

**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: 201900218  
CustomerID: RTES49  
CustomerPO: 70137-18-02  
ProjectID:

Attn: **Craig Herr**  
**RT Environmental Services, Inc.**  
**215 W Church Road**  
**Suite 301**  
**King Of Prussia, PA 19406**

Phone: (610) 265-1510  
Fax: (610) 265-0687  
Received: 01/10/19 9:00 AM  
Collected: 1/9/2019

Project: **Port Richmond DEV / 70137-18****Test Report: Lead in Air by Flame AAS (NIOSH 7082)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
2507-UW1-01-09-19	201900218-0001	1/9/2019	1/10/2019	960 L	<4.2 µg/m <sup>3</sup>
2507-UW2-01-09-19	201900218-0002	1/9/2019	1/10/2019	960 L	<4.2 µg/m <sup>3</sup>
2507-DW1-01-09-19	201900218-0003	1/9/2019	1/10/2019	960 L	<4.2 µg/m <sup>3</sup>
2507-DW2-01-09-19	201900218-0004	1/9/2019	1/10/2019	960 L	<4.2 µg/m <sup>3</sup>

Phillip Worby, Lead Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = µg/m<sup>3</sup> x volume sampled (m<sup>3</sup>). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 01/10/2019 12:05:36



## EMSL Analytical - Industrial Hygiene

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 /

<http://www.EMSL.com>

[IndustrialHygienelab@emsl.com](mailto:IndustrialHygienelab@emsl.com)

EMSL Order: 281900096  
CustomerID: RTES49  
CustomerPO: 70137-18-02  
ProjectID:

Attn: **Craig Herr**  
**RT Environmental Services, Inc.**  
**215 W Church Road**  
**Suite 301**  
**King Of Prussia, PA 19406**

Phone: (610) 265-1510  
Fax: (610) 265-0687  
Received: 01/09/19 2:45 PM  
Analysis Date: 1/10/2019  
Collected: 1/9/2019

Project: **Port Richmond DEV**

### 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 <sup>3</sup> )	Reporting Limit (mg/m <sup>3</sup> )	Notes
2507-UW1-01-09-19		960	<0.050	<0.052	0.052	
281900096-0001						
2507-UW2-01-09-19		960	<0.050	<0.052	0.052	
281900096-0002						
2507-DW1-01-09-19		960	<0.050	<0.052	0.052	
281900096-0003						
2507-DW2-01-09-19		960	<0.050	<0.052	0.052	
281900096-0004						

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

Analyst(s)

Katelynn Sweeney (4)

Scott Van Etten, CIH, Laboratory Manager  
or other approved signatory

The laboratory is not responsible for data reported in mg/m<sup>3</sup>, which is dependent on volume collected by non-laboratory personnel. Reporting limits for samples without volumes, such as Field Blanks, are 0.05 mg. 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 - Industrial Hygiene Cinnaminson, NJ

Initial report from 01/10/2019 10:17:27




 EMSL ANALYTICAL, INC.  
 LABORATORY, MORTISTOWN, NJ 08851

## Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201900218

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

Company: RT Environmental Services, Inc.		EMSL-Bill to: <u>Same</u> Different If Bill to is Different note instructions in Comments**	
Street: 215 W. Church Rd		Third Party Billing requires written authorization from third party	
City: King of Prussia	State/Province: PA	Zip/Postal Code: 19406	Country: USA
Report To (Name): Craig Herr		Telephone #: 610-265-1510	
Email Address: cherr@rtenv.com sbauman@rtenv.com		Fax #: 610-265-0687	
Project Name/Number: Port Richmond DEV / 70137-18		Purchase Order: 70137-18-02	
U.S. State Samples Taken: PA		Please Provide Results: • Fax • <u>Enr</u> • Residential/Tax Exempt	
CT Samples • Commercial/Industrial			
Turnaround Time (TAT) Options* - Please Check			
• 3 Hour   • <u>6 Hour</u>   • 24 Hour   • 48 Hour   • 72 Hour   • 96 Hour   • 1 Week   • 2 Week			
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide			
Matrix	Method	Instrument	Reporting Limit
Chips • % by wt. • mg/cm <sup>2</sup> • ppm	SW846-7000B	Flame Atomic Absorption	0.01%
Air	NIOSH 7082	Flame Atomic Absorption	4 pg/filter
	NIOSH 7105	Graphite Furnace AA	0.03 pg/filter
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 pg/filter
Wipe* AS • non ASTM • *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 pg/wipe
	SW846-6010B or C	ICP-AES	1.0 pg/wipe
	SW846-70006/7010	Graphite Furnace AA	0.075 pg/wipe
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)
Wastewater Unpreserved • Preserved with HNO <sub>3</sub> < 2 • pH	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	200.7	ICP-AES	0.020 mg/L (ppm)
Drinking Water Unpreserved • Preserved with HNO <sub>3</sub> pH < 2 •	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 pg/filter
	CFR Part 50	Graphite Furnace AA	3.6 pg/filter
Other:			
Name of Sampler: <u>Scott Bauman</u>		Signature of Sampler: <u>Scott Bauman</u>	
Sample #	Location	Volume/Area	Date/Time Sampled
1 2507-UW1-01-09-19		960L	1/9/19 14:10
2 2507-UW2-01-09-19		I	I
3 2507-DW1-01-09-19			
4 2507-DW2-01-09-19			
Client Sample Ws		I Total # of Samples: 4	
Relinquished (Client): <u>Scott Bauman</u>	Date: 1/9/19	Time: 14:42	
Received (Lab): <u>Enr</u>	Date: 1-9-19	Time: 2:40pm	
Comments: <u>None</u>			

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

 Client is aware TAT will begin 1/10/19 @ 9am  
 1/9/19-ck

**RT ENVIRONMENTAL SERVICES, INC.**  
**FIELD ACTIVITY LOG**

Client:	Project#: 70137-18	Name: S. Bauman
Job Location:	Date: 1/9/19	Weather:
Site Address:		
Equipment: TSI Dust Trak II		

FIELD ACTIVITY: Performed Zero Calibration in the field before recording values

Time	OS1	OS2	Upwind
06:00	0.011	0.011	0.011
07:00	0.014	0.013	0.014
08:00	0.015	0.016	0.016
09:00	0.017	0.017	0.018
10:00	0.007	0.007	0.006
11:00	0.006	0.005	0.005
12:00	0.005	0.005	0.005
13:00	0.005	0.006	0.005
14:00	0.005	0.005	0.005

Units

mg/m<sup>3</sup>

Comments: None

Signature: Scott Bauman

Page 4 of 5



