



Client: Mr. Gordon Binkhorst
Pure Earth
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Analytical Report

CET# 3080608

Report Date: September 08, 2023
Project: RMS, Various
Project Number: Uganda, Egypt



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 4.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
25KAM103	3080608-01	Solid	5/11/2023	08/22/2023
25KAM104	3080608-02	Solid	5/11/2023	08/22/2023
25LIR093	3080608-03	Solid	4/12/2023	08/22/2023
25LIR099	3080608-04	Solid	4/12/2023	08/22/2023
25KAM071	3080608-05	Solid	5/10/2023	08/22/2023
20ALE053	3080608-06	Solid	4/05/2023	08/22/2023
20GIZ060	3080608-07	Solid	4/17/2023	08/22/2023
20CAI006	3080608-08	Solid	4/16/2023	08/22/2023
20CAI007	3080608-09	Solid	4/16/2023	08/22/2023

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
3080608-01	25KAM103	540	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 12:53	
3080608-02	25KAM104	190	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 13:12	
3080608-03	25LIR093	3800	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 13:17	
3080608-04	25LIR099	1800	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 13:22	
3080608-05	25KAM071	12	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 13:27	
3080608-06	20ALE053	1200	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 13:31	
3080608-07	20GIZ060	1300	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 13:36	
3080608-08	20CAI006	1200	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 13:41	
3080608-09	20CAI007	520	1.0	mg/kg (As Rec)	1	B3I0106	08/31/2023	09/07/2023 13:46	

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QUALITY CONTROL SECTION

Batch B3I0106 - 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 (B3I0106-BLK1)					Prepared: 8/31/2023 Analyzed: 9/7/2023				
Lead	ND	1.0							
LCS (B3I0106-BS1)					Prepared: 8/31/2023 Analyzed: 9/7/2023				
Lead	1.03	1.0	1.012		101	80 - 120			
Matrix Spike (B3I0106-MS1)					Prepared: 8/31/2023 Analyzed: 9/7/2023				
Lead	#	1.0	1.050	539	#	0 - 200			#



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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	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	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

No collection times provided by client on chain of custody for the following samples: 3080608-01 through -09.

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

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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
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EPA 6020A in Solid

Lead	CT,NY,PA
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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	04/01/2024
PA	Pennsylvania DEP	68-02927	05/31/2024

