

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

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

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

EMSL Order: 201812702
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: 11/01/18 9:00 AM
Collected: 11/1/2018

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>
2501-UW1-10-31-18	201812702-0001	11/1/2018	11/1/2018	960 L	<4.2 µg/m ³
2507-DW1-10-31-18	201812702-0002	11/1/2018	11/1/2018	960 L	<4.2 µg/m ³
2501-DW1-10-31-18	201812702-0003	11/1/2018	11/1/2018	960 L	<4.2 µg/m ³
2507-DW2-10-31-18	201812702-0004	11/1/2018	11/1/2018	960 L	<4.2 µg/m ³

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/m³ x volume sampled (m³). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements 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 11/01/2018 15:40:17



EMSL Analytical - Industrial Hygiene

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 /

<http://www.EMSL.com>

IndustrialHygienelab@emsl.com

EMSL Order: 281804985
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: 11/01/18 8:00 AM
Analysis Date: 11/1/2018
Collected: 11/1/2018

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 ³)	Reporting Limit (mg/m ³)	Notes
2501-UW1-10-31-18		960	<0.050	<0.052	0.052	
281804985-0001						
2507-UW2-10-31-18		960	<0.050	<0.052	0.052	
281804985-0002						
2501-DW1-10-31-18		960	<0.050	<0.052	0.052	
281804985-0003						
2507-DW2-10-31-18		960	<0.050	<0.052	0.052	
281804985-0004						

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/m³, 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 11/01/2018 13:36:55


 EMSL ANALYTICAL, INC.
 LABORATORY, MONROE, LA 70114-1100

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201812702

 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	
Street: 215 W. Church Rd		If Bill to is Different note instructions in Comments**	
City: King of Prussia	State/Province: PA	Third Party Billing requires written authorization from third party	
Report To (Name): Craig Herr	Zip/Postal Code: 19406	Country: USA	
Email Address: cherr@rtenv.com sbauman@rtenv.com	Telephone #: 610-265-1510		
Project Name/Number: Port Richmond DEV / 70137-18	Fax #: 610-265-0687	Purchase Order:	
U.S. State Samples Taken: PA	Please Provide Results: • Fax • <u>Print</u> 70137-18-02		
	CISamples • Commercial/Industrial • Residential/Tax Exempt		
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 ² • 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 •	SW846-7000B	Flame Atomic Absorption	10 pg/wipe
*if no box is checked, non-ASTM Wipe is assumed	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 •	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
Preserved with HNO ₃ pH < 2 •	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	200.7	ICP-AES	0.020 mg/L (ppm)
Drinking Water Unpreserved •	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
Preserved with HNO ₃ pH < 2 •	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 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 2501-UW1-10-31-18		960L	11/1/18 04:30
2 2507-UW2-10-31-18			
3 2501-DW1-10-31-18			
4 2507-DW2-10-31-18			
Client Sample Ws		I Total # of Samples: 4	
Relinquished (Client): <u>Scott Bauman</u>	Date: 11/1/18	Time: 05:10	
Received (Lab): <u>Centurk</u>	Date: 11/1/18	Time: 9am	DropBox
Comments: <u>None</u>			

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

RT ENVIRONMENTAL SERVICES, INC.
FIELD ACTIVITY LOG

Client:	Project#: <u>70137-18</u>	Name:
Job Location:	Date: <u>10/31/18</u>	Weather:
Site Address:		
Equipment: <u>TSI Dust Trak II</u>		
FIELD ACTIVITY: <u>Calibrated in the field before using</u>		

Time	OS 1	OS 2	Upwind
21:00	0.029	0.027	0.028
22:00	0.028	0.027	0.026
23:00	0.029	0.028	0.026
00:00	0.031	0.028	0.025
01:00	0.031	0.029	0.030
02:00	0.029	0.031	0.034
03:00	0.063	0.064	0.061
04:00	-	-	-
05:00	-	-	-

Raining / No
Measurements

Units

mg/m^3

Comments: None

Signature: _____

Scott Bauer

RT ENVIRONMENTAL SERVICES, INC.

FIELD ACTIVITY LOG

Client:	Project#: 70137-B	Name: S. Bauman
Job Location:	Date: 10/31/18	Weather:
Site Address:		
Equipment: TSI Dust Trak II		
FIELD ACTIVITY: Calibrated in the field before use		

Time	UW3	DW3	OS3
06:45	0.043	0.041	0.040
07:00	0.041	0.040	0.040
08:00	0.041	0.041	0.039
09:00	0.040	0.041	0.041
10:00	0.039	0.040	0.040
			0.038

units
mg/m³

Comments: none

Signature: Scott Bauman

SW
0-5mph

N

