

APPENDIX G

CHAIN OF CUSTODY FORMS AND LABORATORY ANALYSIS REPORTS

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041310844

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 04/30/13 9:20 AM
 Analysis Date: 5/1/2013
 Collected: 4/28/2013

Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249419 041310844-0001	PAM-1	14400	0.152	0.011	0.003	
249416 041310844-0002	PAM-2	14400	3.319	0.230	0.003	
249438 041310844-0003	PAM-3	14400	0.202	0.014	0.003	
249448 041310844-0004	PAM-4	14400	0.194	0.013	0.003	
249436 041310844-0005	PAM-5	14400	0.161	0.011	0.003	
249427 041310844-0006	PAM-6	14400	0.180	0.012	0.003	
249415 041310844-0007	PAM-7	14400	0.164	0.011	0.003	
249418 041310844-0008	PAM-1	14832	0.252	0.017	0.003	
249435 041310844-0009	PAM-2	14544	0.198	0.014	0.003	
249408 041310844-0010	PAM-3	14184	0.200	0.014	0.004	
249437 041310844-0011	PAM-4	14544	0.197	0.014	0.003	

Analyst(s)

Shane Feret (38)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 05/01/2013 11:52:36

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041310844
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
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14280 Park Center Drive
Suite A
Laurel, MD 20707

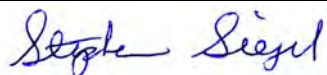
Phone: (410) 792-9446
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 Received: 04/30/13 9:20 AM
 Analysis Date: 5/1/2013
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Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249434 041310844-0012	PAM-5	14400	0.188	0.013	0.003	
249447 041310844-0013	PAM-6	14904	0.192	0.013	0.003	
249446 041310844-0014	PAM-7	14760	0.112	0.008	0.003	
249412 041310844-0017	PAM-1	14976	0.209	0.014	0.003	
249401 041310844-0018	PAM-2	14616	0.173	0.012	0.003	
249445 041310844-0019	PAM-3	14400	0.109	0.008	0.003	
249406 041310844-0020	PAM-4	14688	0.152	0.010	0.003	
249403 041310844-0021	PAM-5	14472	0.183	0.013	0.003	
249442 041310844-0022	PAM-6	14904	0.154	0.010	0.003	
249425 041310844-0023	PAM-7	15120	0.163	0.011	0.003	
249410 041310844-0024	PAM-1	14760	0.156	0.011	0.003	

Analyst(s)
 Shane Feret (38)


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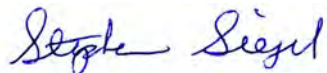
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Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249417 041310844-0025	PAM-2	14616	0.132	0.009	0.003	
249420 041310844-0026	PAM-3	14832	0.177	0.012	0.003	
249432 041310844-0027	PAM-4	14904	0.170	0.011	0.003	
249413 041310844-0028	PAM-5	14904	0.182	0.012	0.003	
249428 041310844-0029	PAM-6	14616	0.158	0.011	0.003	
249424 041310844-0030	PAM-7	15192	0.128	0.008	0.003	
249421 041310844-0031	PAM-1	15120	<0.05	<0.003	0.003	
249404 041310844-0032	PAM-1	15120	0.199	0.013	0.003	
249409 041310844-0033	PAM-2	14472	0.188	0.013	0.003	
249407 041310844-0034	PAM-3	14400	0.214	0.015	0.003	
249441 041310844-0035	PAM-4	15192	0.170	0.011	0.003	

Analyst(s)
 Shane Feret (38)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

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 Analysis Date: 5/1/2013
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Project: 130467 USA

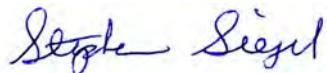
**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
 8/15/94**

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249429 041310844-0036	PAM-5	14328	0.134	0.009	0.003	
249431 041310844-0037	PAM-6	14688	0.195	0.013	0.003	
249411 041310844-0038	PAM-7	15192	0.181	0.012	0.003	
249405 041310844-0015		0	<0.05	N/A	N/A	Field Blank
249426 041310844-0016		0	<0.05	N/A	N/A	Field Blank

Notes: Discernable field blank submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (38)



 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 05/01/2013 11:52:36



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041310844

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA				U.S. State where Samples Collected: MARYLAND	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtazeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: ZEFON INTERNATIONAL
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: ZEFON INTERNATIONAL/7A53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249419	5.0µ PVC	Cr IV / OSHA 215; TOTAL PART. NIOSH 0500	14,400L	4/24/13 / 12:30	BALTIMORE, MD	15.817 mg
249416	"	"	14,400L	4/24/13 / 12:35	PAM-2	12.684 mg
249438	"	"	14,400L	" / 12:40	PAM-3	14.763 mg
249448	"	"	14,400L	" / 12:47	PAM-4	13.979 mg
249436	"	"	14,400L	" / 12:50	PAM-5	12.937 mg
249427	"	"	14,400L	" / 13:00	PAM-6	14.355 mg
249415	"	"	14,400L	" / 13:06	PAM-7	12.738 mg

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W. Cumming</i>	4/24/13	<i>Scott W. Cumming</i>	4/24/13
	4/29/13	<i>DK</i>	4/30/13 9:20A

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSA 0500 FROM SAME SAMPLE CASSETTE.

041310844



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041310844

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MD		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gteng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zetac TP53P
						Lot #: 28127

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249418	5.0 u PVC	Cr VL OSHA 215; TOTAL PARTIC	14,832 L	4/25/13 1236	PAM-1	
249435	"	" NIOSH 0500	14,544 L	1252	PAM-2	
249408	"	"	14,184 L	1256	PAM-3	
249437	"	"	14,544 L	1307	PAM-4	
249434	"	"	14,400 L	1313	PAM-5	
249447	"	"	14,904 L	1321	PAM-6	
249446	"	"	14,760 L	1333	PAM-67	
249405	"	"	NA	1236	FIELD BLANK	
249426	"	"	NA	1236	FIELD BLANK MEDIA	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W. Cummy</i>	4/29/13	<i>Scott W. Cummy</i>	4/29/13
<i>Scott W. Cummy</i>	4/29/13		

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

041310844



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041310894

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MD		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtazeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37 mm 3 piece cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: ZEFFON INTERNATIONAL / 1753P
						Lot #: 28127

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249412	5.0 μ PVC	CII/OSHA 215; Total Part NIOSH 0500	14,976 L	4/26/13 12:57	PAM-1	13.997 mg
249401	"	"	14,616 L	4/26/13 13:13	PAM-2	15.784 mg
249445	"	"	14,400 L	4/26/13 13:25	PAM-3	15.667 mg
249406	"	"	14,688 L	4/26/13 13:36	PAM-4	13.089 mg
249403	"	"	14,712 L	4/26/13 13:42	PAM-5	14.611 mg
249442	"	"	14,904 L	4/26/13 13:54	PAM-6	13.203 mg
249425	"	"	15,120 L	4/26/13 14:04	PAM-7	13.739 mg

RECEIVED
EMSL
CINNAMINSON, N.J.
2013 APR 30 A 11:31

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
Shiehan, Chou Stuech	4/26/13	<i>[Signature]</i>	4/26/13
Scott W. Cumming	4/29/13		

Comments:

* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

SWC

041310844



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

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FAX: (856) 858-3502

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City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA				U.S. State where Samples Collected: MD	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtacmg.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm 3 piece cassette	
2 Week <input type="checkbox"/>	1 Week <input checked="" type="checkbox"/>	4 Day <input type="checkbox"/>	3 Day <input type="checkbox"/>	2 Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	Other (Call Lab) <input type="checkbox"/>	Manufacturer/Part #: ZEPON INTERNATIONAL / 19PS3P
							Lot #: 28127

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249410	5.0 µ PVC	Cr IV OSHA 215	14760 L	4/29/13	PAM-1	12.994 mg
249410	5.0 µ PVC	Cr IV OSHA 215; Total Part. NIOSH 0500	14760 L	4/29/13 12:45	PAM-1	12.994 mg
249417	"	"	14616 L	4/29/13 12:58	PAM-2	16.014 mg
249420	"	"	14832 L	4/29/13 13:15	PAM-3	15.084 mg
249432	"	"	14904 L	4/29/13 13:30	PAM-4	13.734 mg
249413	"	"	14904 L	4/29/13 13:39	PAM-5	18,308 mg
249428	"	"	14616 L	4/29/13 13:53	PAM-6	14,046 mg
249424	"	"	15192 L	4/29/13 14:02	PAM-7	13,353 mg

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W. Cummings</i>	4/29/13	<i>Scott W. Cummings</i>	4/29/13
<i>Scott W. Cummings</i>	4/29/13		

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

SUC

041310844



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

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Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
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Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA				U.S. State where Samples Collected: MD	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtazeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37 mm 3 piece cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: ZEFON INTERNATIONAL / 9P53P
						Lot #: 28127

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249421	5.0 µ PVC	Cr IV / OSHA 215; Total Part NIOSH 0500	15120 L	4/28/13 12:33	PAM-1	14.698 mg
249404	"	"	15120 L	4/28/13 12:33	PAM-1	15.412 mg
249409	"	"	14492 L	4/28/13 12:49	PAM-2	14.036 mg
429407	"	"	14400 L	4/28/13 12:57	PAM-3	14.824 mg
249441	"	"	15192 L	4/28/13 13:13	PAM-4	13.013 mg
249429	"	"	14328 L	4/28/13 13:26	PAM-5	15.314 mg
249431	"	"	14688 L	4/28/13 13:42	PAM-6	14.443 mg
249411	"	"	15192 L	4/28/13 13:53	PAM-7	15.769 mg

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W Cumming</i>	4/29/2013	<i>Scott W Cumming</i>	4/29/13
<i>Scott W Cumming</i>	4/29/2013		

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

5/7/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 5/1/2013. The results are tabulated on the attached data pages for the following client designated project:

130467 USA

The reference number for these samples is EMSL Order #011301787. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011301787

CustomerID: GTA51

CustomerPO: 041310844

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/01/13 11:00 AM
 Collected: 4/28/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249419 **Collected:** 4/24/2013 **Lab ID:** 0001
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/3/2013	MM	5/3/2013	

Client Sample Description 249416 **Collected:** 4/24/2013 **Lab ID:** 0002
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/3/2013	MM	5/3/2013	

Client Sample Description 249438 **Collected:** 4/24/2013 **Lab ID:** 0003
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/3/2013	MM	5/3/2013	

Client Sample Description 249448 **Collected:** 4/24/2013 **Lab ID:** 0004
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00095	0.00069	µg/m ³	5/3/2013	MM	5/3/2013	

Client Sample Description 249436 **Collected:** 4/24/2013 **Lab ID:** 0005
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/3/2013	MM	5/3/2013	

Client Sample Description 249427 **Collected:** 4/24/2013 **Lab ID:** 0006
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/3/2013	MM	5/3/2013	

Client Sample Description 249415 **Collected:** 4/24/2013 **Lab ID:** 0007
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/3/2013	MM	5/3/2013	

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 Collected: 4/28/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249418 **Collected:** 4/25/2013 **Lab ID:** 0008
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00067	µg/m ³	5/3/2013	MM	5/3/2013	

Client Sample Description 249435 **Collected:** 4/25/2013 **Lab ID:** 0009
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00069	µg/m ³	5/3/2013	MM	5/3/2013	

Client Sample Description 249408 **Collected:** 4/25/2013 **Lab ID:** 0010
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00071	µg/m ³	5/3/2013	MM	5/3/2013	

Client Sample Description 249437 **Collected:** 4/25/2013 **Lab ID:** 0011
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0014	0.00069	µg/m ³	5/3/2013	MM	5/3/2013	

Client Sample Description 249434 **Collected:** 4/25/2013 **Lab ID:** 0012
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/3/2013	MM	5/3/2013	

Client Sample Description 249447 **Collected:** 4/25/2013 **Lab ID:** 0013
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00071	0.00067	µg/m ³	5/3/2013	MM	5/4/2013	

Client Sample Description 249446 **Collected:** 4/25/2013 **Lab ID:** 0014
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00073	0.00068	µg/m ³	5/3/2013	MM	5/4/2013	

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Project: 130467 USA

Analytical Results

Client Sample Description 249405
Field Blank
Collected: 4/25/2013 **Lab ID:** 0015

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	5/3/2013	MM	5/4/2013	

Client Sample Description 249426
Media Blank
Collected: 4/25/2013 **Lab ID:** 0016

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	5/3/2013	MM	5/4/2013	

Client Sample Description 249412
PAM-1
Collected: 4/26/2013 **Lab ID:** 0017

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00067	µg/m ³	5/3/2013	MM	5/4/2013	

Client Sample Description 249401
PAM-2
Collected: 4/26/2013 **Lab ID:** 0018

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00068	µg/m ³	5/3/2013	MM	5/4/2013	

Client Sample Description 249445
PAM-3
Collected: 4/26/2013 **Lab ID:** 0019

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/3/2013	MM	5/4/2013	

Client Sample Description 249406
PAM-4
Collected: 4/26/2013 **Lab ID:** 0020

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0011	0.00068	µg/m ³	5/3/2013	MM	5/4/2013	

Client Sample Description 249403
PAM-5
Collected: 4/26/2013 **Lab ID:** 0021

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0017	0.00069	µg/m ³	5/3/2013	MM	5/6/2013	MM

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 Collected: 4/28/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249442 **Collected:** 4/26/2013 **Lab ID:** 0022
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0018	0.00067	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249425 **Collected:** 4/26/2013 **Lab ID:** 0023
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0033	0.00066	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249410 **Collected:** 4/27/2013 **Lab ID:** 0024
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0037	0.00068	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249417 **Collected:** 4/27/2013 **Lab ID:** 0025
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0028	0.00068	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249420 **Collected:** 4/27/2013 **Lab ID:** 0026
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0038	0.00067	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249432 **Collected:** 4/27/2013 **Lab ID:** 0027
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0043	0.00067	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249413 **Collected:** 4/27/2013 **Lab ID:** 0028
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0038	0.00067	µg/m ³	5/3/2013	MM	5/6/2013	MM

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 Received: 05/01/13 11:00 AM
 Collected: 4/28/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249428 PAM-6 **Collected:** 4/27/2013 **Lab ID:** 0029

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0042	0.00068	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249424 PAM-7 **Collected:** 4/27/2013 **Lab ID:** 0030

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0060	0.00066	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249421 PAM-1 **Collected:** 4/28/2013 **Lab ID:** 0031

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00066	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249404 PAM-1 **Collected:** 4/28/2013 **Lab ID:** 0032

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0024	0.00066	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249409 PAM-2 **Collected:** 4/28/2013 **Lab ID:** 0033

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0038	0.00069	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249407 PAM-3 **Collected:** 4/28/2013 **Lab ID:** 0034

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0051	0.00069	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249441 PAM-4 **Collected:** 4/28/2013 **Lab ID:** 0035

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00066	µg/m ³	5/3/2013	MM	5/6/2013	MM

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EMSL Order: 011301787

CustomerID: GTA51

CustomerPO: 041310844

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
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Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/01/13 11:00 AM
 Collected: 4/28/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249429 **Collected:** 4/28/2013 **Lab ID:** 0036
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0011	0.00070	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249431 **Collected:** 4/28/2013 **Lab ID:** 0037
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0055	0.00068	µg/m ³	5/3/2013	MM	5/6/2013	MM

Client Sample Description 249411 **Collected:** 4/28/2013 **Lab ID:** 0038
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0036	0.00066	µg/m ³	5/3/2013	MM	5/6/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



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Industrial Hygiene Chain of Custody

011301787

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

EMSL Order Number (Lab Use Only):
[]

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtacmg.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: ZEFON INTERNATIONAL
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: ZEFON INTERNATIONAL / 7A53P
						Lot #: 28127

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249419	5.0µ PVC	Cr-VI/OSHA 215; TOTAL PART. NIOSH 0500	14,400L	4/24/13/1230	BALTIMORE, MD	15.817 mg
249416	"	" " "	14,400L	4/24/13/1235	PAM-2	12.684 mg
249438	"	" " "	14,400L	" / 12:40	PAM-3	14.763 mg
249448	"	" " "	14,400L	" / 12:47	PAM-4	13.979 mg
249436	"	" " "	14,400L	" / 12:50	PAM-5	12.937 mg
249427	"	" " "	14,400L	" / 13:00	PAM-6	14.355 mg
249415	"	" " "	14,400L	" / 13:06	PAM-7	12.738 mg

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W. Cummings</i>	4/24/13	<i>Scott W. Cummings</i>	4/24/13
	4/29/13	<i>PK</i>	4/30/13 9:20A
			5/1/13 1100

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

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Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.		Attention To: SAM STEVENSON	
Street: 14280 PARK CENTER DRIVE		Street: 14280 PARK CENTER DRIVE	
City: LAUREL	State/Province: MD	City: LAUREL	State/Province: MD
Zip/Postal Code: 20707		Zip/Postal Code: 20707	
Phone: (410) 792-9446 Fax: (410) 792-7395		Phone: (410) 792-9446 Fax: (410) 792-7395	
Project Name: 130467 USA		U.S. State where Samples Collected: MD	
Number of Samples in Shipment:	Date of Shipment:	Purchase Order:	Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail		Email Results To: sstevenson@gtazeng.com	

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zetac TP53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249418	5.0 u PVC	Cr VI, OSHA 215; TOTAL PARTIC	14,832 L	4/25/13 1236	PAM-1	APR 30 AM 11:31 CINNAMINSON, NJ
249435	"	"	14,544 L	1252	PAM-2	
249408	"	"	14,184 L	1256	PAM-3	
249437	"	"	14,544 L	1307	PAM-4	
249434	"	"	14,400 L	1313	PAM-5	
249447	"	"	14,904 L	1321	PAM-6	
249446	"	"	14,760 L	1333	PAM-67	
249405	"	"	NA	1236	FIELD BLANK	
249426	"	"	NA	1236	FIELD BLANK MEDIA	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <i>[Signature]</i>	Date: 4/29/13	Received By: <i>[Signature]</i>	Date: 4/29/13
<i>[Signature]</i>	4/29/13	<i>[Signature]</i>	5/1/13 1100

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**



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Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
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Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MD		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtacmg.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: 37 mm 3 piece cassette
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: ZEFRON INTERNATIONAL 17E53P
							Lot #: 28127

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249412	5.0 M PVC	OSHA 215; Total Part NIOSH 0500	14,976 L	4/26/13 12:57	PAM-1	13.997 mg
249401	"	"	14,616 L	4/26/13 13:13	PAM-2	15.784 mg
249445	"	"	14,400 L	4/26/13 13:25	PAM-3	15.667 mg
249406	"	"	14,688 L	4/26/13 13:36	PAM-4	13.089 mg
249403	"	"	14,712 L	4/26/13 13:42	PAM-5	14.611 mg
249442	"	"	14,904 L	4/26/13 13:54	PAM-6	13.203 mg
249425	"	"	15,120 L	4/26/13 14:04	PAM-7	13.739 mg

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Released By	Date	Received By	Date
<i>Shiehan, Chou</i>	4/26/13	<i>[Signature]</i>	4/26/13
<i>Scott Cummins</i>	4/29/13		5/1/13 1100

Comments:

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Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MD		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtazem.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm 3 piece cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: ZEFON INTERNATIONAL / 91PS3P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249410	5.0 µ PVC	Cr IV OSHA 215; Total Part. NIOSH 0500	14760 L	4/29/13 4/27/13 12:45	PAM-1	12.994 mg
249417	"	"	14616 L	4/27/13 12:58	PAM-2	16.014 mg
249420	"	"	14832 L	4/27/13 13:15	PAM-3	15.084 mg
249432	"	"	14904 L	4/27/13 13:30	PAM-4	13.784 mg
249413	"	"	14904 L	4/27/13 13:39	PAM-5	18,308 mg
249428	"	"	14616 L	4/27/13 13:53	PAM-6	14.046 mg
249424	"	"	15192 L	4/27/13 14:02	PAM-7	13.353 mg

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Sam Shon</i>	4/29/13	<i>Scott L. Cummins</i>	4/29/13
<i>Scott L. Cummins</i>	4/29/13		5/1/13 1100

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

SUC

011301787



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

**Industrial Hygiene
Chain of Custody**
EMSL Order Number (Lab Use Only):

011301787

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA				U.S. State where Samples Collected: MD	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtazeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm 3 piece cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: ZETON INTERNATIONAL / 9P53P
						Lot #: 28127

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
35 249421	50 µ PVC	Cr VI / OSHA 215; Total Part. NIOSH 0500	15120 L	4/28/13 12:33	PAM-1	14.698 mg
36 249404	"	"	15120 L	4/28/13 12:33	PAM-1	15.412 mg
37 249409	"	"	14492 L	4/28/13 12:47	PAM-2	14.036 mg
38 429407	"	"	14400 L	4/28/13 12:57	PAM-3	14.824 mg
39 249441	"	"	15192 L	4/28/13 13:13	PAM-4	13.013 mg
30 249429	"	"	14328 L	4/28/13 13:26	PAM-5	15.314 mg
37 249431	"	"	14688 L	4/28/13 13:42	PAM-6	14.443 mg
38 249411	"	"	15192 L	4/28/13 13:53	PAM-7	15.769 mg

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W. Cunningham</i>	4/29/2013	<i>Scott W. Cunningham</i>	4/29/13
	4/29/2013		5/1/13 1100

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041311522

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/07/13 10:10 AM
 Analysis Date: 5/8/2013
 Collected: 5/5/2013

Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249439	PAM- 1	15729	0.121	0.008	0.003	
<i>041311522-0001</i>						
249433	PAM- 2	14473	<0.05	<0.003	0.003	
<i>041311522-0002</i>						
249443	PAM- 3	14406	0.153	0.011	0.003	
<i>041311522-0003</i>						
249449	PAM- 4	14942	0.212	0.014	0.003	
<i>041311522-0004</i>						
249422	PAM- 5	14582	0.410	0.028	0.003	
<i>041311522-0005</i>						
249430	PAM- 6	14403	0.257	0.018	0.003	
<i>041311522-0006</i>						
249400	PAM- 7	14909	2.014	0.135	0.003	
<i>041311522-0007</i>						
249440	PAM-1	15007	0.106	0.007	0.003	
<i>041311522-0009</i>						
249423	PAM-2	14618	0.102	0.007	0.003	
<i>041311522-0010</i>						
249402	PAM-3	14389	0.152	0.011	0.003	
<i>041311522-0011</i>						
249322	PAM-4	14883	1.453	0.098	0.003	
<i>041311522-0012</i>						

Analyst(s)

*Shane Feret (50)*Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Report Amended: 05/17/2013 11:02:08 Replaces the Initial Report 05/10/2013 08:39:54. Reason Code: Data Entry-Change to Sample Volume

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

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14280 Park Center Drive
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 Analysis Date: 5/8/2013
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Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249335	PAM-5	14781	0.174	0.012	0.003	
<i>041311522-0013</i>						
249337	PAM-6	14267	0.079	0.006	0.004	
<i>041311522-0014</i>						
249414	PAM-7	14822	0.081	0.005	0.003	
<i>041311522-0015</i>						
249329	PAM-1	15309	0.082	0.005	0.003	
<i>041311522-0016</i>						
249313	PAM-2	15004	0.169	0.011	0.003	
<i>041311522-0017</i>						
249327	PAM-3	14308	0.148	0.010	0.003	
<i>041311522-0018</i>						
249344	PAM-4	14460	0.158	0.011	0.003	
<i>041311522-0019</i>						
249320	PAM-5	14791	0.206	0.014	0.003	
<i>041311522-0020</i>						
249326	PAM-6	14187	0.197	0.014	0.004	
<i>041311522-0021</i>						
249332	PAM-7	14841	0.178	0.012	0.003	
<i>041311522-0022</i>						
249304	PAM-1	14910	0.120	0.008	0.003	
<i>041311522-0023</i>						

Analyst(s)

*Shane Feret (50)*Stephen Siegel, CIH, Laboratory Manager
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 Received: 05/07/13 10:10 AM
 Analysis Date: 5/8/2013
 Collected: 5/5/2013

Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249328 041311522-0024	PAM-2	14484	0.142	0.010	0.003	
249302 041311522-0025	PAM-3	14413	0.170	0.012	0.003	
249323 041311522-0026	PAM-4	14768	0.103	0.007	0.003	
249338 041311522-0027	PAM-5	14768	0.544	0.037	0.003	
249318 041311522-0028	PAM-6	14413	0.174	0.012	0.003	
249339 041311522-0029	PAM-7	14342	0.109	0.008	0.003	
249317 041311522-0030	PAM-1	15883	0.364	0.023	0.003	
249342 041311522-0031	PAM-2	15620	0.397	0.025	0.003	
249343 041311522-0032	PAM-3	15691	0.384	0.024	0.003	
249340 041311522-0033	PAM-4	15691	0.378	0.024	0.003	
249346 041311522-0034	PAM-5	15620	0.364	0.023	0.003	

Analyst(s)

Shane Feret (50)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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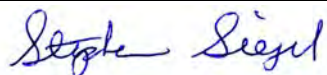
Phone: (410) 792-9446
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 Received: 05/07/13 10:10 AM
 Analysis Date: 5/8/2013
 Collected: 5/5/2013

Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249305 041311522-0035	PAM-6	15620	0.124	0.008	0.003	
249345 041311522-0036	PAM-7	15762	<0.05	<0.003	0.003	
249336 041311522-0037	PAM-1	15351	0.250	0.016	0.003	
249319 041311522-0038	PAM-2	14904	0.223	0.015	0.003	
249333 041311522-0039	PAM-3	15258	0.223	0.015	0.003	
249348 041311522-0040	PAM-4	15347	0.204	0.013	0.003	
249300 041311522-0041	PAM-5	15315	0.217	0.014	0.003	
249314 041311522-0042	PAM-6	15390	0.240	0.016	0.003	
249321 041311522-0043	PAM-7	15397	0.178	0.012	0.003	
249303 041311522-0044	PAM-2	15155	0.128	0.008	0.003	
249306 041311522-0045	PAM-7	15274	0.136	0.009	0.003	

Analyst(s)
 Shane Feret (50)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Report Amended: 05/17/2013 11:02:08 Replaces the Initial Report 05/10/2013 08:39:54. Reason Code: Data Entry-Change to Sample Volume

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<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041311522
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Attn: **Sam Stevenson**
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Phone: (410) 792-9446
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 Received: 05/07/13 10:10 AM
 Analysis Date: 5/8/2013
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Project: 130467 USA

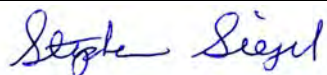
**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
 8/15/94**

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249309 041311522-0046	PAM-1	15206	0.246	0.016	0.003	
249311 041311522-0047	PAM-5	15338	0.168	0.011	0.003	
249316 041311522-0048	PAM-3	15134	0.231	0.015	0.003	
249334 041311522-0049	PAM-6	15052	0.193	0.013	0.003	
249347 041311522-0050	PAM-4	15152	0.150	0.010	0.003	
249444 041311522-0008	MEDIA BLANK	0	<0.05	N/A	N/A	Field Blank

Notes: Discernable field blank submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (50)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Report Amended: 05/17/2013 11:02:08 Replaces the Inital Report 05/10/2013 08:39:54. Reason Code: Data Entry-Change to Sample Volume



EMSL ANALYTICAL, INC.
LABORATORY-PRODUCTS-TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041311522

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA				U.S. State where Samples Collected: MD	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtazeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon TP53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (1-100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249439	50 µ PVC	CYTL OSHA 215; ^{TOTAL PARTIC. NIOSH 0500}	19,729	4/29/13 1234	DAM-1	MAY - 7 A 10:54 RECEIVED ENGLISHTON, N.J.
249435	↓	↓	14,473	↓ 1245	DAM-2	
249443	↓	↓	14,406	↓ 1254	DAM-3	
249449	↓	↓	14,942	↓ 1304	DAM-4	
249422	↓	↓	14,582	↓ 1325	DAM-5	
249430	↓	↓	14,403	↓ 1338	DAM-6	
249400	↓	↓	14,909	↓ 1350	DAM-7	
249444	↓	↓	NA	↓ 1350	MEDIA BLANK	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Terrence PerRhs</i> Terrence PerRhs	4/29/13	<i>Scott W. Cumming</i>	4/29/13
<i>Scott W. Cumming</i>	4/30/13	<i>Scott W. Cumming</i>	5/6/13
<i>Scott W. Cumming</i>	5/6/13	<i>AK</i>	5/7/13 10:10A

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

50

041311522



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041311522

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
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Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected:		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtazeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: 37mm cassette
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: Zefon TP53P
							Lot #: 28127 (1-100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249440	5.0 µ PVC	Cr VI OSHA 215; TMMZ PAPC NIOSH 0500	15,007	4/30/13 12:28	PAM-1	CINNAMINSON, N.J. MAY - 7 10:54
249423			14,618	2:36	PAM-2	
249402			14,389	2:50	PAM-3	
249322			14,883	3:07	PAM-4	
249335			14,781	3:20	PAM-5	
249337			14,267	3:24	PAM-6	
249414			14,822	3:40	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	4/30/13	<i>[Signature]</i>	4/30/13
<i>[Signature]</i>	4/30/13	<i>[Signature]</i>	5/6/13
<i>[Signature]</i>	5/6/13	<i>[Signature]</i>	

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**



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LABORATORY • PRODUCTS • TRAINING

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041311522

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Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaceng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: <u>ZEFDM 7P53P</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: <u>28127 (1 - 100)</u>

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249329	5.0µ PVC	Cr VI OSHA 215/	15,309	5/1/13 13:00	PAM-1	MARYLAND CINNAMINSON, N.J. MAY - 1 A 10:54
249313		TOTAL PARTICULATES	15,004	5/1/13 13:07	PAM-2	
249327		NIOSH 0500	14,308	5/1/13 13:10	PAM-3	
249344			14,460	5/1/13 13:13	PAM-4	
249320			14,791	5/1/13 13:16	PAM-5	
249326			14,187	5/1/13 13:22	PAM-6	
249332			14,841	5/1/13 13:27	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Scott W Cummins</u>	<u>5/1/13</u>	<u>Scott W Cummins</u>	<u>5/1/13</u>
	<u>5/6/13</u>		

