TOEROEK
ASSOCIATES, INC.

December 1, 2021

Mr. Bradley Roberts
Task Order Contracting Officer's Representative
U.S. Environmental Protection Agency, Region 7
11201 Renner Boulevard.
Lenexa, Kansas 66219

Subject: Contract No. 68HERH19D0018; Task Order (TO) No. 68E0719F0190
Red Earth Residential Buildings, 1619, 1629, 1653, and 1671 340th Street, Hiawatha, Kansas
Targeted Brownfields Assessment Hazardous Materials Survey

Dear Mr. Roberts:

Toeroek Associates, Inc. (Toeroek) and our teaming subcontractor, Tetra Tech, Inc. (Tetra Tech), (hereafter "Toeroek Team") are pleased to present the attached report regarding a Targeted Brownfields Assessment Hazardous Materials Survey of the Red Earth Residential Buildings site (the subject property) located at 1619, 1629, 1653, and 1671 340th Street in Hiawatha, Kansas. The Toeroek Team conducted this survey based on findings of the Phase I Environmental Site Assessment (ESA) conducted by the Toeroek Team in February 2021. This deliverable has been reviewed internally as part of Tetra Tech's quality assurance program, as well as Toeroek's quality assurance program, and is consistent with Toeroek's Quality Management Plan for the Resource Conservation and Recovery Act (RCRA) Enforcement and Permitting Assistance (REPA) contract. Documentation of this review is retained in the Toeroek Team's project files.

If you have any questions or comments, please contact Greg Hanna at 720-898-4102 or Kaitlyn Mitchell at 816-412-1742.

Sincerely,

Gregory J. Hanna
Toeroek Team Program Manager

Kaitlyn Mitchell
Toeroek Team Project Manager

Enclosure: Targeted Brownfields Assessment Hazardous Materials Survey

cc: Frank Novello, EPA Region 7 (cover letter only)
Lisa Dunning, EPA Region 7
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TARGETED BROWNFIELDS ASSESSMENT
HAZARDOUS MATERIALS SURVEY

RED EARTH RESIDENTIAL BUILDINGS
1619, 1629, 1653, AND 1671 340TH STREET
HIAWATHA, BROWN COUNTY, KANSAS

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 7

Task Order	:	68E0719F0190
Subtask	:	07.05
EPA Region	:	7
Date Prepared	:	December 1, 2021
Contract No.	:	68HERH19D0018
Prepared by	:	Toeroek Associates, Inc.
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1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked Toeroek Associates, Inc. (Toeroek) and its teaming subcontractor, Tetra Tech, Inc., (hereafter "Toeroek Team") with providing technical support to the EPA Region 7 Brownfields Program under Contract 68HERH19D0018, Task Order (TO) 68E0719F0190. EPA Region 7 requested that the Toeroek Team conduct a hazardous materials survey (Survey) as part of a Targeted Brownfields Assessment (TBA) of the Red Earth Residential Buildings site (the subject property) located at 1619 340th Street (Red Earth 3), 1629 340th Street (Red Earth 5), 1653 340th Street (Red Earth 10), and 1671 340th Street (Red Earth 14) in Hiawatha, Kansas (Appendix A, Figure 1). The subject property includes four residential structures, each encompassing approximately 1,760 square feet, comprising approximately four acres of a 25-acre parent parcel. Three of the buildings are unoccupied and one currently is occupied.

The Toeroek Team conducted the survey from October 5 through 6, 2021. The scope of the survey included an inspection of on-site structures for hazardous building materials, sampling of suspected asbestos-containing materials (ACM) to detect and quantify asbestos in those materials, and wipe sampling to detect and quantify methamphetamine (meth) residue. Appendix B is comprised of a photo log of observations made during the survey.

The Toeroek Team's Project Manager for the survey was Ms. Kaitlyn Mitchell. The field team included Mr. Reed Niemack and Mr. Ryan Slanczka, Certified Asbestos Hazard and Emergency Response Act (AHERA) inspectors. Inspector certifications are provided in Appendix C. Section 8.0 identifies the assumptions and deviations concerning the Survey at the subject property. Prior to any renovations or demolition of the subject property buildings, further survey work may be needed to comply with all local, state, and federal requirements regulating ACM or building materials impacted by meth residue.

The purpose of the asbestos survey was to evaluate the subject property buildings for presence, quantity, locations, and characterization of ACM that may require abatement prior to any development activities, in accordance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations as adopted by EPA. The intent of the asbestos NESHAP regulations is to protect the public (and workers) by minimizing release of asbestos fibers during activities involving processing, handling, and disposal of ACM. Inhalation of asbestos fibers can cause cancer and other lung diseases (Agency for Toxic Substances and Disease Registry [ATSDR] 2016). The survey accorded with industry standard practice for hazardous materials surveys. Collection of samples of suspected ACM accorded with NESHAP regulations as adopted by EPA.

The Toeroek Team collected wipe samples for analysis for meth residue from the interiors of each subject property building. Kansas Department of Health and Environment (KDHE) guidance for the cleanup of clandestine drug laboratories calls for remediation to a residual meth concentration of 1.5 micrograms per 100 square centimeters (µg/100 cm^2) for a structure to be considered safe for occupancy (KDHE 2009). Residual concentrations exceeding this level may require cleaning or removal of contaminated surfaces, as described in EPA's Voluntary Guidelines for Methamphetamine Laboratory Cleanup (EPA 2013). Collection of wipe samples accorded with EPA's Voluntary Guidelines for Methamphetamine Laboratory Cleanup.

The Toeroek Team submitted a site-specific quality assurance project plan (QAPP) in support of survey activities to EPA on July 27, 2021. EPA approved the QAPP with comments via email on September 9, 2021 and the Toeroek Team submitted the final QAPP on September 21, 2021 prior to the survey at the subject property (Toeroek Team 2021a). Field activities accorded with the QAPP, except where noted in Section 8.0.

The Toeroek Team prepared this report in accordance with generally accepted industrial hygiene practices and procedures. This report does not cover or comment on structural areas not assessed either visibly or by sample collection. The data evaluation and assessment stated herein constitute a professional opinion; no other warranty is expressed or implied. Section 8.0 identifies the assumptions and deviations concerning the survey at the subject property.

The Toeroek Team provided these services consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions. This statement is in lieu of other statements either expressed or implied. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document, the findings, conclusions, or recommendations is at the risk of said user. This survey report does not warrant against future operations or conditions that may not be consistent with its recommendations. Moreover, because of some limitations on destructive sampling during the survey, completion of the Survey does not guarantee identification of all ACMs or meth residue—hazardous materials may be present in voids of walls, ceilings, or other concealed areas.

