2, clearance for occupancy	**See Verification Sample**				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 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					**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 handrail		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**				
	Level 18 South Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	55 µg/ft2

Data as of August 18th, 2015
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Total Samples Above Limits - 62

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

	Location	Requirement		Initial Assessment				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
LEVEL 18	Level 18 West Inside		400 µg/ft2, clearance for occupancy	See Verification Sample				3/6/2015		Wipe	110 µg/ft2
	Level 18 North Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	490 µg/ft2 (Recleaning)
	Level 18 East Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	510 µg/ft2 (Recleaning)
	Level 18 Handrail Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	63 µg/ft2
	Level 18 Mid-rail Inside		400 µg/ft2, clearance for occupancy					3/6/2015		Wipe	39 µg/ft2
	Level 18 Top of Electrical Panel LP-117		400 µg/ft2, clearance for occupancy					**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**
	Level 18 Diagonal Beam, Southwest corner		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	31 µg/ft2
	Level 18 Top of A/C unit, Northwest corner		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	220 µg/ft2
	Level 18 Horizontal Beam, Northeast		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	510 µg/ft2
	Level 18 Top of Light Fixture near Room C1803		400 µg/ft2, clearance for occupancy					**3/30/2015; Resampled on 4/23/2015**		Wipe	**8100 µg/ft2; Resampled result 96 µg/ft2**
	Level 18 Stairs		400 µg/ft2, clearance for occupancy					4/23/2015		Wipe	210 µg/ft2
	Level 18 Stairs Rail		400 µg/ft2, clearance for occupancy					4/23/2015		Wipe	77 µg/ft2
	Level 18 Guard Rail		400 µg/ft2, clearance for occupancy					4/23/2015		Wipe	100 µg/ft2
LEVEL 19	Level 19 South Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	400 µg/ft2 (Recleaning)				
	Level 19 East Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	79 µg/ft2				
	Level 19 South Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	260 µg/ft2				
	Level 19 East Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	120 µg/ft2				
	Level 19 Handrail Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	90 µg/ft2				
	Level 19 Mid-rail Inside		400 µg/ft2, clearance for occupancy	3/6/2015		Wipe	40 µg/ft2				
	Level 19 Floor, Diamond Plate, Top of Stairs		400 µg/ft2, clearance for occupancy					**3/30/2015; Resampled on 4/23/2015**		Wipe	**1600 µg/ft2; Resampled result 49 µg/ft2**
	Level 19 Tabletop in Room C904		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	100 µg/ft2

Data as of August 18th, 2015
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Total Samples Above Limits - 62

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

	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
LEVEL	Level 19 Floor, Diamond Plate, Room C1904		400 µg/ft2, clearance for occupancy	See Verification Sample				**3/30/2015; Resampled on 4/23/2015**		Wipe	**1000 µg/ft2; Resampled result 49 µg/ft2**
	Level 19 Diagonal beam, Northwest, 5'		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	300 µg/ft2
	Level 19 Horizontal Beam, East Wall		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	39 µg/ft2
	Level 19 Guardrail, Top Rail		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	15 µg/ft2
	Level 19 Horizontal Beam, South Wall		400 µg/ft2, clearance for occupancy					3/30/2015		Wipe	180 µg/ft2
	Level 19 Top of Light Fixture		400 µg/ft2, clearance for occupancy					**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	Level 20 North Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	170 µg/ft2				
	Level 20 West Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	100 µg/ft2				
	Level 20 South Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	1400 µg/ft2 (Recleaning)				
	Level 20 East Outside		800 µg/ft2, clearance for outside surfaces	3/6/2015		Wipe	230 µg/ft2				
	Level 20 SW Corner Outside		800 µg/ft2, clearance for outside surfaces	See Verification Sample				4/23/2015			170 µg/ft2
	Level 20 E Side Outside		800 µg/ft2, clearance for outside surfaces					4/23/2015			210 µg/ft2
	Level 20 SE Side Outside		800 µg/ft2, clearance for outside surfaces					4/23/2015			300 µg/ft2
	Level 20 North Side Outside		800 µg/ft2, clearance for outside surfaces					4/23/2015			430 µg/ft2
WEST ELEVATOR	West Elevator, Floor		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	1000.0 µg/ft2	Resampled on 2/17/2015		Wipe	**65 µg/ft2**
	West Elevator, Call Panel		400 µg/ft2, clearance for occupancy	2/5/2015		Wipe	320.0 µg/ft2				26 µg/ft2
	West Elevator button panel		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	**				99 µg/ft2
	W Pier Elevator Access Wall		400 µg/ft2, clearance for 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
	West Elevator West Walll		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**