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041311522

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041311522

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaceng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: ZEFON 7P53P						Lot #: 2B127 (1 - 100)

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249304	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	14,910	5/2/13 16:40	PAM 1	2013 MAY - 7 A.M. - 5:54 CINNAMINSON, N.J.
249328			14,484	5/2/13 16:48	PAM 2	
249302			14,413	5/2/13 17:02	PAM 3	
249323			14,768	5/2/13 17:09	PAM 4	
249338			14,413768	5/2/13 17:15	PAM 5	
249318			14,342413	5/2/13 17:21	PAM 6	
249339			14,342	5/2/13 17:25	PAM 7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	5/3/13	<i>[Signature]</i>	5/6/13
<i>[Signature]</i>	5/6/13	<i>[Signature]</i>	5/6/13
<i>[Signature]</i>	5/6/13		

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



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LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

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CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041311522

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaceng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: <u>ZEPON 7P53P</u>						Lot #: <u>28127 (1 - 100)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249317	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15,893	5/3/13 16:20	PAM 1	CINNAMINSON, N.J. MAY - 7 A.D. 54
249342			15,620	16:28	2	
249343			15,691	16:42	3	
249340			15,691	16:49	4	
249346			15,620	16:55	5	
249305			15,620	17:01	6	
249345			15,762	17:05	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Tanya Dickie</u>	<u>5/3/13</u>	<u>Scott W. Cummins</u>	<u>5/6/13</u>
<u>Scott W. Cummins</u>	<u>5/6/13</u>	<u>Scott W. Cummins</u>	<u>5/6/13</u>

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

04131522

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

04131522

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>				U.S. State where Samples Collected: <u>MARYLAND</u>	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtacng.com</u>		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.							Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: <u>ZEFON 7P53P</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: <u>28127 (1 - 100)</u>

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249336	5.0µ PVC	CrVI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	15,351	4/5/13 16:10	PAM 1	MAY 7 10:54 AM CINNAMINSON, N.J.
249319			14,904	5/5/13 16:21	PAM 2	
249333			15,258	5/5/13 16:30	PAM 3	
249348			15,347	5/5/13 16:41	PAM 4	
249300			15,315	5/5/13 16:50	PAM 5	
249314			15,390	5/5/13 17:00	PAM 6	
249321			15,397	5/5/13 17:09	PAM 7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Scott W Cumming</u>	<u>5/6/13</u>	<u>Scott W Cumming</u>	<u>5/6/13</u>

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041311522

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041311522

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaceng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: ZEFON 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (1 - 100)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249303	5.0µ PVC	Cr VI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	15,155	5/4/13 16:30	PAM 2	JUL 11 2013 CINNAMINSON, NJ 10:54
249306			15,274	5/4/13 17:10	PAM 7	
249309			15,206	5/4/13 16:20	PAM 1	
249311			15,338	5/4/13 17:02	PAM 5	
249316			15,134	5/4/13 16:44	PAM 3	
249334			15,052	5/4/13 17:05	PAM 6	
249347			15,152	5/4/13 16:50	PAM 4	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W. Cumming</i>	5/6/2013	<i>Scott W. Cumming</i>	5/6/13

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

5/14/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 5/8/2013. The results are tabulated on the attached data pages for the following client designated project:

130467 USA

The reference number for these samples is EMSL Order #011301915. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011301915

CustomerID: GTA51

CustomerPO: 041311522

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/08/13 9:00 AM
 Collected: 5/5/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249439 PAM-1 **Collected:** 4/29/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00083	0.00051	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249433 PAM-2 **Collected:** 4/29/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0011	0.00069	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249443 PAM-3 **Collected:** 4/29/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00069	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249449 PAM-4 **Collected:** 4/29/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0014	0.00067	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249422 PAM-5 **Collected:** 4/29/2013 **Lab ID:** 0005

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0037	0.00069	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249430 PAM-6 **Collected:** 4/29/2013 **Lab ID:** 0006

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0017	0.00069	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249400 PAM-7 **Collected:** 4/29/2013 **Lab ID:** 0007

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00067	µg/m ³	5/10/2013	MM	5/13/2013	MM

**EMSL Analytical, Inc.**

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<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011301915
 CustomerID: GTA51
 CustomerPO: 041311522
 ProjectID:

Attn: **Sam Stevenson**
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14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/08/13 9:00 AM
 Collected: 5/5/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249444 **Collected:** 4/29/2013 **Lab ID:** 0008
 Media Blank

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.015	0.010	µg/filter	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249440 **Collected:** 4/30/2013 **Lab ID:** 0009
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00072	0.00067	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249423 **Collected:** 4/30/2013 **Lab ID:** 0010
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0010	0.00068	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249402 **Collected:** 4/30/2013 **Lab ID:** 0011
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0037	0.00070	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249322 **Collected:** 4/30/2013 **Lab ID:** 0012
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00067	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249335 **Collected:** 4/30/2013 **Lab ID:** 0013
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0025	0.00068	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249337 **Collected:** 4/30/2013 **Lab ID:** 0014
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0011	0.00070	µg/m ³	5/10/2013	MM	5/13/2013	MM

**EMSL Analytical, Inc.**

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<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011301915

CustomerID: GTA51

CustomerPO: 041311522

ProjectID:

Attn: **Sam Stevenson**
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14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/08/13 9:00 AM
 Collected: 5/5/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249414 **Collected:** 4/30/2013 **Lab ID:** 0015
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249329 **Collected:** 5/1/2013 **Lab ID:** 0016
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00072	0.00065	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249313 **Collected:** 5/1/2013 **Lab ID:** 0017
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00067	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249327 **Collected:** 5/1/2013 **Lab ID:** 0018
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0017	0.00070	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249344 **Collected:** 5/1/2013 **Lab ID:** 0019
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0017	0.00069	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249320 **Collected:** 5/1/2013 **Lab ID:** 0020
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0011	0.00068	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249326 **Collected:** 5/1/2013 **Lab ID:** 0021
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0015	0.00071	µg/m ³	5/10/2013	MM	5/14/2013	MM

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EMSL Order: 011301915

CustomerID: GTA51

CustomerPO: 041311522

ProjectID:

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Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/08/13 9:00 AM
 Collected: 5/5/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249332 **Collected:** 5/1/2013 **Lab ID:** 0022
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00067	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249304 **Collected:** 5/2/2013 **Lab ID:** 0023
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00078	0.00067	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249328 **Collected:** 5/2/2013 **Lab ID:** 0024
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249302 **Collected:** 5/2/2013 **Lab ID:** 0025
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249323 **Collected:** 5/2/2013 **Lab ID:** 0026
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0010	0.00068	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249338 **Collected:** 5/2/2013 **Lab ID:** 0027
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00088	0.00068	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249318 **Collected:** 5/2/2013 **Lab ID:** 0028
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00069	µg/m ³	5/10/2013	MM	5/14/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011301915

CustomerID: GTA51

CustomerPO: 041311522

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/08/13 9:00 AM
 Collected: 5/5/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249339 **Collected:** 5/2/2013 **Lab ID:** 0029
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0011	0.00070	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249317 **Collected:** 5/3/2013 **Lab ID:** 0030
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00063	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249342 **Collected:** 5/3/2013 **Lab ID:** 0031
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0014	0.00064	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249343 **Collected:** 5/3/2013 **Lab ID:** 0032
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00064	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249340 **Collected:** 5/3/2013 **Lab ID:** 0033
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00064	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249346 **Collected:** 5/3/2013 **Lab ID:** 0034
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0015	0.00064	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249305 **Collected:** 5/3/2013 **Lab ID:** 0035
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00064	µg/m ³	5/10/2013	MM	5/14/2013	MM



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>

jsmith@emsl.com

EMSL Order: 011301915

CustomerID: GTA51

CustomerPO: 041311522

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
Fax: (410) 792-7395
Received: 05/08/13 9:00 AM
Collected: 5/5/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249345 PAM-7 **Collected:** 5/3/2013 **Lab ID:** 0036

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00063	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249336 PAM-1 **Collected:** 5/5/2013 **Lab ID:** 0037

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00065	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249319 PAM-2 **Collected:** 5/5/2013 **Lab ID:** 0038

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00067	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249333 PAM-3 **Collected:** 5/5/2013 **Lab ID:** 0039

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00066	µg/m ³	5/10/2013	MM	5/14/2013	MM

Client Sample Description 249348 PAM-4 **Collected:** 5/5/2013 **Lab ID:** 0040

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00074	0.00065	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249300 PAM-5 **Collected:** 5/5/2013 **Lab ID:** 0041

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00065	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249314 PAM-6 **Collected:** 5/5/2013 **Lab ID:** 0042

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00065	µg/m ³	5/10/2013	MM	5/13/2013	MM

**EMSL Analytical, Inc.**

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Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011301915

CustomerID: GTA51

CustomerPO: 041311522

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/08/13 9:00 AM
 Collected: 5/5/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249321 **Collected:** 5/5/2013 **Lab ID:** 0043
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00065	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249303 **Collected:** 5/4/2013 **Lab ID:** 0044
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00066	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249306 **Collected:** 5/4/2013 **Lab ID:** 0045
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00066	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249309 **Collected:** 5/4/2013 **Lab ID:** 0046
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00066	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249311 **Collected:** 5/4/2013 **Lab ID:** 0047
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00065	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249316 **Collected:** 5/4/2013 **Lab ID:** 0048
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00066	µg/m ³	5/10/2013	MM	5/13/2013	MM

Client Sample Description 249334 **Collected:** 5/4/2013 **Lab ID:** 0049
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00066	µg/m ³	5/10/2013	MM	5/13/2013	MM

**EMSL Analytical, Inc.**

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 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011301915
 CustomerID: GTA51
 CustomerPO: 041311522
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/08/13 9:00 AM
 Collected: 5/5/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249347 **Collected:** 5/4/2013 **Lab ID:** 0050
 PAM-4

<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0014	0.00066	µg/m ³	5/10/2013	MM	5/14/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

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

01301915

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON
 Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.
 Street: 14280 PARK CENTER DRIVE
 City: LAUREL State/Province: MD Zip/Postal Code: 20707
 Phone: (410) 792-9446 Fax: (410) 792-7395
 Project Name: 130467 USA
 Number of Samples in Shipment: _____ Date of Shipment: _____
 Please Provide results: Fax Email Mail
 U.S. State where Samples Collected: MD
 Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.
 Attention To: SAM STEVENSON
 Street: 14280 PARK CENTER DRIVE
 City: LAUREL State/Province: MD Zip/Postal Code: 20707
 Phone: (410) 792-9446 Fax: (410) 792-7395
 Purchase Order: _____
 Email Results To: sstevenson@gtazeng.com
 Sampled By (Signature): _____

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Media Type: 37 mm cassette
 Manufacturer/Part #: Zefon TP53P
 Lot #: 28127 (1-100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
① 249439	50 µ PVC	CIVIL OSHA 215; TOXIC METALS; NIOSH 0500	19,729	4/29/13 12:34	DAM-1	CINNAMINSON, NJ MAY - 7 10:54
② 249433				12:45	DAM-2	
③ 249443				12:54	DAM-3	
④ 249449				13:01	DAM-4	
⑤ 249422				13:25	DAM-5	
⑥ 249430				13:38	DAM-6	
⑦ 249400				13:50	DAM-7	
⑧ 249444				NA	13:50	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Terrence PerEhr</u>	<u>4/29/13</u>	<u>Scott W. Cumming</u>	<u>4/29/13</u>
<u>Scott W. Cumming</u>	<u>5/6/13</u>	<u>AK</u>	<u>5/6/13</u>
			<u>5/7/13 10:10A</u>

Comments:
 * CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.
 Received: Travis Allett 5/8/13 9:00AM

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

01301915

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON
 Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.
 Street: 14280 PARK CENTER DRIVE
 City: LAUREL State/Province: MD Zip/Postal Code: 20707
 Phone: (410) 792-9446 Fax: (410) 792-7395
 Project Name: 130467 USA
 Number of Samples in Shipment: _____ Date of Shipment: _____
 Please Provide results: Fax Email Mail
 Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.
 Attention To: SAM STEVENSON
 Street: 14280 PARK CENTER DRIVE
 City: LAUREL State/Province: MD Zip/Postal Code: 20707
 Phone: (410) 792-9446 Fax: (410) 792-7395
 U.S. State where Samples Collected: _____
 Purchased By (Signature): _____
 Email Results To: sstevenson@gtazeng.com

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.
 2 Week 1 Week 4 Day 3 Day 2 Day 1 Day Other (Call Lab)
 Media Type: 37mm cassette
 Manufacturer/Part #: Zefon TP53P
 Lot #: 28127 (1-100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249440	5.0 µ PVC	Cr VI OSHA 215; TMMZ PAPAC NIOSH 0500	15.007	4/30/13 1228	PAM-1	CINNAMINSON N.J. MAY - 7 A 10:54
249423			14.618	236	PAM-2	
249402			14.389	250	PAM-3	
249335			14.883	1307	PAM-4	
249337			14.781	1320	PAM-5	
249414			14.267	1324	PAM-6	
			14.822	1340	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	4/30/13	<i>[Signature]</i>	4/30/13
<i>[Signature]</i>	4/30/13	<i>[Signature]</i>	5/6/13
<i>[Signature]</i>	5/6/13	Received: <i>[Signature]</i>	5/8/13 9:00 AM

Comments:
 * CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

01301915

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON		Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.	
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.		Attention To: SAM STEVENSON	
Street: 14280 PARK CENTER DRIVE		Street: 14280 PARK CENTER DRIVE	
City: LAUREL	State/Province: MD	City: LAUREL	State/Province: MD
Zip/Postal Code: 20707		Zip/Postal Code: 20707	
Phone: (410) 792-9446 Fax: (410) 792-7395		Phone: (410) 792-9446 Fax: (410) 792-7395	
Project Name: 130467 USA		U.S. State where Samples Collected: MARYLAND	
Number of Samples in Shipment:	Date of Shipment:	Purchase Order:	Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail		Email Results To: sstevenson@gtacng.com	

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week <input type="checkbox"/>	1 Week <input checked="" type="checkbox"/>	4 Day <input type="checkbox"/>	3 Day <input type="checkbox"/>	2 Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	Other (Call Lab) <input type="checkbox"/>	Media Type: 37mm, 3 PIECE CASSETTE
							Manufacturer/Part #: ZEPDM 7P53P
							Lot #: 2B127 (1 - 100)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249329	5.0µ PVC	Cr VI OSHA 215/	15,309	5/1/13 13:00	PAM-1	CINNAMINSON, N.J. MAY - 7 AM - 5 PM
249313		TOTAL PARTICULATES	15,004	5/1/13 13:07	PAM-2	
249327		NIOSH 0500	14,308	5/1/13 13:10	PAM-3	
249344			14,460	5/1/13 13:13	PAM-4	
249320			14,791	5/1/13 13:16	PAM-5	
249326			14,187	5/1/13 13:22	PAM-6	
249332			14,841	5/1/13 13:27	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: Scott W. Cumming	Date: 5/1/13	Received By: Scott W. Cumming	Date: 5/1/13
	Date: 5/6/13	Received: From Albert	Date: 5/8/13 9:00AM

Comments: *** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**



EMSL ANALYTICAL, INC.
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Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011301915

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaeng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: <u>37mm, 3 PIECE CASSETTE</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: <u>ZEPDA 7P53P</u>
							Lot #: <u>2B127 (1 - 100)</u>

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249304	5.0µ PVC	Cr.VI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	14.910	5/2/13 16:40	PAM 1	RECEIVED EMSL CINNAMINSON, N.J. MAY - 7 AM 10:54
249328			14.484	5/2/13 16:48	PAM 2	
249302			14.413	5/2/13 17:02	PAM 3	
249323			14.768	5/2/13 17:09	PAM 4	
249338			14.43768	5/2/13 17:15	PAM 5	
249318			14.342413	5/2/13 17:21	PAM 6	
249339			14.342	5/2/13 17:25	PAM 7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>[Signature]</u>	5/3/13	<u>[Signature]</u>	5/6/13
<u>[Signature]</u>	5/6/13	<u>[Signature]</u>	5/6/13
<u>[Signature]</u>	5/6/13	Received: <u>[Signature]</u>	5/8/13 9:00AM

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

011301915



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EMSL Order Number (Lab Use Only):

01301915

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtacng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: 37mm, 3 PIECE CASSETTE
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: ZEDON 7P53P
							Lot #: 28127 (1 - 100)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249317	5.0µ PVC	Cr.VI OSHA 215/	15,993	5/3/13 16:20	PAM 1	2013 MAY - 7 CINNAMINSON, N.J. A.D.: 54
249342		TOTAL PARTICULATES	15,620	16:28	2	
249343		NIOSH 0500	15,691	16:42	3	
249346			15,691	16:49	4	
249305			15,620	16:55	5	
249345			15,620	17:01	6	
			15,762	17:05	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	5/3/13	<i>[Signature]</i>	5/6/13
<i>[Signature]</i>	5/6/13	<i>[Signature]</i>	5/6/13
<i>[Signature]</i>	5/6/13	Received: <i>[Signature]</i>	5/8/13 9:00AM

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

01301915



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Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011301915

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaceng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week <input type="checkbox"/>	1 Week <input checked="" type="checkbox"/>	4 Day <input type="checkbox"/>	3 Day <input type="checkbox"/>	2 Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	Other (Call Lab) <input type="checkbox"/>	Media Type: <u>37mm, 3 PIECE CASSETTE</u>
							Manufacturer/Part #: <u>ZEDON 7P53P</u>
							Lot #: <u>28127 (1 - 100)</u>

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249336	5.0µ PVC	Cr VI OSHA 215/	15.351	4/5/13 16:10	PAM 1	MAY - 7 A 10:5U CINNAMINSON, N.J.
249319		TOTAL PARTICULATES	14.904	5/5/13 16:21	PAM 2	
249333		NIOSH 0500	15.258	5/5/13 16:30	PAM 3	
249348			15.347	5/5/13 16:41	PAM 4	
249300			15.315	5/5/13 16:50	PAM 5	
249314			15.390	5/5/13 17:00	PAM 6	
249321			15.397	5/5/13 17:09	PAM 7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <u>Scott W. Cummins</u>	Date: <u>5/6/2013</u>	Received By: <u>Scott W. Cummins</u>	Date: <u>5/6/13</u>
		Received: <u>Travis Allent</u>	<u>5/8/13 9:00AM</u>

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011301915

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaeng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: <u>37mm, 3 PIECE CASSETTE</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: <u>ZEPON 7P53P</u>
							Lot #: <u>28127 (1 - 100)</u>

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249303	5.0µ PVC	CrVI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	15,155	5/4/13 16:30	PAM 2	RECEIVED EMSL ANALYTICAL, INC. CINNAMINSON, NJ MAY - 7 A.D. 54
249306			15,274	5/4/13 17:10	PAM 7	
249309			15,206	5/4/13 16:20	PAM 1	
249311			15,338	5/4/13 17:02	PAM 5	
249316			15,134	5/4/13 16:44	PAM 3	
249334			15,052	5/4/13 17:05	PAM 6	
249347			15,152	5/4/13 16:50	PAM 4	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <u>[Signature]</u>	Date: <u>5/6/2013</u>	Received By: <u>[Signature]</u>	Date: <u>5/6/13</u>
	<u>5/6/13</u>	Received: <u>Dravri Allert</u>	<u>5/8/13 9:00AM</u>

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

Interdepartmental Analysis COC

For EMSL Internal Use Only

Client Name: Geo-Technology Associates Date: 5/7/13

Primary Lab Order #: 041311522

Secondary Lab Client Code: + _____ Inter Dept Analysis
(+04INTDEP or +32INTDEP)

Primary Lab	
Samples Received By:	Print Name of Person Relinquishing Samples
<input type="checkbox"/> Branch Lab**	
<input checked="" type="checkbox"/> Asbestos Lab	Shane J. Feret
<input type="checkbox"/> Chemistry Lab	
<input type="checkbox"/> Lead Lab	
<input type="checkbox"/> Microbiology Lab	
<input type="checkbox"/> Materials Science Lab	
<input type="checkbox"/> Industrial Hygiene Lab	
Secondary Lab	
Samples Relinquished To:	Print Name of Person Receiving Samples
<input type="checkbox"/> Branch Lab**	
<input type="checkbox"/> Asbestos Lab	
<input checked="" type="checkbox"/> Chemistry Lab	Travis Albert
<input type="checkbox"/> Lead Lab	
<input type="checkbox"/> Microbiology Lab	
<input type="checkbox"/> Materials Science Lab	
<input type="checkbox"/> Industrial Hygiene Lab	
<input type="checkbox"/> Pink Interdepartmental Sheet Attached <input type="checkbox"/> Copy of Client COC Attached	
<i>Instructions to Secondary Lab</i>	
1. Login Samples As Per Instructions (use +04INTDEP as Bill-To, and Client ID if needed)	
2. Use Primary Lab Person as Contact Under the Bill-To ID	
3. Under PO Field, Enter Primary Lab Order # (noted above)	
4. Under Project Field, Enter Client's Project From Client's COC (if attached)	
5. Perform The Analysis Requested on COC Per Client's Instructions <input checked="" type="checkbox"/>	
6. Perform Analysis As Per Description Below: <input type="checkbox"/>	
<i>Instructions to Secondary Lab – Reporting & Billing</i>	
1. Create Report and Internal Invoice	
2. Report Results To Client – Follow Instructions on Client's COC	
3. Do Not Mail Report Or Invoice, but Return to Primary Lab	
~PRIMARY LAB RECEIVES SAMPLES ORIGINALLY WILL BE RESPONSIBLE FOR~ ~DISBURSING REPORT AND INVOICE TOGETHER WITH ORIGINAL ORDER~	

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041312334
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/15/13 9:20 AM
 Analysis Date: 5/16/2013
 Collected: 5/13/2013

Project: 130467 USA

**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
 8/15/94**

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249301	1	15172	0.219	0.014	0.003	
<i>041312334-0001</i>						
249308	2	15198	0.265	0.017	0.003	
<i>041312334-0002</i>						
249349	3	15308	0.183	0.012	0.003	
<i>041312334-0003</i>						
249312	4	14888	0.220	0.015	0.003	
<i>041312334-0004</i>						
249325	5	15026	0.238	0.016	0.003	
<i>041312334-0005</i>						
249307	6	15080	0.543	0.036	0.003	
<i>041312334-0006</i>						
249324	7	15109	0.241	0.016	0.003	
<i>041312334-0007</i>						
249341	1	15317	0.093	0.006	0.003	
<i>041312334-0008</i>						
249310	2	15443	0.108	0.007	0.003	
<i>041312334-0009</i>						
249331	3	15100	0.115	0.008	0.003	
<i>041312334-0010</i>						
249330	4	14904	0.105	0.007	0.003	
<i>041312334-0011</i>						

Analyst(s)

Shane Feret (50)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Report Amended: 05/21/2013 10:09:59 Replaces the Initial Report 05/17/2013 12:50:03. Reason Code: Data Entry-Change to Sample ID

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

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Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249244	5	15287	0.127	0.008	0.003	
041312334-0012						
249222	6	15443	0.178	0.012	0.003	
041312334-0013						
249246	7	15443	0.126	0.008	0.003	
041312334-0014						
249227	1	14877	0.145	0.010	0.003	
041312334-0016						
249213	2	14670	0.148	0.010	0.003	
041312334-0017						
249226	3	14650	<0.05	<0.003	0.003	
041312334-0018						
249228	4	14620	0.229	0.016	0.003	
041312334-0019						
249236	5	14580	0.199	0.014	0.003	
041312334-0020						
249230	6	14696	0.153	0.010	0.003	
041312334-0021						
249207	7	14645	0.188	0.013	0.003	
041312334-0022						
249208	2	14646	0.247	0.017	0.003	
041312334-0023						

Analyst(s)

Shane Feret (50)

Stephen Siegel, CIH, Laboratory Manager
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Phone: (410) 792-9446
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 Received: 05/15/13 9:20 AM
 Analysis Date: 5/16/2013
 Collected: 5/13/2013

Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249221 041312334-0024	3	14749	0.306	0.021	0.003	
249232 041312334-0025	4	14749	0.285	0.019	0.003	
249240 041312334-0026	5	14615	0.322	0.022	0.003	
249243 041312334-0027	6	15127	0.470	0.031	0.003	
249242 041312334-0028	7	15232	0.249	0.016	0.003	
249220 041312334-0029	1	14522	0.178	0.012	0.003	
249223 041312334-0030	2	14500	0.128	0.009	0.003	
249234 041312334-0031	3	14450	<0.05	<0.003	0.003	
249247 041312334-0032	4	14450	<0.05	<0.003	0.003	
249206 041312334-0033	5	14490	0.238	0.016	0.003	
249224 041312334-0034	6	14200	0.551	0.039	0.004	

Analyst(s)

Shane Feret (50)

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or other approved signatory

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<http://www.emsl.com> cinnaslab@EMSL.com

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 CustomerID: GTA51
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Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
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Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/15/13 9:20 AM
 Analysis Date: 5/16/2013
 Collected: 5/13/2013

Project: 130467 USA

**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
 8/15/94**

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249218 041312334-0035	7	14220	0.305	0.021	0.004	
249231 041312334-0036	PAM-1	14331	0.113	0.008	0.003	
249245 041312334-0037	PAM-2	14169	0.094	0.007	0.004	
249229 041312334-0038	PAM-3	14280	0.108	0.008	0.004	
249233 041312334-0039	PAM-4	14310	0.127	0.009	0.003	
249205 041312334-0040	PAM-5	14320	0.122	0.009	0.003	
249214 041312334-0041	PAM-6	14440	0.287	0.020	0.003	
249216 041312334-0042	PAM-7	14380	0.142	0.010	0.003	
249225 041312334-0043	PAM-1	14584	0.112	0.008	0.003	
249241 041312334-0044	PAM-2	14395	0.111	0.008	0.003	
249201 041312334-0045	PAM-3	14447	0.120	0.008	0.003	

Analyst(s)

Shane Feret (50)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

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Report Amended: 05/21/2013 10:09:59 Replaces the Initial Report 05/17/2013 12:50:03. Reason Code: Data Entry-Change to Sample ID

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<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041312334
 CustomerID: GTA51
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 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/15/13 9:20 AM
 Analysis Date: 5/16/2013
 Collected: 5/13/2013

Project: 130467 USA

**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
 8/15/94**

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249235 041312334-0046	PAM-4	14428	0.098	0.007	0.003	
249210 041312334-0047	PAM-5	14418	0.144	0.010	0.003	
249204 041312334-0048	PAM-6	14477	2.794	0.193	0.003	
249200 041312334-0049	PAM-7	14507	0.108	0.007	0.003	
249248 041312334-0050	Media blank	0	<0.05	N/A	N/A	
249338 041312334-0015	Field blank 1	0	<0.05	N/A	N/A	Field Blank

Notes: Discernable field blank submitted with samples.
 Results are not field blank corrected.