Section 2.0 of this report describes the structures at the subject property. Section 3.0 specifies field and analytical protocols for the ACM survey. Section 4.0 specifies field and analytical protocols for the meth residue wipe sampling. Section 5.0 presents asbestos findings. Section 6.0 presents meth residue findings. Section 7.0 offers recommendations based on survey findings. Section 8.0 identifies assumptions and deviations. Section 9.0 lists sources referenced during development of this report.

2.0 SUBJECT PROPERTY BUILDINGS

The subject property contains four residential structures, each encompassing approximately 1,760 square feet. The structures were built in 1990 and are one-story with full partially finished basements (Brown County 2021). The exteriors of the subject property buildings are constructed with brick and wood siding, and asphalt shingle roofs. Interiors of the subject property buildings are finished with drywall walls and ceilings, carpet, vinyl floor tile, and linoleum flooring. The basements of the subject property buildings are partially finished with concrete floors. Figure 1 in Appendix A illustrates the subject property buildings' locations and the property boundaries.

2.1 SUMMARY OF PREVIOUS ASSESSMENTS

In February 2021, the Toeroek Team conducted a Phase I Environmental Site Assessment (ESA) as part of a TBA of the subject property (Toeroek Team 2021b). The following significant findings resulted from the ESA:

- According to the Brown County Assessor, the subject property buildings were constructed in 1990. Based on the age of the subject property buildings, ACM may have been used in their construction. The possible presence of ACM was considered to pose a business environmental risk (BER) to the subject property.
- According to the TBA Application, on July 22, 2019, the Sac and Fox Tribal Response Coordinator, along with three other members of the Sac and Fox Environmental Department, were asked to inspect a recently vacated rental property owned by the Sac and Fox Tribe at the Tribe's Red Earth Housing Development. The environmental team was accompanied by the Housing Director, who during the course of the investigation deployed a test for meth residue. The meth residue test indicated a positive result for meth residue but the concentration of the residue was unknown. The inspection did not reveal any obvious signs of meth manufacture but further investigation was considered warranted to determine the degree of contamination. Additionally, two other properties within the same development also displayed evidence of meth use. The housing authority requested assistance to assessing the properties so they can be safely returned to residential use. Possible meth residue in the subject property buildings was considered to pose a BER to the subject property.

Based on results of the Phase I ESA, the Toeroek Team recommended the following:

- If building renovation or demolition is planned, thoroughly inspect the building(s) to assess presence of ACM. All regulated ACM identified should be removed by a licensed asbestos abatement contractor before any renovation or demolition work disturbs the material. The removed waste must be transported to a disposal site able to accept both friable and non-friable ACM. If the building is to be renovated and any of the above-cited regulated ACM materials are not to be disturbed, they may remain in place.

- Conduct further meth residue testing to determine the extent of contamination and materials impacted within each subject property building.
- Clean and possibly remove materials that have been impacted by meth.

3.0 ACM FIELD SURVEY AND ANALYTICAL PROTOCOLS

The Toeroek Team made every effort to inspect all areas of the interiors of the subject property buildings. Minor demolition of materials (destructive sampling) was required during the survey effort. The inspector took care to ensure the subject property remained unoccupied during sample collection. Collection of suspect ACM samples accorded with NESHAP as adopted by EPA and AHERA protocols. AHERA defines "asbestos-containing material" (that is, ACM) as any material or product that contains more than 1 percent asbestos. Suspected ACMs were grouped as homogeneous areas if the material was similar in appearance and texture; however, if the inspector decided a material (for example, wall texturing) was not similar in appearance and texture to other materials in the subject property building, the inspector distinguished the material as unique and collected samples of each unique material accordingly. Because of limitations on destructive sampling methods, additional suspect materials not detected may be present in walls, voids, or other concealed areas. Section 8.0 identifies assumptions and deviations concerning the survey of the subject property buildings.

Bulk samples of suspected ACM were collected to ensure each distinct layer of material was represented in the sample. A wetting agent was applied to friable surfaces prior to sample collection to reduce potential for fiber release. All samples collected were placed in plastic bags, labeled, and sealed immediately upon collection. A unique sample identification number was assigned to each sample. To prevent cross-contamination between samples, the sampling instruments were wiped clean by use of a wet, lint-free cloth after collection of each sample.

The samples remained in the inspector's custody until sent to the laboratory. Upon completion of sampling activities, the bulk samples were sent, along with the Toeroek Team's chain-of-custody documentation, to Eurofins EMLab P&K Laboratories (Eurofins). Suspect ACM samples were analyzed per EPA Method 600/R-93/116 by Eurofins via polarized light microscopy (PLM) analysis. Eurofins is a National Voluntary Laboratory Accreditation Program (NVLAP)-certified laboratory. Section 5.0 of this report summarizes ACM analytical results. Sample locations are shown on Figures 2 through 5 in Appendix A. Appendix D presents ACM analytical results and chain-of-custody forms for the bulk samples.

4.0 METH RESIDUE WIPE SAMPLING AND ANALYTICAL PROTOCOLS

The Toeroek Team collected wipe samples for analysis for residual meth at four areas of suspected meth use within each of the subject property buildings. Wipe sampling involved the use of 100-cm^2 clean cotton gauze swabs pre-moistened with 3 milliliters of isopropanol. The samples were collected within 100-cm^2 area templates applied to surfaces. The sampler wiped surfaces in a vertical S-pattern covering the entire template area. The sampler then folded the gauze swabs in half with the used sides in and wiped the templated area in a horizontal S-pattern. After again folding the gauze swabs with the used sides in, the sampler wiped the areas a third time in vertical S-pattern strokes. Following this, the sampler folded the pads again with the used sides in and placed the pads in 25-milliliter containers, capped the containers, and labeled them for shipment to the laboratory. Sampling locations were determined based on field observations. Sample locations were documented on field data forms.

Field blank samples were collected during the sampling event to assess field and/or laboratory-introduced contamination. One field blank sample was collected for each day of sampling.

Wipe samples remained in the inspector's custody until sent to the laboratory. Upon completion of sampling activities, wipe samples were shipped, along with the Toeroek Team's chain-of-custody documentation, to EMSL Analytical, Inc. (EMSL) in Cinnaminson, New Jersey. Wipe samples were analyzed for meth via National Institute for Occupational Safety and Health (NIOSH) Method 9111. Sample locations are displayed on Figures 2 through 5 in Appendix A. Appendix E presents wipe analytical results and the chain-of-custody form.

5.0 ACM FINDINGS

Appendix D presents the analytical report and chain-of-custody documentation for PLM results from samples of suspected ACM collected at the buildings on the subject property. Analytical results are summarized in Table 1 below. No regulated ACM was identified within the areas inspected at the residential buildings on the subject property. Sample locations are shown in Figures 2 through 5 in Appendix A.

