

Received: 10/ 9/01 6:57 PM;
 10/09/01 TUE 18:52 FAX 4840328
 10/09/2001 14:04 856-858-4571

4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC; Page 2
 AMEC CONSTRUCT. MGMT. INC
 EMSL CHEMISTRY
 PAGE 01/15 002

Asbestos - Lead - Environmental - Materials & Indoor Air Analysis

EMSL

EMSL Analytical

<http://www.emsl.com>

3 Cooper St.
 Westmont, NJ 08108
 Phone: (856) 858-4800
 Fax: (856) 858-4571

Attention: ~~XXXXXXXXXX~~
 Amec Earth & Environmental
 1633 Broadway 24th Floor
 New York, NY 10019
 Phone 347-231-2566 - cell
 Fax: 212-484-0580

10/9/01

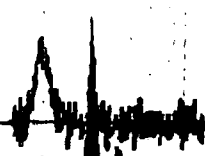
The following report covers the analysis performed on samples submitted to EMSL Analytical on 10/8/01. The results are tabulated on the attached data pages for the following client designated project:

The reference number for these samples is EMSL Order #010102312. Please use this reference when calling about these samples.

If you have any questions, please do not hesitate to contact me at (856) 858-4800.

Reviewed and Approved By:

Gerold J. Miller, Ph.D.
 Laboratory Manager
 NJ Certification: 04653



10/09/01 TUE 14:04 [TX/RX NO 9169]

CITY_21MC100_003006284

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4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC.; Page 3

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EMSL CHEMISTRY

10/09/2001 14:04 858-858-4571

PAGE 02/13 003

EMSL Analytical

1 Cooper St., Westmont, NJ 08108

Attn: Jeff Tasca
Amec Earth & Environmental
1633 Broadway 24th Floor
New York, NY 10019

Fax: (212) 484-0580

Phone: 347-231-2666 - cell

Customer ID: AEE80

Customer PO:

Received: 10/08/01 9:43 AM

EMSL Order: 010102312

EMSL Project ID:

EMSL*Client Sample Description*

100501-02

Lab ID: 0001

750 Mazzocchi West side of Tower 1 site

Test	Method	Parameter	Concentration	Units	Notes
Aluminum, Total	7300 Modified	Al	<6.79	µg/m³	
Arsenic, Total	7300 Modified	Arsenic	<0.543	µg/m³	
Chromium, Total	7300 Modified	Cr	1.15	µg/m³	
Iron, Total	7300 Modified	Fe	8.66	µg/m³	
Lead, Total	7300 Modified	Lead	<0.679	µg/m³	
Nickel, Total	7300 Modified	Ni	<1.36	µg/m³	
Zinc, Total	7300 Modified	Zn	<1.36	µg/m³	

Page 2 of 11

10/09/01 TUE 14:04 [TX/RX NO 9169]

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4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC; Page 4
AMEC CONSTRUCT. MGMT. INC
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PAGE 03/13

004

EMSL Analytical

3 Cooper St., Westmont, NJ 08108

Attn: Jeff Tasca
Amec Earth & Environmental
1633 Broadway 24th Floor
New York, NY 10019

Fax: (212) 484-0580

Phone: 347-231-2566 - cell

Customer ID: AEE80

Customer PO:

Received: 10/08/01 9:43 AM

EMSL Order: 010102312

EMSL Project ID:

EMSL**Client Sample Description**

100501-00

Lab ID: 0002

North side of AmEx bldg near decon station

Test	Method	Parameter	Concentration	Units	Notes
Aluminum, Total	7300 Modified	Al	<6.75	µg/m³	
Arsenic, Total	7300 Modified	Arsenic	<0.540	µg/m³	
Chromium, Total	7300 Modified	Cr	1.10	µg/m³	
Iron, Total	7300 Modified	Fe	<6.75	µg/m³	
Lead, Total	7300 Modified	Lead	<0.676	µg/m³	
Nickel, Total	7300 Modified	Ni	<1.35	µg/m³	
Zinc, Total	7300 Modified	Zn	<1.35	µg/m³	

Page 3 of 11

10/09/01 TUE 14:04 [TX/RX NO 9189]

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4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC; Page 5

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EMSL CHEMISTRY

005

10/09/2001 14:04 856-858-4571

PAGE 04/13

EMSL Analytical

3 Cooper St., Westmont, NJ 08108

Attn: Jeff Tasca
Amec Earth & Environmental
1833 Broadway 24th Floor
New York, NY 10019

Fax: (212) 484-0580

Phone: 347-231-2566 - cell

Customer ID: AEE60

Customer PO:

