

Written Program Indoor Air Quality Standard - PEOSH  
Indoor Air Quality Survey & Testing for Sick Building Syndrome  
Remediation/Cleanup of Mold & Moisture Problems in Schools & Commercial Buildings  
Indoor Air Quality in Schools Awareness Training for Administrative/Maintenance Personnel  
Asbestos Surveys and AHERA Management Plans  
AHERA 2 Hour Awareness Training  
"Non-Friable" Asbestos Final Air Clearance Sampling  
Right to Know Survey, Compliance & PEOSHA Training  
Written Hazard Communication Program (PEOSHA HCS)

## **RAMM Environmental Services, Inc.**

*Commitment, Excellence, Integrity*

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77 Nottingham Road, PO Box 308  
Fair Lawn, New Jersey 07410  
Phone: (201) 475-9880  
Fax: (201) 475-9881

**LEAD IN DRINKING WATER ANALYSIS  
FOR  
SADDLE BROOK BOARD OF EDUCATION  
LONG MEMORIAL SCHOOL  
SADDLE BROOK, NEW JERSEY  
APRIL 13, 2016**

**Prepared for:**  
**Saddle Brook Township Board of Education**  
**355 Mayhill Street**  
**Saddle Brook, NJ 07663**  
**Attn.: Mr. Keith Siroky**  
**Facilities Manager**  
**Tel: (201) 697-4400**  
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**Prepared by:**  
**RAMM Environmental Services, Inc.**  
**77 Nottingham Road, PO Box 308**  
**Fair Lawn, NJ 07410**  
**Mr. Rodger Headrick**  
**President**  
**Tel: (201) 475-9880**  
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**May 4, 2016**

# **RAMM**

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## **INTRODUCTION**

RAMM Environmental Services, Inc. was requested by the Saddle Brook Board of Education to perform water sampling for lead content in the Long Memorial School located in Saddle Brook, New Jersey.

Water quality sampling functions were performed by RAMM at the Long Memorial School located in Saddle Brook, New Jersey on April 13, 2016, to determine the quality of drinking water for lead content.

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**WATER QUALITY MONITORING RESULTS  
LEAD IN DRINKING WATER ANALYSIS**

Lead in drinking water sampling was performed during RAMM's April 13, 2016 site visit. The (E.P.A.) Environmental Protection Agency has established an enforceable lead concentration action level for public water supplies. The lead action level is 15 micrograms per liter (mg/L) = parts per billion (ppb), which is equivalent to 0.015 milligrams per liter (mg/L) = parts per million (ppm).

**Smith School**

Lead in drinking water measurements were collected in seven (7) different locations of the building.

<i>Sample #</i>	<i>Location</i>	<i>Lead Concentration</i>
16-0413-01	Cafeteria	<3.0 ppb
16-0413-02	Hallway Adjacent Supply Room	<3.0 ppb
16-0413-03	Room 103	10.8 ppb
16-0413-04	Room 110	8.35 ppb
16-0413-05	Room 109	131 ppb
16-0413-06	Room 102	27.9 ppb
16-0413-07	Kindergarten	22.2 ppb
16-0413-08	Room 107	43.0 ppb
16-0413-09	Hallway Adjacent Library	<3.0 ppb
16-0413-10	Room 208	<3.0 ppb
16-0413-11	Room 207	<3.0 ppb
16-0413-12	Room 206	<3.0 ppb
16-0413-13	Room 205	<3.0 ppb
16-0413-14	Room 214	<3.0 ppb
16-0413-15	Hallway Across Room 213	<3.0 ppb
16-0413-16	Room 213	4.03 ppb
16-0413-17	Room 212	18.9 ppb
16-0413-18	Room 203	42.0 ppb
16-0413-19	Room 202	34.7 ppb
16-0413-20	Room 210	41.5 ppb
16-0413-21	Room 209	144 ppb

All results report less than the United States Environmental Protection Agency (U.S.E.P.A.) Guidelines and the New Jersey Department of Environmental Protection