TABLE 1

SUMMARY OF RESULTS FROM LABORATORY ANALYSIS FOR SUSPECT ACM
RED EARTH RESIDENTIAL BUILDINGS, 1619, 1629, 1653, AND 1671 340TH STREET, HIAWATHA, KANSAS

Figure Key	Sample ID	Material Description	Material Locations	Friable (F)/ Non-Friable (NF)	Analytical Result (% ACM[1])	Quantity[2]
1619 340th Street						
1	1619-RF-1	Roof Shingle	Exterior	NF	ND	NA
2	1619-RF-2					
3	1619-RF-3					
4	1619-VB-1	Vapor Barrier	Exterior beneath Roof Shingles	NF	ND	NA
5	1619-VB-2					
6	1619-VB-3					
7	1619-PS-1	Pink Panel Siding	Exterior of Carport Storage Room	NF	ND	NA
8	1619-PS-2					
9	1619-PS-3					
10	1619-CLK-1	Window Caulk	Exterior	NF	ND	NA
11	1619-CLK-2					
12	1619-CLK-3					
13	1619-SF-1	Ceramic-façade Sheet Flooring with Mastic	Kitchen	NF	ND	NA
14	1619-SF-2					
15	1619-SF-3					
16	1619-SF2-1	Square Patterned Sheet Flooring with Mastic	First Floor and Stairwell	NF	ND	NA
17	1619-SF2-2					
18	1619-SF2-3					
19	1619-SF3-1	6” Tile-façade Sheet Flooring with Mastic	Kitchen	NF	ND	NA
20	1619-SF3-2					
21	1619-SF3-3					
22	1619-WTX-1	Wall Texture	Throughout	F	ND	NA
23	1619-WTX-2					
24	1619-WTX-3	Wall Texture	Throughout	F	ND	NA
25	1619-CTX-1	Ceiling Texture	Throughout	F	ND	NA
26	1619-CTX-2					
27	1619-CTX-3					

TABLE 1

SUMMARY OF RESULTS FROM LABORATORY ANALYSIS FOR SUSPECT ACM
RED EARTH RESIDENTIAL BUILDINGS, 1619, 1629, 1653, AND 1671 340TH STREET, HIAWATHA, KANSAS

Figure Key	Sample ID	Material Description	Material Locations	Friable (F)/ Non-Friable (NF)	Analytical Result (% ACM[1])	Quantity[2]
28	1619-VFT-1	12" x 12" Vinyl Floor Tile with Mastic	Bathroom	NF	ND	NA
29	1619-VFT-2					
30	1619-VFT-3					
31	1619-DWJC-1	Drywall [3]	Throughout	F	ND	NA
32	1619-DWJC-2					
33	1619-DWJC-3					
1629 340th Street						
1	1629-RF-1	Roof Shingle	Exterior	NF	ND	NA
2	1629-RF-2					
3	1629-RF-3					
4	1629-VB-1	Vapor Barrier	Exterior beneath Roof Shingle	NF	ND	NA
5	1629-VB-2					
6	1629-VB-3					
7	1629-PS-1	Black Panel Siding	Exterior of Carport Storage Room	NF	ND	NA
8	1629-PS-2					
9	1629-PS-3					
10	1629-CLK-1	Window Caulk	Exterior	NF	ND	NA
11	1629-CLK-2					
12	1629-CLK-3					
13	1629-SF-1	Large Square-patterned Sheet Flooring with Mastic	Near Entryway	NF	ND	NA
14	1629-SF-2					
15	1629-SF-3					
16	1629-SF2-1	Small White Square-Patterned Sheet Flooring with Mastic	First Floor and Stairwell	NF	ND	NA
17	1629-SF2-2					
18	1629-SF2-3					

TABLE 1

SUMMARY OF RESULTS FROM LABORATORY ANALYSIS FOR SUSPECT ACM
RED EARTH RESIDENTIAL BUILDINGS, 1619, 1629, 1653, AND 1671 340TH STREET, HIAWATHA, KANSAS

Figure Key	Sample ID	Material Description	Material Locations	Friable (F)/ Non-Friable (NF)	Analytical Result (% ACM[1])	Quantity[2]
19	1629-SF3-1	Ceramic-façade Sheet Flooring with Mastic	Basement Bathroom and Bedroom	NF	ND	NA
20	1629-SF3-2					
21	1629-SF3-3					
22	1629-WTX-1	White Wall Texture	Throughout	NF	ND	NA
23	1629-WTX-2					
24	1629-WTX-3					
25	1629-CTX-1	White Popcorn Ceiling Texture	Throughout except Unfinished Basement	NF	ND	NA
26	1629-CTX-2					
27	1629-CTX-3					
28	1629-DWJC-1	Drywall [3]	Throughout	NF	ND	NA
29	1629-DWJC-2					
30	1629-DWJC-3					
1653 340th Street						
1	1653-RF-1	Roof Shingles	Exterior	NF	ND	NA
2	1653-RF-2					
3	1653-RF-3					
4	1653-VF-1	Grey Vinyl Flooring with Brown Mastic	First Floor	NF	ND	NA
5	1653-VF-2					
6	1653-VF-3					
7	1653-CA-1	Grey Carpeting with Adhesive	Stairwell	NF	ND	NA
8	1653-CA-2					
9	1653-CA-3					
10	1653-CLK-1	Window Caulk	Lower Exterior Windows	NF	ND	NA
11	1653-CLK-2					
12	1653-CLK-3					
13	1653-SF-1	Ceramic-façade Sheet Flooring with Mastic	Basement Bathroom and Bedroom	NF	ND	NA
14	1653-SF-2					
15	1653-SF-3					

TABLE 1

SUMMARY OF RESULTS FROM LABORATORY ANALYSIS FOR SUSPECT ACM
RED EARTH RESIDENTIAL BUILDINGS, 1619, 1629, 1653, AND 1671 340TH STREET, HIAWATHA, KANSAS

Figure Key	Sample ID	Material Description	Material Locations	Friable (F)/ Non-Friable (NF)	Analytical Result (% ACM[1])	Quantity[2]
16	1653-SF2-1	Square-Patterned Sheet Flooring with Mastic	First Floor and Stairwell	NF	ND	NA
17	1653-SF2-2					
18	1653-SF2-3					
19	1653-WTX-1	White Wall Texture	Throughout	NF	ND	NA
20	1653-WTX-2					
21	1653-WTX-3					
22	1653-CTX-1	White Popcorn Ceiling Texture	Throughout	NF	ND	NA
23	1653-CTX-2					
24	1653-CTX-3					
25	1653-DWJC-1	Drywall with Joint Compound	Throughout	NF	ND	NA
26	1653-DWJC-2					
27	1653-DWJC-3					
1671 340th Street						
1	1671-RF-1	Roof Shingles	Exterior	NF	ND	NA
2	1671-RF-2					
3	1671-RF-3					
4	1671-VB-1	Vapor Barrier	Exterior beneath Roof Shingles	NF	ND	NA
5	1671-VB-2					
6	1671-VB-3					
7	1671-PS-1	White Panel Siding	Exterior of Carport Storage Room	NF	ND	NA
8	1671-PS-2					
9	1671-PS-3					
10	1671-CLK-1	Window Caulk	Exterior	NF	ND	NA
11	1671-CLK-2					
12	1671-CLK-3					
13	1671-SF-1	Pebble-Patterned Sheet Flooring with Mastic	Throughout except Larger Basement Room	NF	ND	NA
14	1671-SF-2					
15	1671-SF-3					

