



Client: Mr. Gordon Binkhorst  
Pure Earth  
475 Riverside Drive, Suite 860  
New York, NY 10115

# Analytical Report

## CET# 2120648

Report Date: January 10, 2023  
Project: RMS, Various  
Project Number: Vietnam and India

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Laboratory Certificate: 68-02927

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### **SAMPLE SUMMARY**

The sample(s) were received at 1.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
29 DAN 059	2120648-01	Solid	7/14/2022	12/20/2022
29 NAD 063	2120648-02	Solid	7/24/2022	12/20/2022
29 DAN 063	2120648-03	Solid	7/14/2022	12/20/2022
29 NAD 010	2120648-04	Solid	7/24/2022	12/20/2022
29 DAN 010	2120648-05	Solid	7/14/2022	12/20/2022
29 DAN 002	2120648-06	Solid	7/14/2022	12/20/2022
29 DHA 034	2120648-07	Solid	7/19/2022	12/20/2022
29 NAD 031	2120648-08	Solid	7/24/2022	12/20/2022
29 DHA 037	2120648-09	Solid	7/19/2022	12/20/2022
06 TIR 027	2120648-10	Solid	8/09/2022	12/20/2022
06 KAN 019	2120648-11	Solid	8/09/2022	12/20/2022
06 NAM 023	2120648-12	Solid	8/10/2022	12/20/2022
06 HBA EYETEX	2120648-13	Solid	12/01/2022	12/20/2022
06 NAM 018	2120648-14	Solid	8/09/2022	12/20/2022
06 NAM 016	2120648-15	Solid	8/09/2022	12/20/2022
06 VLPM YEL 0501	2120648-16	Solid	2/18/2022	12/20/2022
06 DIND KR CHI 0202	2120648-17	Solid	2/20/2022	12/20/2022
06 KAN 007	2120648-18	Solid	8/09/2022	12/20/2022

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**Analyte: Total Lead [EPA 6020A]**

**Analyst: SS**

**Prep: EPA 3051A**

**Matrix: Solid**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2120648-01	29 DAN 059	ND	0.50	mg/kg (As Rec)	1	B3A0619	01/06/2023	01/09/2023 16:24	
2120648-02	29 NAD 063	ND	0.20	mg/kg (As Rec)	1	B3A0626	01/06/2023	01/09/2023 17:30	
2120648-03	29 DAN 063	ND	0.20	mg/kg (As Rec)	1	B3A0626	01/06/2023	01/09/2023 17:35	
2120648-04	29 NAD 010	9.8	0.20	mg/kg (As Rec)	1	B3A0626	01/06/2023	01/09/2023 17:54	
2120648-05	29 DAN 010	0.25	0.20	mg/kg (As Rec)	1	B3A0626	01/06/2023	01/09/2023 17:59	
2120648-06	29 DAN 002	0.22	0.20	mg/kg (As Rec)	1	B3A0626	01/06/2023	01/09/2023 18:03	
2120648-07	29 DHA 034	20	0.50	mg/kg (As Rec)	1	B3A0608	01/06/2023	01/09/2023 20:07	
2120648-08	29 NAD 031	16	0.50	mg/kg (As Rec)	1	B3A0608	01/06/2023	01/09/2023 20:26	
2120648-09	29 DHA 037	4.0	0.50	mg/kg (As Rec)	1	B3A0608	01/06/2023	01/09/2023 20:30	
2120648-10	06 TIR 027	0.60	0.50	mg/kg (As Rec)	1	B3A0619	01/06/2023	01/09/2023 16:29	
2120648-11	06 KAN 019	37	0.50	mg/kg (As Rec)	1	B3A0619	01/06/2023	01/09/2023 16:33	
2120648-12	06 NAM 023	540	0.50	mg/kg (As Rec)	1	B3A0619	01/06/2023	01/09/2023 16:38	
2120648-13	06 HBA EYETEX	0.99	0.50	mg/kg (As Rec)	1	B3A0619	01/06/2023	01/09/2023 16:43	
2120648-14	06 NAM 018	0.21	0.20	mg/kg (As Rec)	1	B3A0626	01/06/2023	01/09/2023 18:22	
2120648-15	06 NAM 016	ND	0.20	mg/kg (As Rec)	1	B3A0626	01/06/2023	01/09/2023 18:27	
2120648-16	06 VLPM YEL 0501	ND	0.20	mg/kg (As Rec)	1	B3A0626	01/06/2023	01/09/2023 18:32	
2120648-17	06 DIND KR CHI 0202	0.83	0.20	mg/kg (As Rec)	1	B3A0626	01/06/2023	01/09/2023 18:37	
2120648-18	06 KAN 007	ND	0.50	mg/kg (As Rec)	1	B3A0619	01/06/2023	01/09/2023 16:48	

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## QUALITY CONTROL SECTION

### Batch B3A0608 - EPA 6020A

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B3A0608-BLK1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	ND	0.50							
<b>LCS (B3A0608-BS1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	1.19	0.50	1.000		119	80 - 120			

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**Batch B3A0619 - EPA 6020A**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B3A0619-BLK1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	ND	0.50							
<b>LCS (B3A0619-BS1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	0.980	0.50	0.954		103	80 - 120			
<b>Duplicate (B3A0619-DUP1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	ND	0.50		ND				200	
<b>Matrix Spike (B3A0619-MS1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	3.96	0.50	0.929	ND	<b>426</b>	0 - 200			<b>H</b>
<b>Matrix Spike Dup (B3A0619-MSD1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	1.18	0.50	0.973	ND	121	0 - 200	108	200	

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**Batch B3A0626 - EPA 6020A**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B3A0626-BLK1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	ND	0.20							
<b>LCS (B3A0626-BS1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	0.980	0.20	0.935		105	80 - 120			
<b>Duplicate (B3A0626-DUP1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	ND	0.20		ND				200	
<b>Matrix Spike (B3A0626-MS1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	0.945	0.20	0.963	ND	98.0	0 - 200			
<b>Matrix Spike Dup (B3A0626-MSD1)</b>					Prepared: 1/6/23 Analyzed: 1/9/23				
Lead	1.05	0.20	0.978	ND	107	0 - 200	10.4	200	



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email: cet1@cetlabs.com

### Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

#### Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903  
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982  
Rhode Island Certification 199

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## CASE NARRATIVE

Samples were analyzed past hold time per client request.