Analyst(s)

Shane Feret (50)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Report Amended: 05/21/2013 10:09:59 Replaces the Initial Report 05/17/2013 12:50:03. Reason Code: Data Entry-Change to Sample ID



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041312334

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment: <u>7</u>		Date of Shipment: <u>5/14/13</u>	Purchase Order:		Sampled By (Signature): <u>TP</u>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaeng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: <u>ZEFDM 7P53P</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: <u>28127 (1 - 100)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249301	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15.172	5/4/13 16:00	1	2013 MAY 15 A 11:40 CINNAMINSON, N.J.
249308			15.198	16:08	2	
249349			15.308	16:20	3	
249312			14.898	16:25	4	
249325			15.026	16:33	5	
249307			15.080	16:40	6	
249324			15.109	16:49	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Scott W Cumming</u>	<u>5/6/13</u>	<u>Scott W Cumming</u>	<u>5/8/13</u>
	<u>5/14/13</u>	<u>UL F4</u>	<u>5/15/13 920</u>

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

2

3

041312334



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041312334

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment: 7		Date of Shipment: 5/14/13	Purchase Order:		Sampled By (Signature): TP
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtacng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: ZEPDM 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (1-100) + (101-200)

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249341	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15,317	5/7/13 16:05	1	LOT 28127 (1-100) ↓ CINNAMINSON, NJ MAY 14 11:40 AM ↓ LOT 28127 (101-200)
249310			15,443	16:18	2	
249331			15,100	16:25	3	
249330			14,904	16:33	4	
249244			15,297	16:42	5	
249222			15,443	16:50	6	
24924C			15,443	17:00	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W Cumming</i>	5/8/13	<i>Scott W Cumming</i>	5/8/13
	5/14/13		

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

7

041312334



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041312334

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment: <u>8</u>		Date of Shipment: <u>5/14/13</u>	Purchase Order:		Sampled By (Signature): <u>TP</u>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaceng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: <u>ZEPDN 7P53P</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: <u>28127 (101 - 200)</u>

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249338	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	0	5/8/13 16:38	3 ⁴ FIELD BANK 1	
249227			14.977	16:38	1	
249213			14.670	16:45	2	
249226			14.650	16:50	3	
249228			14.620	16:55	4	
249236			14.580	17:00	5	
249230			14.696	17:05	6	
249207			14.645	17:10	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Scott W Cumming</u>	<u>5/8/13</u>	<u>Scott W Cumming</u>	<u>5/8/13</u>
<u>Scott W Cumming</u>	<u>5/14/13</u>		

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

8

041312334



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041212334

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment: 6		Date of Shipment: 5/14/13	Purchase Order:		Sampled By (Signature): TP
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gteng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: ZEFON 7P53P
						Lot #: 28127 (101 - 200)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
* 249411	5.0µ PVC	Cr VI OSHA 215 /	15.73 SWC	5/10/13 16:05	1 - SWC	2013 MAY 15 AM 11:40 RECEIVED INDUSTRIAL HYGIENE LABORATORY CINNAMINSON, NJ
249208		TOTAL PARTICULATES	14.646	16:10	2	
249221		NIOSH 0500	14.749	16:20	3	
249232			14.749	16:25	4	
249240			14.615	16:30	5	
249243			15.127	17:10	6	
249242			15.232	17:15	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W Cummins</i>	5/13/13	<i>Scott W Cummins</i>	5/13/13
	5/14/13		

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

5

041312334



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041312334

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment: <u>7</u>		Date of Shipment: <u>5/14/13</u>	Purchase Order:		Sampled By (Signature): <u>T.P.</u>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaceng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: <u>ZEPDM 7P53P</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: <u>28127 (101 - 200)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249220	5.0µ PVC	Cr VI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	14,522	5/11/13 16:10	1	RECEIVED MAY 15 11:40 CINNAMINSON, N.J.
249223			14,500	16:20	2	
249234			14,450	16:25	3	
249247			14,450	16:30	4	
249206			14,490	16:39	5	
249224			14,200	16:50	6	
249218			14,220	17:00	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Scott W Cumming</u>	<u>5/13/13</u>	<u>Scott W Cumming</u>	<u>5/13/13</u>
	<u>5/14/13</u>		

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



041312334



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):
041312334

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment: 7		Date of Shipment: 5/14/13	Purchase Order:		Sampled By (Signature): <i>[Signature]</i>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtacng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: ZEFDM 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (101 - 206)

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249231	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	14.331	5/12/13 16:56	PAM-1	2013 MAY 15 AM 11:40 CINNAMINSON, N.J.
249245			14.119	5/12/13 16:04	PAM-2	
249229			14.220	5/12/13 16:13	PAM-3	
249233			14.310	5/12/13 16:21	PAM-4	
249205			14.320	5/12/13 16:31	PAM-5	
249214			14.400	5/12/13 16:50	PAM-6	
249216			14.380	5/12/13 16:58	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Shirley Choy</i>	5/13/2013	<i>Scott W Cummins</i>	5/13/13
<i>Scott W Cummins</i>	5/14/2013		

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041312334

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment: 8		Date of Shipment: 5/14/13	Purchase Order:		Sampled By (Signature): <i>Scott W. Cumming</i>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaceng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: ZEFON 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (101 - 200)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249225	5.0µ PVC	Cr VI OSHA 215/	14,584	5/13/13 16:00	PAM-1	2013 MAY 15 AM 11:40 CINNAMINSON, N.J.
249241		TOTAL PARTICULATES	14,395	16:18	PAM-2	
249201		NIOSH 0500	14,447	16:25	PAM-3	
249235			14,428	16:31	PAM-4	
249210			14,418	16:40	PAM-5	
249204			14,477	17:05	PAM-6	
249200			14,507	17:16	PAM-7	
249248					MEDIA BLANK!	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <i>Scott W. Cumming</i>	Date: 5/14/13	Received By:	Date:

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

041312334



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

5/22/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 5/16/2013. The results are tabulated on the attached data pages for the following client designated project:

130467 USA

The reference number for these samples is EMSL Order #011302079. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302079

CustomerID: GTA51

CustomerPO: 041312334

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/16/13 4:00 PM
 Collected:

Project: 130467 USA

Analytical Results

Client Sample Description 249341 **Collected:** **Lab ID:** 0008
 Pam-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00065	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249310 **Collected:** **Lab ID:** 0009
 Pam-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00065	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249331 **Collected:** **Lab ID:** 0010
 Pam-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00066	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249330 **Collected:** **Lab ID:** 0011
 Pam-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00067	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249244 **Collected:** **Lab ID:** 0012
 Pam-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00082	0.00065	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249222 **Collected:** **Lab ID:** 0013
 Pam-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00065	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249246 **Collected:** **Lab ID:** 0014
 Pam-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00065	µg/m ³	5/20/2013	MM	5/20/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302079

CustomerID: GTA51

CustomerPO: 041312334

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/16/13 4:00 PM
 Collected:

Project: 130467 USA

Analytical Results

Client Sample Description 249338 **Collected:** **Lab ID:** 0015
 Field Blank 1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249227 **Collected:** **Lab ID:** 0016
 Pam-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00067	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249213 **Collected:** **Lab ID:** 0017
 Pam-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249226 **Collected:** **Lab ID:** 0018
 Pam-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249228 **Collected:** **Lab ID:** 0019
 Pam-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249236 **Collected:** **Lab ID:** 0020
 Pam-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249230 **Collected:** **Lab ID:** 0021
 Pam-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	5/20/2013	MM	5/21/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302079

CustomerID: GTA51

CustomerPO: 041312334

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/16/13 4:00 PM
 Collected:

Project: 130467 USA

Analytical Results

<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249207 Pam-7					0022			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249220 Pam-1					0029			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0018	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249223 Pam-2					0030			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0015	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249234 Pam-3					0031			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0012	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249247 Pam-4					0032			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0022	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249206 Pam-5					0033			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0018	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249224 Pam-6					0034			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0039	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302079

CustomerID: GTA51

CustomerPO: 041312334

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/16/13 4:00 PM
 Collected:

Project: 130467 USA

Analytical Results

Client Sample Description 249218
Pam-7 **Collected:** **Lab ID:** 0035

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00080	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249231
Pam-1 **Collected:** **Lab ID:** 0036

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249245
Pam-2 **Collected:** **Lab ID:** 0037

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0047	0.00071	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249229
Pam-3 **Collected:** **Lab ID:** 0038

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0036	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249233
Pam-4 **Collected:** **Lab ID:** 0039

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249205
Pam-5 **Collected:** **Lab ID:** 0040

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0021	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249214
Pam-6 **Collected:** **Lab ID:** 0041

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0033	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM

**EMSL Analytical, Inc.**

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 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302079
 CustomerID: GTA51
 CustomerPO: 041312334
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/16/13 4:00 PM
 Collected:

Project: 130467 USA

Analytical Results

Client Sample Description 249216 **Collected:** **Lab ID:** 0042
 Pam-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249248 **Collected:** **Lab ID:** 0050
 Media Blank 1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	5/20/2013	MM	5/21/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302079

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment: <u>7</u>		Date of Shipment: <u>5/14/13</u>	Purchase Order:		Sampled By (Signature): <u>TP</u>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gteng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: <u>37mm, 3 PIECE CASSETTE</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: <u>ZEPON 7P53P</u>
							Lot #: <u>28127 (1 - 100)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249301	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15.172	5/14/13 16:00	1	
249303			15.198	16:08	2	
249349			15.308	16:20	3	
249312			14.888	16:25	4	
249325			15.026	16:33	5	
249307			15.080	16:40	6	
249324			15.109	16:49	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <u>Scott W Cumming</u>	Date: <u>5/14/13</u>	Received By: <u>Scott W Cumming</u>	Date: <u>5/15/13 9:20</u>
			<u>5/16/13 4:00p</u>

Comments: * CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

MAY 15 4:11:40 PM '13



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302079

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>				U.S. State where Samples Collected: <u>MARYLAND</u>	
Number of Samples in Shipment: <u>8</u>		Date of Shipment: <u>5/14/13</u>		Purchase Order:	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail		Email Results To: <u>sstevenson@gtaeng.com</u>			

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: <u>ZEPDN 7P53P</u>						Lot #: <u>28127 (101 - 200)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249338	5.0µ PVC	Cr VI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	0	5/8/13 16:38	# ⁹¹⁸ FIELD BANK 1	DINA M... MAY 15 4:11:40
249227			14,977	16:38	1	
249213			14,670	16:45	2	
249226			14,650	16:50	3	
249228			14,620	16:55	4	
249236			14,580	17:00	5	
249230			14,696	17:05	6	
249207			14,645	17:10	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Scott W. Cumming</u>	<u>5/14/13</u>	<u>Scott W. Cumming</u>	<u>5/8/13</u>
<u>Scott W. Cumming</u>	<u>5/14/13</u>		<u>5/16/13 4:00pm</u>

Comments:

* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302079

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment: 6		Date of Shipment: 5/14/13	Purchase Order:		Sampled By (Signature): TP
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gteng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 PIECE CASSETTE
2 Week <input type="checkbox"/>	1 Week <input checked="" type="checkbox"/>	4 Day <input type="checkbox"/>	3 Day <input type="checkbox"/>	2 Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	Other (Call Lab) <input type="checkbox"/>	Manufacturer/Part #: ZEPON 7P53P
							Lot #: 28127 (101 - 200)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249411	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15.173	5/10/13 16:05	1 - SWC	RUN TIME INTERRUPTION - Vol 10 5/15 AM 11:40
249209			14.646	16:10	2	
249221			14.749	16:20	3	
249232			14.749	16:25	4	
249240			14.615	16:30	5	
249243			15.127	17:10	6	
249242			15.232	17:15	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: Scott W Cummins	Date: 5/13/13	Received By: Scott W Cummins	Date: 5/13/13
	5/14/13		5/16/13 4:00p

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

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EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment: <u>7</u>		Date of Shipment: <u>5/14/13</u>	Purchase Order:		Sampled By (Signature): <u>T.P.</u>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaceng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: <u>ZEFDA 7P53P</u>						Lot #: <u>28127 (101 - 200)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
29 249220	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	14,522	5/11/13 16:10	1	
30 249223			14,500	16:20	2	
31 249234			14,450	16:25	3	
32 249247			14,450	16:30	4	
33 249206			14,490	16:39	5	
34 249224			14,200	16:50	6	
35 249218			14,220	17:00	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Scott W Cumming</u>	<u>5/13/13</u>	<u>Scott W Cumming</u>	<u>5/13/13</u>
	<u>5/14/13</u>		<u>5/16/13 4:00pm</u>

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

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EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

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EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>				U.S. State where Samples Collected: <u>MARYLAND</u>	
Number of Samples in Shipment: <u>7</u>		Date of Shipment: <u>5/14/13</u>		Purchase Order:	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail		Email Results To: <u>sstevenson@gtacng.com</u>			

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: <u>ZEFON 7P53P</u>						Lot #: <u>2B127 (101-206)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
36 249231	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	14.331	5/12/13 16:56	PAM-1	
37 249245			14.169	5/12/13 16:04	PAM-2	
38 249229			14.220	5/12/13 16:13	PAM-3	
39 249233			14.310	5/12/13 16:21	PAM-4	
40 249205			14.320	5/12/13 16:31	PAM-5	
41 249214			14.400	5/12/13 16:50	PAM-6	
42 249216			14.380	5/12/13 16:58	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Shiehan Chou</u>	<u>5/13/2013</u>	<u>Scott W Cummins</u>	<u>5/13/13</u>
<u>Scott W Cummins</u>	<u>5/14/2013</u>		<u>5/16/13 4:00p</u>

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

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EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

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200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3677
FAX: (856) 858-3507

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment: 8		Date of Shipment: 5/14/13	Purchase Order:		Sampled By (Signature): <i>Scott W. Cummins</i>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaceng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2-Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: 37mm, 3 PIECE CASSETTE
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: ZEPON 7P53P
							Lot #: 28127 (101 - 200)

249225
249241
249201
249235
249210
249204
249200
249248

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249225	5.0µ PVC	Cr VI OSHA 215 /	14,584	5/13/13 16:00	PAM-1	
249241		TOTAL PARTICULATES	14,395	16:18	PAM-2	
249201		NIOSH 0500	14,447	16:25	PAM-3	
249235			14,428	16:31	PAM-4	
249210			14,418	16:40	PAM-5	
249204			14,477	17:05	PAM-6	
249200			14,507	17:16	PAM-7	
249248					MEDIA BLANK!	

CINNAMINSON, NJ
MAY 15 AM 11:40

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <i>Scott W. Cummins</i>	Date: 5/14/13	Received By: <i>[Signature]</i>	Date: 5/16/13 4:00p
--------------------------------------	----------------------	---------------------------------	----------------------------

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

011302079

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041314073
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/03/13 8:50 AM
 Analysis Date: 6/3/2013
 Collected: 5/29/2013

Project: 130467 USA

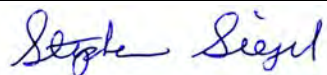
Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249610 041314073-0001	PAM 2	15139	0.296	0.020	0.003	
249614 041314073-0002	PAM 3	15489	0.353	0.023	0.003	
249612 041314073-0003	PAM 4	15140	0.322	0.021	0.003	
249615 041314073-0004	PAM 5	15129	0.305	0.020	0.003	
249631 041314073-0005	PAM 6	15376	0.405	0.026	0.003	
249602 041314073-0006	PAM 7	14943	0.434	0.029	0.003	
249634 041314073-0007	Media Blank 2	0	<0.05	N/A	N/A	Field Blank

Notes: Discernable field blank submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (7)



 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/04/2013 11:01:40



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):
041314073

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: JAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment: 7		Date of Shipment:	Purchase Order:	Sampled By (Signature): <i>[Signature]</i>	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gteng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: ZEPON 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (-)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments	
249610	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15,139	5/29/13 17:45	PAM-2		
249614			15,489	17:50	PAM-3		
249612			15,140	18:00	PAM-4		
249615			15,129	18:10	PAM-5		
249631			15,376	18:20	PAM-6		
249602			14,943	18:35	PAM-7		
249634			-			MEDIA BLANK 2	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	2013-05-29	<i>[Signature]</i> FX	8:50 AM 6-3-2013

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

27

041314073

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041314077
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/03/13 8:50 AM
 Analysis Date: 6/4/2013
 Collected: 5/24/2013

Project: 130467 USA

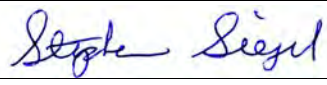
Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249692 041314077-0001	PAM 1	14515	<0.05	<0.003	0.003	
249696 041314077-0002	PAM 2	14540	<0.05	<0.003	0.003	
249673 041314077-0003	PAM 3	15425	0.071	0.005	0.003	
249682 041314077-0004	PAM 4	14984	0.107	0.007	0.003	
249686 041314077-0005	PAM 5	14597	0.094	0.006	0.003	
249683 041314077-0006	PAM 6	14633	0.118	0.008	0.003	
249695 041314077-0007	PAM 7	14652	0.117	0.008	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (7)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/04/2013 11:04:58



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041314077

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaceng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: <u>ZEFDM 7P53P</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: <u>28127 (201 - 300)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249692	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	14,515	5/24/13 18:00	1	
249696			14,540	18:10	2	
249673			15,425	18:17	3	
249682			14,984	18:22	4	
249686			14,597	18:31	5	
249683			14,633	18:37	6	
249695			14,652	18:47	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Thomas Piquin</u>	<u>5/29/13</u>	<u>John W. ...</u>	<u>5/29/13</u>
		<u>RD FX 8:50AM</u>	<u>6-3-2013</u>

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

47

041314077

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041314078

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/03/13 8:50 AM
 Analysis Date: 6/4/2013
 Collected: 5/23/2013

Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249662	PAM 1	14544	0.099	0.007	0.003	
<i>041314078-0001</i>						
249691	PAM 2	14541	0.135	0.009	0.003	
<i>041314078-0002</i>						
249677	PAM 3	14568	0.147	0.010	0.003	
<i>041314078-0003</i>						
249688	PAM 4	14564	0.183	0.013	0.003	
<i>041314078-0004</i>						
249679	PAM 5	14496	0.187	0.013	0.003	
<i>041314078-0005</i>						
249672	PAM 6	14605	0.321	0.022	0.003	
<i>041314078-0006</i>						
249652	PAM 7	14605	0.188	0.013	0.003	
<i>041314078-0007</i>						

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

Shane Feret (7)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/04/2013 13:39:12



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041314078

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041314078

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>				U.S. State where Samples Collected: <u>MARYLAND</u>	
Number of Samples in Shipment: <u>7</u>		Date of Shipment:		Purchase Order:	
Sampled By (Signature):		Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			
Email Results To: <u>sstevenson@gtacng.com</u>					

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.							Media Type: <u>37mm, 3 PIECE CASSETTE</u>	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: <u>ZEFON 7P53P</u>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: <u>28127 (201 - 300)</u>	

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249662	5.0µ PVC	CrVI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	14.544	5/23/13 18:00	PAM 1	
249691			14.541	5/23/13 18:04	PAM 2	
249677			14.568	5/23/13 18:10	PAM 3	
249688			14.564	5/23/13 18:15	PAM 4	
249679			14.490	5/23/13 18:20	PAM 5	
249672			14.605	5/23/13 18:21	PAM 6	
249652			14.605	5/23/13 18:24	PAM 7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>[Signature]</u>	5/24/13	<u>[Signature]</u>	5/24/13
		<u>RD FX 8:50 AM</u>	6-3-2013

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

(97)



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/10/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/4/2013. The results are tabulated on the attached data pages for the following client designated project:

130467 USA

The reference number for these samples is EMSL Order #011302356. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302356

CustomerID: GTA51

CustomerPO: 041314073

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/04/13 9:00 AM
 Collected: 5/29/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249610 PAM-2 **Collected:** 5/29/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0021	0.00066	µg/m ³	6/7/2013	MM	6/7/2013	MM

Client Sample Description 249614 PAM-3 **Collected:** 5/29/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00065	µg/m ³	6/7/2013	MM	6/7/2013	MM

Client Sample Description 249612 PAM-4 **Collected:** 5/29/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0030	0.00066	µg/m ³	6/7/2013	MM	6/7/2013	MM

Client Sample Description 249615 PAM-5 **Collected:** 5/29/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0024	0.00066	µg/m ³	6/7/2013	MM	6/7/2013	MM

Client Sample Description 249631 PAM-6 **Collected:** 5/29/2013 **Lab ID:** 0005

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0039	0.00065	µg/m ³	6/7/2013	MM	6/7/2013	MM

Client Sample Description 249602 PAM-7 **Collected:** 5/29/2013 **Lab ID:** 0006

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00067	µg/m ³	6/7/2013	MM	6/7/2013	MM

Client Sample Description 249634 Media Blank 2 **Collected:** 5/29/2013 **Lab ID:** 0007

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	6/7/2013	MM	6/7/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

01302356

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302356

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment: 7		Date of Shipment:	Purchase Order:		Sampled By (Signature): <i>[Signature]</i>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtacng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: ZEPDA 7P53P						Lot #: 2B127 (-)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
① 249610	5.0µ PVC	Cr-VI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	15,139	5/29/13 17:45	PAM-2	per Sam-
② 249614			15,489	17:50	PAM-3	Not welding, plating, painting env.
③ 249612			15,140	18:00	PAM-4	6/4 11:30AM -TA
④ 249615			15,129	18:10	PAM-5	
⑤ 249631			15,376	18:20	PAM-6	
⑥ 249602			14,943	18:35	PAM-7	
⑦ 249634						

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <i>[Signature]</i>	Date: 2013-05-29	Received By: <i>[Signature]</i>	Date: 6/4/13 9:00AM
---------------------------------	-------------------------	---------------------------------	----------------------------

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

(27)

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041315164

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/12/13 9:15 AM
 Analysis Date: 6/13/2013
 Collected: 6/3/2013

Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249629 041315164-0001	PAM-1	15191	0.085	0.006	0.003	
249618 041315164-0002	PAM-2	15334	0.113	0.007	0.003	
249619 041315164-0003	PAM-3	15180	0.319	0.021	0.003	
249635 041315164-0004	PAM-4	15180	0.147	0.010	0.003	
249604 041315164-0005	PAM-5	15155	0.171	0.011	0.003	
249642 041315164-0006	PAM-6	15438	0.177	0.011	0.003	
249643 041315164-0007	PAM-7	15511	0.149	0.010	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

Shane Feret (7)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/14/2013 09:14:29



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

021315164

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature): <i>Scott W. Cumming</i>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: ssstevenson@gtaceng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: 37mm, 3 PIECE CASSETTE
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: ZEPON 7P53P
							Lot #: 28127 (201 - 300)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249629	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15,191	6/3/13 16:50	PAM-1	13 JUN 12 AM 10:14 RECEIVED EMSL CINNAMINSON, NJ
249618			15,334	17:00	PAM-2	
249619			15,180	17:05	PAM-3	
249635			15,180 15,180	17:12	PAM-4	
249604			15,155	17:20	PAM-5	
249642			15,438	17:40	PAM-6	
249643			15,511	17:45	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W. Cumming</i>	2013-06-03	<i>Jarrod DeNun</i>	6/11/2013
		<i>MD FL 9:15AM</i>	6-12-2013

Comments:
 * CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.
 * SAMPLES WERE NOT COLLECTED IN PLATING, WELDING, OR PAINTING ENVIRONMENTS.

7

041315164

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order:	041315635
CustomerID:	GTA51
CustomerPO:	
ProjectID:	

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/17/13 8:30 AM
 Analysis Date: 6/17/2013
 Collected: 6/13/2013

Project: 130467USA

Test Report: PM2.5 Analysis of Particulate Matter Performed by EPA Reference Method 40 CFR, Chapter 1, Part 50, Appendix L

Sample	Location	Volume (L)	Initial Weight (mg)	Final Weight (mg)	Sample Weight (mg)	Concentration ($\mu\text{g}/\text{m}^3$)	Reporting Limit ($\mu\text{g}/\text{m}^3$)	Notes
GTA-5 041315635-0001	PAM-1	22376	22.087	22.379	0.292	13.050	0.089	
GTA-6 041315635-0002	PAM-2	16677	21.453	21.692	0.239	14.331	0.120	
GTA-7 041315635-0003	PAM-4	15402	20.382	20.634	0.252	16.362	0.130	
GTA-8 041315635-0004	PAM-6	15975	19.319	19.696	0.377	23.599	0.125	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s) _____

Shane Feret (4)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/18/2013 10:08:34



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041315635

200 Route 130 North

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : 410-792-9446	Fax :		Phone : 410-792-9446	Fax :	
Project Name: 130467USA				U.S. State where Samples Collected: MD	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47 mm
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #:
						Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
GTA-5	47 mm	CrVI (OSHA 215) and Particulates (NIOSH 0500)	22,376	6/13/13 17:10	PAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUN 17 AM 9:46
GTA-6	↓	↓	16,677	↓ 17:45	PAM-2	
GTA-7	↓	↓	15,402	↓ 18:04	PAM-4	
GTA-8	↓	↓	15,975	↓ 18:28	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
Frank Rimm	6/14/13	RJ FX 8:30 AM	6-17-2013

Comments:

OK to analyze for both CrVI and particulates from the same filter. Samples were not collected from a welding, plating, or painting environment.

4

041315635



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/19/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/13/2013. The results are tabulated on the attached data pages for the following client designated project:

130467 USA

The reference number for these samples is EMSL Order #011302582. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302582
 CustomerID: GTA51
 CustomerPO: 041315164
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/13/13 12:00 PM
 Collected: 6/3/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249629 **Collected:** 6/3/2013 **Lab ID:** 0001
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00099	0.00066	µg/m ³	6/14/2013	MM	6/17/2013	MM

Client Sample Description 249618 **Collected:** 6/3/2013 **Lab ID:** 0002
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0025	0.00065	µg/m ³	6/14/2013	MM	6/17/2013	MM

Client Sample Description 249619 **Collected:** 6/3/2013 **Lab ID:** 0003
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0015	0.00066	µg/m ³	6/14/2013	MM	6/17/2013	MM

Client Sample Description 249635 **Collected:** 6/3/2013 **Lab ID:** 0004
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00066	µg/m ³	6/14/2013	MM	6/17/2013	MM

Client Sample Description 249604 **Collected:** 6/3/2013 **Lab ID:** 0005
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00066	µg/m ³	6/14/2013	MM	6/18/2013	MM

Client Sample Description 249642 **Collected:** 6/3/2013 **Lab ID:** 0006
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0021	0.00065	µg/m ³	6/14/2013	MM	6/18/2013	MM

Client Sample Description 249643 **Collected:** 6/3/2013 **Lab ID:** 0007
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0028	0.00065	µg/m ³	6/14/2013	MM	6/18/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

**Industrial Hygiene
Chain of Custody**
EMSL Order Number (Lab Use Only):

01302582

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature): <i>[Signature]</i>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtacng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: ZEFON 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (201 - 300)

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
① 249629	5.0µ PVC	Cr.VI OSHA 215/	15,191	6/3/13 16:50	PAM-1	13 JUN 12 AM 10:14 RECEIVED EMSL CINNAMINSON, NJ
② 249618		TOTAL PARTICULATES	15,334	17:00	PAM-2	
③ 249619		NIOSH 0500	15,180	17:05	PAM-3	
④ 249635			15,180 15,180	17:12	PAM-4	
⑤ 249604			15,155	17:20	PAM-5	
⑥ 249642			15,438	17:40	PAM-6	
⑦ 249643			15,511	17:45	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	2013-06-03	<i>[Signature]</i>	6/11/2013
		<i>[Signature]</i>	6-12-2013

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.
* SAMPLES WERE NOT COLLECTED IN PLATING, WELDING, OR PAINTING ENVIRONMENTS.

011302582

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041315468
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/14/13 10:10 AM
 Analysis Date: 6/18/2013
 Collected: 6/12/2013

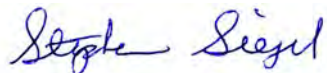
Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249495 041315468-0001	OSAM-1	14832	0.291	0.020	0.003	
249537 041315468-0002	OSAM-2	14759	0.133	0.009	0.003	
249477 041315468-0003	OSAM-3	14976	0.264	0.018	0.003	
249529 041315468-0004	PAM-1	14760	0.231	0.016	0.003	
249500 041315468-0005	PAM-2	14447	0.293	0.020	0.003	
249474 041315468-0006	PAM-3	14921	0.286	0.019	0.003	
249484 041315468-0007	PAM-4	15509	0.282	0.018	0.003	
249465 041315468-0008	PAM-5	15147	0.251	0.017	0.003	
249466 041315468-0009	PAM-6	15614	0.275	0.018	0.003	
249457 041315468-0010	PAM-7	15444	0.315	0.020	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)
 Shane Feret (10)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/19/2013 10:04:21



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041315468

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041315468

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395		U.S. State where Samples Collected: Maryland			
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:		Purchase Order:	
Number of Samples in Shipment:		Date of Shipment:		Sampled By (Signature):	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtang.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (301 - 400)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249495	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,832	6/12/13 15:02	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUN 14 PM 12:22
249537	5.0 µ PVC		14,759	6/12/13 15:20	OSAM-2	
249477	5.0 µ PVC		14,976	6/12/13 15:35	OSAM-3	
249529	5.0 µ PVC		14,760	6/12/13 15:53	PAM-1	
249500	5.0 µ PVC		14,447	6/12/13 16:22	PAM-2	
249474	5.0 µ PVC		14,921	6/12/13 16:47	PAM-3	
249484	5.0 µ PVC		15,509	6/12/13 16:54	PAM-4	
249465	5.0 µ PVC		15,147	6/12/13 17:25	PAM-5	
249466	5.0 µ PVC		15,614	6/12/13 17:35	PAM-6	
249457	5.0 µ PVC		15,444	6/12/13 17:50	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
	6/13/13		6/13/13
	6/13/13		6-14-13

Comments: *Client approval granted to run OSHA 215 and NIOSH 0500 from same sample cassette. Samples were not collected from a welding, plating or painting environment.

10

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order:	041315470
CustomerID:	GTA51
CustomerPO:	
ProjectID:	

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/14/13 10:10 AM
 Analysis Date: 6/18/2013
 Collected: 6/11/2013

Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249517 041315470-0001	OSAM-2	13698	0.071	0.005	0.004	
249501 041315470-0002	OSAM-3	14000	0.087	0.006	0.004	
249487 041315470-0003	PAM-1	14770	0.168	0.011	0.003	
249455 041315470-0004	PAM-2	14759	0.151	0.010	0.003	
249496 041315470-0005	PAM-3	14840	0.157	0.011	0.003	
249486 041315470-0006	PAM-4	14581	0.159	0.011	0.003	
249463 041315470-0007	PAM-5	14643	0.266	0.018	0.003	
249468 041315470-0008	PAM-6	15722	0.193	0.012	0.003	
249467 041315470-0009	PAM-7	15336	<0.05	<0.003	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s) _____

Shane Feret (9)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/19/2013 10:39:22



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS-TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041315470

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041315470

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input type="checkbox"/> Email <input type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (301 - 400)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249517	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	13,698	6/11/13 15:13	OSAM-2	13 JUN 14 PM 12:19 RECEIVED EMSL CINNAMINSON, NJ
249501	5.0 µ PVC		14,000	6/11/13 15:35	OSAM-3	
249487	5.0 µ PVC		14,770	6/11/13 15:53	PAM-1	
249455	5.0 µ PVC		14,759	6/11/13 16:10	PAM-2	
249496	5.0 µ PVC		14,840	6/11/13 16:17	PAM-3	
249486	5.0 µ PVC		14,581	6/11/13 16:24	PAM-4	
249463	5.0 µ PVC		14,643	6/11/13 16:40	PAM-5	
249468	5.0 µ PVC		15,722	6/11/13 16:48	PAM-6	
249467	5.0 µ PVC		15,336	6/11/13 17:02	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/13/13	<i>[Signature]</i>	6/13/13
<i>[Signature]</i>	6/13/13	<i>[Signature]</i>	6-14-13

Comments: *Client approval granted to run OSHA 215 and NIOSH 0500 from same sample cassette. Samples were not collected from a welding, plating or painting environment.