Received: 10/08/01 9:43 AM

EMSL Order: 010102312

EMSL Project ID:

EMSL**Client Sample Description**

100501-04

Lab ID: 0003

East side of AmEx bldg near decon station

Test	Method	Parameter	Concentration	Units	Notes
Aluminum, Total	7300 Modified	Al	<6.67	µg/m³	
Arsenic, Total	7300 Modified	Arsenic	<0.549	µg/m³	
Chromium, Total	7300 Modified	Cr	1.33	µg/m³	
Iron, Total	7300 Modified	Fe	12.4	µg/m³	
Lead, Total	7300 Modified	Lead	<0.887	µg/m³	
Nickel, Total	7300 Modified	Ni	<1.37	µg/m³	
Zinc, Total	7300 Modified	Zn	<1.37	µg/m³	

Page 4 of 11

10/09/01 TUE 14:04 [TX/RX NO 9169]

CITY_21MC100_003006287

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10/09/2001 14:04 856-858-4571

4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC; Page 6
AMEC CONSTRUCT. MGMT. INC
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PAGE 05/13 006

EMSL Analytical

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Attn: Jeff Tasca
Amec Earth & Environmental
1633 Broadway 24th Floor
New York, NY 10019

Fax: (212) 484-0580

Phone: 347-231-2566 - cell

Customer ID: AEE80

Customer PO:

Received: 10/08/01 9:43 AM

EMSL Order: 010102312

EMSL Project ID:

EMSL**Client Sample Description**

100501-05

Lab ID: 0004

750 Massachusetts South side of Tower 1 pile

Test	Method	Parameter	Concentration	Units	Notes
Aluminum, Total	7300 Modified	Al	9.05	µg/m ³	
Arsenic, Total	7300 Modified	Arsenic	<0.529	µg/m ³	
Chromium, Total	7300 Modified	Cr	1.12	µg/m ³	
Iron, Total	7300 Modified	Fe	16.6	µg/m ³	
Lead, Total	7300 Modified	Lead	<0.661	µg/m ³	
Nickel, Total	7300 Modified	Ni	<1.32	µg/m ³	
Zinc, Total	7300 Modified	Zn	2.96	µg/m ³	

Page 5 of 11

10/09/01 TUE 14:04 [TX/RX NO 9169]

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4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC; Page 7
AMEC CONSTRUCT. MGMT. INC
EMSL CHEMISTRY

PAGE 06/13 007

EMSL Analytical

3 Cooper St., Westmont, NJ 08108

EMSL

Attn: Jeff Tasca
Amec Earth & Environmental
1833 Broadway 24th Floor
New York, NY 10019

Customer ID: AEE80
Customer PO:
Received: 10/08/01 9:43 AM

Fax: (212) 484-0580 Phone: 347-231-2566 - cell

EMSL Order: 010102312
EMSL Project ID:

Client Sample Description: 100501-08
550 Massachusetts middle of Tower 1 pile

Lab ID: 0005

Test	Method	Parameter	Concentration	Units	Notes
Aluminum, Total	7308 Modified	Al	<6.85	µg/m³	
Arsenic, Total	7308 Modified	Arsenic	<0.532	µg/m³	
Chromium, Total	7308 Modified	Cr	0.988	µg/m³	
Iron, Total	7308 Modified	Fe	18.2	µg/m³	
Lead, Total	7308 Modified	Lead	<0.865	µg/m³	
Nickel, Total	7308 Modified	Ni	<1.33	µg/m³	
Zinc, Total	7308 Modified	Zn	4.23	µg/m³	

Page 6 of 11

10/09/01 TUE 14:04 [TX/RX NO 9169]

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4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC; Page 8
 AMEC CONSTRUCT. MGMT. INC
 EMSL CHEMISTRY
 PAGE 07/13 0008

EMSL Analytical

3 Cooper St., Westmont, NJ 08108

Attn: Jeff Tasca
 Amec Earth & Environmental
 1633 Broadway 24th Floor
 New York, NY 10019
 Fax: (212) 484-0580

Phone: 347-231-2566 - cell

Customer ID: AEE80
 Customer PO:
 Received: 10/08/01 9:43 AM
 EMSL Order: 010102312
 EMSL Project ID:

EMSL

Client Sample Description 100501-07
 Flag pole at North end of AMEC sector

Lab ID: 0008

Test	Method	Parameter	Concentration	Units	Notes
Aluminum, Total	7300 Modified	Al	<6.88	µg/m³	
Arsenic, Total	7300 Modified	Arsenic	<0.551	µg/m³	
Chromium, Total	7300 Modified	Cr	1.28	µg/m³	
Iron, Total	7300 Modified	Fe	8.98	µg/m³	
Lead, Total	7300 Modified	Lead	1.08	µg/m³	
Nickel, Total	7300 Modified	Ni	<1.38	µg/m³	
Zinc, Total	7300 Modified	Zn	2.11	µg/m³	