(N.J.D.E.P.) for safe drinking water (15 ppb). Currently the drinking water is safe and poses no health hazard to building occupants, with the exception of drinking water fountain at the following locations:

Long Memorial School – Room Nos. 109, 102, 107, 212, 203, 202, 210, 209, and Kindergarten

## RECOMMENDATIONS

All Problem Areas: Turn off water to fountains. Hire plumber to remove all lead containing welding solder from copper water pipes, flush. Upon completion of work operate follow-up Lead in Drinking Water Sampling and Analysis.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>[cinnaminsonleadlab@emsl.com](mailto:cinnaminsonleadlab@emsl.com)

EMSL Order: 201603984

CustomerID: RAMM50

CustomerPO:

ProjectID:


Attn: **Rodger Headrick**  
**RAMM Environmental Services, Inc.**  
**77 Nottingham Road**  
**Fair Lawn, NJ 07410**

Phone: (201) 475-9880  
Fax: (201) 475-9881  
Received: 04/15/16 9:00 AM  
Collected: 4/13/2016

Project: 16-0413 / Long Memorial School Saddle Brook, NJ

**Test Report: Lead in Water by Furnace AAS (EPA 200.9)**

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
16-0413-01	201603984-0001	4/13/2016	5/2/2016	<3.00 ppb
Site: Cafeteria				
16-0413-02	201603984-0002	4/13/2016	5/2/2016	<3.00 ppb
Site: Hallway by Supply Room #119				
16-0413-03	201603984-0003	4/13/2016	5/2/2016	10.8 ppb
Site: Room #103				
16-0413-04	201603984-0004	4/13/2016	5/2/2016	8.35 ppb
Site: Room # 110				
16-0413-05	201603984-0005	4/13/2016	5/3/2016	131 ppb
Site: Room #109				
16-0413-06	201603984-0006	4/13/2016	5/2/2016	27.9 ppb
Site: Room #102				
16-0413-07	201603984-0007	4/13/2016	5/2/2016	22.2 ppb
Site: Room #Kindergarden				
16-0413-08	201603984-0008	4/13/2016	5/2/2016	43.0 ppb
Site: Room #107				
16-0413-09	201603984-0009	4/13/2016	5/2/2016	<3.00 ppb
Site: Hallway by Library				
16-0413-10	201603984-0010	4/13/2016	5/2/2016	<3.00 ppb
Site: Room #208				
16-0413-11	201603984-0011	4/13/2016	5/2/2016	<3.00 ppb
Site: Room #207				
16-0413-12	201603984-0012	4/13/2016	5/2/2016	<3.00 ppb
Site: Room #206				
16-0413-13	201603984-0013	4/13/2016	5/2/2016	<3.00 ppb
Site: Room #205				
16-0413-14	201603984-0014	4/13/2016	5/2/2016	<3.00 ppb
Site: Room #214				
16-0413-15	201603984-0015	4/13/2016	5/2/2016	<3.00 ppb
Site: Hallway Across Room #213				

  
Phillip Worby, Lead Laboratory Manager  
or other approved signatory

The test results contained within this report meet the requirements of NELAP unless otherwise noted. This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit.  
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NJ-NELAP 03036

Initial report from 05/03/2016 18:21:28

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>[cinnaminsonleadlab@emsl.com](mailto:cinnaminsonleadlab@emsl.com)

EMSL Order: 201603984

CustomerID: RAMM50

CustomerPO:

ProjectID:

Attn: **Rodger Headrick**  
**RAMM Environmental Services, Inc.**  
**77 Nottingham Road**  
**Fair Lawn, NJ 07410**

Phone: (201) 475-9880  
Fax: (201) 475-9881  
Received: 04/15/16 9:00 AM  
Collected: 4/13/2016