TABLE 1

SUMMARY OF RESULTS FROM LABORATORY ANALYSIS FOR SUSPECT ACM
RED EARTH RESIDENTIAL BUILDINGS, 1619, 1629, 1653, AND 1671 340TH STREET, HIAWATHA, KANSAS

Figure Key	Sample ID	Material Description	Material Locations	Friable (F)/ Non-Friable (NF)	Analytical Result (% ACM[1])	Quantity[2]
16	1671-SF2-1	Large Square-Patterned Sheet Flooring with Mastic	Kitchen	NF	ND	NA
17	1671-SF2-2					
18	1671-SF2-3					
19	1671-SF3-1	Ceramic-façade Sheet Flooring with Mastic	First Floor Entryway and Basement Bathroom	NF	ND	NA
20	1671-SF3-2					
21	1671-SF3-3					
22	1671-WTX-1	Wall Texture	Throughout	NF	ND	NA
23	1671-WTX-2					
24	1671-WTX-3					
25	1671-CTX-1	Ceiling Texture	Throughout	NF	ND	NA
26	1671-CTX-2					
27	1671-CTX-3					
28	1671-CA-1	Carpeting with Adhesive	First Floor	NF	ND	NA
29	1671-CA-2					
30	1671-CA-3					
31	1671-DWJC-1	Drywall with Joint Compound	Throughout	NF	ND	NA
32	1671-DWJC-2					
33	1671-DWJC-3					

Notes:

Color description of a material may vary between field observation and laboratory description.

[1] AHERA defines ACM as any material or product that contains more than 1 percent asbestos.
[2] Quantities for non-ACM materials are not required.
[3] Joint compound was not collected with samples of drywall.

”	Inches	OSHA	Occupational Safety and Health Administration
ACM	Asbestos-containing material	NA	Not applicable
AHERA	Asbestos Hazard and Emergency Response Act of 1986	ND	Not detected
EPA	U.S. Environmental Protection Agency		

6.0 METH RESIDUE WIPE SAMPLING FINDINGS

Appendix E presents the analytical report of the meth residue wipe sample results and chain-of-custody documentation. Analytical results from the meth residue wipe samples are summarized in Table 2 below. Sample locations are shown on Figures 2 through 5 in Appendix A. Meth concentrations are in units of µg/100 cm^2 as reported by the laboratory. Meth concentrations were detected exceeded the laboratory reporting limit of 0.10 µg/100 cm^2 in two analyzed wipe samples collected at 1619 340th Street and in one analyzed wipe sample collected at 1653 340th Street. EPA has not established quantitative cleanup standards for meth or chemicals associated with its production (EPA 2013). KDHE guidance for cleanup of clandestine drug laboratories calls for remediation to a residual meth concentration of 1.5 µg/100 cm^2 for a structure to be considered safe for occupancy (KDHE 2009). None of the analytical results exceeded 1.5 µg/100 cm^2.

TABLE 2

**SUMMARY OF METH RESIDUE WIPE SAMPLE FINDINGS
RED EARTH RESIDENTIAL BUILDINGS, 1619, 1629, 1653, AND 1671 340TH STREET,
HIAWATHA, KANSAS**

Sample ID	Location	Methamphetamine (µg/100 cm^2)
1619 340th Street		
1619-MW-1	Kitchen Counter	0.17
1619-MW-2	Livingroom Floor	<0.10
1619-MW-3	Bathroom Counter	0.24
1619-MW-4	Basement Floor	<0.10
1629 340th Street		
1629-MW-1	Kitchen Counter	<0.10
1629-MW-2	Livingroom Floor	<0.10
1629-MW-3	Bathroom Counter	<0.10
1629-MW-4	Bedroom Floor	<0.10
1653 340th Street		
1653-MW-1	Kitchen Counter	<0.10
1653-MW-2	Bedroom Floor	<0.10
1653-MW-3	Basement Floor	<0.10
1653-MW-4	Work Bench	0.30
1671 340th Street		
1671-MW-1	TV Stand	<0.10
1671-MW-2	Bedroom Desk	<0.10
1671-MW-3	Basement Floor	<0.10
1671-MW-4	Bedroom TV Stand	<0.10

Notes:

µg/100 cm^2 Micrograms per 100 square centimeters
ID Identification

7.0 FINDINGS AND RECOMMENDATIONS

The following subsections provide findings and recommendations based on observations during the survey and analytical results from samples collected in the Red Earth Residential Buildings on the subject property.

7.1 ACM

AHERA defines ACM as any material or product that contains more than 1 percent asbestos. No regulated ACM was identified within the areas inspected at the residential buildings on the subject property.

The Toeroek Team identified suspect asbestos-containing sink undercoat and bathtub mastic in the subject property buildings. To maintain the integrity of this material, samples were not collected. The Toeroek Team recommends that if the suspect bathtub mastic is to be disturbed during renovations, this material should be sampled to determine its asbestos content.

7.2 METH RESIDUE WIPE SAMPLING

Sixteen wipe samples were collected at four residential buildings and analyzed for meth via NIOSH Method 9111. Analyses of two wipe samples collected at 1619 340th Street resulted in positive identifications of meth at concentrations of 0.17 and 0.24 µg/100 cm^2. Analysis of one wipe sample collected at 1653 340th Street resulted in positive identification of meth at 0.30 µg/100 cm^2. Meth was not detected in any wipe sample collected at 1629 or 1671 340th Street. EPA has not established quantitative cleanup standards for meth or chemicals associated with its production (EPA 2013). KDHE guidance for cleanup of clandestine drug laboratories calls for remediation to a residual meth concentration of 1.5 µg/100 cm^2 for a structure to be considered safe for occupancy (KDHE 2009). No analytical result exceeded 1.5 µg/100 cm^2; therefore, no further action is recommended regarding meth residue in these structures.

8.0 ASSUMPTIONS AND DEVIATIONS

The interiors and exteriors of the subject property buildings were inspected for suspect ACM and meth residue. Because of limitations on destructive sampling methods, additional suspect materials may be present in walls, voids, or other concealed areas. The following deviations were identified:

The Toeroek Team identified suspect drywall with associated joint compound in each of the subject property buildings. Joint compound was not collected with samples of drywall from 1619 and 1629 340th Street. The Toeroek Team recommends that if suspect joint compound is to be disturbed during renovations at 1619 or 1629 340th Street, this material should be sampled to determine its asbestos content.