Page 7 of 11

10/09/01 TUE 14:04 [TX/RX NO 9169]

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4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC; Page 9
AMEC CONSTRUCT. MGMT. INC
EMSL CHEMISTRY
PAGE 08/13 009

10/09/2001 14:04 056-858-4571

EMSL Analytical

3 Cooper St., Westmont, NJ 08108

Attn: Jeff Tasca
Amec Earth & Environmental
1633 Broadway 24th Floor
New York, NY 10019

Fax: (212) 484-0580

Phone: 347-231-2568 - cell

Customer ID: AEE80

Customer PO:

Received: 10/08/01 9:43 AM

EMSL Order: 010102312

EMSL Project ID:

EMSL

Client Sample Description: 100501-09
Underneath cross memorial-Center of
AMEC sector

Lab ID: 0007

Test	Method	Parameter	Concentration Units	Notes
Aluminum, Total	7300 Modified	Al	<6.72 µg/m³	
Arsenic, Total	7300 Modified	Arsenic	<0.538 µg/m³	
Chromium, Total	7300 Modified	Cr	0.982 µg/m³	
Iron, Total	7300 Modified	Fe	7.43 µg/m³	
Lead, Total	7300 Modified	Lead	<0.672 µg/m³	
Nickel, Total	7300 Modified	Ni	<1.34 µg/m³	
Zinc, Total	7300 Modified	Zn	1.66 µg/m³	

Page 8 of 11

10/09/01 TUE 14:04 [TX/RX NO 9169]

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4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC; Page 10
AMEC CONSTRUCT. MGMT. INC
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PAGE 09/13 010

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3 Cooper St., Westmont, NJ 08108

Attn: Jeff Tasca
Amec Earth & Environmental
1833 Broadway 24th Floor
New York, NY 10018

Fax: (212) 484-0580

Phone: 347-231-2566 - cell

Customer ID: AEE60
Customer PO:
Received: 10/08/01 9:43 AM
EMSL Order: 010102312
EMSL Project ID:

EMSL

Client Sample Description 100801-10
NW corner of Customs bldg

Lab ID: 0008

Test	Method	Parameter	Concentration	Units	Notes
Aluminum, Total	7300 Modified	Al	<6.62	µg/m³	
Arsenic, Total	7300 Modified	Arsenic	<0.530	µg/m³	
Chromium, Total	7300 Modified	Cr	1.13	µg/m³	
Iron, Total	7300 Modified	Fe	<6.62	µg/m³	
Lead, Total	7300 Modified	Lead	0.992	µg/m³	
Nickel, Total	7300 Modified	Ni	<1.32	µg/m³	
Zinc, Total	7300 Modified	Zn	1.83	µg/m³	

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4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC; Page 11
AMEC CONSTRUCT. MGMT. INC
EMSL CHEMISTRY
PAGE 10/13 011

EMSL Analytical

3 Cooper St., Westmont, NJ 08105

Attn: Jeff Tasca
Amec Earth & Environmental
1633 Broadway 24th Floor
New York, NY 10019

Fax: (212) 484-0580

Phone: 347-231-2566 • cell

Customer ID: AEE80
Customer PO:
Received: 10/08/01 9:43 AM
EMSL Order: 010102312
EMSL Project ID:

Client Sample Description

100501-11
SW corner of Customs bldg

Lab ID: 0009

Test	Method	Parameter	Concentration	Units	Notes
Aluminum, Total	7300 Modified	Al	<6.72	µg/m³	
Arsenic, Total	7300 Modified	Arsenic	<0.538	µg/m³	
Chromium, Total	7300 Modified	Cr	1.13	µg/m³	
Iron, Total	7300 Modified	Fe	25.4	µg/m³	
Lead, Total	7300 Modified	Lead	3.07	µg/m³	
Nickel, Total	7300 Modified	Ni	<1.34	µg/m³	
Zinc, Total	7300 Modified	Zn	5.18	µg/m³	

Page 10 of 11

10/09/01 TUE 14:04 [TX/RX NO 9169]

CITY_21MC100_003006293

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4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC; Page 12
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PAGE 11/13 012

EMSL Analytical

1 Cooper St., Westmont, NJ 08108

Attn: Jeff Tasca
Amec Earth & Environmental
1633 Broadway 24th Floor
New York, NY 10019