Project: 16-0413 / Long Memorial School Saddle Brook, NJ

**Test Report: Lead in Water by Furnace AAS (EPA 200.9)**

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
16-0413-16	201603984-0016	4/13/2016	5/2/2016	4.03 ppb
	Site: Room #213			
16-0413-17	201603984-0017	4/13/2016	5/2/2016	18.9 ppb
	Site: Room #212			
16-0413-18	201603984-0018	4/13/2016	5/2/2016	42.0 ppb
	Site: Room #203			
16-0413-19	201603984-0019	4/13/2016	5/2/2016	34.7 ppb
	Site: Room #202			
16-0413-20	201603984-0020	4/13/2016	5/2/2016	41.5 ppb
	Site: Room #210			
16-0413-21	201603984-0021	4/13/2016	5/2/2016	144 ppb
	Site: Room #209			

Phillip Worby, Lead Laboratory Manager  
or other approved signatory

The test results contained within this report meet the requirements of NELAP unless otherwise noted. This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NJ-NELAP 03036

Initial report from 05/03/2016 18:21:28



# Lead (Pb) Chain of Custody

## EMSL Order ID (Lab Use Only)

201603984

PHONE  
FAX

Company: <u>RAMM ENVIRONMENTAL</u>		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments</small>	
Street: <u>77 NOTTINGHAM ROAD PO BOX 308</u>		Third Party Billing requires written authorization from third party	
City: <u>FAIR LAWN</u>	State/Province: <u>NJ</u>	Zip/Postal Code: <u>07410</u>	Country: <u>USA</u>
Report To (Name): <u>RODGER HEADRICK</u>		Telephone #: <u>201 475-9880</u>	
Email Address: <u>RAMM.ENVIRONMENTAL@GMAIL.COM</u>		Fax #: <u>201 475-9881</u>	Purchase Order: <u>N/A</u>
Project Name/Number: <u>Long Memorial School</u>		Please Provide Results: <input checked="" type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: <u>School Brook, NJ</u>		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check							
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input checked="" type="checkbox"/> 2 Week

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

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> <small>*If no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input checked="" type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input checked="" type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: <u>[Signature]</u>	Signature of Sampler: <u>[Signature]</u>
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Sample #	Location	Volume/Area	Date/Time Sampled
16-0413-01	Cafeteria	Less in serving area	04/13/16 10:30
16-0413-02	Hallway (by Supply room #113)	-12	-12 10:31
16-0413-03	Room #103	-12	-12 10:32
16-0413-04	Room #110	-12	-12 10:34
16-0413-05	Room #109	-12	-12 10:35

Client Sample #'s: <u>01</u>	Total # of Samples: <u>21</u>
Relinquished (Client): <u>[Signature]</u>	Date: <u>04/14/16</u> Time: <u>11:30</u>
Received (Lab): <u>[Signature]</u>	Date: <u>4/14/16</u> Time: <u>10:40am</u>
Comments: <u>"FIRST DRAW"</u>	

CLERK 9am 4/15/16  
 PH arrived 2 745 am 4/15/16  
 - CM

201603984

## LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

Long Memorial SchoolPHONE  
FAC

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

Sample #	Location	Volume/Area	Date/Time Sampled
16-0413-06	Room # 102	-1L	04/13/16 10:36
16-0413-07	Room # Kindergarten	-1L	10:38
16-0413-08	Room # 107	-1L	10:40
16-0413-09	Hallway / By (Library)	-1L	10:41
16-0413-10	Room # 208	-1L	10:43
16-0413-11	Room # 207	-1L	10:45
16-0413-12	Room # 206	-1L	10:47
16-0413-13	Room # 205	-1L	10:49
16-0413-14	Room # 214	-1L	10:50
16-0413-15	Hallway / Across Room # 213	-1L	10:51
16-0413-16	Room # 213	-1L	10:52
16-0413-17	Room # 212	-1L	10:53
16-0413-18	Room # 203	-1L	10:54
16-0413-19	Room # 202	-1L	10:56
16-0413-20	Room # 210	-1L	10:58
16-0413-21	Room # 209	-1L	10:59
Comments/Special Instructions:			