No collection times provided by client on chain of custody for the following samples: 2120648-01 through -18.



All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta  
Laboratory Director



Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:

E- The result is estimated, above the calibration range.

H- The surrogate recovery is above the control limits.

L- The surrogate recovery is below the control limits.

B- The compound was detected in the laboratory blank.

P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.

D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.

+/- The Surrogate was diluted out.

\*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.

\*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.

\*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.

\*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.

\*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

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#### CERTIFICATIONS

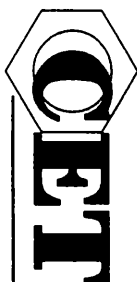
##### Certified Analyses included in this Report

Analyte	Certifications
<b><i>EPA 6020A in Solid</i></b>	
Lead	CT,NY,PA

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2024
NY	New York Certification (NELAC)	11982	04/01/2023
PA	Pennsylvania DEP	68-02927	05/31/2023





**COMPLETE ENVIRONMENTAL TESTING, INC.**

## CHAIN OF CUSTODY

### Volatile Soils Only:

Date and Time in Freezer

**GET**

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80 Lupes Drive Stratford, CT 06615		Tel: (203) 377-9984 Fax: (203) 377-9952 e-mail: cetalservices@cetlabs.com e-mail: bottleorders@cetlabs.com		Matrix A-Air S-Soil W-Water DW-Drinking Water C-Cassette Solid Other (Specify)		Turnaround Time ** (check one)		8260 CT List 8260 Aromatics 8260 Halogens CT ETPH 8270 CT List 8270 PNAs PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE Pesticides 8 RCRA 13 Priority Poll 15 CT DEP Total <u>Lead</u> SPLP TCLP Dissolved Field Filtered Lab to Filter		Metals		Additional Analysis			
Sample ID/Sample Depths (include Units for any sample depths provided)				Collection Date/Time		Same Day * Next Day * Two Day * Three Day * Std (5-7 Days)								TOTAL # OF CONT.	
06 KAD 019				8-9-22		Sold								1	
06 NAM 023				8-10-22										1	
06 HBA Eptex				Dec 2022										1	
06 NAM 018				8-9-22										1	
06 NAM 016				8-9-22										1	
06 VLM YEL 0501				2-18-22										1	
<del>06 DIND KR CHT 0202</del>				<del>02-20-22</del>										1	
06 DIND KR CHT 0202				2-20-22										1	
06 KAN 007				8-9-22										1	
PRESERVATIVE (Cl-HCl, N-HNO <sub>3</sub> , S-H <sub>2</sub> SO <sub>4</sub> , Na-NaOH, C-Cool, O-Other)															
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)															
Soil VOCs Only (M-MeOH B-Bisulphate W-Water F-F=Vial E-Encore)															
RELINQUISHED BY: <u>Boutin</u>				DATE/TIME: <u>12/20/12</u>		RECEIVED BY: <u>[Signature]</u>									
RELINQUISHED BY: <u>[Signature]</u>				DATE/TIME: <u>12/20/12</u>		RECEIVED BY: <u>[Signature]</u>									
RELINQUISHED BY: <u>[Signature]</u>				DATE/TIME: <u>12/20/12</u>		RECEIVED BY: <u>[Signature]</u>									
Client / Reporting Information															
Company Name: <u>Pure Earth</u>															
Address: <u>475 Riverside Drive</u>															
City: <u>New York</u> State: <u>NY</u> Zip: <u>10115</u>															
Report To: <u>Gordon Ramlhurst</u> E-mail: _____															
Phone #: <u>860 573 6288</u> Fax #: _____															
NOTES: <u>lowest LOD feasible</u>															
Project: <u>RHS</u> PO #: _____															
Location: <u>Vietnam, India</u> Project #: <u>RHS</u>															
CET Quote # _____ Collector(s): <u>J. J. J.</u>															
QA/QC: <input checked="" type="checkbox"/> Std <input type="checkbox"/> Site Specific (MS/MSD) * <input type="checkbox"/> RCP Pkg * <input type="checkbox"/> DQAW *															
Data Report: <input checked="" type="checkbox"/> EDD <input type="checkbox"/> EDD - Specify Format _____ Other _____															
RSR Reporting Limits (check one) <input type="checkbox"/> GA <input type="checkbox"/> GB <input type="checkbox"/> SWP <input type="checkbox"/> Other _____															
Laboratory Certification Needed (check one) <input type="checkbox"/> CT <input type="checkbox"/> NY <input type="checkbox"/> RI <input type="checkbox"/> MA <input type="checkbox"/> PA															
Temp Upon Receipt: _____ Evidence of Cooling: <input type="checkbox"/> Y <input type="checkbox"/> N															
PAGE <u>2</u> OF <u>2</u>															

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

REV. 12/18