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

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

	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
	West Elevator South Walll		400 µg/ft2, clearance for occupancy	See Verification Sample				2/17/2015		Wipe	**
	West Elevator Door		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	**
	West Elevator Floor		400 µg/ft2, clearance for occupancy					**2/17/2015**		Wipe	**
	West Elevator button panel		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	**120 µg/ft2**
	West Elevator Floor		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	15 µg/ft2
											85 µg/ft2
EAST ELEVATOR	East Elevator Floor		400 µg/ft2, clearance for occupancy	2/13/2015		Wipe	940 µg/ft2	Resampled on 2/17/2015		Wipe	
	East Elevator North Wall		400 µg/ft2, clearance for occupancy	See Verification Sample				2/17/2015		Wipe	Using exterior clearance standard instead of interior clearance standard
	East Elevator East Wall		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	Using exterior clearance standard instead of interior clearance standard
	East Elevator South Wall		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	460 µg/ft2
	East Elevator Door		400 µg/ft2, clearance for occupancy					2/17/2015		Wipe	16 µg/ft2
	East Elevator Floor		400 µg/ft2, clearance for occupancy					**2/17/2015**		Wipe	
	East Elevator button panel		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	
	East Elevator Floor		400 µg/ft2, clearance for occupancy					2/18/2015		Wipe	
CONSTRUCTION ELEVATOR	Construction Elevator Floor		800 µg/ft2, clearance for outside surfaces	2/14/2015		Wipe	500 µg/ft2				
	Construction Elevator Wall		800 µg/ft2, clearance for outside surfaces	2/14/2015		Wipe	15 µg/ft2				
	Level 10 Elevator Floor		800 µg/ft2, clearance for outside surfaces	See Verification Sample				3/6/2015		Wipe	
	Level 10 Elevator Wall		800 µg/ft2, clearance for outside surfaces					3/6/2015		Wipe	
	North side, flamebucket stops top	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	North Side, 20 ft N of smoke pen	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				
	North Side, 50 ft N of smoke pen	30 µg/m3; 50 µg/m3		2/13/2015	2 hr Partial Air		**				**
	North Side - 20 ft North of Smoke pen	30 µg/m3; 50 µg/m3		2/13/2015	Air - 6 Hr		**				**
	NORTH - 50 ft from Containment		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	76 µg/ft2				**
	NORTH - 50 ft from Containment -2		800 µg/ft2, clearance for 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	**				**

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Total Samples Taken - 549
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LEGEND	
**	Below Detection Limits for Sampling and Analytical Equipment
(hatched)	Not Applicable
(green)	Compliant with Requirements
(pink)	Above Regulatory Requirements