9

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041315632
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/17/13 8:30 AM
 Analysis Date: 6/18/2013
 Collected: 6/13/2013

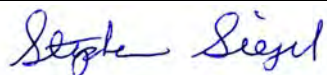
Project: 130467USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249488 041315632-0001	OSAM- 1	14822	0.361	0.024	0.003	
249494 041315632-0002	OSAM- 2	14709	0.177	0.012	0.003	
249475 041315632-0003	OSAM- 3	14565	0.333	0.023	0.003	
249464 041315632-0004	PAM-1	15777	0.319	0.020	0.003	
249491 041315632-0005	PAM-2	14773	0.341	0.023	0.003	
249497 041315632-0006	PAM-3	15382	<0.05	<0.003	0.003	
249492 041315632-0007	PAM-4	15327	0.253	0.017	0.003	
249476 041315632-0008	PAM-5	15140	0.317	0.021	0.003	
249493 041315632-0009	PAM-6	15527	0.386	0.025	0.003	
249485 041315632-0010	PAM-7	15527	0.332	0.021	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)
 Shane Feret (10)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/19/2013 09:56:01



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041315632

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041315632

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (301 - 400)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249488	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,822	6/13/13	15:02	OSAM-1	
249494	5.0 µ PVC		14,709	6/13/13	15:15	OSAM-2	
249475	5.0 µ PVC		14,565	6/13/13	15:30	OSAM-3	
249464	5.0 µ PVC		15,777	6/13/13	17:10	PAM-1	
249491	5.0 µ PVC		14,773	6/13/13	17:45	PAM-2	
249497	5.0 µ PVC		15,382	6/13/13	18:00	PAM-3	
249492	5.0 µ PVC		15,327	6/13/13	18:04	PAM-4	
249476	5.0 µ PVC		15,140	6/13/13	18:24	PAM-5	
249493	5.0 µ PVC		15,527	6/13/13	18:28	PAM-6	
249485	5.0 µ PVC		15,527	6/13/13	18:43	PAM-7	

RECEIVED
EMSL
CINNAMINSON, NJ
13 JUN 17 AM 9:49

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Tina P...</i>	<i>6/14/13</i>	<i>KD FX 8:30 AM</i>	<i>6-17-2013</i>

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

10

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041315754

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/18/13 10:00 AM
 Analysis Date: 6/18/2013
 Collected: 6/15/2013

Project: 130467USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249483 041315754-0001	OSAM-2	14781	0.120	0.008	0.003	
249460 041315754-0002	OSAM-3	14645	<0.05	<0.003	0.003	
249458 041315754-0003	PAM-1	14515	0.140	0.010	0.003	
249478 041315754-0004	PAM-2	14575	0.161	0.011	0.003	
249472 041315754-0005	PAM-3	14221	0.127	0.009	0.004	
249469 041315754-0006	PAM-4	14565	0.061	0.004	0.003	
249470 041315754-0007	PAM-5	14514	0.113	0.008	0.003	
249490 041315754-0008	PAM-6	14697	0.095	0.006	0.003	
249462 041315754-0009	PAM-7	14697	0.086	0.006	0.003	
249454 041315754-0010	Media blank	14595	<0.05	<0.003	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

Shane Feret (10)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/19/2013 10:08:31



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS, TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

6713-754

041315754

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395		Fax : (410) 792-7395		Fax : (410) 792-7395	
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:		Purchase Order:	
				Sampled By (Signature):	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (301 - 400)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249483	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,781	6/14/13	15:17	OSAM-2	
249483	5.0 µ PVC		14,781	6/14/13	15:17	OSAM-2	
249460	5.0 µ PVC		14,645	6/14/13	15:40	OSAM-3	
249458	5.0 µ PVC		14,515	6/14/13	17:00	PAM-1	
249478	5.0 µ PVC		14,575	6/14/13	17:20	PAM-2	
249472	5.0 µ PVC		14,221	6/14/13	17:35	PAM-3	
249469	5.0 µ PVC		14,565	6/14/13	17:45	PAM-4	
249470	5.0 µ PVC		14,514	6/14/13	18:00	PAM-5	
249490	5.0 µ PVC		14,697	6/14/13	18:08	PAM-6	
249462	5.0 µ PVC		14,595	6/14/13	18:20	PAM-7	

13 JUN 18 AM 11:49
SSTEVENS
130467USA

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/15/13	<i>[Signature]</i>	6/17/13
<i>[Signature]</i>	6/17/13	<i>[Signature]</i>	6/18/13 10A

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media
Samples were not collected from a welding, plating or painting environment.

(10)

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041315755
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/18/13 10:00 AM
 Analysis Date: 6/18/2013
 Collected: 6/16/2013

Project: 130467USA

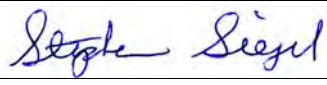
Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249459 041315755-0001	OSAM-1	14544	0.276	0.019	0.003	
249577 041315755-0002	OSAM-2	14462	0.135	0.009	0.003	
249591 041315755-0003	OSAM-3	14832	0.318	0.021	0.003	
249480 041315755-0004	PAM-1	14688	0.255	0.017	0.003	
249593 041315755-0005	PAM-2	14697	0.244	0.017	0.003	
249473 041315755-0006	PAM-3	14768	0.275	0.019	0.003	
249498 041315755-0007	PAM-4	14697	0.292	0.020	0.003	
249584 041315755-0008	PAM-5	14626	0.286	0.020	0.003	
249585 041315755-0009	PAM-6	14626	0.306	0.021	0.003	
249565 041315755-0010	PAM-7	14626	0.292	0.020	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (10)



 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/19/2013 10:24:36



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041315755

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA			U.S. State where Samples Collected: Maryland		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (301 - 500)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249459	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,544	6/16/13	15:35	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ JUN 18 AM 10:50
249577	5.0 µ PVC		14,462	6/16/13	15:48	OSAM-2	
249591	5.0 µ PVC		14,832	6/16/13	16:05	OSAM-3	
249480	5.0 µ PVC		14,688	6/16/13	16:40	PAM-1	
249513	5.0 µ PVC		14,697	6/16/13	16:46	PAM-2	
249473	5.0 µ PVC		14,768	6/16/13	16:57	PAM-3	
249498	5.0 µ PVC		14,697	6/16/13	17:02	PAM-4	
249584	5.0 µ PVC		14,626	6/16/13	17:20	PAM-5	
249585	5.0 µ PVC		14,626	6/16/13	17:25	PAM-6	
249565	5.0 µ PVC		14,626	6/16/13	17:40	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-17-13	<i>[Signature]</i>	6/17/13
<i>[Signature]</i>	6/17/13	<i>[Signature]</i>	6/18/13 10A

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

10

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order:	041315742
CustomerID:	GTA51
CustomerPO:	
ProjectID:	

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/18/13 10:00 AM
 Analysis Date: 6/18/2013
 Collected: 6/15/2013

Project: 130467USA

Test Report: PM2.5 Analysis of Particulate Matter Performed by EPA Reference Method 40 CFR, Chapter 1, Part 50, Appendix L

Sample	Location	Volume (L)	Initial Weight (mg)	Final Weight (mg)	Sample Weight (mg)	Concentration (µg/m³)	Reporting Limit (µg/m³)	Notes
GTA-13 041315742-0001	PAM 1	14200	20.143	20.294	0.151	10.634	0.141	
GTA-14 041315742-0002	PAM 2	14474	21.237	21.307	0.070	4.836	0.138	
GTA-15 041315742-0003	PAM 4	14312	22.235	22.525	0.290	20.263	0.140	
GTA-16 041315742-0004	PAM 6	14383	21.810	21.914	0.104	7.231	0.139	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s) _____

Shane Feret (4)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/19/2013 10:29:23



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041315742

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47mm, via PM2.5 Impact Sampler	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
GTA-13	47 mm	Cr VI OSHA 215 Particulates (From PM2.5 Impact Sampler)	14,200	6-15-13 16:40 16:40	PAM-1	13 JUN 18 AM 10:51 RECEIVED EMSL CINNAMINSON, NJ
GTA-14	47 mm		14,474	6-15-13 17:06	PAM-2	
GTA-15	47 mm		14,312	6-15-13 17:20 17:22	PAM-4	
GTA-16	47 mm		14,383	6-15-13 17:40 17:45	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/15/13	<i>[Signature]</i>	6/17/13
<i>[Signature]</i>	6/17/13	<i>[Signature]</i>	6/18/13 10A

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

(4)

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order:	041315751
CustomerID:	GTA51
CustomerPO:	
ProjectID:	

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/18/13 10:00 AM
 Analysis Date: 6/18/2013
 Collected: 6/14/2013

Project: 130467USA

Test Report: PM2.5 Analysis of Particulate Matter Performed by EPA Reference Method 40 CFR, Chapter 1, Part 50, Appendix L

Sample	Location	Volume (L)	Initial Weight (mg)	Final Weight (mg)	Sample Weight (mg)	Concentration (µg/m³)	Reporting Limit (µg/m³)	Notes
GTA-9 041315751-0001	PAM-1	14300	19.385	19.769	0.384	26.853	0.140	
GTA-10 041315751-0002	PAM-2	14575	20.984	21.118	0.134	9.194	0.137	
GTA-11 041315751-0003	PAM-4	14423	21.212	21.275	0.063	4.368	0.139	
GTA-12 041315751-0004	PAM-6	14626	19.615	19.713	0.098	6.700	0.137	Filter torn

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s) _____

Shane Feret (4)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Report Amended: 06/19/2013 10:25:58 Replaces the Inital Report 06/19/2013 10:12:38. Reason Code: Data Entry-Results Changed for GTA-9



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041315751

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041315751

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395				U.S. State where Samples Collected: Maryland	
Project Name: 130467USA			U.S. State where Samples Collected: Maryland		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47mm, via PM2.5 Impact Sampler	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
GTA-9	47 mm	Cr VI OSHA 215 Particulates (From PM2.5 Impact Sampler)	14,300	6-14-13	17:00	PAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUN 18 AM 10:47
GTA-10	47 mm		14,575	6-14-13	17:20	PAM-2	
GTA-11	47 mm		14,423	6-14-13	17:45	PAM-4	
GTA-12	47 mm		14,626	6-14-13	18:08	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/15/13	<i>[Signature]</i>	6/17/13
<i>[Signature]</i>	6/17/13	<i>[Signature]</i> FX	6/18/13 10A

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

4

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order:	041315877
CustomerID:	GTA51
CustomerPO:	
ProjectID:	

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 10:40 AM
 Analysis Date: 6/20/2013
 Collected: 6/8/2013

Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249521		15192	0.138	0.009	0.003	
<i>041315877-0001</i>						
249546		15006	0.125	0.008	0.003	
<i>041315877-0002</i>						
249506		14801	0.143	0.010	0.003	
<i>041315877-0003</i>						
249505		15027	0.144	0.010	0.003	
<i>041315877-0004</i>						
249538		14934	0.129	0.009	0.003	
<i>041315877-0005</i>						
249504		14903	0.161	0.011	0.003	
<i>041315877-0006</i>						
249508		15230	0.140	0.009	0.003	
<i>041315877-0007</i>						

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s) _____

Shane Feret (7)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/20/2013 14:36:09



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041315877

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtacng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: <u>ZEPON 7P53P</u>						Lot #: <u>28127 (301 - 400)</u>

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249521	5.0µ PVC	Cr VI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	15.192	6/8/13 16:45	1	(Samplers were not collected in welding, or painting environments.) JUN 11 2013 AM 11:27 STEVENSON, NJ
249546			15.006	16:50	2	
249506			14.801	16:55	3	
249505			15.027	17:00	4	
249538			14.934	17:06	5	
249504			14.903	17:13	6	
249508			15.230	17:20	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>[Signature]</u>	6/18/13	<u>[Signature]</u>	6/18/13 10:40

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

7

041315877



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/20/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/17/2013. The results are tabulated on the attached data pages for the following client designated project:

130467 USA

The reference number for these samples is EMSL Order #011302641. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302641
 CustomerID: GTA51
 CustomerPO: 041315471
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/17/13 9:00 AM
 Collected: 6/12/2013

Project: 130467 USA

Analytical Results

Client Sample Description GTA-1
 PAM-1 **Collected:** 6/12/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0014	0.00069	µg/m ³	6/19/2013	MM	6/20/2013	MM

Client Sample Description GTA-2
 PAM-2 **Collected:** 6/12/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0021	0.00065	µg/m ³	6/19/2013	MM	6/20/2013	MM

Client Sample Description GTA-3
 PAM-4 **Collected:** 6/12/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00067	µg/m ³	6/19/2013	MM	6/20/2013	MM

Client Sample Description GTA-4
 PAM-6 **Collected:** 6/12/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0018	0.00065	µg/m ³	6/19/2013	MM	6/20/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY-PRODUCTS-TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302641

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302641

Report To Contact Name: <u>Sam Stevenson</u>			Bill To Company: <u>Geo-Technology Associates, Inc.</u>		
Company Name: <u>Geo-Technology Associates, Inc.</u>			Attention To: <u>Sam Stevenson</u>		
Street: <u>14280 Park Center Drive</u>			Street: <u>14280 Park Center Drive</u>		
City: <u>Laurel</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>Laurel</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>410-792-9446</u> Fax:			Phone: <u>410-792-9446</u> Fax:		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected:		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaeng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: <u>47 mm</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #:
							Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
① GTA-1	↑	Cr VI OSHA 215/	14,400	6/12/13 15:53	PAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUN 14 PM 12:18
② GTA-2	47 mm	TOTAL PARTICULATES	15,319	↓ 16:22	PAM-2	
③ GTA-3	↓	NIOSH (all	14,847	↓ 16:54	PAM-4	
④ GTA-4	↓	0500 samples)	15,390	↓ 17:35	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>[Signature]</u>	6/13/13	<u>[Signature]</u>	6/13/13
<u>[Signature]</u>	6/13/13	<u>Travis Allert</u>	6/17/13

Comments: Approved to run both analyses from one filter.
Samples were not collected from a welding, plating, or painting environment.

4



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/20/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/17/2013. The results are tabulated on the attached data pages for the following client designated project:

130467 USA

The reference number for these samples is EMSL Order #011302645. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302645
 CustomerID: GTA51
 CustomerPO: 041315635
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/17/13 5:30 PM
 Collected: 6/13/2013

Project: 130467 USA

Analytical Results

Client Sample Description GTA-5
 PAM-1 **Collected:** 6/13/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0018	0.00045	µg/m ³	6/19/2013	MM	6/20/2013	MM

Client Sample Description GTA-6
 PAM-2 **Collected:** 6/13/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0029	0.00060	µg/m ³	6/19/2013	MM	6/20/2013	MM

Client Sample Description GTA-7
 PAM-4 **Collected:** 6/13/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0029	0.00060	µg/m ³	6/19/2013	MM	6/20/2013	MM

Client Sample Description GTA-8
 PAM-6 **Collected:** 6/13/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0027	0.00065	µg/m ³	6/19/2013	MM	6/20/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302645

200 Route 130 North

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone: 410-792-9446		Fax:	Phone: 410-792-9446		Fax:
Project Name: 130467USA				U.S. State where Samples Collected: MD	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47 mm
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #:
						Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
① GTA-5	47 mm	CrVI (OSHA 215) and Particulates (NIOSH 0500)	22,376	6/13/13 17:10	PAM-1	
② GTA-6	↓	↓	16,677	17:45	PAM-2	
③ GTA-7	↓	↓	15,402	18:04	PAM-4	
④ GTA-8	↓	↓	15,975	18:28	PAM-6	

RECEIVED
EMSL
CINNAMINSON, NJ
13 JUN 17 AM 9:48

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Fred Ann</i>	6/14/13	<i>Travis Allet</i> 23°C	6/17/13 5:30pm

Comments:
OK to analyze for both CrVI and particulates from the same filter. Samples were not collected from a welding, plating, or painting environment.

4

011302645



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/21/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/19/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302677. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302677
CustomerID: GTA51
CustomerPO: 041315470
ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
Fax: (410) 792-7395
Received: 06/19/13 9:00 AM
Collected: 6/11/2013

Project: 130467USA

Analytical Results

Client Sample Description 249517 OSAM-2 **Collected:** 6/11/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00073	µg/m ³	6/20/2013	MM	6/20/2013	MM

Client Sample Description 249501 OSAM-3 **Collected:** 6/11/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00091	0.00071	µg/m ³	6/20/2013	MM	6/20/2013	MM

Client Sample Description 249487 PAM-1 **Collected:** 6/11/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0026	0.00068	µg/m ³	6/20/2013	MM	6/20/2013	MM

Client Sample Description 249455 PAM-2 **Collected:** 6/11/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00076	0.00068	µg/m ³	6/20/2013	MM	6/20/2013	MM

Client Sample Description 249496 PAM-3 **Collected:** 6/11/2013 **Lab ID:** 0005

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00067	µg/m ³	6/20/2013	MM	6/20/2013	MM

Client Sample Description 249486 PAM-4 **Collected:** 6/11/2013 **Lab ID:** 0006

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0014	0.00069	µg/m ³	6/20/2013	MM	6/20/2013	MM

Client Sample Description 249463 PAM-5 **Collected:** 6/11/2013 **Lab ID:** 0007

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0014	0.00068	µg/m ³	6/20/2013	MM	6/20/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302677
 CustomerID: GTA51
 CustomerPO: 041315470
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 9:00 AM
 Collected: 6/11/2013

Project: 130467USA

Analytical Results

Client Sample Description 249468 **Collected:** 6/11/2013 **Lab ID:** 0008
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00064	µg/m ³	6/20/2013	MM	6/21/2013	MM

Client Sample Description 249467 **Collected:** 6/11/2013 **Lab ID:** 0009
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0071	0.00065	µg/m ³	6/20/2013	MM	6/21/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

OU302677

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395		Phone : (410) 792-9446		Fax : (410) 792-7395	
Project Name: 130467USA			U.S. State where Samples Collected: Maryland		
Number of Samples in Shipment:		Date of Shipment:		Purchase Order:	
Number of Samples in Shipment:		Date of Shipment:		Sampled By (Signature):	
Please Provide results: <input type="checkbox"/> Fax <input type="checkbox"/> Email <input type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (301 - 400)	

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
249517	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	13,698	6/11/13 15:13	OSAM-2	13 JUN 14 PM 12:19 RECEIVED EMSL CINNAMINSON, NJ
249501	5.0 µ PVC		14,000	6/11/13 15:35	OSAM-3	
249487	5.0 µ PVC		14,770	6/11/13 15:53	PAM-1	
249455	5.0 µ PVC		14,759	6/11/13 16:10	PAM-2	
249496	5.0 µ PVC		14,840	6/11/13 16:17	PAM-3	
249486	5.0 µ PVC		14,581	6/11/13 16:24	PAM-4	
249463	5.0 µ PVC		14,643	6/11/13 16:40	PAM-5	
249468	5.0 µ PVC		15,722	6/11/13 16:48	PAM-6	
249467	5.0 µ PVC		15,336	6/11/13 17:02	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/13/13	<i>[Signature]</i>	6/13/13
<i>[Signature]</i>	6/13/13	<i>[Signature]</i> Ivarin Albert 23°C	6/19/13 9:00AM

Comments: *Client approval granted to run OSHA 215 and NIOSH 0500 from same sample cassette. Samples were not collected from a welding, plating or painting environment.

19

011302677



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/21/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/19/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302678. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302678
 CustomerID: GTA51
 CustomerPO: 041315468
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 9:00 AM
 Collected: 6/12/2013

Project: 130467USA

Analytical Results

Client Sample Description 249495 **Collected:** 6/12/2013 **Lab ID:** 0001
 OSAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0021	0.00067	µg/m ³	6/20/2013	MM	6/21/2013	MM

Client Sample Description 249537 **Collected:** 6/12/2013 **Lab ID:** 0002
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0015	0.00068	µg/m ³	6/20/2013	MM	6/21/2013	MM

Client Sample Description 249477 **Collected:** 6/12/2013 **Lab ID:** 0003
 OSAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00067	µg/m ³	6/20/2013	MM	6/21/2013	MM

Client Sample Description 249529 **Collected:** 6/12/2013 **Lab ID:** 0004
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0015	0.00068	µg/m ³	6/20/2013	MM	6/21/2013	MM

Client Sample Description 249500 **Collected:** 6/12/2013 **Lab ID:** 0005
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00069	µg/m ³	6/20/2013	MM	6/21/2013	MM

Client Sample Description 249474 **Collected:** 6/12/2013 **Lab ID:** 0006
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0053	0.00067	µg/m ³	6/20/2013	MM	6/21/2013	MM

Client Sample Description 249484 **Collected:** 6/12/2013 **Lab ID:** 0007
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0023	0.00065	µg/m ³	6/20/2013	MM	6/21/2013	MM

**EMSL Analytical, Inc.**

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 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302678
 CustomerID: GTA51
 CustomerPO: 041315468
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 9:00 AM
 Collected: 6/12/2013

Project: 130467USA

Analytical Results

Client Sample Description 249465 **Collected:** 6/12/2013 **Lab ID:** 0008
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0023	0.00066	µg/m ³	6/20/2013	MM	6/21/2013	MM

Client Sample Description 249466 **Collected:** 6/12/2013 **Lab ID:** 0009
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0040	0.00064	µg/m ³	6/20/2013	MM	6/21/2013	MM

Client Sample Description 249457 **Collected:** 6/12/2013 **Lab ID:** 0010
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0052	0.00065	µg/m ³	6/20/2013	MM	6/21/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):
011302678

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302678

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395		Phone : (410) 792-9446		Fax : (410) 792-7395	
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:		Purchase Order:	
Sampled By (Signature):		Sampled By (Signature):			
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (301 - 400)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
① 249495	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,832	6/12/13 15:02	OSAM-1	
② 249537	5.0 µ PVC		14,759	6/12/13 15:20	OSAM-2	
③ 249477	5.0 µ PVC		14,976	6/12/13 15:35	OSAM-3	
④ 249529	5.0 µ PVC		14,760	6/12/13 15:53	PAM-1	
⑤ 249500	5.0 µ PVC		14,447	6/12/13 16:22	PAM-2	
⑥ 249474	5.0 µ PVC		14,921	6/12/13 16:47	PAM-3	
⑦ 249484	5.0 µ PVC		15,509	6/12/13 16:54	PAM-4	
⑧ 249465	5.0 µ PVC		15,147	6/12/13 17:25	PAM-5	
⑨ 249466	5.0 µ PVC		15,614	6/12/13 17:35	PAM-6	
⑩ 249457	5.0 µ PVC		15,444	6/12/13 17:50	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/13/13	<i>[Signature]</i>	6/13/13
<i>[Signature]</i>	6/13/13	<i>[Signature]</i>	6/19/13 9:00 AM
		23°C	

Comments: *Client approval granted to run OSHA 215 and NIOSH 0500 from same sample cassette. Samples were not collected from a welding, plating or painting environment.

10

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041315758

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/18/13 10:00 AM
 Analysis Date: 6/21/2013
 Collected: 6/15/2013

Project: 130467-USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249456 041315758-0001	OSAM-1	15172	0.358	0.024	0.003	
249481 041315758-0002	OSAM-2	14867	0.228	0.015	0.003	
249489 041315758-0003	OSAM-3	14650	0.307	0.021	0.003	
249471 041315758-0004	PAM-1	14484	0.266	0.018	0.003	
249452 041315758-0005	PAM-2	14617	0.271	0.019	0.003	
249461 041315758-0006	PAM-3	13438	0.370	0.028	0.004	
249453 041315758-0007	PAM-4	14453	0.273	0.019	0.003	
249499 041315758-0008	PAM-5	14626	0.180	0.012	0.003	
249482 041315758-0009	PAM-6	14312	0.204	0.014	0.003	
249450 041315758-0010	PAM-7	14626	0.304	0.021	0.003	
249479 041315758-0011	PAM-1	0	<0.05	N/A	N/A	Field Blank

Analyst(s)

Shane Feret (11)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 06/21/2013 12:22:43



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041315758
CustomerID: GTA51
CustomerPO:
ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
Fax: (410) 792-7395
Received: 06/18/13 10:00 AM
Analysis Date: 6/21/2013
Collected: 6/15/2013

Project: 130467-USA

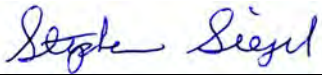
**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
8/15/94**

<i>Sample</i>	<i>Location</i>	<i>Volume (L)</i>	<i>Sample Weight (mg)</i>	<i>Concentration (mg/m³)</i>	<i>Reporting Limit (mg/m³)</i>	<i>Notes</i>
---------------	-----------------	-----------------------	-------------------------------	---	---	--------------

Notes: Discernable field blank submitted with samples.
Results are not field blank corrected.

Analyst(s)

Shane Feret (11)



Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 06/21/2013 12:22:43



EMSL ANALYTICAL, INC.
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Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041315758

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395				Fax : (410) 792-7395	
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:		Purchase Order:	
				Sampled By (Signature):	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 28127 (301 - 400)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249456	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	15.172	6/15/13	15:35	OSAM-1	13 JUN 18 AM 10:52 CINNAMINSON, NJ EMSL
249481	5.0 µ PVC		14.867	6/15/13	15:49	OSAM-2	
249489	5.0 µ PVC		14.650	6/15/13	16:05	OSAM-3	
249471	5.0 µ PVC		14.484	6/15/13	16:40	PAM-1	
249452	5.0 µ PVC		14.617	6/15/13	17:06	PAM-2	
249461	5.0 µ PVC		13.438	6/15/13	17:17	PAM-3	
249453	5.0 µ PVC		14.453	6/15/13	17:22	PAM-4	
249499	5.0 µ PVC		14.626	6/15/13	17:40	PAM-5	
249482	5.0 µ PVC		14.312	6/15/13	17:45	PAM-6	
249450	5.0 µ PVC		14.626	6/15/13	19:00	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-15-13	<i>[Signature]</i>	6/17/13
<i>[Signature]</i>	6/17/13	<i>[Signature]</i>	6/18/13 10A
		FX	

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

11

041315758



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/24/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/19/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302673. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302673

CustomerID: GTA51

CustomerPO: 041315632

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 9:45 AM
 Collected: 6/13/2013

Project: 130467USA

Analytical Results

Client Sample Description 249488 **Collected:** 6/13/2013 **Lab ID:** 0001
 OSAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0046	0.00068	µg/m ³	6/19/2013	MM	6/21/2013	MM

Client Sample Description 249494 **Collected:** 6/13/2013 **Lab ID:** 0002
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	6/19/2013	MM	6/21/2013	MM

Client Sample Description 249475 **Collected:** 6/13/2013 **Lab ID:** 0003
 OSAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00069	µg/m ³	6/19/2013	MM	6/21/2013	MM

Client Sample Description 249464 **Collected:** 6/13/2013 **Lab ID:** 0004
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00063	µg/m ³	6/19/2013	MM	6/21/2013	MM

Client Sample Description 249491 **Collected:** 6/13/2013 **Lab ID:** 0005
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0035	0.00068	µg/m ³	6/19/2013	MM	6/21/2013	MM

Client Sample Description 249497 **Collected:** 6/13/2013 **Lab ID:** 0006
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0031	0.00065	µg/m ³	6/19/2013	MM	6/21/2013	MM

Client Sample Description 249492 **Collected:** 6/13/2013 **Lab ID:** 0007
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00097	0.00065	µg/m ³	6/19/2013	MM	6/21/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302673
 CustomerID: GTA51
 CustomerPO: 041315632
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 9:45 AM
 Collected: 6/13/2013

Project: 130467USA

Analytical Results

Client Sample Description 249476 **Collected:** 6/13/2013 **Lab ID:** 0008
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00066	µg/m ³	6/19/2013	MM	6/21/2013	MM

Client Sample Description 249493 **Collected:** 6/13/2013 **Lab ID:** 0009
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00064	µg/m ³	6/19/2013	MM	6/21/2013	MM

Client Sample Description 249485 **Collected:** 6/13/2013 **Lab ID:** 0010
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00064	µg/m ³	6/19/2013	MM	6/21/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS-TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302673

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (301 - 400)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249488	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,822	6/13/13	15:02	OSAM-1	
249494	5.0 µ PVC		14,709	6/13/13	15:15	OSAM-2	
249475	5.0 µ PVC		14,565	6/13/13	15:30	OSAM-3	
249464	5.0 µ PVC		15,777	6/13/13	17:10	PAM-1	
249491	5.0 µ PVC		14,773	6/13/13	17:45	PAM-2	
249497	5.0 µ PVC		15,382	6/13/13	18:00	PAM-3	
249492	5.0 µ PVC		15,327	6/13/13	18:04	PAM-4	
249476	5.0 µ PVC		15,140	6/13/13	18:24	PAM-5	
249493	5.0 µ PVC		15,527	6/13/13	18:28	PAM-6	
249485	5.0 µ PVC		15,527	6/13/13	18:43	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Tanner P...</i>	6/17/13	<i>[Signature]</i>	6/19/13 0945

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

10



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/24/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/19/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302674. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302674

CustomerID: GTA51

CustomerPO: 041315755

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 9:45 AM
 Collected: 6/16/2013

Project: 130467USA

Analytical Results

Client Sample Description 249459 **Collected:** 6/16/2013 **Lab ID:** 0001
 OSAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0033	0.00069	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249577 **Collected:** 6/16/2013 **Lab ID:** 0002
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0025	0.00069	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249591 **Collected:** 6/16/2013 **Lab ID:** 0003
 OSAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0025	0.00067	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249480 **Collected:** 6/16/2013 **Lab ID:** 0004
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0033	0.00068	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249593 **Collected:** 6/16/2013 **Lab ID:** 0005
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0037	0.00068	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249473 **Collected:** 6/16/2013 **Lab ID:** 0006
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0039	0.00068	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249498 **Collected:** 6/16/2013 **Lab ID:** 0007
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0030	0.00068	µg/m ³	6/20/2013	MM	6/22/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order:	011302674
CustomerID:	GTA51
CustomerPO:	041315755
ProjectID:	

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 9:45 AM
 Collected: 6/16/2013

Project: 130467USA

Analytical Results

Client Sample Description 249584 **Collected:** 6/16/2013 **Lab ID:** 0008
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0029	0.00068	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249585 **Collected:** 6/16/2013 **Lab ID:** 0009
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0026	0.00068	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249565 **Collected:** 6/16/2013 **Lab ID:** 0010
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0032	0.00068	µg/m ³	6/20/2013	MM	6/22/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
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Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302674
091315755

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (301 - 500)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249459	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,544	6/16/13	15:35	OSAM-1	JUN 18 AM 10:50 RECEIVED EMSL CINNAMINSON, NJ
249577	5.0 µ PVC		14,462	6/16/13	15:48	OSAM-2	
249591	5.0 µ PVC		14,832	6/16/13	16:05	OSAM-3	
249480	5.0 µ PVC		14,688	6/16/13	16:40	PAM-1	
249513	5.0 µ PVC		14,697	6/16/13	16:46	PAM-2	
249473	5.0 µ PVC		14,768	6/16/13	16:57	PAM-3	
249498	5.0 µ PVC		14,697	6/16/13	17:02	PAM-4	
249584	5.0 µ PVC		14,626	6/16/13	17:20	PAM-5	
249585	5.0 µ PVC		14,626	6/16/13	17:25	PAM-6	
249565	5.0 µ PVC		14,626	6/16/13	17:40	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-17-13	<i>[Signature]</i>	6/17/13
<i>[Signature]</i>	6/17/13	<i>[Signature]</i>	6/18/13 10A
		<i>[Signature]</i>	6/19/13 0945