Fax: (212) 484-0580

Phone: 347-231-2566 - call

Customer ID: AEE80
Customer PO:
Received: 10/08/01 9:43 AM
EMSL Order: 010102312
EMSL Project ID:

EMSL**Client Sample Description**

100501412

Lab ID: 0010

Inside supply shed btwn Tower
1&Winter Garden piles

Test	Method	Parameter	Concentration	Units	Notes
Aluminum, Total	7300 Modified	Al	<6.72	µg/m³	
Arsenic, Total	7300 Modified	Arsenic	<0.538	µg/m³	
Chromium, Total	7300 Modified	Cr	1.19	µg/m³	
Iron, Total	7300 Modified	Fe	<6.72	µg/m³	
Lead, Total	7300 Modified	Lead	<0.672	µg/m³	
Nickel, Total	7300 Modified	Ni	<1.34	µg/m³	
Zinc, Total	7300 Modified	Zn	<1.34	µg/m³	

Page 11 of 11

10/09/01 TUE 14:04 [TX/RX NO 9169]

CITY_21MC100_003006294

Received: 10/ 9/01 7:00PM;

4840328 -> AMEC CONSTRUCTION MANAGEMENT, INC; Page 13

10/09/01 TUE 18:55 FAX 4840328

AMEC CONSTRUCT. MGMT. INC
EMSL CHEMISTRY

10/09/2001 14:04 856-858-4571

PAGE 12/13

013



CHAIN OF CUSTODY

Revised January 13, 2000

Asbestos

010102312

Third Party Billing requires written authorization from third party

EMSL Rep:

Philip Lott

Your Company Name:

AMEC EYE

EMSL-Bill to:

Street:

1633 Broadway 4th Floor

Street:

Box #:

Box #:

City/State:

New York NY Zip: 10019

City/State:

Zip:

Phone Results to:

Fax Results to:

Name:

Name:

Telephone #:

Fax #:

Project

Purchase Order #:

Name/Number:

 Jeff Tasca cell phone
 (212) 484 0580

MATRIX

TURNAROUND

☒ Air	☐ Soil	☐ Micro-Vac	☐ 3 hrs	☐ 6 Hours	☐ Same Day or 12 Hours*	☒ 24 Hours (1 day)
☐ Bulk	☐ Drinking Water		☐ 48 Hours (2 days)	☐ 72 Hours (3 days)	☐ 96 Hours (4 days)	☐ 120 Hours (5 Days)
☐ Wipe	☐ Wastewater		☐ 144+ hours (6-10 Days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat; please call 1-800-720-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

*12 hours (must arrive by 11:00 a.m. Mon - Fri). Please Refer to Price Quote

PCM - Air ☐ NIOSH 7400(A) Issue 2, August 1994 ☐ OSHA w/ TWA ☐ Other: ☒ NIOSH 7300 NIOSH	TEM Air ☐ AHERA 40 CFR, Part 763 Subpart E ☐ NIOSH 7402 Issue 2 ☐ EPA Level II	TEM Water ☐ EPA 100.1 ☐ EPA 100.2 ☐ NYS 198.2
PLM - Bulk ☐ EPA 600/R-93/116 ☐ EPA Point Count ☐ NYS Stratified Point Count ☐ PLM NOB (Gravimetric) NYS 198.1 ☐ NIOSH 9002 ☐ EMSL Standard Addition	TEM Bulk ☐ Drop Mount (Qualitative) ☐ Charfield SOP - 1988-02 ☐ TEM NOB (Gravimetric) NYS 198.4 ☐ EMSL Standard Addition	TEM Microvac/Wipe ☐ ASTM D 5755-95 quantitative ☐ Wipe Qualitative
SEM Air or Bulk ☐ Qualitative ☐ Quantitative	PLM Soil ☐ EPA Protocol Qualitative ☐ EPA Protocol Quantitative ☐ EMSL MSD 9000 Method fibers/gram	XRD ☐ Asbestos ☐ Silica NIOSH 7500
		OTHER ☐

Client Sample # (s) 100501-02, 03, 04, 05, 06, 07, 09, 10, 11, 12 Total Samples #: 10

Relinquished: Christy Calhoun Date: 10-05-01 Time: 1700

Received: [Signature] EMSL Date: 10/8/01 Time: 9:45AM

Relinquished: Date: Time:

Received: Date: Time:

per Jeff per Al, Pb, Fe, Cr, Ni, Zn, As.

Page of

10/09/01 TUE 14:04 [TX/RX NO 9169]

CITY_21MC100_003006295