	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
NORTH EXTERIOR	NORTH - 100 ft from Contaiment Porta-Potty-2		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	97 μg/ft2				**
NORTH EXTERIOR	NORTH - 100 ft from Contaiment Porta-Potty-3		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	67 μg/ft2				**
NORTH EXTERIOR	NORTH - 10 ft from Stand	30 μg/m3; 50 μg/m3		See Verification Sample				2/17/2015	8 hr Air		**
NORTH EXTERIOR	NORTH - 10 ft from Stand	30 μg/m3; 50 μg/m3						2/17/2015	8 hr Air		39 μg/ft2
NORTH EXTERIOR	NORTH - 50 ft from Stand	30 μg/m3; 50 μg/m3						2/17/2015	8hr Air		19 μg/ft2
NORTH EXTERIOR	NORTH - 50 ft from Stand	30 μg/m3; 50 μg/m3						2/17/2015	8hr Air		41 μg/ft2
NORTH EXTERIOR	NORTH - 10 ft from Stand		800 μg/ft2, clearance for outside surfaces					2/18/2015	8 hr Air		190 μg/ft2
NORTH EXTERIOR	NORTH - 50 ft from Stand		800 μg/ft2, clearance for outside surfaces					2/18/2015	8 hr Air		**
NORTH EXTERIOR	NORTH - 100 ft from Stand		800 μg/ft2, clearance for outside surfaces					2/18/2015	8hr Air		66 μg/ft2
NORTH EXTERIOR	NORTH - 100 ft from Stand		800 μg/ft2, clearance for outside surfaces					2/18/2015	8hr Air		
NORTH EXTERIOR	NORTH - 100 ft from Stand		800 μg/ft2, clearance for outside surfaces					2/18/2015	8hr Air		
NORTH EXTERIOR	NORTH - 0' from stand		800 μg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
NORTH EXTERIOR	NORTH - 20' from stand		800 μg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
NORTH EXTERIOR	NORTH - 0' from stand		800 μg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
NORTH EXTERIOR	NORTH - 20' from stand		800 μg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
NORTH EXTERIOR	NORTH - 0' from stand		800 μg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
NORTH EXTERIOR	NORTH - 20' from stand		800 μg/ft2, clearance for outside surfaces					2/17/2015		Wipe	
	South West side	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	South Side, 75 ft from South Entrance	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	South side, He Purge Panel	30 μg/m3; 50 μg/m3		2/13/2015	2 hr Partial Air		**				
	South Side - 75 ft from south entrance	30 μg/m3; 50 μg/m3		2/13/2015	Air - 6 Hr		**				
	South Side - He purge panel	30 μg/m3; 50 μg/m3		2/13/2015	Air - 6 Hr		**				
	South Side - at South Entrance	30 μg/m3; 50 μg/m3		2/13/2015	Air - 6 Hr		**				21 μg/ft2
	SOUTH Porta Potty top		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	**				**
	SOUTH - 100 ft from Containment		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	140 μg/ft2				**
	SOUTH - 50 Ft from Containment		800 μg/ft2, clearance for outside surfaces	2/13/2015		Wipe	**				**
	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	**

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

	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
SOUTH EXTERIOR	10 ft South Side	30 µg/m3; 50 µg/m3		See Verification Sample				2/24/2015	Air		**
	10 ft South Side	30 µg/m3; 50 µg/m3						2/24/2015	Air		**21 µg/ft2**
	10 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		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		**
	South Outside Generator		800 µg/ft2, clearance for outside surfaces					**2/24/2015**		Wipe	**
	South Outside lift equipment		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	15 µg/ft2
	South outside sample panel		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	130 µg/ft2
	South outside light tower		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	28 µg/ft2
	South outside VJ 134 Panel		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	
	South outside small crane		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	
	South outside feeding pipe		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	15 µg/ft2
	South outside large crane		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	29 µg/ft2
	South outside 470 Machine		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	12 µg/ft2
	South outside Volvo Machine		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	38 µg/ft2
	South outside light pole		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	25 µg/ft2
	South dumpster		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	37 µg/ft2
											39 µg/ft2
WEST EXTERIOR	WEST Porta Potty top		800 µg/ft2, clearance for outside surfaces	2/13/2015		Wipe	**				18 µg/ft2
	West outside parking bumper #1		800 µg/ft2, clearance for outside surfaces	See Verification Section				2/24/2015		Wipe	**
	West outside parking bumper #2		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	
	West outside blue bin		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	
	West outside light plant		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	
	West outside parking stripe #1		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	
	West outside parking stripe #2		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	
	West outside parking stripe #3		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	
	West outside parking stripe #4		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	

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

	Location	Requirement		Initial Assessement				Verification			
		OSHA - Air (Action Level; Permissible	HUD - Wipe	Date of Sample	Type of Sample		Initial Assessment	Verification Date of Sample	Type of Sample		Verification Result
					Air	Wipe			Air	Wipe	
	West generator		800 µg/ft2, clearance for outside surfaces					2/24/2015		Wipe	
EAST EXTERIOR	East fan		800 µg/ft2, clearance for 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				
	East Dock Wall #3		800 µg/ft2, clearance for outside surfaces	2/24/2015		Wipe	19 µg/ft2				
	East Dock Wall #2		800 µg/ft2, clearance for outside surfaces	2/24/2015		Wipe	17 µg/ft2				
	East Light Pole		800 µg/ft2, clearance for outside surfaces	2/24/2015		Wipe	49 µg/ft2				
	East Rail		800 µg/ft2, clearance for outside surfaces	2/24/2015		Wipe	86 µg/ft2				