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

10

011302674



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/24/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/19/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302680. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302680

CustomerID: GTA51

CustomerPO: 041315754

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 9:00 AM
 Collected: 6/14/2013

Project: 130467USA

Analytical Results

Client Sample Description 249483 **Collected:** 6/14/2013 **Lab ID:** 0001
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0014	0.00068	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249460 **Collected:** 6/14/2013 **Lab ID:** 0002
 OSAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00075	0.00068	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249458 **Collected:** 6/14/2013 **Lab ID:** 0003
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00069	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249478 **Collected:** 6/14/2013 **Lab ID:** 0004
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0032	0.00069	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249472 **Collected:** 6/14/2013 **Lab ID:** 0005
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0026	0.00070	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249469 **Collected:** 6/14/2013 **Lab ID:** 0006
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00069	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249470 **Collected:** 6/14/2013 **Lab ID:** 0007
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	6/20/2013	MM	6/22/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302680
 CustomerID: GTA51
 CustomerPO: 041315754
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 9:00 AM
 Collected: 6/14/2013

Project: 130467USA

Analytical Results

Client Sample Description 249490 **Collected:** 6/14/2013 **Lab ID:** 0008
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0025	0.00068	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249462 **Collected:** 6/14/2013 **Lab ID:** 0009
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0040	0.00069	µg/m ³	6/20/2013	MM	6/22/2013	MM

Client Sample Description 249454 **Collected:** **Lab ID:** 0010
 Media Blank

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	6/20/2013	MM	6/22/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
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Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only): 011302680
071315754 TA

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302680

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 28127 (301 - 400)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249483	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,781	6/14/13	15:17	OSAM-2	RECEIVED EMSL CINNAMINSON, NJ 13 JUN 18 AM 10:49
249483	5.0 µ PVC		14,781	6/14/13	15:17	OSAM-2	
249460	5.0 µ PVC		14,645	6/14/13	15:40	OSAM-3	
249458	5.0 µ PVC		14,515	6/14/13	17:00	PAM-1	
249478	5.0 µ PVC		14,575	6/14/13	17:20	PAM-2	
249472	5.0 µ PVC		14,221	6/14/13	17:35	PAM-3	
249469	5.0 µ PVC		14,565	6/14/13	17:45	PAM-4	
249470	5.0 µ PVC		14,514	6/14/13	18:00	PAM-5	
249490	5.0 µ PVC		14,697	6/14/13	18:08	PAM-6	
249462	5.0 µ PVC		14,595	6/14/13	18:20	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/15/13	<i>[Signature]</i>	6/17/13
<i>[Signature]</i>	6/17/13	<i>[Signature]</i>	6/18/13 10A
		<i>[Signature]</i> 23°C	6/19/13 9:00AM

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

(10)

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041315875

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 10:40 AM
 Analysis Date: 6/21/2013
 Collected: 6/17/2013

Project: 130467USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249574		14616	0.213	0.015	0.003	
<i>041315875-0001</i>						
249592		14452	0.221	0.015	0.003	
<i>041315875-0002</i>						
249572		14832	0.312	0.021	0.003	
<i>041315875-0003</i>						
249586		14616	0.238	0.016	0.003	
<i>041315875-0004</i>						
249580		14853	0.185	0.012	0.003	
<i>041315875-0005</i>						
249588		14801	0.200	0.014	0.003	
<i>041315875-0006</i>						
249598		14822	0.063	0.004	0.003	
<i>041315875-0007</i>						
249596		14781	0.214	0.014	0.003	
<i>041315875-0008</i>						
249553		14791	0.273	0.018	0.003	
<i>041315875-0009</i>						
249597		14698	0.158	0.011	0.003	
<i>041315875-0010</i>						
249583		0	<0.05	N/A	N/A	Field Blank
<i>041315875-0011</i>						

Analyst(s)

*Shane Feret (11)*Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/24/2013 10:23:37



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041315875
CustomerID: GTA51
CustomerPO:
ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
Fax: (410) 792-7395
Received: 06/19/13 10:40 AM
Analysis Date: 6/21/2013
Collected: 6/17/2013

Project: 130467USA

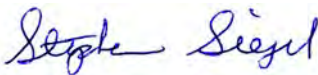
**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
8/15/94**

<i>Sample</i>	<i>Location</i>	<i>Volume (L)</i>	<i>Sample Weight (mg)</i>	<i>Concentration (mg/m³)</i>	<i>Reporting Limit (mg/m³)</i>	<i>Notes</i>
---------------	-----------------	-----------------------	-------------------------------	---	---	--------------

Notes: Discernable field blank submitted with samples.
Results are not field blank corrected.

Analyst(s)

Shane Feret (11)



Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/24/2013 10:23:37



EMSL ANALYTICAL, INC.
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Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041315875

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 28127 (301 - 500)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249574	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,616	6/17/13	15:35	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUN 19 AM 11:31
249592	5.0 µ PVC		14,452	6/17/13	15:50	OSAM-2	
249572	5.0 µ PVC		14,832	6/17/13	16:05	OSAM-3	
249586	5.0 µ PVC		14,616	6/17/13	16:40	PAM-1	
249580	5.0 µ PVC		14,853	6/17/13	16:48	PAM-2	
249588	5.0 µ PVC		14,801	6/17/13	16:54	PAM-3	
249598	5.0 µ PVC		14,822	6/17/13	17:01	PAM-4	
249596	5.0 µ PVC		14,781	6/17/13	17:15	PAM-5	
249553	5.0 µ PVC		14,791	6/17/13	17:21	PAM-6	
249597	5.0 µ PVC		14,698	6/17/13	17:27	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-18-13	<i>[Signature]</i>	6/18/13
<i>[Signature]</i>	6/18/13	<i>[Signature]</i>	6/19/13 10:40

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

11

041315875



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/24/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/19/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302682. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302682
 CustomerID: GTA51
 CustomerPO: 041315742
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 9:00 AM
 Collected: 6/15/2013

Project: 130467USA

Analytical Results

Client Sample Description GTA-13
PAM-1 **Collected:** 6/15/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00070	µg/m ³	6/21/2013	MM	6/21/2013	MM

Client Sample Description GTA-14
PAM-2 **Collected:** 6/15/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0018	0.00069	µg/m ³	6/21/2013	MM	6/21/2013	MM

Client Sample Description GTA-15
PAM-4 **Collected:** 6/15/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00070	µg/m ³	6/21/2013	MM	6/21/2013	MM

Client Sample Description GTA-16
PAM-6 **Collected:** 6/15/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00091	0.00070	µg/m ³	6/21/2013	MM	6/21/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only): 011302682

041315742 TA

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47mm, via PM2.5 Impact Sampler	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
① GTA-13	47 mm	Cr VI OSHA 215 Particulates (From PM2.5 Impact Sampler)	14200	6-15-13 16:40 16:40	PAM-1	13 JUN 18 AM 10:51 RECEIVED EMSL CINNAMINSON, NJ
② GTA-14	47 mm		14974	6-15-13 17:06	PAM-2	
③ GTA-15	47 mm		14312	6-15-13 17:20 17:22	PAM-4	
④ GTA-16	47 mm		14383	6-15-13 17:45 17:45	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/15/13	<i>[Signature]</i>	6/17/13
<i>[Signature]</i>	6/17/13	<i>[Signature]</i>	6/18/13 10A
		<i>[Signature]</i> 23°C	6/19/13 9:00AM

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

④

011302682



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/24/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/19/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302685. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302685
 CustomerID: GTA51
 CustomerPO: 041315751
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 9:00 AM
 Collected: 6/14/2013

Project: 130467USA

Analytical Results

Client Sample Description GTA-9
 PAM-1 **Collected:** 6/14/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00070	µg/m ³	6/21/2013	MM	6/21/2013	MM

Client Sample Description GTA-10
 PAM-2 **Collected:** 6/14/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00069	µg/m ³	6/21/2013	MM	6/21/2013	MM

Client Sample Description GTA-11
 PAM-4 **Collected:** 6/14/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00069	µg/m ³	6/21/2013	MM	6/21/2013	MM

Client Sample Description GTA-12
 PAM-6 **Collected:** 6/14/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00068	µg/m ³	6/21/2013	MM	6/21/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only): 01302685

041315751A

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47mm, via PM2.5 Impact Sampler	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① GTA-9	47 mm	Cr VI OSHA 215	14,300	6-14-13	17:00	PAM-1	RECEIVED EMSL CINNAMINSON, NJ 1 JUN 18 AM 10:47
② GTA-10	47 mm		14,575	6-14-13	17:20	PAM-2	
③ GTA-11	47 mm		14,423	6-14-13	17:45	PAM-4	
④ GTA-12	47 mm		14,626	6-14-13	18:08	PAM-6	
		Particulates (From PM2.5 Impact Sampler)					

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/15/13	<i>[Signature]</i>	6/17/13
<i>[Signature]</i>	6/17/13	<i>[Signature]</i> Fx	6/18/13 10A
		<i>[Signature]</i> 23°C	6/19/13 9:00AM

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

④

011302685

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041315871

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/19/13 10:40 AM
 Analysis Date: 6/24/2013
 Collected: 6/7/2013

Project: 130467 USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249523		12874	0.078	0.006	0.004	
<i>041315871-0001</i>						
249549		14288	0.371	0.026	0.003	
<i>041315871-0002</i>						
249502		14603	0.123	0.008	0.003	
<i>041315871-0003</i>						
249547		14350	0.242	0.017	0.003	
<i>041315871-0004</i>						
249528		14471	<0.05	<0.003	0.003	Initial weight error
<i>041315871-0005</i>						
249503		14717	0.106	0.007	0.003	
<i>041315871-0006</i>						
249518		14472	0.248	0.017	0.003	
<i>041315871-0007</i>						

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

*Shane Feret (7)*Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Report Amended: 06/25/2013 10:37:21 Replaces the Initial Report 06/24/2013 15:41:58. Reason Code: QA\QC-Comment Change



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041315871

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtacng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: ZEEFN 7P53P						Lot #: 28127 (301 - 400)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249523	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	12,874	6/7/13 16:45	1	(Samples were not collected welding, plating or painting environments.)
249549			14,288	16:54	2	
249502			14,603	16:58	3	
249547			14,400 350	17:02	4	
249528			14,471	17:10	5	
249503			14,717	17:20	6	
249518			14,472	17:30	7	

RECEIVED
EMSL
CINNAMINSON, NJ
13 JUN 19 AM 11:50

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <i>[Signature]</i>	Date: 6/18/13	Received By: <i>[Signature]</i>	Date: 6/18/13 10:40
---------------------------------	----------------------	---------------------------------	----------------------------

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



041315871

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041316208
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/21/13 9:20 AM
 Analysis Date: 6/25/2013
 Collected: 5/26/2013

Project: 130467-USA

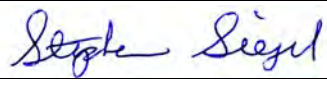
**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
 8/15/94**

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249698 041316208-0001	PAM-1	15480	0.090	0.006	0.003	
249655 041316208-0002	PAM-2	15306	0.121	0.008	0.003	
249666 041316208-0003	PAM-3	15584	0.156	0.010	0.003	
249684 041316208-0004	PAM-4	15419	0.098	0.006	0.003	
249651 041316208-0005	PAM-5	15285	0.089	0.006	0.003	
249653 041316208-0006	PAM-6	15224	0.217	0.014	0.003	
249656 041316208-0007	PAM-7	15028	0.140	0.009	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (7)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 06/25/2013 12:11:33



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316208

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041316208

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaceng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: ZEPDM 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (201 - 300)

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249698	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15,480	5/25/13 18:00	1	
249655			15,306	18:08	2	
249666			15,584	18:13	3	
249684			15,419	18:19	4	
249651			15,285	18:28	5	
249653			15,224	18:35	6	
249656			15,028	18:45	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W. Chung</i>	5/29/13	<i>Scott W. Chung</i>	5/29/13
	6/20/13	<i>DMR-920A</i>	6-21-13

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/26/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/20/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302729. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302729

CustomerID: GTA51

CustomerPO: 041315877

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/20/13 9:00 AM
 Collected: 6/8/2013

Project: 130467USA

Analytical Results

Client Sample Description 249521
1
Collected: 6/8/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0010	0.00066	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249546
2
Collected: 6/8/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00067	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249506
3
Collected: 6/8/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00085	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249505
4
Collected: 6/8/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00067	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249538
5
Collected: 6/8/2013 **Lab ID:** 0005

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00077	0.00067	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249504
6
Collected: 6/8/2013 **Lab ID:** 0006

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00067	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249508
7
Collected: 6/8/2013 **Lab ID:** 0007

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00066	µg/m ³	6/24/2013	WF	6/25/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302729

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON
 Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.
 Street: 14280 PARK CENTER DRIVE
 City: LAUREL State/Province: MD Zip/Postal Code: 20707
 Phone: (410) 792-9446 Fax: (410) 792-7395
 Project Name: 130467 USA
 Number of Samples in Shipment: _____ Date of Shipment: _____
 Please Provide results: Fax Email Mail
 Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.
 2 Week 1 Week 4 Day 3 Day 2 Day 1 Day Other (Call Lab)
 Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.
 Attention To: SAM STEVENSON
 Street: 14280 PARK CENTER DRIVE
 City: LAUREL State/Province: MD Zip/Postal Code: 20707
 Phone: (410) 792-9446 Fax: (410) 792-7395
 U.S. State where Samples Collected: MARYLAND
 Purchased By (Signature): _____
 Email Results To: sstevenson@gtacng.com
 Media Type: 37mm, 3 PIECE CASSETTE
 Manufacturer/Part #: ZEFON 7P53P
 Lot #: 2B127 (301 - 400)

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
① 249521	5.0µ PVC	Cf-II OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15.192	6/8/13 16:45	1	Samplers were not collected in painting, welding, or painting environments. JESON, NJ AM 11:27
② 249546			15.006	16:50	2	
③ 249506			14.801	16:55	3	
④ 249505			15.027	17:00	4	
⑤ 249538			14.934	17:06	5	
⑥ 249504			14.903	17:13	6	
⑦ 249508			15.230	17:20	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <u>Toussaint Patrick</u>	Date: <u>6/18/13</u>	Received By: <u>Travis Albert</u>	Date: <u>6/18/13</u>
---------------------------------------	----------------------	-----------------------------------	----------------------

Comments: * CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE

1 of 1 pages

⑦

011302729



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/26/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/24/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302826. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302826
 CustomerID: GTA51
 CustomerPO: 041315871
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/24/13 3:00 PM
 Collected: 6/7/2013

Project: 130467USA

Analytical Results

Client Sample Description 249523
1 **Collected:** 6/7/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00078	µg/m ³	6/25/2013	MM	6/26/2013	MM

Client Sample Description 249549
2 **Collected:** 6/7/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0059	0.00070	µg/m ³	6/25/2013	MM	6/26/2013	MM

Client Sample Description 249502
3 **Collected:** 6/7/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0010	0.00069	µg/m ³	6/25/2013	MM	6/26/2013	MM

Client Sample Description 249547
4 **Collected:** 6/7/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0011	0.00070	µg/m ³	6/25/2013	MM	6/26/2013	MM

Client Sample Description 249528
5 **Collected:** 6/7/2013 **Lab ID:** 0005

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0033	0.00069	µg/m ³	6/25/2013	MM	6/26/2013	MM

Client Sample Description 249503
6 **Collected:** 6/7/2013 **Lab ID:** 0006

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	6/25/2013	MM	6/26/2013	MM

Client Sample Description 249518
7 **Collected:** 6/7/2013 **Lab ID:** 0007

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0034	0.00069	µg/m ³	6/25/2013	MM	6/26/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

**Industrial Hygiene
Chain of Custody**
EMSL Order Number (Lab Use Only):

011302826

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtacng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: <u>ZEFON 7P53P</u>						Lot #: <u>28127 (301 - 400)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
① 249523	5.0µ PVC	Cr VI OSHA 215/	12,874	6/7/13 16:45	1	(Samples were not collected welding, plating or painting environments.)
② 249549		TOTAL PARTICULATES	14,288	16:54	2	
③ 249502		NIOSH 0500	14,603	16:58	3	
④ 249547			14,410 350	17:02	4	
⑤ 249528			14,471	17:10	5	
⑥ 249503			14,717	17:20	6	
⑦ 249518			14,472	17:30	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>[Signature]</u>	6/18/13	<u>[Signature]</u>	6/18/13
		<u>[Signature]</u>	6/24/13 10:40
		<u>[Signature]</u>	6/24/13 3:00pm

23°C

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



011302826

13 JUN 19 AM 11:11
EMSL
CINNAMINSON

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041316211

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/21/13 9:20 AM
 Analysis Date: 6/25/2013
 Collected: 6/19/2013

Project: 130467-USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249556 041316211-0001	OSAM-1	14616	0.208	0.014	0.003	
249558 041316211-0002	OSAM-2	14605	0.193	0.013	0.003	
249590 041316211-0003	OSAM-3	15453	0.239	0.015	0.003	
249571 041316211-0004	PAM- 1	15225	0.062	0.004	0.003	
249587 041316211-0005	PAM- 2	15563	0.212	0.014	0.003	
249562 041316211-0006	PAM- 3	15825	0.135	0.009	0.003	
249570 041316211-0007	PAM- 4	15688	0.196	0.012	0.003	
249559 041316211-0008	PAM- 5	15810	0.152	0.010	0.003	
249573 041316211-0009	PAM- 6	15892	0.189	0.012	0.003	
249599 041316211-0010	PAM- 7	15898	0.096	0.006	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

Shane Feret (10)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/26/2013 10:11:53



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS-TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316211

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA			U.S. State where Samples Collected: Maryland		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 28127 (301 - 500)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249556	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,616	6/19/13	15:35	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUN 21 AM 11:23
249558	5.0 µ PVC		14,605	6/19/13	16:00	OSAM-2	
249590	5.0 µ PVC		15,453	6/19/13	17:00	OSAM-3	
249571	5.0 µ PVC		15,225	6/19/13	17:40	PAM-1	
249587	5.0 µ PVC		15,563	6/19/13	18:00	PAM-2	
249562	5.0 µ PVC		15,825	6/19/13	18:25	PAM-3	
249570	5.0 µ PVC		15,688	6/19/13	18:40	PAM-4	
249559	5.0 µ PVC		15,810	6/19/13	19:05	PAM-5	
249573	5.0 µ PVC		15,892	6/19/13	19:20	PAM-6	
249599	5.0 µ PVC		15,898	6/19/13	19:35	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-20-13	<i>[Signature]</i>	6/20/13
<i>[Signature]</i>	6/20/13	<i>[Signature]</i>	6-21-13
		DMB-EX-920A	

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

10

041316211

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order:	041316386
CustomerID:	GTA51
CustomerPO:	
ProjectID:	

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/24/13 8:50 AM
 Analysis Date: 6/25/2013
 Collected: 6/20/2013

Project: 130467USA

Test Report: PM2.5 Analysis of Particulate Matter Performed by EPA Reference Method 40 CFR, Chapter 1, Part 50, Appendix L

Sample	Location	Volume (L)	Initial Weight (mg)	Final Weight (mg)	Sample Weight (mg)	Concentration (µg/m³)	Reporting Limit (µg/m³)	Notes
GTA-17 041316386-0001	PAM-1	15675	20.818	21.059	0.241	15.375	0.128	
GTA-18 041316386-0002	PAM-2	15525	19.130	19.458	0.328	21.127	0.129	
GTA-19 041316386-0003	PAM-4	16295	21.357	21.818	0.461	28.291	0.123	
GTA-20 041316386-0004	PAM-6	15832	20.800	21.184	0.384	24.255	0.126	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s) _____

Shane Feret (4)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/26/2013 09:02:57



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316386

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47mm, via PM2.5 Impact Sampler	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
GTA-17	47 mm	Cr VI OSHA 215 Particulates (From PM2.5 Impact Sampler)	15,675	6-20-13	18:40	PAM-1	
GTA-18	47 mm		15,525	6-20-13	19:00	PAM-2	
GTA-19	47 mm		16,295	6-20-13	20:10	PAM-4	
GTA-20	47 mm		15,832	6-20-13	20:30	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/20/13	<i>[Signature]</i>	6/21/13
<i>[Signature]</i>	6/21/13	<i>[Signature]</i>	6/24/13 8:50

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

RECEIVED
EMSL
CINNAMINSON, NJ
PH 12:30

041316386



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/27/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/21/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302783. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302783
 CustomerID: GTA51
 CustomerPO: 041315875
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/21/13 5:00 PM
 Collected: 6/17/2013

Project: 130467USA

Analytical Results

Client Sample Description 249574 **Collected:** 6/17/2013 **Lab ID:** 0001
 OSAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249592 **Collected:** 6/17/2013 **Lab ID:** 0002
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00099	0.00069	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249572 **Collected:** 6/17/2013 **Lab ID:** 0003
 OSAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00067	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249586 **Collected:** 6/17/2013 **Lab ID:** 0004
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00068	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249580 **Collected:** 6/17/2013 **Lab ID:** 0005
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0053	0.00067	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249588 **Collected:** 6/17/2013 **Lab ID:** 0006
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0015	0.00068	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249598 **Collected:** 6/17/2013 **Lab ID:** 0007
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	6/24/2013	WF	6/25/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302783
 CustomerID: GTA51
 CustomerPO: 041315875
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/21/13 5:00 PM
 Collected: 6/17/2013

Project: 130467USA

Analytical Results

Client Sample Description 249596 **Collected:** 6/17/2013 **Lab ID:** 0008
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00068	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249553 **Collected:** 6/17/2013 **Lab ID:** 0009
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00068	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249597 **Collected:** 6/17/2013 **Lab ID:** 0010
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0018	0.00068	µg/m ³	6/24/2013	WF	6/25/2013	MM

Client Sample Description 249583 **Collected:** 6/17/2013 **Lab ID:** 0011
 Media Blank 1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	6/24/2013	WF	6/25/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

01302783

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302783

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.					Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 28127 (301 - 500)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① 249574	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,616	6/17/13	15:35	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ JUN 19 AM 11:31
② 249592	5.0 µ PVC		14,452	6/17/13	15:50	OSAM-2	
③ 249572	5.0 µ PVC		14,832	6/17/13	16:05	OSAM-3	
④ 249586	5.0 µ PVC		14,616	6/17/13	16:40	PAM-1	
⑤ 249580	5.0 µ PVC		14,853	6/17/13	16:48	PAM-2	
⑥ 249588	5.0 µ PVC		14,801	6/17/13	16:54	PAM-3	
⑦ 249598	5.0 µ PVC		14,822	6/17/13	17:01	PAM-4	
⑧ 249596	5.0 µ PVC		14,781	6/17/13	17:15	PAM-5	
⑨ 249553	5.0 µ PVC		14,791	6/17/13	17:21	PAM-6	
⑩ 249597	5.0 µ PVC		14,698	6/17/13	17:27	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-18-13	<i>[Signature]</i>	6/18/13
<i>[Signature]</i>	6/18/13	<i>[Signature]</i>	6/19/13 10:40
		Francis Allert	6/21/13 5:00pm
		23°C	

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

11

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041316203

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/21/13 9:20 AM
 Analysis Date: 6/26/2013
 Collected: 6/18/2013

Project: 130467-USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249578 041316203-0001	OSAM-1	14688	0.521	0.035	0.003	
249594 041316203-0002	OSAM-2	14584	0.147	0.010	0.003	
249575 041316203-0003	OSAM-3	14853	0.172	0.012	0.003	
249552 041316203-0004	PAM-1	14544	0.213	0.015	0.003	
249550 041316203-0005	PAM-2	14770	0.245	0.017	0.003	
249568 041316203-0006	PAM-3	14853	0.261	0.018	0.003	
249567 041316203-0007	PAM-4	14626	0.286	0.020	0.003	
249595 041316203-0008	PAM-5	14760	0.234	0.016	0.003	
249561 041316203-0009	PAM-6	14770	0.343	0.023	0.003	
249563 041316203-0010	PAM-7	14750	0.257	0.017	0.003	
249557 041316203-0011	PAM-1- FIELD BLANK	0	<0.05	N/A	N/A	Field Blank

Analyst(s)

Shane Feret (11)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 06/27/2013 12:22:37



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041316203
CustomerID: GTA51
CustomerPO:
ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
Fax: (410) 792-7395
Received: 06/21/13 9:20 AM
Analysis Date: 6/26/2013
Collected: 6/18/2013

Project: 130467-USA

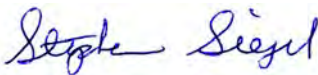
**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
8/15/94**

<i>Sample</i>	<i>Location</i>	<i>Volume (L)</i>	<i>Sample Weight (mg)</i>	<i>Concentration (mg/m³)</i>	<i>Reporting Limit (mg/m³)</i>	<i>Notes</i>
---------------	-----------------	-----------------------	-------------------------------	---	---	--------------

Notes: Discernable field blank submitted with samples.
Results are not field blank corrected.

Analyst(s)

Shane Feret (11)



Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/27/2013 12:22:37



EMSL ANALYTICAL, INC.
LABORATORY-PRODUCTS-TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041 316203

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (301 - 500)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249578	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,688	6/18/13	15:35	OSAM-1	1 JUN 21 AM 11:22 CINNAMINSON, NJ RECEIVED EMSL
249594	5.0 µ PVC		14,584	6/18/13	15:50	OSAM-2	
249575	5.0 µ PVC		14,853	6/18/13	16:05	OSAM-3	
249552	5.0 µ PVC		14,544	6/18/13	16:40	PAM-1	
249550	5.0 µ PVC		14,770	6/18/13	16:48	PAM-2	
249568	5.0 µ PVC		14,853	6/18/13	16:54	PAM-3	
249567	5.0 µ PVC		14,626	6/18/13	17:01	PAM-4	
249595	5.0 µ PVC		14,760	6/18/13	17:15	PAM-5	
249561	5.0 µ PVC		14,770	6/18/13	17:21	PAM-6	
249563	5.0 µ PVC		14,750	6/18/13	17:27	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-19-13	<i>[Signature]</i>	6/20/13
<i>[Signature]</i>	6/20/13	<i>[Signature]</i>	6-21-13

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

11

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041316219
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/21/13 9:20 AM
 Analysis Date: 6/25/2013
 Collected:

Project: 130467 USA

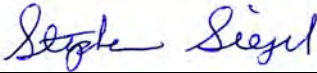
**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
 8/15/94**

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249694 041316219-0001	PAM 1	14256	0.067	0.005	0.004	
249676 041316219-0002	PAM 2	14268	0.146	0.010	0.004	
249697 041316219-0003	PAM 3	14330	0.106	0.007	0.003	
249667 041316219-0004	PAM 4	14360	0.124	0.009	0.003	
249664 041316219-0005	PAM 5	15211	0.286	0.019	0.003	
249699 041316219-0006	PAM 6	14852	0.095	0.006	0.003	
249665 041316219-0007	PAM 7	14617	0.148	0.010	0.003	
249685 041316219-0008	Field Blank	0	0.056	N/A	N/A	Field Blank

Notes: Discernable field blank submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (8)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 06/27/2013 12:09:23



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316219

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaceng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: ZEFDM 7P53P
						Lot #: 2B127 (201 - 300)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments	
249694	5.0µ PVC	Cr VI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	14.256	5/25/13	18:00	13 JUN 21 AM 11:24 CINNAMINSON, NJ EMSL TESTED	
249676			14.268	18:04	2 1		
249697			14.330	18:10	3 2		
249667			14.360	18:18	4 3		
249664			15.211	18:26	5 4		
249699			14.852	18:32	6 5		
249665			14.617	18:40	7 6		
249685					18:00		FIELD BLANK 1

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Terrence Robinson</i>	5/29/13	<i>Scott W. Cummins</i>	5/29/13
<i>Scott W. Cummins</i>	6/20/13	<i>OTMD-RX-920A</i>	6-21-13

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

* SAMPLES WERE NOT COLLECTED FROM A PLATING, WELDING, OR PAINTING ENVIRONMENT.

8

041316219

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041316248
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/21/13 9:20 AM
 Analysis Date: 6/25/2013
 Collected: 6/2/2013

Project: 130467 USA

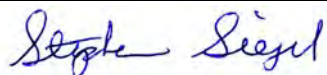
Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249649 041316248-0001	Pam 1	14591	0.239	0.016	0.003	
249645 041316248-0002	Pam 2	14422	0.179	0.012	0.003	
249626 041316248-0003	Pam 3	14227	0.189	0.013	0.004	
249606 041316248-0004	Pam 4	14378	0.239	0.017	0.003	
249603 041316248-0005	Pam 5	14603	0.197	0.013	0.003	
249639 041316248-0006	Pam 6	14763	0.221	0.015	0.003	
249641 041316248-0007	Pam 7	14587	0.266	0.018	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (7)



 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 06/27/2013 12:11:29



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316248

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtacng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: <u>ZEPDA 7P53P</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: <u>28127 (201 - 300)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249649	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	14.591	6/2/2013 16:00	PAM-1	
249645			14.422	6/2/2013 16:04	PAM-2	
249626			14.227	6/2/2013 16:08	PAM-3	
249606			14.378	6/2/2013 16:12	PAM-4	
249603			14.603	6/2/2013 16:18	PAM-5	
249639			14.763	6/2/2013 16:25	PAM-6	
249641			14.587	6/2/2013 16:31	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>[Signature]</u>	<u>6/3/2013</u>	<u>[Signature]</u>	<u>6/3/13</u>
<u>[Signature]</u>	<u>6/20/13</u>	<u>[Signature]</u>	<u>6-21-13</u>

Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

* SAMPLES WERE NOT COLLECTED FROM A PLATING, WELDING, OR PAINTING ENVIRONMENT.