The Toeroek Team identified suspect asbestos-containing sink undercoat and bathtub mastic in each of the subject property buildings. To maintain the integrity of this material, samples were not collected. The Toeroek Team recommends that if suspect bathtub mastic is to be disturbed during renovations, this material should be sampled to determine its asbestos content. All other areas of the subject property building were inspected.

9.0 REFERENCES

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Brown County, Kansas (Brown County). 2021. GIS Maps Search. Accessed January 28, 2021. https://www.kansasgis.org/orka/map.cfm?CFID=30004404&CFTOKEN=49519449&jsessionid=46307e41e97143dd02dc27606cb226f51663TR.

Kansas Department of Health and Environment (KDHE). 2009. Cleaning Up Former Methamphetamine Labs. October 26. https://www.kdheks.gov/methlabs/download/Cleaning_Up_Former_Methamphetamine_Labs.pdf.

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Toeroek Team. 2021b. Phase I Environmental Site Assessment. Red Earth Residential Buildings, 1619, 1629, 1653, and 1671 340th Street, Hiawatha, Kansas. February.

U.S. Environmental Protection Agency (EPA). 2013. Voluntary Guidelines for Methamphetamine Laboratory Cleanup. March. https://www.epa.gov/sites/production/files/documents/meth_lab_guidelines.pdf.

U.S. Environmental Protection Agency (EPA). 2020. Target Brownfields Assessment Application Form. Submitted by Sac and Fox Tribe of Missouri in Kansas and Nebraska. April.

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APPENDIX A

FIGURES

Legend

- Subject property building
- Approximate subject property boundary

N

0 170 340

Feet

Source: Esri, ArcGIS Online, World Imagery (Clarity)

X:\P652\103190707\Projects\mxd\Figure2.mxd

Red Earth Residential Buildings
1619, 1629, 1653 and 1671 340th Street
Hiawatha, Kansas

Figure 1
Site Layout Map

TETRA TECH

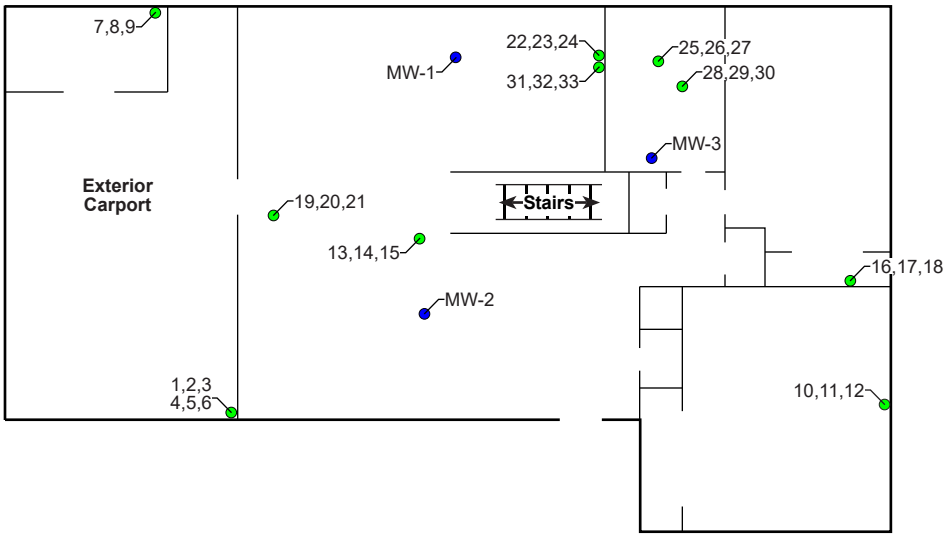
Date: 1/29/2021 Drawn By: Nick Wiederholt Project No: 103G6521019O.07

Sample Key Table

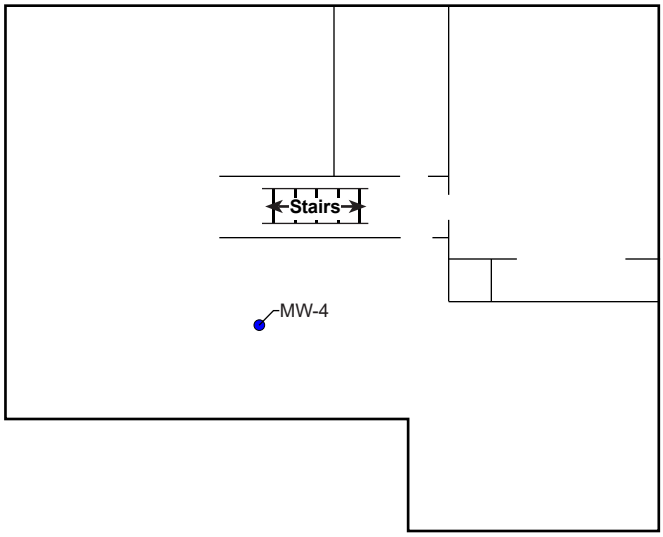
Key	Sample No.
Asbestos	
1	1619-RF-1
2	1619-RF-2
3	1619-RF-3
4	1619-VB-1
5	1619-VB-2
6	1619-VB-3
7	1619-PS-1
8	1619-PS-2
9	1619-PS-3
10	1619-CLK-1
11	1619-CLK-2
12	1619-CLK-3
13	1619-SF-1
14	1619-SF-2
15	1619-SF-3
16	1619-SF2-1
17	1619-SF2-2
18	1619-SF2-3
19	1619-SF3-1
20	1619-SF3-2
21	1619-SF3-3
22	1619-WTX-1
23	1619-WTX-2
24	1619-WTX-3
25	1619-CTX-1
26	1619-CTX-2
27	1619-CTX-3
28	1619-VFT-1
29	1619-VFT-2
30	1619-VFT-3
31	1619-DWJC-1
32	1619-DWJC-2
33	1619-DWJC-3

1619 340th Street

First Floor



Basement



Legend

- Meth Wipe Sample Location
- Non-asbestos Containing Material Sample Location

NOT TO SCALE

Red Earth Residential Buildings
1619, 1629, 1653, and 1671 340th Street
Hiawatha, Kansas

Figure 2
Sample Location Map - 1619 340th St.

