



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

Analytical Report

CET# 3030738

Report Date: April 10, 2023
Project: RMS, Various
Project Number: Mexico



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

CET # : 3030738

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SAMPLE SUMMARY

The sample(s) were received at 4.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
16CUA041	3030738-01	Solid	8/17/2022	03/23/2023
16PUE002	3030738-02	Solid	7/28/2022	03/23/2023
16CUA019	3030738-03	Solid	8/16/2022	03/23/2023
16TOL021	3030738-04	Solid	8/23/2022	03/23/2023
16HUA035	3030738-05	Solid	11/03/2022	03/23/2023
16PUE032	3030738-06	Solid	8/10/2022	03/23/2023
16HUA022	3030738-07	Solid	10/26/2022	03/23/2023
16HUA013	3030738-08	Solid	10/26/2022	03/23/2023
16HUA008	3030738-09	Solid	10/26/2022	03/23/2023
16HUA005	3030738-10	Solid	10/26/2022	03/23/2023
16HUA018	3030738-11	Solid	10/26/2022	03/23/2023
16HUA024	3030738-12	Solid	11/01/2022	03/23/2023
16HUA026	3030738-13	Solid	11/01/2022	03/23/2023
16HUA033	3030738-14	Solid	11/03/2022	03/23/2023
16CUA008	3030738-15	Solid	8/12/2022	03/23/2023

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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
3030738-01	16CUA041	27	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 13:27	
3030738-02	16PUE002	6.0	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 13:32	
3030738-03	16CUA019	0.88	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 13:37	
3030738-04	16TOL021	ND	2.0	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/07/2023 15:45	
3030738-05	16HUA035	ND	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 13:46	
3030738-06	16PUE032	1.6	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 13:51	
3030738-07	16HUA022	ND	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 13:56	
3030738-08	16HUA013	ND	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 14:00	
3030738-09	16HUA008	ND	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 14:19	
3030738-10	16HUA005	18	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 14:24	
3030738-11	16HUA018	ND	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 14:29	
3030738-12	16HUA024	ND	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 14:34	
3030738-13	16HUA026	ND	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 14:38	
3030738-14	16HUA033	ND	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 14:43	
3030738-15	16CUA008	180	0.50	mg/kg (As Rec)	1	B3D0524	04/05/2023	04/06/2023 14:48	

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QUALITY CONTROL SECTION

Batch B3D0524 - EPA 6020A

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B3D0524-BLK1)					Prepared: 4/5/2023 Analyzed: 4/6/2023				
Lead	ND	0.50							
LCS (B3D0524-BS1)					Prepared: 4/5/2023 Analyzed: 4/6/2023				
Lead	0.965	0.50	1.002		96.3	80 - 120			



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Stratford, CT 06615

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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	Result from the duplicate analysis of a sample. 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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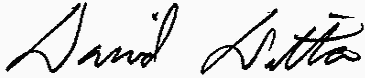
CASE NARRATIVE

No collection times provided by client on chain of custody for the following samples: 3030738-01 through -15.

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 Timothy Fusco



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
<i>EPA 6020A in Solid</i>	
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



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: cetservices@cetlabs.com e-mail: bottleorders@cetlabs.com		Matrix A=Air S=Soil W=Water DW=Drinking Water C=Cassette Solid Wipe Other (Specify) Turnaround Time ** (check one) Same Day * <input type="checkbox"/> Next Day * <input type="checkbox"/> Two Day * <input type="checkbox"/> Three Day * <input type="checkbox"/> Std (5-7 Days) <input checked="" type="checkbox"/>	
Sample ID/Sample Depths (include Units for any sample depths provided)		Collection Date/Time	
16 CuA091		8-17-22	
16 PuE002		7-28-22	
16 CuA019		8-16-22	
16 Tol 021		8-23-22	
16 HuA035		11-3-22	
16 PuE 032		8-10-22	
16 HuA 032		10-26-22	
16 HuA013		10-26-22	
16 HuA 008		10-26-22	
16 HuA005		10-26-22	
PRESERVATIVE (Cl-HCl, N-HNO ₃ , S-H ₂ SO ₄ , Na-NaOH, G-Cool, O-Other)			
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)			
Soil VOCs Only (M=Mech B=Sodium Bisulfate W=Water F=Empty E=Encore)			
REMANUSHED BY: <u>Charles</u> DATE/TIME: <u>3/23/23</u> 1030 RECEIVED BY: <u>[Signature]</u>		REMANUSHED BY: <u>Charles</u> DATE/TIME: <u>3/23/23</u> 1030 RECEIVED BY: <u>[Signature]</u>	
RELINQUISHED BY: <u>[Signature]</u> DATE/TIME: <u>3/23/23</u> 1500		RELINQUISHED BY: <u>[Signature]</u> DATE/TIME: <u>3/23/23</u> 1500	
Client / Reporting Information Company Name: <u>Pure Earth</u> Address: <u>475 Riverside Dr.</u> City: <u>New York</u> State: <u>NY</u> Zip: <u>10115</u> Report To: <u>Gordon Binkhorst</u> E-mail: <u>gordon@pureearth.org</u> Phone #: <u>860-573-6288</u> Fax #: <u></u>			
NOTES: <u>lowest detection feasible</u>			
Project: <u>RMS</u> PO #: <u></u> Location: <u>Mexico</u> Project #: <u></u> CET Quote #: <u></u> Collector(s): <u>Various</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"/> PDF <input type="checkbox"/> EDD - Specify Format: <u>Other</u> RSR Reporting Limits (check one) <input type="checkbox"/> GA <input type="checkbox"/> GB <input type="checkbox"/> SWP <input checked="" type="checkbox"/> Other: <u></u> 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: <u>4</u> °C Evidence of Cooling: <input checked="" type="checkbox"/> N PAGE <u>1</u> OF <u>2</u>		Metals 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 TOTAL # OF CONT. <u>1</u> NOTE # <u></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



Volatile Soils Only:

Date and Time in Freezer

CET:

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