041316248

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041316333
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/22/13 10:00 AM
 Analysis Date: 6/26/2013
 Collected: 6/20/2013

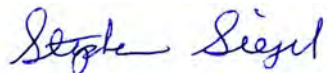
Project: 130467USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249569 041316333-0001	OSAM-1	15829	0.143	0.009	0.003	
249589 041316333-0002	OSAM-2	15478	0.167	0.011	0.003	
249576 041316333-0003	OSAM-3	15656	0.195	0.012	0.003	
249582 041316333-0004	PAM-1	15300	0.208	0.014	0.003	
249555 041316333-0005	PAM-2	14925	0.181	0.012	0.003	
249579 041316333-0006	PAM-3	15991	0.109	0.007	0.003	
249581 041316333-0007	PAM-4	15453	0.244	0.016	0.003	
249566 041316333-0008	PAM-5	15453	0.294	0.019	0.003	
249551 041316333-0009	PAM-6	15478	0.221	0.014	0.003	
249560 041316333-0010	PAM-7	15453	0.213	0.014	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)
 Shane Feret (10)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/27/2013 12:18:38



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316333

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249569	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	15,829	6/20/13	17:50	OSAM-1	13 JUN 22 AM 10:13 RECEIVED EMSL CINNAMINSON, NJ
249589	5.0 µ PVC		15,478	6/20/13	17:10	OSAM-2	
249576	5.0 µ PVC		15,656	6/20/13	18:20	OSAM-3	
249582	5.0 µ PVC		15,300	6/20/13	18:40	PAM-1	
249555	5.0 µ PVC		14,925	6/20/13	19:00	PAM-2	
249579	5.0 µ PVC		15,991	6/20/13	20:00	PAM-3	
249581	5.0 µ PVC		15,453	6/20/13	20:10	PAM-4	
249566	5.0 µ PVC		15,453	6/20/13	20:20	PAM-5	
249551	5.0 µ PVC		15,478	6/20/13	20:30	PAM-6	
249560	5.0 µ PVC		15,453	6/20/13	20:50	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-20-13	<i>[Signature]</i>	6/21/13
<i>[Signature]</i>	6/21/13	<i>[Signature]</i> fx	6/22/13 10:00

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

10C

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order:	041316583
CustomerID:	GTA51
CustomerPO:	
ProjectID:	

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/25/13 9:25 AM
 Analysis Date: 6/27/2013
 Collected: 6/21/2013


Project: 130467USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
93945		14413	0.188	0.013	0.003	
<i>041316583-0001</i>						
93982		15119	0.174	0.012	0.003	
<i>041316583-0002</i>						
93989		14484	0.148	0.010	0.003	
<i>041316583-0003</i>						
93974		14965	0.090	0.006	0.003	
<i>041316583-0004</i>						
93950		14994	0.134	0.009	0.003	
<i>041316583-0005</i>						
93968		14555	0.150	0.010	0.003	
<i>041316583-0006</i>						
93973		14413	0.244	0.017	0.003	
<i>041316583-0007</i>						
93966		14413	0.218	0.015	0.003	
<i>041316583-0008</i>						
93948		14555	0.320	0.022	0.003	
<i>041316583-0009</i>						
93958		14413	0.105	0.007	0.003	
<i>041316583-0010</i>						
93964		0	<0.05	N/A	N/A	Field Blank
<i>041316583-0011</i>						

Analyst(s)

 Shane Feret (12)



 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/27/2013 15:53:23



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041316583
CustomerID: GTA51
CustomerPO:
ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
Fax: (410) 792-7395
Received: 06/25/13 9:25 AM
Analysis Date: 6/27/2013
Collected: 6/21/2013

Project: 130467USA


**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
8/15/94**

<i>Sample</i>	<i>Location</i>	<i>Volume (L)</i>	<i>Sample Weight (mg)</i>	<i>Concentration (mg/m³)</i>	<i>Reporting Limit (mg/m³)</i>	<i>Notes</i>
93978		0	<0.05	N/A	N/A	Field Blank
041316583-0012						

Notes: Discernable field blank submitted with samples.
Results are not field blank corrected.

Analyst(s)

Shane Feret (12)



Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/27/2013 15:53:23



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316583

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
93945	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,413	6/21/13	17:30	OSAM-1	13 JUN 25 AM 10:53 RECEIVED EMSL CINNAMINSON, NJ
93982	5.0 µ PVC		15,119	6/21/13	17:45	OSAM-2	
93989	5.0 µ PVC		14,484	6/21/13	18:00	OSAM-3	
93974	5.0 µ PVC		14,965	6/21/13	19:00	PAM-1	
93950	5.0 µ PVC		14,994	6/21/13	19:30	PAM-2	
93968	5.0 µ PVC		14,555	6/21/13	19:40	PAM-3	
93973	5.0 µ PVC		14,413	6/21/13	19:50	PAM-4	
93966	5.0 µ PVC		14,413	6/21/13	20:05	PAM-5	
93948	5.0 µ PVC		14,555	6/21/13	20:10	PAM-6	
93958	5.0 µ PVC		14,413	6/21/13	20:30	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>James Parker</i>	6/21/13	AK FX	6/25/13 9:25A

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

12

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041316596
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/25/13 9:25 AM
 Analysis Date: 6/27/2013
 Collected: 6/22/2013

Project: 130467-USA

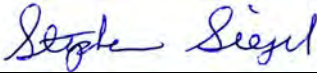
**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
 8/15/94**

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
93946	OSAM-1	14760	0.119	0.008	0.003	
<i>041316596-0001</i>						
93942	OSAM-2	14904	0.246	0.017	0.003	
<i>041316596-0002</i>						
93979	OSAM-3	14688	0.076	0.005	0.003	
<i>041316596-0003</i>						
93965	PAM-1	14555	0.119	0.008	0.003	
<i>041316596-0004</i>						
93953	PAM-2	14058	0.189	0.013	0.004	
<i>041316596-0005</i>						
93944	PAM-3	14535	0.195	0.013	0.003	
<i>041316596-0006</i>						
93943	PAM-4	14697	0.179	0.012	0.003	
<i>041316596-0007</i>						
93955	PAM-5	14271	0.209	0.015	0.004	
<i>041316596-0008</i>						
93976	PAM-6	14839	0.300	0.020	0.003	
<i>041316596-0009</i>						
93985	PAM-7	14555	0.308	0.021	0.003	
<i>041316596-0010</i>						

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (10)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/27/2013 15:30:54



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316596

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041316596

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
93946	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,760	6/22/13	17:30	OSAM-1	13 JUN 25 AM 11:05 CINNAMINSON, NJ EMSL
93942	5.0 µ PVC		14,904	6/22/13	17:45	OSAM-2	
93979	5.0 µ PVC		14,688	6/22/13	18:00	OSAM-3	
93965	5.0 µ PVC		14,555	6/22/13	18:40	PAM-1	
93953	5.0 µ PVC		14,058	6/22/13	19:10	PAM-2	
93944	5.0 µ PVC		14,535	6/22/13	19:25	PAM-3	
93943	5.0 µ PVC		14,697	6/22/13	19:30	PAM-4	
93955	5.0 µ PVC		14,271	6/22/13	19:45	PAM-5	
93976	5.0 µ PVC		14,839	6/22/13	19:50	PAM-6	
93985	5.0 µ PVC		14,555	6/22/13	20:10	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Tommy Brown</i>	6/24/13	<i>DJK</i>	6/25/13 9:25A

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order:	041316537
CustomerID:	GTA51
CustomerPO:	
ProjectID:	

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/25/13 9:25 AM
 Analysis Date: 6/26/2013
 Collected: 6/22/2013

Project: 1390467USA

Test Report: PM2.5 Analysis of Particulate Matter Performed by EPA Reference Method 40 CFR, Chapter 1, Part 50, Appendix L

Sample	Location	Volume (L)	Initial Weight (mg)	Final Weight (mg)	Sample Weight (mg)	Concentration (µg/m³)	Reporting Limit (µg/m³)	Notes
GTA-25 041316537-0001	PAM-1	14697	21.066	22.541	1.475	100.360	0.136	
GTA-26 041316537-0002	PAM-2	15620	19.246	19.564	0.318	20.359	0.128	
GTA-27 041316537-0003	PAM-3	15052	19.553	19.856	0.303	20.130	0.133	
GTA-28 041316537-0004	PAM-4	14981	18.543	18.861	0.318	21.227	0.134	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s) _____

Shane Feret (4)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/27/2013 10:24:55



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316537

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395		Fax : (410) 792-7395		Fax : (410) 792-7395	
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:		Purchase Order:	
Number of Samples in Shipment:		Date of Shipment:		Sampled By (Signature):	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47mm, via PM2.5 Impact Sampler	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
GTA-25	47 mm	Cr VI OSHA 215 Particulates (From PM2.5 Impact Sampler)	14,697	6-22-13	18:40	PAM-1	13 JUN 25 AM 11:00 CINNAMINSON, NJ EMSL
GTA-26	47 mm		15,620	6-22-13	19:10	PAM-2	
GTA-27	47 mm		15,052	6-22-13	19:30	PAM-4	
GTA-28	47 mm		14,981	6-22-13	19:50	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Thomas Parker</i>	6/24/13	<i>FX</i>	6/25/13 9:25A

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

4

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041316567
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/25/13 9:25 AM
 Analysis Date: 6/26/2013
 Collected: 6/21/2013


Project: 130467USA

**Test Report: PM2.5 Analysis of Particulate Matter Performed by EPA Reference Method
 40 CFR, Chapter 1, Part 50, Appendix L**

Sample	Location	Volume (L)	Initial Weight (mg)	Final Weight (mg)	Sample Weight (mg)	Concentration ($\mu\text{g}/\text{m}^3$)	Reporting Limit ($\mu\text{g}/\text{m}^3$)	Notes
GTA-21 041316567-0001	PAM-1	14768	18.553	19.132	0.579	39.206	0.135	
GTA-22 041316567-0002	PAM-2	15141	21.110	21.698	0.588	38.835	0.132	
GTA-23 041316567-0003	PAM-4	15123	20.250	20.777	0.527	34.848	0.132	
GTA-24 041316567-0004	PAM-6	14910	20.919	21.305	0.386	25.889	0.134	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)
 Shane Feret (4)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/27/2013 10:15:37



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316567

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47mm, via PM2.5 Impact Sampler	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
GTA-21	47 mm	Cr VI OSHA 215 Particulates (From PM2.5 Impact Sampler)	14,768	6-21-13	19:00	PAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUN 25 AM 11:02
GTA-22	47 mm		15,141	6-21-13	19:30	PAM-2	
GTA-23	47 mm		15,123	6-21-13	19:50	PAM-4	
GTA-24	47 mm		14,910	6-21-13	20:10	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Sam Stevenson</i>	6/24/13	<i>AM</i>	6/25/13 9:25A

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

4

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041316568
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/25/13 9:25 AM
 Analysis Date: 6/26/2013
 Collected: 6/23/2013


Project: 130467USA

**Test Report: PM2.5 Analysis of Particulate Matter Performed by EPA Reference Method
 40 CFR, Chapter 1, Part 50, Appendix L**

Sample	Location	Volume (L)	Initial Weight (mg)	Final Weight (mg)	Sample Weight (mg)	Concentration ($\mu\text{g}/\text{m}^3$)	Reporting Limit ($\mu\text{g}/\text{m}^3$)	Notes
GTA-29 041316568-0001	PAM-1	14904	21.103	21.146	0.043	2.885	0.134	
GTA-30 041316568-0002	PAM-2	14944	20.938	20.250	<0.002	<0.134	0.134	
GTA-31 041316568-0003	PAM-4	14904	21.869	22.042	0.173	11.608	0.134	
GTA-32 041316568-0004	PAM-6	14768	21.241	21.322	0.081	5.485	0.135	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)
 Shane Feret (4)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/27/2013 09:23:11



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316568

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041316568

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.							Media Type: 47mm, via PM2.5 Impact Sampler
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
GTA-29	47 mm	Cr VI OSHA 215 Particulates (From PM2.5 Impact Sampler)	14,904	6-23-13	18:30	PAM-1	13 JUN 25 AM 11:04 RECEIVED EMSL CINNAMINSON, NJ
GTA-30	47 mm		14,944	6-23-13	18:50	PAM-2	
GTA-31	47 mm		14,904	6-23-13	19:10	PAM-4	
GTA-32	47 mm		14,768	6-23-13	19:30	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Time Sam</i>	<i>6/24/13</i>	<i>AK</i>	<i>6/25/13 9:25A</i>
		<i>Ex</i>	

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

4



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/28/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 5/16/2013. The results are tabulated on the attached data pages for the following client designated project:

130467 USA

The reference number for these samples is EMSL Order #011302079. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

Revised Report- Samples -0043 through -0049 were resubmitted by the client for analysis. - Original Report 5/22/13

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302079

CustomerID: GTA51

CustomerPO: 041312334

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/16/13 4:00 PM
 Collected: 5/13/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249341 **Collected:** **Lab ID:** 0008
 Pam-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00065	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249310 **Collected:** **Lab ID:** 0009
 Pam-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00065	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249331 **Collected:** **Lab ID:** 0010
 Pam-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00066	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249330 **Collected:** **Lab ID:** 0011
 Pam-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00067	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249244 **Collected:** **Lab ID:** 0012
 Pam-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00082	0.00065	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249222 **Collected:** **Lab ID:** 0013
 Pam-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00065	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249246 **Collected:** **Lab ID:** 0014
 Pam-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00065	µg/m ³	5/20/2013	MM	5/20/2013	MM

**EMSL Analytical, Inc.**

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EMSL Order: 011302079

CustomerID: GTA51

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Attn: **Sam Stevenson**
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Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/16/13 4:00 PM
 Collected: 5/13/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249338 **Collected:** **Lab ID:** 0015
 Field Blank 1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249227 **Collected:** **Lab ID:** 0016
 Pam-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00067	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249213 **Collected:** **Lab ID:** 0017
 Pam-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249226 **Collected:** **Lab ID:** 0018
 Pam-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	5/20/2013	MM	5/20/2013	MM

Client Sample Description 249228 **Collected:** **Lab ID:** 0019
 Pam-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249236 **Collected:** **Lab ID:** 0020
 Pam-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249230 **Collected:** **Lab ID:** 0021
 Pam-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	5/20/2013	MM	5/21/2013	MM

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EMSL Order: 011302079

CustomerID: GTA51

CustomerPO: 041312334

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Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/16/13 4:00 PM
 Collected: 5/13/2013

Project: 130467 USA

Analytical Results

<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249207 Pam-7					0022			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	ND	0.00068	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249220 Pam-1					0029			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0018	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249223 Pam-2					0030			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0015	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249234 Pam-3					0031			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0012	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249247 Pam-4					0032			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0022	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249206 Pam-5					0033			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0018	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM
<i>Client Sample Description</i>		<i>Collected:</i>			<i>Lab ID:</i>			
249224 Pam-6					0034			
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	0.0039	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302079

CustomerID: GTA51

CustomerPO: 041312334

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/16/13 4:00 PM
 Collected: 5/13/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249218 Pam-7 **Collected:** **Lab ID:** 0035

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00080	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249231 Pam-1 **Collected:** **Lab ID:** 0036

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249245 Pam-2 **Collected:** **Lab ID:** 0037

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0047	0.00071	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249229 Pam-3 **Collected:** **Lab ID:** 0038

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0036	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249233 Pam-4 **Collected:** **Lab ID:** 0039

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249205 Pam-5 **Collected:** **Lab ID:** 0040

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0021	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249214 Pam-6 **Collected:** **Lab ID:** 0041

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0033	0.00069	µg/m ³	5/20/2013	MM	5/21/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302079

CustomerID: GTA51

CustomerPO: 041312334

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/16/13 4:00 PM
 Collected: 5/13/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249216 Pam-7 **Collected:** **Lab ID:** 0042

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00070	µg/m ³	5/20/2013	MM	5/21/2013	MM

Client Sample Description 249225 Pam-1 **Collected:** 5/13/2013 **Lab ID:** 0043

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0036	0.00069	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249241 Pam-2 **Collected:** 5/13/2013 **Lab ID:** 0044

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0051	0.00070	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249201 Pam-3 **Collected:** 5/13/2013 **Lab ID:** 0045

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0051	0.00069	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249235 Pam-4 **Collected:** 5/13/2013 **Lab ID:** 0046

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0042	0.00069	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249210 Pam-5 **Collected:** 5/13/2013 **Lab ID:** 0047

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0031	0.00069	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249204 Pam-6 **Collected:** 5/13/2013 **Lab ID:** 0048

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0048	0.00069	µg/m ³	6/26/2013	MM	6/27/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302079
 CustomerID: GTA51
 CustomerPO: 041312334
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 05/16/13 4:00 PM
 Collected: 5/13/2013

Project: 130467 USA

Analytical Results

Client Sample Description 249200 **Collected:** 5/13/2013 **Lab ID:** 0049
 Pam-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0021	0.00069	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249248 **Collected:** **Lab ID:** 0050
 Media Blank 1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	5/20/2013	MM	5/21/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

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

011302079

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment: <u>7</u>		Date of Shipment: <u>5/14/13</u>	Purchase Order:		Sampled By (Signature): <u>TP</u>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gteng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: <u>37mm, 3 PIECE CASSETTE</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: <u>ZEPON 7P53P</u>
							Lot #: <u>28127 (1 - 100)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249301	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15.172	5/14/13 16:00	1	
249303			15.198	16:08	2	
249349			15.308	16:20	3	
249312			14.888	16:25	4	
249325			15.026	16:33	5	
249307			15.080	16:40	6	
249324			15.109	16:49	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <u>Scott W Cumming</u>	Date: <u>5/14/13</u>	Received By: <u>Scott W Cumming</u>	Date: <u>5/15/13 9:20</u>
			<u>5/16/13 4:00p</u>

Comments: * CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

per client return samples w/out analysis
4/6/5/17

MAY 15 4:11:40
CINNAMINSON, NJ

011302079



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302079

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200 ROUTE 130 NORTH
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FAX: (856) 858-3500

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>				U.S. State where Samples Collected: <u>MARYLAND</u>	
Number of Samples in Shipment: <u>7</u>		Date of Shipment: <u>5/14/13</u>		Purchase Order:	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaeng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: <u>ZEFDA 7P531</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: <u>28127 (1-100)</u> <u>101-200</u>

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249341	5.0µ PVC	Cr VI OSHA 215/	15,317	5/7/13 16:05	1	LOT 28127 (1-100)
249310		TOTAL PARTICULATES	15,443	16:18	2	↓ CH-11 A 11:40 CINNAMINSON NJ
249331		NIOSH 0500	15,100	16:25	3	
249330			14,904	16:33	4	
249244			15,257	16:42	5	
249222			15,443	16:50	6	
24924C			15,443	17:00	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Scott W Cumming</u>	<u>5/8/13</u>	<u>Scott W Cumming</u>	<u>5/8/13</u>
	<u>5/14/13</u>		<u>5/16/13 4:00p</u>

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE

011302079



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302079

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>2070</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>				U.S. State where Samples Collected: <u>MARYLAND</u>	
Number of Samples in Shipment: <u>8</u>		Date of Shipment: <u>5/14/13</u>		Purchase Order:	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail		Email Results To: <u>sstevenson@gtaeng.com</u>			

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: <u>ZEPDN 7P53P</u>						Lot #: <u>28127 (101 - 200)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249338	5.0µ PVC	Cr VI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	0	5/8/13 16:38	# ⁹¹⁸ (FB) FIELD BANK 1	DINA M... 5/15/13 4:11:40
249227			14.977	16:39	1	
249213			14.670	16:45	2	
249226			14.650	16:50	3	
249228			14.620	16:55	4	
249236			14.580	17:00	5	
249230			14.696	17:05	6	
249207			14.645	17:10	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Scott W. Cumming</u>	<u>5/14/13</u>	<u>Scott W. Cumming</u>	<u>5/8/13</u>
<u>Scott W. Cumming</u>	<u>5/14/13</u>		<u>5/16/13 4:00pm</u>

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE

011302079



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

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

011302079

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment: 6		Date of Shipment: 5/14/13	Purchase Order:		Sampled By (Signature): TP
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gteng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 PIECE CASSETTE
2 Week <input type="checkbox"/>	1 Week <input checked="" type="checkbox"/>	4 Day <input type="checkbox"/>	3 Day <input type="checkbox"/>	2 Day <input type="checkbox"/>	1 Day <input type="checkbox"/>	Other (Call Lab) <input type="checkbox"/>	Manufacturer/Part #: ZEPON 7P53P
							Lot #: 28127 (101 - 200)

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249411	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15.173	5/10/13 16:05	1 - SWC	RUN TIME INTERRUPTION - Vol 14 5/15 AM 11:40
249209			14.646	16:10	2	
249221			14.749	16:20	3	
249232			14.749	16:25	4	
249240			14.615	16:30	5	
249243			15.127	17:10	6	
249242			15.232	17:15	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: Scott W Cummins	Date: 5/13/13	Received By: Scott W Cummins	Date: 5/13/13
	5/14/13		5/16/13 4:00p

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

011302079



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

**Industrial Hygiene
Chain of Custody**
EMSL Order Number (Lab Use Only):

011302079

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>			U.S. State where Samples Collected: <u>MARYLAND</u>		
Number of Samples in Shipment: <u>7</u>		Date of Shipment: <u>5/14/13</u>	Purchase Order:		Sampled By (Signature): <u>T.P.</u>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: <u>sstevenson@gtaceng.com</u>		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: <u>ZEFDA 7P53P</u>						Lot #: <u>28127 (101 - 200)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
29 249220	5.0µ PVC	Cr VI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	14,522	5/11/13 16:10	1	
30 249223			14,500	16:20	2	
31 249234			14,450	16:25	3	
32 249247			14,450	16:30	4	
33 249206			14,490	16:39	5	
34 249224			14,200	16:50	6	
35 249218			14,220	17:00	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <u>Scott W Cumming</u>	Date: <u>5/13/13</u>	Received By: <u>Scott W Cumming</u>	Date: <u>5/13/13</u>
	<u>5/14/13</u>		<u>5/16/13 4:00pm</u>

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

011302079



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302079

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: <u>SAM STEVENSON</u>			Bill To Company: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>		
Company Name: <u>GEO-TECHNOLOGY ASSOCIATES, INC.</u>			Attention To: <u>SAM STEVENSON</u>		
Street: <u>14280 PARK CENTER DRIVE</u>			Street: <u>14280 PARK CENTER DRIVE</u>		
City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>	City: <u>LAUREL</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20707</u>
Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>			Phone: <u>(410) 792-9446</u> Fax: <u>(410) 792-7395</u>		
Project Name: <u>130467 USA</u>				U.S. State where Samples Collected: <u>MARYLAND</u>	
Number of Samples in Shipment: <u>7</u>		Date of Shipment: <u>5/14/13</u>		Purchase Order:	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail		Email Results To: <u>sstevenson@gtacng.com</u>			

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: <u>37mm, 3 PIECE CASSETTE</u>
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturer/Part #: <u>ZEFON 7P53P</u>						Lot #: <u>2B127 (101 - 200)</u>

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
36 249231	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	14.331	5/12/13 16:56	PAM-1	
37 249245			14.169	5/12/13 16:04	PAM-2	
38 249229			14.220	5/12/13 16:13	PAM-3	
39 249233			14.310	5/12/13 16:21	PAM-4	
40 249205			14.320	5/12/13 16:31	PAM-5	
41 249214			14.400	5/12/13 16:50	PAM-6	
42 249216			14.380	5/12/13 16:58	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<u>Shiehan Chou</u>	<u>5/13/2013</u>	<u>Scott W Cummins</u>	<u>5/13/13</u>
<u>Scott W Cummins</u>	<u>5/14/2013</u>		<u>5/16/13 4:00p</u>

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

011302079



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302079

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3677
FAX: (856) 858-3507

Report To Contact Name: SAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment: 8		Date of Shipment: 5/14/13	Purchase Order:		Sampled By (Signature): <i>Scott W. Cummins</i>
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: ssstevenson@gtaceng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2-Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: 37mm, 3 PIECE CASSETTE
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: ZEPON 7P53P
							Lot #: 28127 (101 - 200)

249225
249241
249201
249235
249210
249204
249200
249248

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249225	5.0µ PVC	Cr VI OSHA 215 /	14,584	5/13/13 16:00	PAM-1	
249241		TOTAL PARTICULATES	14,395	16:18	PAM-2	
249201		NIOSH 0500	14,447	16:25	PAM-3	
249235			14,428	16:31	PAM-4	
249210			14,418	16:40	PAM-5	
249204			14,477	17:05	PAM-6	
249200			14,507	17:16	PAM-7	
249248					MEDIA BLANK!	

CINNAMINSON, NJ
MAY 15 AM 11:40

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <i>Scott W. Cummins</i>	Date: 5/14/13	Received By: <i>[Signature]</i>	Date: 5/16/13 4:00p
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Comments:
*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

011302079



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/28/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/25/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302840. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302840

CustomerID: GTA51

CustomerPO: 041316208

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/25/13 11:00 AM
 Collected: 5/26/2013

Project: 130467USA

Analytical Results

Client Sample Description 249698
1
Collected: 5/26/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00065	µg/m ³	6/26/2013	MM	6/26/2013	MM

Client Sample Description 249655
2
Collected: 5/26/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0028	0.00065	µg/m ³	6/26/2013	MM	6/26/2013	MM

Client Sample Description 249666
3
Collected: 5/26/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0024	0.00064	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249684
4
Collected: 5/26/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0028	0.00065	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249651
5
Collected: 5/26/2013 **Lab ID:** 0005

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0054	0.00065	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249653
6
Collected: 5/26/2013 **Lab ID:** 0006

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0021	0.00066	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249656
7
Collected: 5/26/2013 **Lab ID:** 0007

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00067	µg/m ³	6/26/2013	MM	6/27/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

**Industrial Hygiene
Chain of Custody**
EMSL Order Number (Lab Use Only):

01302840

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: **JAM STEVENSON**

Company Name: **GEO-TECHNOLOGY ASSOCIATES, INC.**

Street: **14280 PARK CENTER DRIVE**

City: **LAUREL** State/Province: **MD** Zip/Postal Code: **20707**

Phone: **(410) 792-9446** Fax: **(410) 792-7395**

Project Name: **130467 USA**

Bill To Company: **GEO-TECHNOLOGY ASSOCIATES, INC.**

Attention To: **SAM STEVENSON**

Street: **14280 PARK CENTER DRIVE**

City: **LAUREL** State/Province: **MD** Zip/Postal Code: **20707**

Phone: **(410) 792-9446** Fax: **(410) 792-7395**

Number of Samples in Shipment: _____ Date of Shipment: _____

Purchase Order: _____ U.S. State where Samples Collected: **MARYLAND**

Please Provide results: Fax Email Mail

Email Results To: **sstevenson@gtaceng.com**

Sampled By (Signature): _____

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Media Type: **37mm, 3 PIECE CASSETTE**

Manufacturer/Part #: **ZEPDN 7P53P**

Lot #: **28127 (201 - 300)**

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249693	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	15,480	5/26/13 18:00	1	
249655			15,306	18:08	2	
249666			15,584	18:13	3	
249684			15,419	18:19	4	
249651			15,285	18:28	5	
249653			15,224	18:35	6	
249656			15,028	18:45	7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <i>[Signature]</i>	Date: 5/29/13	Received By: <i>[Signature]</i>	Date: 5/29/13
<i>[Signature]</i>	6/20/13	<i>[Signature]</i>	6/25/13 11:00AM

23°C

Comments:

*** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

011302840



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/28/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/25/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302841. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302841

CustomerID: GTA51

CustomerPO: 041316221

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/25/13 11:00 AM
 Collected: 5/14/2013

Project: 130467USA

Analytical Results

Client Sample Description 249203 **Collected:** 5/14/2013 **Lab ID:** 0001
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00070	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249215 **Collected:** 5/14/2013 **Lab ID:** 0002
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00071	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249249 **Collected:** 5/14/2013 **Lab ID:** 0003
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00071	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249219 **Collected:** 5/14/2013 **Lab ID:** 0004
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00070	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249212 **Collected:** 5/14/2013 **Lab ID:** 0005
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00070	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249237 **Collected:** 5/14/2013 **Lab ID:** 0006
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00070	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description 249202 **Collected:** 5/14/2013 **Lab ID:** 0007
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0017	0.00071	µg/m ³	6/26/2013	MM	6/27/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

01302841

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: JAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: ZEPDA 7P53P
						Lot #: 28127 (108 - 200)

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249203	5.0µ PVC	Cr VI OSHA 215 /	14,801	5/14/13 15:50	PAM-1	
249215		TOTAL PARTICULATES	14,261	15:57	PAM-2	
249249		NIOSH 0500	14,038	16:03	PAM-3	
249219			14,342	16:11	PAM-4	
249212			14,332	16:19	PAM-5	
249237			14,211	16:32	PAM-6	
249202			14,030	16:39	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: Scott W. Cumming	Date: 6/20/13	Received By: J. J. Albert	Date: 6/25/13 11:00AM
		23°C	

Comments: *** CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.**

* SAMPLES WERE NOT COLLECTED FROM A PLATING, WELDING OR PAINTING ENVIRONMENT. 7

011302841



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/28/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/25/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302860. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302860

CustomerID: GTA51

CustomerPO: 041316211

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/25/13 5:00 PM
 Collected: 6/19/2013

Project: 130467USA

Analytical Results

Client Sample Description 249556 **Collected:** 6/19/2013 **Lab ID:** 0001
 OSAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00068	µg/m ³	6/27/2013	MM	6/27/2013	MM

Client Sample Description 249558 **Collected:** 6/19/2013 **Lab ID:** 0002
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00069	µg/m ³	6/27/2013	MM	6/27/2013	MM

Client Sample Description 249590 **Collected:** 6/19/2013 **Lab ID:** 0003
 OSAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0018	0.00065	µg/m ³	6/27/2013	MM	6/27/2013	MM

Client Sample Description 249571 **Collected:** 6/19/2013 **Lab ID:** 0004
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0010	0.00066	µg/m ³	6/27/2013	MM	6/27/2013	MM