TETRA TECH

Date: 10/26/2021 Drawn By: Nick Wiederholt Project No: 103G65210190.07

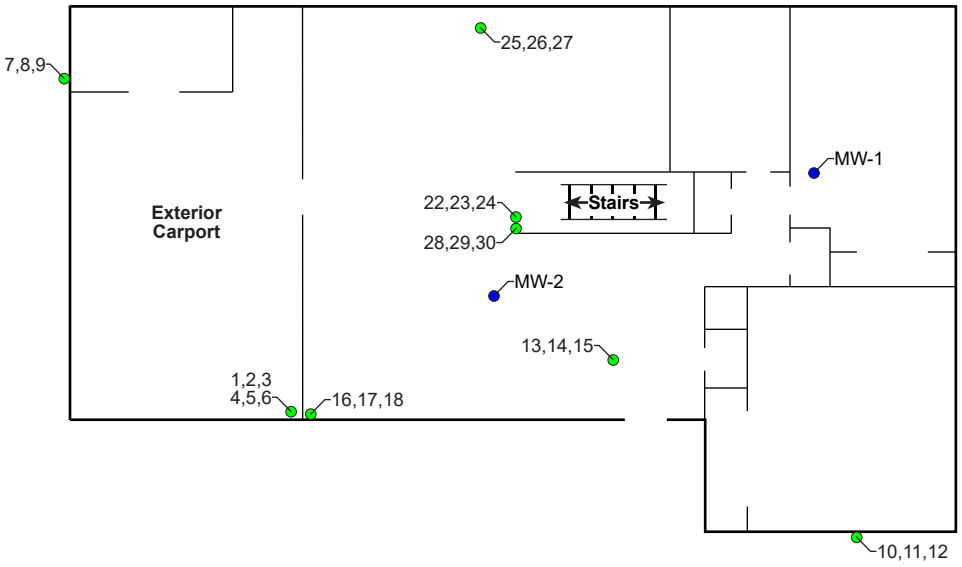
X:\P\65210190\07\FH10\Figure3_1619.FH10

Sample Key Table

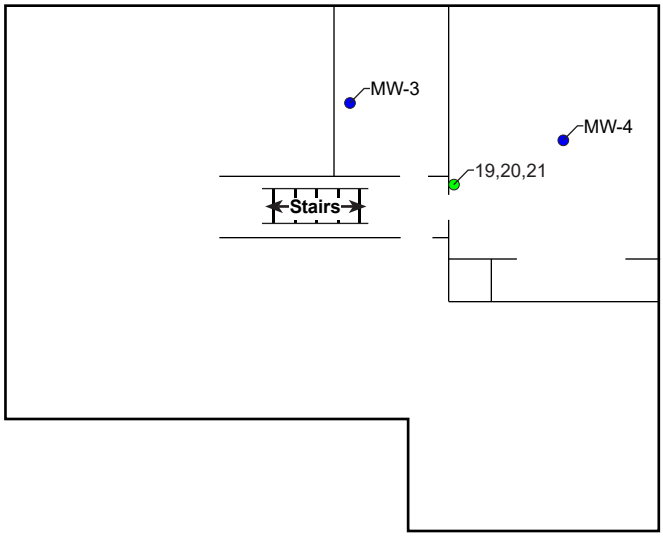
Key	Sample No.
Asbestos	
1	1629-RF-1
2	1629-RF-2
3	1629-RF-3
4	1629-VB-1
5	1629-VB-2
6	1629-VB-3
7	1629-PS-1
8	1629-PS-2
9	1629-PS-3
10	1629-CLK-1
11	1629-CLK-2
12	1629-CLK-3
13	1629-SF-1
14	1629-SF-2
15	1629-SF-3
16	1629-SF2-1
17	1629-SF2-2
18	1629-SF2-3
19	1629-SF3-1
20	1629-SF3-2
21	1629-SF3-3
22	1629-WTX-1
23	1629-WTX-2
24	1629-WTX-3
25	1629-CTX-1
26	1629-CTX-2
27	1629-CTX-3
28	1629-DWJC-1
29	1629-DWJC-2
30	1629-DWJC-3

1629 340th Street

First Floor



Basement



Legend

- Meth Wipe Sample Location
- Non-asbestos Containing Material Sample Location

NOT TO SCALE

Red Earth Residential Buildings
1619, 1629, 1653, and 1671 340th Street
Hiawatha, Kansas

Figure 3
Sample Location Map - 1629 340th St.

TETRA TECH

Date: 10/26/2021 Drawn By: Nick Wiederholt Project No: 103G65210190.07

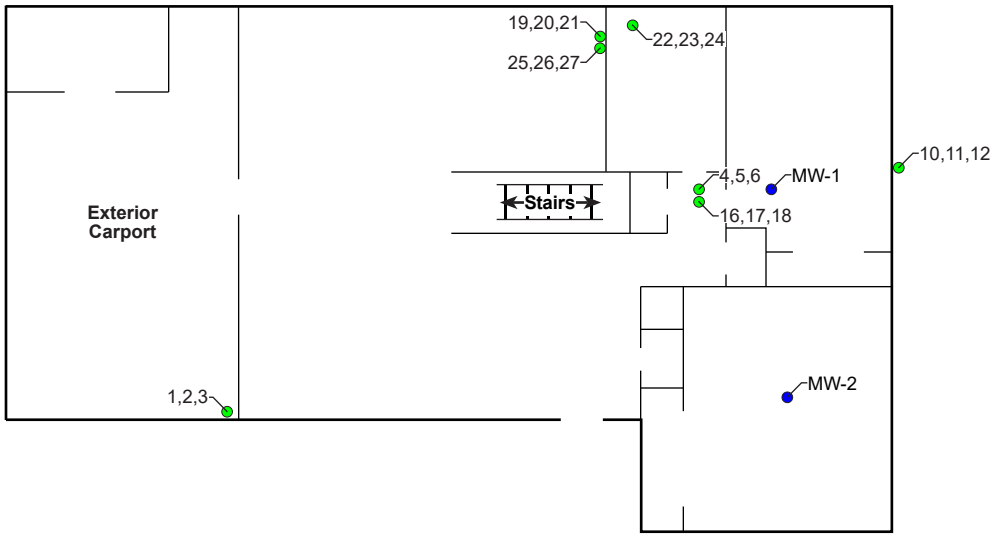
X:\P\65210190\07\FH10\Figure4_1629.FH10

Sample Key Table

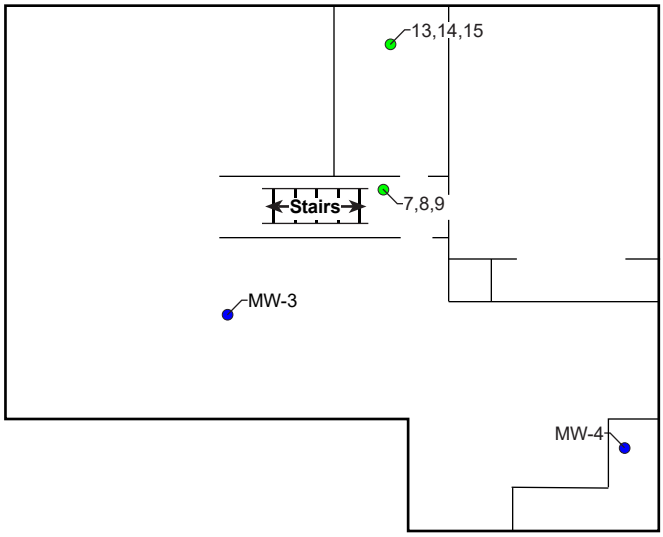
Key	Sample No.
Asbestos	
1	1653-RF-1
2	1653-RF-2
3	1653-RF-3
4	1653-VF-1
5	1653-VF-2
6	1653-VF-3
7	1653-CA-1
8	1653-CA-2
9	1653-CA-3
10	1653-CLK-1
11	1653-CLK-2
12	1653-CLK-3
13	1653-SF-1
14	1653-SF-2
15	1653-SF-3
16	1653-SF2-1
17	1653-SF2-2
18	1653-SF2-3
19	1653-WTX-1
20	1653-WTX-2
21	1653-WTX-3
22	1653-CTX-1
23	1653-CTX-2
24	1653-CTX-3
25	1653-DWJC-1
26	1653-DWJC-2
27	1653-DWJC-3

1653 340th Street

First Floor



Basement



Legend

- Meth Wipe Sample Location
- Non-asbestos Containing Material Sample Location

NOT TO SCALE

Red Earth Residential Buildings
1619, 1629, 1653, and 1671 340th Street
Hiawatha, Kansas

Figure 4
Sample Location Map - 1653 340th St.

TETRA TECH

Date: 10/26/2021 Drawn By: Nick Wiederholt Project No: 103G65210190.07

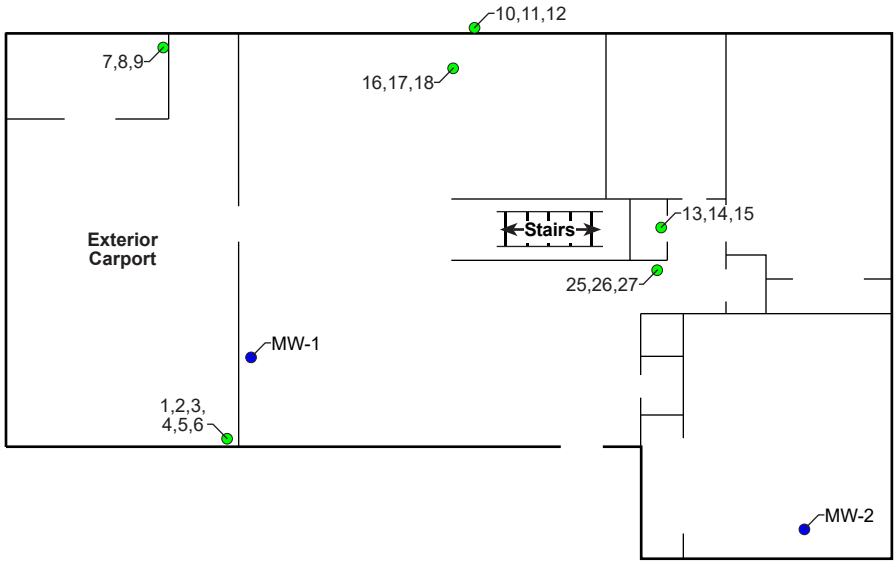
X:\P\65210190\07\FH10\Figure5_1653.FH10

Sample Key Table

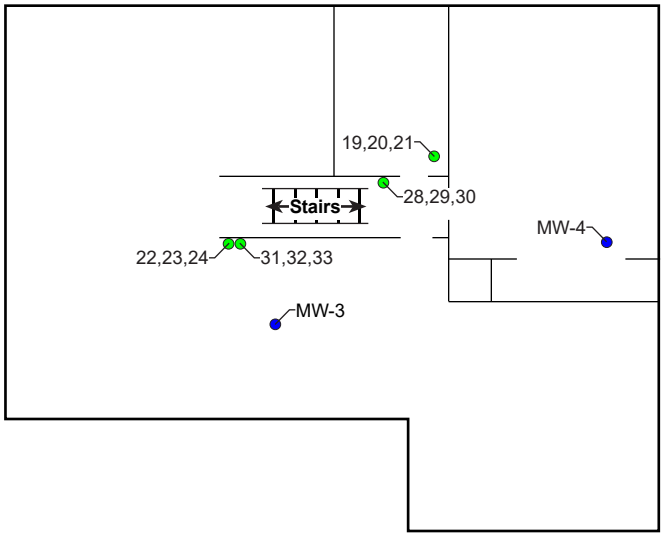
Key	Sample No.
Asbestos	
1	1671-RF-1
2	1671-RF-2
3	1671-RF-3
4	1671-VB-1
5	1671-VB-2
6	1671-VB-3
7	1671-PS-1
8	1671-PS-2
9	1671-PS-3
10	1671-CLK-1
11	1671-CLK-2
12	1671-CLK-3
13	1671-SF-1
14	1671-SF-2
15	1671-SF-3
16	1671-SF2-1
17	1671-SF2-2
18	1671-SF2-3
19	1671-SF3-1
20	1671-SF3-2
21	1671-SF3-3
22	1671-WTX-1
23	1671-WTX-2
24	1671-WTX-3
25	1671-CTX-1
26	1671-CTX-2
27	1671-CTX-3
28	1671-CA-1
29	1671-CA-2
30	1671-CA-3
31	1671-DWJC-1
32	1671-DWJC-2
33	1671-DWJC-3

1671 340th Street

First Floor



Basement



Legend

- Meth Wipe Sample Location
- Non-asbestos Containing Material Sample Location

NOT TO SCALE

Red Earth Residential Buildings
1619, 1629, 1653, and 1671 340th Street
Hiawatha, Kansas

Figure 5
Sample Location Map - 1671 340th St.