Client Sample Description 249587 **Collected:** 6/19/2013 **Lab ID:** 0005
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0018	0.00064	µg/m ³	6/27/2013	MM	6/27/2013	MM

Client Sample Description 249562 **Collected:** 6/19/2013 **Lab ID:** 0006
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0025	0.00063	µg/m ³	6/27/2013	MM	6/27/2013	MM

Client Sample Description 249570 **Collected:** 6/19/2013 **Lab ID:** 0007
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0014	0.00064	µg/m ³	6/27/2013	MM	6/27/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302860
 CustomerID: GTA51
 CustomerPO: 041316211
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/25/13 5:00 PM
 Collected: 6/19/2013

Project: 130467USA

Analytical Results

Client Sample Description 249559 **Collected:** 6/19/2013 **Lab ID:** 0008
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0030	0.00063	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249573 **Collected:** 6/19/2013 **Lab ID:** 0009
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00063	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249599 **Collected:** 6/19/2013 **Lab ID:** 0010
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00063	µg/m ³	6/27/2013	MM	6/28/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302860

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302860

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (301 - 500)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① 249556	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,616	6/19/13	15:35	OSAM-1	
② 249558	5.0 µ PVC		14,605	6/19/13	16:00	OSAM-2	
③ 249590	5.0 µ PVC		15,453	6/19/13	17:00	OSAM-3	
④ 249571	5.0 µ PVC		15,225	6/19/13	17:40	PAM-1	
⑤ 249587	5.0 µ PVC		15,563	6/19/13	18:00	PAM-2	
⑥ 249562	5.0 µ PVC		15,825	6/19/13	18:25	PAM-3	
⑦ 249570	5.0 µ PVC		15,688	6/19/13	18:40	PAM-4	
⑧ 249559	5.0 µ PVC		15,810	6/19/13	19:05	PAM-5	
⑨ 249573	5.0 µ PVC		15,892	6/19/13	19:20	PAM-6	
⑩ 249599	5.0 µ PVC		15,898	6/19/13	19:35	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-20-13	<i>[Signature]</i>	6/20/13
<i>[Signature]</i>	6/20/13	<i>[Signature]</i> Travis Albert	6/25/13 5:00pm
		23°C	

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

10



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

6/28/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/25/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302859. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302859

CustomerID: GTA51

CustomerPO: 041316386

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/25/13 5:00 PM
 Collected: 6/20/2013

Project: 130467USA

Analytical Results

Client Sample Description GTA-17
PAM-1 **Collected:** 6/20/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0024	0.00064	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description GTA-18
PAM-2 **Collected:** 6/20/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0017	0.00064	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description GTA-19
PAM-4 **Collected:** 6/20/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00061	µg/m ³	6/26/2013	MM	6/27/2013	MM

Client Sample Description GTA-20
PAM-6 **Collected:** 6/20/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00063	µg/m ³	6/26/2013	MM	6/27/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302859

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395		Fax : (410) 792-7395		U.S. State where Samples Collected: Maryland	
Project Name: 130467USA			U.S. State where Samples Collected: Maryland		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: 47mm, via PM2.5 Impact Sampler
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #:
							Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① GTA-17	47 mm	Cr VI OSHA 215 Particulates (From PM2.5 Impact Sampler)	15,675	6-20-13	18:40	PAM-1	
② GTA-18	47 mm		15,525	6-20-13	19:00	PAM-2	
③ GTA-19	47 mm		16,295	6-20-13	20:10	PAM-4	
④ GTA-20	47 mm		15,832	6-20-13	20:30	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/20/13	<i>[Signature]</i>	6/21/13
<i>[Signature]</i>	6/21/13	<i>[Signature]</i>	6/21/13 8:50
		Travis Albert	6/20/13 5:00pm

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

PH12: 30
CINNAMINSON, NJ

011302859



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/1/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/26/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302879. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302879

CustomerID: GTA51

CustomerPO: 041316203

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/26/13 11:00 AM
 Collected: 6/18/2013

Project: 130467USA

Analytical Results

Client Sample Description 249578 **Collected:** 6/18/2013 **Lab ID:** 0001
 OSAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0017	0.00068	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249594 **Collected:** 6/18/2013 **Lab ID:** 0002
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00071	0.00069	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249575 **Collected:** 6/18/2013 **Lab ID:** 0003
 OSAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00067	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249552 **Collected:** 6/18/2013 **Lab ID:** 0004
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00069	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249550 **Collected:** 6/18/2013 **Lab ID:** 0005
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00068	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249568 **Collected:** 6/18/2013 **Lab ID:** 0006
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00067	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249567 **Collected:** 6/18/2013 **Lab ID:** 0007
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00068	µg/m ³	6/27/2013	MM	6/28/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302879

CustomerID: GTA51

CustomerPO: 041316203

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/26/13 11:00 AM
 Collected: 6/18/2013

Project: 130467USA

Analytical Results

Client Sample Description 249595 **Collected:** 6/18/2013 **Lab ID:** 0008
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0024	0.00068	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249561 **Collected:** 6/18/2013 **Lab ID:** 0009
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0024	0.00068	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249563 **Collected:** 6/18/2013 **Lab ID:** 0010
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0014	0.00068	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249557 **Collected:** 6/18/2013 **Lab ID:** 0011
 PAM-1, Field Blank 1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	6/27/2013	MM	6/28/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

071302879

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395		Project Name: 130467USA			
U.S. State where Samples Collected: Maryland				Number of Samples in Shipment:	
Date of Shipment:		Purchase Order:		Sampled By (Signature):	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 28127 (301 - 500)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① 249578	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,688	6/18/13	15:35	OSAM-1	
② 249594	5.0 µ PVC		14,584	6/18/13	15:50	OSAM-2	
③ 249575	5.0 µ PVC		14,853	6/18/13	16:05	OSAM-3	
④ 249552	5.0 µ PVC		14,544	6/18/13	16:40	PAM-1	
⑤ 249550	5.0 µ PVC		14,770	6/18/13	16:48	PAM-2	
⑥ 249568	5.0 µ PVC		14,853	6/18/13	16:54	PAM-3	
⑦ 249567	5.0 µ PVC		14,626	6/18/13	17:01	PAM-4	
⑧ 249595	5.0 µ PVC		14,760	6/18/13	17:15	PAM-5	
⑨ 249561	5.0 µ PVC		14,770	6/18/13	17:21	PAM-6	
⑩ 249563	5.0 µ PVC		14,750	6/18/13	17:27	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-19-13	<i>[Signature]</i>	6/20/13
<i>[Signature]</i>	6/20/13	Travis Albert	6/26/13 11:00AM

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

11

11302879



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/1/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/26/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302880. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302880

CustomerID: GTA51

CustomerPO: 041316219

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/26/13 11:00 AM
 Collected: 5/25/2013

Project: 130467USA

Analytical Results

Client Sample Description 249694
1
Collected: 5/25/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0012	0.00070	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249676
2
Collected: 5/25/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0042	0.00070	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249697
3
Collected: 5/25/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0015	0.00070	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249667
4
Collected: 5/25/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0025	0.00070	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249664
5
Collected: 5/25/2013 **Lab ID:** 0005

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0022	0.00066	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249699
6
Collected: 5/25/2013 **Lab ID:** 0006

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0042	0.00067	µg/m ³	6/27/2013	MM	7/1/2013	MM

Client Sample Description 249665
7
Collected: 5/25/2013 **Lab ID:** 0007

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0077	0.00068	µg/m ³	6/27/2013	MM	7/1/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302880
 CustomerID: GTA51
 CustomerPO: 041316219
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/26/13 11:00 AM
 Collected: 5/25/2013

Project: 130467USA

Analytical Results

Client Sample Description 249685 **Collected:** 5/25/2013 **Lab ID:** 0008
 Field Blank 1

<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	6/27/2013	MM	7/1/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit

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

01302880

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON

Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.

Street: 14280 PARK CENTER DRIVE

City: LAUREL State/Province: MD Zip/Postal Code: 20707

Phone: (410) 792-9446 Fax: (410) 792-7395

Project Name: 130467 USA

Number of Samples in Shipment: _____ Date of Shipment: _____

Please Provide results: Fax Email Mail

Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.

Attention To: SAM STEVENSON

Street: 14280 PARK CENTER DRIVE

City: LAUREL State/Province: MD Zip/Postal Code: 20707

Phone: (410) 792-9446 Fax: (410) 792-7395

Purchase Order: _____ U.S. State where Samples Collected: MARYLAND

Email Results To: sstevenson@gtacng.com Sampled By (Signature): _____

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Media Type: 37mm, 3 PIECE CASSETTE

Manufacturer/Part #: ZEPHON 7P53P

Lot #: 28127 (201 - 300)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
249694	5.0µ PVC	Cr-VI OSHA 215 /		5/25/13		
249676		TOTAL PARTICULATES	14.256	18:00	1	
249697		NIOSH 0500	14.268	18:04	2	
249667			14.330	18:10	3	
249664			14.360	18:18	4	
249699			15.211	18:26	5	
249665			14.852	18:32	6	
249685			14.617	18:40	7	
				18:00	FIELD BLANK 1	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: <u>Terrence Robinson</u>	Date: <u>5/29/13</u>	Received By: <u>Scott W. Cummins</u>	Date: <u>5/29/13</u>
<u>Scott W. Cummins</u>	<u>6/26/13</u>	<u>Terrence Robinson</u>	<u>6/26/13 11:00AM</u>

Comments: * CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/1/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/26/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302889. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302889
 CustomerID: GTA51
 CustomerPO: 041316248
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/26/13 6:30 PM
 Collected: 6/2/2013

Project: 130467USA

Analytical Results

Client Sample Description 249649 **Collected:** 6/2/2013 **Lab ID:** 0001
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0028	0.00069	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249645 **Collected:** 6/2/2013 **Lab ID:** 0002
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0014	0.00069	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249626 **Collected:** 6/2/2013 **Lab ID:** 0003
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0038	0.00070	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249606 **Collected:** 6/2/2013 **Lab ID:** 0004
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00070	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249603 **Collected:** 6/2/2013 **Lab ID:** 0005
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00069	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249639 **Collected:** 6/2/2013 **Lab ID:** 0006
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0036	0.00068	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249641 **Collected:** 6/2/2013 **Lab ID:** 0007
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0029	0.00069	µg/m ³	6/27/2013	MM	6/28/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

01302889

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302889

Report To Contact Name: JAM STEVENSON			Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.		
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.			Attention To: SAM STEVENSON		
Street: 14280 PARK CENTER DRIVE			Street: 14280 PARK CENTER DRIVE		
City: LAUREL	State/Province: MD	Zip/Postal Code: 20707	City: LAUREL	State/Province: MD	Zip/Postal Code: 20707
Phone: (410) 792-9446 Fax: (410) 792-7395			Phone: (410) 792-9446 Fax: (410) 792-7395		
Project Name: 130467 USA			U.S. State where Samples Collected: MARYLAND		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaceng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 PIECE CASSETTE
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: ZEPDM 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (201 - 300)

Sample ID	Media	Analyte / Method	Volume(L)	Sample Date/Time	Location (PAM)	Comments
① 249649	5.0µ PVC	Cr.VI OSHA 215/ TOTAL PARTICULATES NIOSH 0500	14.591	6/2/2013 16:00	PAM-1	
② 249645			14.422	6/2/2013 16:04	PAM-2	
③ 249626			14.227	6/2/2013 16:08	PAM-3	
④ 249606			14.378	6/2/2013 16:12	PAM-4	
⑤ 249603			14.603	6/2/2013 16:18	PAM-5	
⑥ 249639			14.763	6/2/2013 16:25	PAM-6	
⑦ 249641			14.587	6/2/2013 16:31	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/20/13	<i>[Signature]</i>	6/3/13
		23°C	6/26/13 6:30pm

Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

& CONDIES WERE NOT COLLECTED FROM A PLATING, WELDING, OR PAINTING ENVIRONMENT.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/1/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/26/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302890. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302890

CustomerID: GTA51

CustomerPO: 041316333

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/26/13 6:30 PM
 Collected: 6/20/2013

Project: 130467USA

Analytical Results

Client Sample Description 249569 **Collected:** 6/20/2013 **Lab ID:** 0001
 OSAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00085	0.00063	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249589 **Collected:** 6/20/2013 **Lab ID:** 0002
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0017	0.00065	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249576 **Collected:** 6/20/2013 **Lab ID:** 0003
 OSAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00076	0.00064	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249582 **Collected:** 6/20/2013 **Lab ID:** 0004
 PAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0018	0.00065	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249555 **Collected:** 6/20/2013 **Lab ID:** 0005
 PAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00067	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249579 **Collected:** 6/20/2013 **Lab ID:** 0006
 PAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00098	0.00063	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249581 **Collected:** 6/20/2013 **Lab ID:** 0007
 PAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00065	µg/m ³	6/27/2013	MM	6/28/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302890
 CustomerID: GTA51
 CustomerPO: 041316333
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/26/13 6:30 PM
 Collected: 6/20/2013

Project: 130467USA

Analytical Results

Client Sample Description 249566 **Collected:** 6/20/2013 **Lab ID:** 0008
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00089	0.00065	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249551 **Collected:** 6/20/2013 **Lab ID:** 0009
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00092	0.00065	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description 249560 **Collected:** 6/20/2013 **Lab ID:** 0010
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00065	µg/m ³	6/27/2013	MM	6/28/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302890

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA			U.S. State where Samples Collected: Maryland		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: 37mm, 3 piece Cassette
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: Zefon 7P53P
							Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① 249569	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	15,829	6/20/13	17:50	OSAM-1	
② 249589	5.0 µ PVC		15,478	6/20/13	17:10	OSAM-2	
③ 249576	5.0 µ PVC		15,656	6/20/13	18:20	OSAM-3	
④ 249582	5.0 µ PVC		15,300	6/20/13	18:40	PAM-1	
⑤ 249555	5.0 µ PVC		14,925	6/20/13	19:00	PAM-2	
⑥ 249579	5.0 µ PVC		15,991	6/20/13	20:00	PAM-3	
⑦ 249581	5.0 µ PVC		15,453	6/20/13	20:10	PAM-4	
⑧ 249566	5.0 µ PVC		15,453	6/20/13	20:20	PAM-5	
⑨ 249551	5.0 µ PVC		15,478	6/20/13	20:30	PAM-6	
⑩ 249560	5.0 µ PVC		15,453	6/20/13	20:50	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-20-13	<i>[Signature]</i>	6/21/13
<i>[Signature]</i>	6/21/13	<i>[Signature]</i>	6/22/13 10:00
		<i>[Signature]</i>	6/26/13 6:30pm

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

100

011302890

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order:	041316221
CustomerID:	GTA51
CustomerPO:	
ProjectID:	

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/21/13 9:20 AM
 Analysis Date: 6/25/2013
 Collected:

Project: 130467 USA


Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249203 041316221-0001	Pam 1	14801	0.137	0.009	0.003	
249215 041316221-0002	Pam 2	14261	0.199	0.014	0.004	
249249 041316221-0003	Pam 3	14038	0.168	0.012	0.004	
249219 041316221-0004	Pam 4	14342	0.106	0.007	0.003	
249212 041316221-0005	Pam 5	14332	0.114	0.008	0.003	
249237 041316221-0006	Pam 6	14211	0.151	0.011	0.004	
249202 041316221-0007	Pam 7	14030	0.147	0.010	0.004	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (7)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 07/01/2013 12:39:43



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

04131422

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: SAM STEVENSON		Bill To Company: GEO-TECHNOLOGY ASSOCIATES, INC.	
Company Name: GEO-TECHNOLOGY ASSOCIATES, INC.		Attention To: SAM STEVENSON	
Street: 14280 PARK CENTER DRIVE		Street: 14280 PARK CENTER DRIVE	
City: LAUREL	State/Province: MD	City: LAUREL	State/Province: MD
Zip/Postal Code: 20707		Zip/Postal Code: 20707	
Phone: (410) 792-9446 Fax: (410) 792-7395		Phone: (410) 792-9446 Fax: (410) 792-7395	
Project Name: 130467 USA		U.S. State where Samples Collected: MARYLAND	
Number of Samples in Shipment:	Date of Shipment:	Purchase Order:	Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail		Email Results To: sstevenson@gtaceng.com	

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: 37mm, 3 PIECE CASSETTE
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: ZEFON 7P53P
							Lot #: 28127 (100 - 200)

Sample ID	Media	Analyte / Method	Volume (L)	Sample Date/Time	Location (PAM)	Comments
249203	5.0µ PVC	Cr VI OSHA 215 / TOTAL PARTICULATES NIOSH 0500	14.801	5/14/13 15:50	PAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUN 21 AM 11:25
249215			14.261	15:57	PAM-2	
249249			14.038	16:03	PAM-3	
249219			14.342	16:11	PAM-4	
249212			14.332	16:19	PAM-5	
249237			14.211	16:32	PAM-6	
249202			14.030	16:39	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By: Scott Humming	Date: 6/20/13	Received By: DWMB - FX - 920A	Date: 6-21-13
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Comments:
* CLIENT APPROVAL GRANTED TO RUN OSHA 215 AND NIOSH 0500 FROM SAME SAMPLE CASSETTE.

* SAMPLES WERE NOT COLLECTED FROM A PLATING, WELDING OR PAINTING ENVIRONMENT. 7

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041316333

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/22/13 10:00 AM
 Analysis Date: 6/26/2013
 Collected: 6/20/2013

Project: 130467USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
249569 041316333-0001	OSAM-1	15829	0.143	0.009	0.003	
249589 041316333-0002	OSAM-2	15478	0.167	0.011	0.003	
249576 041316333-0003	OSAM-3	15656	0.195	0.012	0.003	
249582 041316333-0004	PAM-1	15300	0.208	0.014	0.003	
249555 041316333-0005	PAM-2	14925	0.181	0.012	0.003	
249579 041316333-0006	PAM-3	15991	0.109	0.007	0.003	
249581 041316333-0007	PAM-4	15453	0.244	0.016	0.003	
249566 041316333-0008	PAM-5	15453	0.294	0.019	0.003	
249551 041316333-0009	PAM-6	15478	0.221	0.014	0.003	
249560 041316333-0010	PAM-7	15453	0.213	0.014	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

Shane Feret (10)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/27/2013 12:18:38



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316333

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
249569	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	15,829	6/20/13	17:50	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUN 22 AM 10:13
249589	5.0 µ PVC		15,478	6/20/13	17:10	OSAM-2	
249576	5.0 µ PVC		15,656	6/20/13	18:20	OSAM-3	
249582	5.0 µ PVC		15,300	6/20/13	18:40	PAM-1	
249555	5.0 µ PVC		14,925	6/20/13	19:00	PAM-2	
249579	5.0 µ PVC		15,991	6/20/13	20:00	PAM-3	
249581	5.0 µ PVC		15,453	6/20/13	20:10	PAM-4	
249566	5.0 µ PVC		15,453	6/20/13	20:20	PAM-5	
249551	5.0 µ PVC		15,478	6/20/13	20:30	PAM-6	
249560	5.0 µ PVC		15,453	6/20/13	20:50	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6-20-13	<i>[Signature]</i>	6/21/13
<i>[Signature]</i>	6/21/13	<i>[Signature]</i> fx	6/22/13 10:00

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

10C

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041316566
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/25/13 9:25 AM
 Analysis Date: 6/28/2013
 Collected: 6/23/2013


Project: 130467USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
93980 041316566-0001	OSAM-1	14760	0.130	0.009	0.003	
93987 041316566-0002	OSAM-2	14904	0.226	0.015	0.003	
93941 041316566-0003	OSAM-3	14935	<0.05	<0.003	0.003	
93988 041316566-0004	PAM-1	14801	0.087	0.006	0.003	
93969 041316566-0005	PAM-2	14872	0.106	0.007	0.003	
93954 041316566-0006	PAM-3	14729	0.209	0.014	0.003	
93986 041316566-0007	PAM-4	14697	0.093	0.006	0.003	
93961 041316566-0008	PAM-5	14342	0.145	0.010	0.003	
93951 041316566-0009	PAM-6	14697	0.182	0.012	0.003	
93947 041316566-0010	PAM-7	14626	0.242	0.017	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)
 Shane Feret (10)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 06/30/2013 14:24:26



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041316566

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041316566

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
93980	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,760	6/23/13	17:30	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ JUN 25 AM 11:01
93987	5.0 µ PVC		14,904	6/23/13	17:45	OSAM-2	
93941	5.0 µ PVC		14,935	6/23/13	18:10	OSAM-3	
93988	5.0 µ PVC		14,801	6/23/13	18:30	PAM-1	
93969	5.0 µ PVC		14,872	6/23/13	18:50	PAM-2	
93954	5.0 µ PVC		14,729	6/23/13	19:05	PAM-3	
93986	5.0 µ PVC		14,697	6/23/13	19:10	PAM-4	
93961	5.0 µ PVC		14,342	6/23/13	19:25	PAM-5	
93951	5.0 µ PVC		14,697	6/23/13	19:30	PAM-6	
93947	5.0 µ PVC		14,626	6/23/13	19:50	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
Tina Dupl	6/24/13	PK FX	6/25/13 9:25A

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

10



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/1/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/26/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302876. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302876

CustomerID: GTA51

CustomerPO: 041316537

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/26/13 2:00 PM
 Collected: 6/22/2013

Project: 130467USA

Analytical Results

Client Sample Description GTA-25
PAM-1 **Collected:** 6/22/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00068	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description GTA-26
PAM-2 **Collected:** 6/22/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0015	0.00064	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description GTA-27
PAM-4 **Collected:** 6/22/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0016	0.00066	µg/m ³	6/27/2013	MM	6/28/2013	MM

Client Sample Description GTA-28
PAM-6 **Collected:** 6/22/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0015	0.00067	µg/m ³	6/27/2013	MM	6/28/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS-TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011302876

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302876

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395				Fax : (410) 792-7395	
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:		Purchase Order:	
				Sampled By (Signature):	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47mm, via PM2.5 Impact Sampler	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① GTA-25	47 mm	Cr VI OSHA 215 Particulates (From PM2.5 Impact Sampler)	14,697	6-22-13	18:40	PAM-1	
② GTA-26	47 mm		15,620	6-22-13	19:10	PAM-2	
③ GTA-27	47 mm		15,052	6-22-13	19:30	PAM-4	
④ GTA-28	47 mm		14,981	6-22-13	19:50	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Thomas Parker</i>	<i>6/24/13</i>	<i>Frank Allert</i>	<i>6/26/13 2:00pm</i>
		<i>23°C</i>	

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

4



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/1/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/26/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302877. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302877

CustomerID: GTA51

CustomerPO: 041316567

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/26/13 2:00 PM
 Collected: 6/21/2013

Project: 130467USA

Analytical Results

Client Sample Description GTA-21
PAM-1 **Collected:** 6/21/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00068	µg/m ³	6/27/2013	MM	6/29/2013	MM

Client Sample Description GTA-22
PAM-2 **Collected:** 6/21/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0047	0.00066	µg/m ³	6/27/2013	MM	6/29/2013	MM

Client Sample Description GTA-23
PAM-3 **Collected:** 6/21/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0027	0.00066	µg/m ³	6/27/2013	MM	6/29/2013	MM

Client Sample Description GTA-24
PAM-4 **Collected:** 6/21/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00067	µg/m ³	6/27/2013	MM	6/29/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
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Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

01302877

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

01302877

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47mm, via PM2.5 Impact Sampler	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① GTA-21	47 mm	Cr VI OSHA 215 Particulates (From PM2.5 Impact Sampler)	14,768	6-21-13	19:00	PAM-1	
② GTA-22	47 mm		15,141	6-21-13	19:30	PAM-2	
③ GTA-23	47 mm		15,123	6-21-13	19:50	PAM-4	
④ GTA-24	47 mm		14,910	6-21-13	20:10	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Sam Stevenson</i>	6/24/13	<i>J. Vanis Allt</i>	6/26/13 2:00pm

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

4



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/1/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/26/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302878. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302878

CustomerID: GTA51

CustomerPO: 041316568

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/26/13 2:00 PM
 Collected: 6/23/2013

Project: 130467USA

Analytical Results

Client Sample Description GTA-29
PAM-1
Collected: 6/23/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00067	µg/m ³	6/27/2013	MM	6/29/2013	MM

Client Sample Description GTA-30
PAM-2
Collected: 6/23/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0023	0.00067	µg/m ³	6/27/2013	MM	6/29/2013	MM

Client Sample Description GTA-31
PAM-4
Collected: 6/23/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00067	µg/m ³	6/27/2013	MM	6/29/2013	MM

Client Sample Description GTA-32
PAM-6
Collected: 6/23/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0014	0.00068	µg/m ³	6/27/2013	MM	6/29/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
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Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

OU302878

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302878

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446 Fax : (410) 792-7395			Phone : (410) 792-9446 Fax : (410) 792-7395		
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 47mm, via PM2.5 Impact Sampler	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① GTA-29	47 mm	Cr VI OSHA 215 Particulates (From PM2.5 Impact Sampler)	14,904	6-23-13	18:30	PAM-1	
② GTA-30	47 mm		14,944	6-23-13	18:50	PAM-2	
③ GTA-31	47 mm		14,904	6-23-13	19:10	PAM-4	
④ GTA-32	47 mm		14,768	6-23-13	19:30	PAM-6	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Travis Bell</i>	<i>6/24/13</i>	<i>Travis Bell</i> 23°C	<i>6/26/13 2:00pm</i>

Comments: OK to run both methods from same sample media.
Samples were not collected from a welding, plating or painting environment.

4



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/2/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/27/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302902. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302902

CustomerID: GTA51

CustomerPO: 041316583

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/27/13 12:00 PM
 Collected: 6/21/2013

Project: 130467USA

Analytical Results

Client Sample Description		93945				Collected:	6/21/2013	Lab ID:	0001
		OSAM-1							
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst	
ID-215	Hexavalent Chromium	0.0054	0.00069	µg/m ³	6/28/2013	MM	7/1/2013	MM	
Client Sample Description		93982				Collected:	6/21/2013	Lab ID:	0002
		OSAM-2							
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst	
ID-215	Hexavalent Chromium	0.0070	0.00066	µg/m ³	6/28/2013	MM	7/1/2013	MM	
Client Sample Description		93989				Collected:	6/21/2013	Lab ID:	0003
		OSAM-3							
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst	
ID-215	Hexavalent Chromium	0.0036	0.00069	µg/m ³	6/28/2013	MM	7/1/2013	MM	
Client Sample Description		93974				Collected:	6/21/2013	Lab ID:	0004
		PAM-1							
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst	
ID-215	Hexavalent Chromium	0.0043	0.00067	µg/m ³	6/28/2013	MM	7/1/2013	MM	
Client Sample Description		93950				Collected:	6/21/2013	Lab ID:	0005
		PAM-2							
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst	
ID-215	Hexavalent Chromium	0.0043	0.00067	µg/m ³	6/28/2013	MM	7/1/2013	MM	
Client Sample Description		93968				Collected:	6/21/2013	Lab ID:	0006
		PAM-3							
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst	
ID-215	Hexavalent Chromium	0.0059	0.00069	µg/m ³	6/28/2013	MM	7/1/2013	MM	
Client Sample Description		93973				Collected:	6/21/2013	Lab ID:	0007
		PAM-4							
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst	
ID-215	Hexavalent Chromium	0.0054	0.00069	µg/m ³	6/28/2013	MM	7/1/2013	MM	

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302902
 CustomerID: GTA51
 CustomerPO: 041316583
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/27/13 12:00 PM
 Collected: 6/21/2013

Project: 130467USA

Analytical Results

Client Sample Description 93966 **Collected:** 6/21/2013 **Lab ID:** 0008
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0081	0.00069	µg/m ³	6/28/2013	MM	7/1/2013	MM

Client Sample Description 93948 **Collected:** 6/21/2013 **Lab ID:** 0009
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0052	0.00069	µg/m ³	6/28/2013	MM	7/1/2013	MM

Client Sample Description 93958 **Collected:** 6/21/2013 **Lab ID:** 0010
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0028	0.00069	µg/m ³	6/28/2013	MM	7/1/2013	MM

Client Sample Description 93964 **Collected:** 6/21/2013 **Lab ID:** 0011
 Media Blank 1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	6/28/2013	MM	7/1/2013	MM

Client Sample Description 93978 **Collected:** 6/21/2013 **Lab ID:** 0012
 Field Blank 1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.010	µg/filter	6/28/2013	MM	7/2/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
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Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):
01302902

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302902

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
93945	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,413	6/21/13	17:30	OSAM-1	13 JUN 25 AM 10:53 RECEIVED EMSL CINNAMINSON, NJ
93982	5.0 µ PVC		15,119	6/21/13	17:45	OSAM-2	
93989	5.0 µ PVC		14,484	6/21/13	18:00	OSAM-3	
93974	5.0 µ PVC		14,965	6/21/13	19:00	PAM-1	
93950	5.0 µ PVC		14,994	6/21/13	19:30	PAM-2	
93968	5.0 µ PVC		14,555	6/21/13	19:40	PAM-3	
93973	5.0 µ PVC		14,413	6/21/13	19:50	PAM-4	
93966	5.0 µ PVC		14,413	6/21/13	20:05	PAM-5	
93948	5.0 µ PVC		14,555	6/21/13	20:10	PAM-6	
93958	5.0 µ PVC		14,413	6/21/13	20:30	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By <i>James P. [Signature]</i>	Date 6/24/13	Received By AK <i>Travis Allert</i>	Date 6/25/13 9:25a 6/27/13 12:00pm
		FX 23°C	

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

12



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/2/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/27/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302903. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302903

CustomerID: GTA51

CustomerPO: 041316596

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/27/13 12:00 PM
 Collected: 6/22/2013

Project: 130467USA

Analytical Results

Client Sample Description 93946 OSAM-1 **Collected:** 6/22/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0038	0.00068	µg/m ³	6/28/2013	MM	7/2/2013	MM

Client Sample Description 93942 OSAM-2 **Collected:** 6/22/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0059	0.00067	µg/m ³	6/28/2013	MM	7/2/2013	MM

Client Sample Description 93979 OSAM-3 **Collected:** 6/22/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0057	0.00068	µg/m ³	6/28/2013	MM	7/2/2013	MM

Client Sample Description 93965 PAM-1 **Collected:** 6/22/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0040	0.00069	µg/m ³	6/28/2013	MM	7/2/2013	MM

Client Sample Description 93953 PAM-2 **Collected:** 6/22/2013 **Lab ID:** 0005

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0036	0.00071	µg/m ³	6/28/2013	MM	7/2/2013	MM

Client Sample Description 93944 PAM-3 **Collected:** 6/22/2013 **Lab ID:** 0006

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0044	0.00069	µg/m ³	6/28/2013	MM	7/2/2013	MM

Client Sample Description 93943 PAM-4 **Collected:** 6/22/2013 **Lab ID:** 0007

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0040	0.00068	µg/m ³	6/28/2013	MM	7/2/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302903

CustomerID: GTA51

CustomerPO: 041316596

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/27/13 12:00 PM
 Collected: 6/22/2013

Project: 130467USA

Analytical Results

Client Sample Description 93955 **Collected:** 6/22/2013 **Lab ID:** 0008
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0032	0.00070	µg/m ³	6/28/2013	MM	7/2/2013	MM

Client Sample Description 93976 **Collected:** 6/22/2013 **Lab ID:** 0009
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0041	0.00067	µg/m ³	6/28/2013	MM	7/2/2013	MM

Client Sample Description 93985 **Collected:** 6/22/2013 **Lab ID:** 0010
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0027	0.00069	µg/m ³	6/28/2013	MM	7/2/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

01302903

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302903

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
1	93946	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,760	6/22/13	17:30	OSAM-1	
2	93942		14,904	6/22/13	17:45	OSAM-2	
3	93979		14,688	6/22/13	18:00	OSAM-3	
4	93965		14,555	6/22/13	18:40	PAM-1	
5	93953		14,058	6/22/13	19:10	PAM-2	
6	93944		14,535	6/22/13	19:25	PAM-3	
7	93943		14,697	6/22/13	19:30	PAM-4	
8	93955		14,271	6/22/13	19:45	PAM-5	
9	93976		14,839	6/22/13	19:50	PAM-6	
10	93985		14,555	6/22/13	20:10	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Tina Brown</i>	6/24/13	<i>RK</i>	6/25/13 9:25A
		<i>Brian Albert</i>	6/27/13 12:00pm
		FX 23°C	

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.





EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/2/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 6/28/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011302949. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011302949

CustomerID: GTA51

CustomerPO: 041316566

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/28/13 4:00 PM
 Collected: 6/23/2013

Project: 130467USA

Analytical Results

Client Sample Description 93980 OSAM-1 **Collected:** 6/23/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0018	0.00068	µg/m ³	7/1/2013	MM	7/2/2013	MM

Client Sample Description 93987 OSAM-2 **Collected:** 6/23/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.023	0.00067	µg/m ³	7/1/2013	MM	7/2/2013	MM

Client Sample Description 93941 OSAM-3 **Collected:** 6/23/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	ND	0.00067	µg/m ³	7/1/2013	MM	7/2/2013	MM

Client Sample Description 93988 PAM-1 **Collected:** 6/23/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0045	0.00068	µg/m ³	7/1/2013	MM	7/2/2013	MM

Client Sample Description 93969 PAM-2 **Collected:** 6/23/2013 **Lab ID:** 0005

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00067	µg/m ³	7/1/2013	MM	7/2/2013	MM

Client Sample Description 93954 PAM-3 **Collected:** 6/23/2013 **Lab ID:** 0006

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00068	µg/m ³	7/1/2013	MM	7/2/2013	MM

Client Sample Description 93986 PAM-4 **Collected:** 6/23/2013 **Lab ID:** 0007

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0013	0.00068	µg/m ³	7/1/2013	MM	7/2/2013	MM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011302949
 CustomerID: GTA51
 CustomerPO: 041316566
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 06/28/13 4:00 PM
 Collected: 6/23/2013

Project: 130467USA

Analytical Results

Client Sample Description 93961 **Collected:** 6/23/2013 **Lab ID:** 0008
 PAM-5

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.00095	0.00070	µg/m ³	7/1/2013	MM	7/2/2013	MM

Client Sample Description 93951 **Collected:** 6/23/2013 **Lab ID:** 0009
 PAM-6

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00068	µg/m ³	7/1/2013	MM	7/2/2013	MM

Client Sample Description 93947 **Collected:** 6/23/2013 **Lab ID:** 0010
 PAM-7

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0027	0.00068	µg/m ³	7/1/2013	MM	7/2/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

01302949

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011302949

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
1 93980	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,760	6/23/13	17:30	OSAM-1	
2 93987	5.0 µ PVC		14,904	6/23/13	17:45	OSAM-2	
3 93941	5.0 µ PVC		14,935	6/23/13	18:10	OSAM-3	
4 93988	5.0 µ PVC		14,801	6/23/13	18:30	PAM-1	
5 93969	5.0 µ PVC		14,872	6/23/13	18:50	PAM-2	
6 93954	5.0 µ PVC		14,729	6/23/13	19:05	PAM-3	
7 93986	5.0 µ PVC		14,697	6/23/13	19:10	PAM-4	
8 93961	5.0 µ PVC		14,342	6/23/13	19:25	PAM-5	
9 93951	5.0 µ PVC		14,697	6/23/13	19:30	PAM-6	
10 93947	5.0 µ PVC		14,626	6/23/13	19:50	PAM-7	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Tina Pope</i>	6/24/13	<i>Francis Albert</i> 23°C	6/28/13 4:00pm

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

10



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/16/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/9/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011303114. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011303114

CustomerID: GTA51

CustomerPO: 041317949

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/09/13 4:30 PM

Project: 130467USA

Analytical Results

Client Sample Description 94023 OSAM-1 **Collected:** 7/2/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0023	0.00065	µg/m ³	7/15/2013	MM	7/15/2013	MM

Client Sample Description 94021 OSAM-2 **Collected:** 7/2/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0026	0.00068	µg/m ³	7/15/2013	MM	7/15/2013	MM

Client Sample Description 94026 OSAM-3 **Collected:** 7/2/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0041	0.00067	µg/m ³	7/15/2013	MM	7/15/2013	MM

Client Sample Description 94013 OSAM-4 **Collected:** 7/2/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0031	0.00068	µg/m ³	7/15/2013	MM	7/15/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY-PRODUCTS-TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011303114

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011303114

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 26112 (50 – 100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments	
94023	5.0 μ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	15,466	7/2/13	20:00	OSAM-1		
94021	5.0 μ PVC		14,770	7/2/13	19:42	OSAM-2		
94026	5.0 μ PVC		14,941	7/2/13	19:00	OSAM-3		
94013	5.0 μ PVC		14,800	7/2/13	19:30	OSAM-4		
	5.0 μ PVC							
	5.0 μ PVC							
	5.0 μ PVC							
	5.0 μ PVC							

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Tanner Palm</i>	7/3/13	<i>Scott J. Cunningham</i>	7/8/13
		<i>Francis Allet</i>	7/9/13 4:30pm

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/16/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/12/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011303224. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011303224

CustomerID: GTA51

CustomerPO: 041318319

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/12/13 4:15 PM

Project: 130467USA

Analytical Results

Client Sample Description 93997 **Collected:** 7/8/2013 **Lab ID:** 0001
 OSAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0024	0.00067	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 94024 **Collected:** 7/8/2013 **Lab ID:** 0002
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0020	0.00067	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 94007 **Collected:** 7/8/2013 **Lab ID:** 0003
 OSAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0015	0.00067	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 94004 **Collected:** 7/8/2013 **Lab ID:** 0004
 OSAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0030	0.00066	µg/m ³	7/15/2013	MM	7/16/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY-PRODUCTS-TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

01303224

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 26112 (50 – 100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
① 93997	5.0 μ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,847	7/8/13	OSAM-1	13 JUL 12 AM 11:03 RECEIVED EMSL CINNAMINSON, NJ
② 94024	5.0 μ PVC		14,994	7/8/13	OSAM-2	
③ 94007	5.0 μ PVC		14,921	7/8/13	OSAM-3	
④ 94004	5.0 μ PVC		15,068	7/8/13	OSAM-4	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
Tanner Purr	7/9/13	Scott H. [Signature]	7/11/13
			7/12/13 4:15pm

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

4

011303224



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/16/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/9/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011303111. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.emsl.com> jsmith@emsl.com

EMSL Order: 011303111
 CustomerID: GTA51
 CustomerPO: 041317931
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/09/13 4:00 PM

Project: 130467USA

Analytical Results

Client Sample Description 94039 **Collected:** 7/3/2013 **Lab ID:** 0001
 OSAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0029	0.00068	µg/m ³	7/12/2013	MM	7/15/2013	MM

Client Sample Description 94032 **Collected:** 7/3/2013 **Lab ID:** 0002
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0021	0.00068	µg/m ³	7/12/2013	MM	7/15/2013	MM

Client Sample Description 94010 **Collected:** 7/3/2013 **Lab ID:** 0003
 OSAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0095	0.00067	µg/m ³	7/12/2013	MM	7/15/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011303111

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395		Phone : (410) 792-9446		Fax : (410) 792-7395	
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.

Media Type: 37mm, 3 piece Cassette

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 26112 (50 – 100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① 94039	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,768	7/3/13	19:40	OSAM-1	
② 94032	5.0 µ PVC		14,617	7/3/13	19:28	OSAM-2	
94030	5.0 µ PVC		14,320	7/3/13	18:52	OSAM-3	SAC
③ 94010	5.0 µ PVC		14,944	7/3/13	19:20	OSAM-4	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

<i>Travis Albert</i>	Date	Received By
	7/8/13	<i>Scott W. [Signature]</i>
		<i>Travis Albert 7/9/13 4:00pm 24°C</i>

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/16/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/9/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011303112. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011303112

CustomerID: GTA51

CustomerPO: 041317930

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/09/13 4:00 PM

Project: 130467USA

Analytical Results

Client Sample Description 94005 **Collected:** 7/4/2013 **Lab ID:** 0001
 OSAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0060	0.00066	µg/m ³	7/12/2013	MM	7/15/2013	MM

Client Sample Description 94037 **Collected:** 7/4/2013 **Lab ID:** 0002
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0049	0.00066	µg/m ³	7/12/2013	MM	7/15/2013	MM

Client Sample Description 94011 **Collected:** 7/4/2013 **Lab ID:** 0003
 OSAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0077	0.00071	µg/m ³	7/12/2013	MM	7/15/2013	MM

Client Sample Description 94017 **Collected:** 7/4/2013 **Lab ID:** 0004
 OSAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0040	0.00066	µg/m ³	7/12/2013	MM	7/15/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

01303112

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011303112

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 26112 (50 – 100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① 94005	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	15,140	7/4/13	20:39	OSAM-1	
② 94037	5.0 µ PVC		15,120	7/4/13	20:25	OSAM-2	
③ 94011	5.0 µ PVC		14,081	7/4/13	19:42	OSAM-3	
④ 94017	5.0 µ PVC		15,103	7/4/13	20:08	OSAM-4	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>James Perkins</i>	7/8/13	<i>Scott Cunningham</i>	7/8/13
		<i>Janis Allert</i>	7/9/13 4:00pm

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/16/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/9/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011303113. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011303113

CustomerID: GTA51

CustomerPO: 041317928

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/09/13 4:00 PM

Project: 130467USA

Analytical Results

Client Sample Description 93995 OSAM-1 **Collected:** 7/5/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0054	0.00069	µg/m ³	7/12/2013	MM	7/16/2013	MM

Client Sample Description 94029 OSAM-2 **Collected:** 7/5/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0036	0.00069	µg/m ³	7/12/2013	MM	7/16/2013	MM

Client Sample Description 94016 OSAM-3 **Collected:** 7/5/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0035	0.00067	µg/m ³	7/12/2013	MM	7/16/2013	MM

Client Sample Description 94015 OSAM-4 **Collected:** 7/5/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0089	0.00068	µg/m ³	7/12/2013	MM	7/16/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

07130313

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 26112 (50 - 100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
93995	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,484	7/5/13	20:19	OSAM-1	
94029	5.0 µ PVC		14,484	7/5/13	20:05	OSAM-2	
94016	5.0 µ PVC		14,839	7/5/13	19:22	OSAM-3	
94015	5.0 µ PVC		14,626	7/5/13	19:48	OSAM-4	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Tommy Sten</i>	7/8/13	<i>Scott Hummer</i>	7/8/13
		<i>Frank Allt</i>	7/9/13 4:00pm

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/16/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/12/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011303225. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011303225

CustomerID: GTA51

CustomerPO: 041318321

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/12/13 4:15 PM

Project: 130467USA

Analytical Results

Client Sample Description 94027 OSAM-1 **Collected:** 7/7/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0024	0.00069	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 94025 OSAM-2 **Collected:** 7/7/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0030	0.00069	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 94020 OSAM-3 **Collected:** 7/7/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0030	0.00068	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 94006 OSAM-4 **Collected:** 7/7/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0048	0.00068	µg/m ³	7/15/2013	MM	7/16/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS-TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011303225

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011303225

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.							Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 26112 (50 – 100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
94027	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,484	7/7/13	19:45	OSAM-1	13 JUL 12 AM 11:03 EMSL CINNAMINSON, NJ
94025	5.0 µ PVC		14,484	7/7/13	19:30	OSAM-2	
94020	5.0 µ PVC		14,626	7/7/13	19:00	OSAM-3	
94006	5.0 µ PVC		14,676	7/7/13	19:15	OSAM-4	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Tommy P...</i>	7/9/13	<i>[Signature]</i>	7/11/13
		24°C	7/12/13 4:15pm

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

4



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/16/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/12/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011303226. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011303226

CustomerID: GTA51

CustomerPO: 041318312

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/12/13 4:15 PM

Project: 130467USA

Analytical Results

Client Sample Description 93996 OSAM-1 **Collected:** 7/9/2013 **Lab ID:** 0001

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0021	0.00071	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 94022 OSAM-2 **Collected:** 7/9/2013 **Lab ID:** 0002

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0036	0.00072	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 94028 OSAM-3 **Collected:** 7/9/2013 **Lab ID:** 0003

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0051	0.00068	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 93998 OSAM-4 **Collected:** 7/9/2013 **Lab ID:** 0004

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0031	0.00068	µg/m ³	7/15/2013	MM	7/16/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011303226

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011303226

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 26112 (50 – 100)
						Other (Call Lab) <input type="checkbox"/>

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① 93996	5.0 μ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,009	7/9/13	18:42	OSAM-1	13 JUL 12 AM 11:02 RECEIVED EMSL CINNAMINSON, NJ
② 94022	5.0 μ PVC		13,938	7/9/13	19:00	OSAM-2	
③ 94028	5.0 μ PVC		14,780	7/9/13	19:18	OSAM-3	
④ 93998	5.0 μ PVC		14,799	7/9/13	20:03	OSAM-4	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
Tara Piv	7/9/13	<i>[Signature]</i> J. Vanidew	7/11/13 7/12/13 4:15pm

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

7/16/2013

Phone: (410) 792-9446
Fax: (410) 792-7395

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 7/12/2013. The results are tabulated on the attached data pages for the following client designated project:

130467USA

The reference number for these samples is EMSL Order #011303227. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



Accreditation #100194 NELAC Certification: NJ 03036,
NY 10872

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the AIHA, unless specifically indicated. The final results are not field blank corrected. The laboratory is not responsible for final results calculated using air volumes that have been provided by non-laboratory personnel. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011303227

CustomerID: GTA51

CustomerPO: 041318316

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/12/13 4:15 PM

Project: 130467USA

Analytical Results

Client Sample Description 94038 **Collected:** 7/6/2013 **Lab ID:** 0001
 OSAM-1

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0028	0.00069	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 94030 **Collected:** 7/6/2013 **Lab ID:** 0002
 OSAM-2

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0019	0.00069	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 94014 **Collected:** 7/6/2013 **Lab ID:** 0003
 OSAM-3

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0037	0.00069	µg/m ³	7/15/2013	MM	7/16/2013	MM

Client Sample Description 93993 **Collected:** 7/6/2013 **Lab ID:** 0004
 OSAM-4

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
ID-215	Hexavalent Chromium	0.0050	0.00068	µg/m ³	7/15/2013	MM	7/16/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit



EMSL ANALYTICAL, INC.
LABORATORY-PRODUCTS-TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

011303227

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

011303227

Report To Contact Name: Sam Stevenson				Bill To Company: Geo-Technology Associates, Inc.			
Company Name: Geo-Technology Associates, Inc.				Attention To: Sam Stevenson			
Street: 14280 Park Center Drive				Street: 14280 Park Center Drive			
City: Laurel	State/Province: MD	Zip/Postal Code: 20707		City: Laurel	State/Province: MD	Zip/Postal Code: 20707	
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446		Fax : (410) 792-7395	
Project Name: 130467USA					U.S. State where Samples Collected: Maryland		
Number of Samples in Shipment:		Date of Shipment:		Purchase Order:		Sampled By (Signature):	
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail				Email Results To: sstevenson@gtaeng.com			

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 26112 (50 – 100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
① 94038	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,545	7/6/13	20:05	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ JUL 12 AM 11:02
② 94030	5.0 µ PVC		14,606	7/6/13	19:50	OSAM-2	
③ 94014	5.0 µ PVC		14,596	7/6/13	19:20	OSAM-3	
④ 93993	5.0 µ PVC		14,790	7/6/13	19:37	OSAM-4	

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Tommy Powell</i>	7/9/13	<i>Scott Allen</i> 24°C	7/11/13 7/12/13 4:15pm

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

Y

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041317212
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/01/13 8:40 AM
 Analysis Date: 7/1/2013
 Collected: 6/25/2013

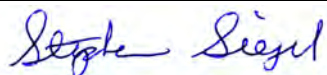
Project: 130467USA

**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
 8/15/94**

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
93963 041317212-0001	OSAM-1	15527	0.254	0.016	0.003	
93949 041317212-0002	OSAM-3	15750	0.232	0.015	0.003	
93960 041317212-0003	OSAM-4	16150	0.249	0.015	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)
 Shane Feret (3)


 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 07/02/2013 10:48:42



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041317212

EMSL ANALYTICAL, INC.
200 Route 130 North
CINNAMINSON, NJ 08077
PHONE (800) 210-3675
FAX (856) 958-9500

041317212

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
93963	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	15,527	6/25/13	20:00	OSAM-1	13 JUL -1 AM 9:39 CINNAMINSON, NJ ANALYST: J. J. J.
93949	5.0 µ PVC		15,750	6/25/13	19:00	OSAM-3	
93960	5.0 µ PVC		16,150	6/25/13	19:39	OSAM-4	
	5.0 µ PVC						
	5.0 µ PVC						
	5.0 µ PVC						
	5.0 µ PVC						
	5.0 µ PVC						
	5.0 µ PVC						

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/28/13	<i>[Signature]</i>	6/28/13
<i>[Signature]</i>	6/28/13	R.D. FL 840 RM	7-1-2013

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

3



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041317210
CustomerID: GTA51
CustomerPO:
ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
Fax: (410) 792-7395
Received: 07/01/13 8:40 AM
Analysis Date: 7/1/2013
Collected: 6/27/2013

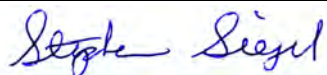
Project: 130467USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
93984 041317210-0001	OSAM-1	14931	0.222	0.015	0.003	
93970 041317210-0002	OSAM-3	14542	0.197	0.014	0.003	
93952 041317210-0003	OSAM-4	14413	0.206	0.014	0.003	

Notes: Discernable field blank not submitted with samples.
Results are not field blank corrected.

Analyst(s)
Shane Feret (3)


Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accredited #100194

Initial report from 07/02/2013 10:24:35



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041317210

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041317210

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA			U.S. State where Samples Collected: Maryland		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments	
93984	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,931	6/27/13	19:42	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUL - 1 AM 9:42	
93970	5.0 µ PVC		14,542	6/27/13	18:30	OSAM-3		
93952	5.0 µ PVC		14,413	6/27/13	19:00	OSAM-4		
	5.0 µ PVC							
	5.0 µ PVC							
	5.0 µ PVC							
	5.0 µ PVC							
	5.0 µ PVC							
	5.0 µ PVC							

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/28/13	<i>[Signature]</i>	6/28/13
<i>[Signature]</i>	6/28/13	<i>[Signature]</i>	7-1-2013

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

3



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041317201
CustomerID: GTA51
CustomerPO:
ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
Fax: (410) 792-7395
Received: 07/01/13 8:40 AM
Analysis Date: 7/1/2013
Collected: 6/26/2013

Project: 130467USA

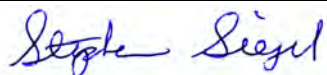
**Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2,
8/15/94**

<i>Sample</i>	<i>Location</i>	<i>Volume (L)</i>	<i>Sample Weight (mg)</i>	<i>Concentration (mg/m³)</i>	<i>Reporting Limit (mg/m³)</i>	<i>Notes</i>
93977 041317201-0001	OSAM-1	14889	0.069	0.005	0.003	
93962 041317201-0002	OSAM-3	14612	0.252	0.017	0.003	
93940 041317201-0003	OSAM-4	14494	0.341	0.024	0.003	

Notes: Discernable field blank not submitted with samples.
Results are not field blank corrected.

Analyst(s)

Shane Feret (3)


Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 07/02/2013 10:27:46



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041317201

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

041317201

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 28127 (401 - 450)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments
93977	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,889	6/26/13	20:00	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUL - 1 AM 9:40
93962	5.0 µ PVC		14,612	6/26/13	18:25	OSAM-3	
93940	5.0 µ PVC		14,494	6/26/13	19:20	OSAM-4	
	5.0 µ PVC						
	5.0 µ PVC						
	5.0 µ PVC						
	5.0 µ PVC						
	5.0 µ PVC						
	5.0 µ PVC						
	5.0 µ PVC						

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	6/28/13	<i>[Signature]</i>	6/28/13
<i>[Signature]</i>	6/28/13	<i>[Signature]</i>	7-1-2013

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

3



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041317507
CustomerID: GTA51
CustomerPO:
ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
Fax: (410) 792-7395
Received: 07/03/13 9:25 AM
Analysis Date: 7/3/2013
Collected: 6/28/2013

Project: 130467USA


Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
93956 041317507-0001	OSAM-1	14942	0.279	0.019	0.003	
93972 041317507-0002	OSAM-2	14139	0.156	0.011	0.004	
93959 041317507-0003	OSAM-3	14626	0.318	0.022	0.003	
93975 041317507-0004	OSAM-4	14372	0.196	0.014	0.003	

Notes: Discernable field blank not submitted with samples.
Results are not field blank corrected.

Analyst(s)

Shane Feret (4)


Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 07/05/2013 10:35:38



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041317502

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						Manufacturer/Part #: Zefon 7P53P
						Lot #: 26112 (50 – 100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments	
93956	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,942	6/28/13	19:25	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUL -3 AM 10:19	
93972	5.0 µ PVC		14,139	6/28/13	19:11	OSAM-2		
93959	5.0 µ PVC		14,626	6/28/13	18:10	OSAM-3		
93975	5.0 µ PVC		14,372	6/28/13	18:36	OSAM-4		
	5.0 µ PVC							
	5.0 µ PVC							
	5.0 µ PVC							
	5.0 µ PVC							

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Kevin Palm</i>	7/2/13	<i>Scott W. Cummins</i>	7/2/13
<i>Scott W. Cummins</i>	7/2/13	UC RP	7-3-13 9:25

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

4

041317502

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041317503
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/03/13 9:25 AM
 Analysis Date: 7/3/2013
 Collected: 6/29/2013

Project: 130467USA


Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

<i>Sample</i>	<i>Location</i>	<i>Volume (L)</i>	<i>Sample Weight (mg)</i>	<i>Concentration (mg/m³)</i>	<i>Reporting Limit (mg/m³)</i>	<i>Notes</i>
93999 041317503-0001	OSAM-1	14981	0.181	0.012	0.003	
94019 041317503-0002	OSAM-2	15023	0.100	0.007	0.003	
94035 041317503-0003	OSAM-3	14801	0.120	0.008	0.003	
94036 041317503-0004	OSAM-4	14555	0.102	0.007	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (4)



 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 07/05/2013 10:40:16



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041319503

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395	Phone : (410) 792-9446		Fax : (410) 792-7395
Project Name: 130467USA			U.S. State where Samples Collected: Maryland		
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@qtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.

2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Media Type: 37mm, 3 piece Cassette
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manufacturer/Part #: Zefon 7P53P
							Lot #: 26112 (50 – 100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments	
93999	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	14,981	6/29/13	19:05	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ 13 JUL -3 AM 10:26	
94019	5.0 µ PVC		15,023	6/29/13	18:55	OSAM-2		
94035	5.0 µ PVC		14,801	6/29/13	18:00	OSAM-3		
94036	5.0 µ PVC		14,555	6/29/13	18:30	OSAM-4		
	5.0 µ PVE							
	5.0 µ PVC							
	5.0 µ PVE							
	5.0 µ PVE							
	5.0 µ PVC							
	5.0 µ PVC							

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>[Signature]</i>	7/2/13	<i>[Signature]</i>	7/2/13
	7/2/13	<i>[Signature]</i>	7/3/13 925

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media. Samples were not collected from a welding, plating or painting environment.

4

041317503

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041317502
 CustomerID: GTA51
 CustomerPO:
 ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/03/13 9:14 AM
 Analysis Date: 7/3/2013
 Collected: 7/1/2013

Project: 130467USA

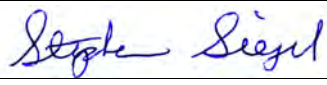
Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
94009 041317502-0003	OSAM-1	14839	0.094	0.006	0.003	
94001 041317502-0004	OSAM-2	14342	0.150	0.010	0.003	
93992 041317502-0005	OSAM-3	14555	0.117	0.008	0.003	
94002 041317502-0006	OSAM-4	14342	0.230	0.016	0.003	
94000 041317502-0001	OSAM-1	0	<0.05	N/A	N/A	Field Blank
94012 041317502-0002	OSAM-1	0	<0.05	N/A	N/A	Field Blank

Notes: Discernable field blank submitted with samples.
 Results are not field blank corrected.

Analyst(s)

 Shane Feret (6)



 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Report Amended: 07/05/2013 12:59:20 Replaces the Inital Report 07/05/2013 10:43:39. Reason Code: Data Entry-Blanks Samples Added



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041317502

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive					
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time - Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon ZP53B
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 26112 (50 - 100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments	
94000	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	Media Blank	7/1/13	-	OSAM-1	RECEIVED EMSL CINNAMINSON, NJ 3 JUL 3 AM ID: 25	
94012	5.0 µ PVC		Field Blank	7/1/13	19:20	OSAM-1		
94009	5.0 µ PVC		14,839	7/1/13	19:20	OSAM-1		
94001	5.0 µ PVC		14,342	7/1/13	19:05	OSAM-2		
93992	5.0 µ PVC		14,555	7/1/13	18:28	OSAM-3		
94002	5.0 µ PVC		14,342	7/1/13	18:50	OSAM-4		
	5.0 µ PVC							
	5.0 µ PVC							
	5.0 µ PVC							
	5.0 µ PVC							

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W. Cummins</i>	7/2/13	<i>Scott W. Cummins</i>	7/2/13
	7/2/13		7-3-13

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

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041317502

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041317498

CustomerID: GTA51

CustomerPO:

ProjectID:

Attn: **Sam Stevenson**
Geo-Technology Associates, Inc.
14280 Park Center Drive
Suite A
Laurel, MD 20707

Phone: (410) 792-9446
 Fax: (410) 792-7395
 Received: 07/03/13 9:25 AM
 Analysis Date: 7/3/2013
 Collected: 6/30/2013

Project: 130467USA

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
93990 041317498-0001	OSMA-1	15350	0.175	0.011	0.003	
94003 041317498-0002	OSMA-2	14831	0.282	0.019	0.003	
94033 041317498-0003	OSMA-3	15223	0.316	0.021	0.003	
94031 041317498-0004	OSMA-4	15350	0.271	0.018	0.003	

Notes: Discernable field blank not submitted with samples.
 Results are not field blank corrected.

Analyst(s)

Shane Feret (4)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Accredited #100194

Initial report from 07/05/2013 10:32:46



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only):

041317498

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Sam Stevenson			Bill To Company: Geo-Technology Associates, Inc.		
Company Name: Geo-Technology Associates, Inc.			Attention To: Sam Stevenson		
Street: 14280 Park Center Drive			Street: 14280 Park Center Drive		
City: Laurel	State/Province: MD	Zip/Postal Code: 20707	City: Laurel	State/Province: MD	Zip/Postal Code: 20707
Phone : (410) 792-9446		Fax : (410) 792-7395		Phone : (410) 792-9446	
Fax : (410) 792-7395				Fax : (410) 792-7395	
Project Name: 130467USA				U.S. State where Samples Collected: Maryland	
Number of Samples in Shipment:		Date of Shipment:	Purchase Order:		Sampled By (Signature):
Please Provide results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> Mail			Email Results To: sstevenson@gtaeng.com		

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.						Media Type: 37mm, 3 piece Cassette	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #: Zefon 7P53P
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lot #: 26112 (50 – 100)

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time		Location	Comments	
93999 93990	5.0 µ PVC	Cr VI OSHA 215 Total Particulates NIOSH 0500	15,350	6/30/13	19:40	OSAM-1		
94019 94003	5.0 µ PVC		14,831	6/30/13	19:25	OSAM-2		
94035 94033	5.0 µ PVC		15,223	6/30/13	18:48	OSAM-3		
94036 94031	5.0 µ PVC		14,961	6/30/13	19:10	OSAM-4		
	5.0 µ PVC							
	5.0 µ PVC							
	5.0 µ PVC							
	5.0 µ PVC							

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
<i>Scott W. Long</i>	7/2/13	<i>Scott W. Long</i>	7/2/13
	7/2/13		7/3-13 9:25

Comments: OK to run OSHA 215 and NIOSH 0500 from same sample media.
Samples were not collected from a welding, plating or painting environment.

13 JUL -3 AM
CINNAMINSON
EMSL

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