TETRA TECH

Date: 10/26/2021 Drawn By: Nick Wiederholt Project No: 103G65210190.07

X:\P\65210190\07\FH10\Figure6_1671-FH10

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows the subject property at 1619 340th Street.	1
	CLIENT	U.S. Environmental Protection Agency (EPA)	Date
Direction: South	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows vapor barrier at 1619 340th Street.	2
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows pink panel siding at 1619 340th Street.	3
	CLIENT	EPA	Date
Direction: South	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows window caulk at 1619 340th Street.	4
	CLIENT	EPA	Date
Direction: North	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows ceramic-façade, small square-patterned, and 6" tile-façade sheet flooring with associated mastic at 1619 340th Street.	5
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows ceiling texture, wall texture, and drywall with joint compound at 1619 340th Street.	6
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows 12” vinyl floor tile with associated mastic at 1619 340th Street.	7
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows a bathtub with associated mastic at 1619 340th Street.	8
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows sink undercoating at 1619 340th Street.	9
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.03	DESCRIPTION	This photograph shows methamphetamine residue wipe sampling at the kitchen counter at 1619 340th Street.	10
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Reed Niemack	10/4/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows the subject property at 1629 340th Street.	11
	CLIENT	EPA	Date
Direction: South	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows window caulk at 1629 340th Street.	12
	CLIENT	EPA	Date
Direction: North	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows ceiling texture, wall texture, and drywall with joint compound at 1629 340th Street.	13
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows small and large square-patterned sheet flooring with mastic at 1629 340th Street.	14
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows a bathtub with associated mastic at 1629 340th Street.	15
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows sink undercoating at 1629 340th Street.	16
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.03	DESCRIPTION	This photograph shows methamphetamine residue wipe sampling at the kitchen counter at 1629 340th Street.	17
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/4/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows the subject property at 1653 340th Street.	18
	CLIENT	EPA	Date
Direction: South	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows vinyl flooring with associated mastic and carpet with associated adhesive at 1653 340th Street.	19
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows ceiling texture, wall texture, and drywall with joint compound at 1653 340th Street.	20
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows a bathtub with associated mastic at 1653 340th Street.	21
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows square-patterned sheet flooring with associated mastic under vinyl flooring at 1653 340th Street.	22
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.03	DESCRIPTION	This photograph shows methamphetamine residue wipe sampling at the work bench at 1653 340th Street.	23
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Reed Niemack	10/4/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows the subject property at 1671 340th Street.	24
	CLIENT	EPA	Date
Direction: South	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows vapor barrier at 1671 340th Street.	25
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/6/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows white panel siding at 1671 340th Street.	26
	CLIENT	EPA	Date
Direction: South	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

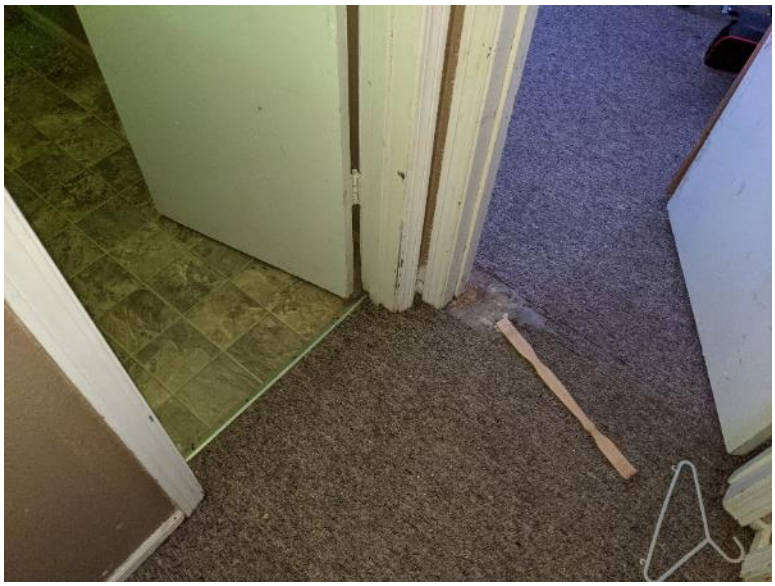
SUBTASK NO. 07.05	DESCRIPTION	This photograph shows window caulk at 1671 340th Street.	27
	CLIENT	EPA	Date
Direction: Northwest	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows ceiling texture, wall texture, and drywall with joint compound at 1671 340th Street.	28
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows carpeting with associated adhesive and pebble-patterned sheet flooring with associated mastic at 1671 340th Street.	29
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows large square-patterned sheet flooring with associated mastic at 1671 340th Street.	30
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021



SUBTASK NO. 07.05	DESCRIPTION	This photograph shows ceramic-façade sheet flooring with associated mastic at 1671 340th Street.	31
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

SUBTASK NO. 07.05	DESCRIPTION	This photograph shows a bathtub with associated mastic at 1671 340th Street.	32
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Ryan Slanczka	10/5/2021

Red Earth Residential Buildings Hazardous Materials Survey
Hiawatha, Kansas

SUBTASK NO. 07.03	DESCRIPTION	This photograph shows methamphetamine residue wipe sampling at a TV stand at 1671 340th Street.	33
	CLIENT	EPA	Date
Direction: NA	PHOTOGRAPHER	Reed Niemack	10/5/2021

APPENDIX C

INSPECTOR CERTIFICATIONS

M·E·T·A

Mayhew Environmental Training Associates

INCORPORATED

Certificate # MLJUA49FDJX

Ryan Slanczka

has on 1/21/2021, in Lawrence, KS
completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 USC 2646

Asbestos Inspector Refresher

as approved by MO & the US EPA under 40 CFR 763 (AHERA) from 1/21/2021 to 1/21/2021
and
passed the associated exam on 1/21/2021 with a score of at least 70%

Robert W. Brooks

Robert Brooks
Instructor

Thomas Mayhew
President

KANSAS MAYHEW INC. 1987 EST. 1985 ENVIRONMENTAL TRAINING ASSOCIATES SAFETY IN GOD ALONE

SSN: XXX-XX-8388
Expiration: 1/21/2022

P.O. Box 786 - Lawrence, KS. 66044 - 800.444.6382
www.metaenvironmental.net

M·E·T·A

Mayhew Environmental Training Associates

INCORPORATED

Certificate # ZWKTY9226GBHL

Reed Niemack

has on 12/10/2020, in Lawrence, KS completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 USC 2646

Asbetsos Inspector Refresher

as approved by KS & the US EPA under 40 CFR 763 (AHERA)
on 12/10/2020 - 12/10/2020 and passed the associated exam on 12/10/2020 with a score of at least 70%

Dean C. Althage

Dean Althage Instructor

Thomas Mayhew
President

KANSAS MAYHEW EST. 1985 INC. 1987 ENVIRONMENTAL TRAINING ASSOCIATES SAFETY IN GOD ALONE

SSN: XXX-XX-2667
Expiration: 12/10/2021

P.O. Box 786 - Lawrence, KS. 66044 - 800.444.6382
www.metaenvironmental.net

APPENDIX D

ACM ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS

eurofins | EMLab P&K

Report for:

Mr. Jeffrey Mitchell
Tetra Tech-KCMO
415 Oak Street
Kansas City, MO 64106

Regarding: Project: 103G65210190.07.05; Red Earth-1619 340th Street
EML ID: 2754444

Approved by:

Approved Signatory
Gregorio Delgado

Dates of Analysis:
Asbestos PLM: 10-11-2021

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 600122-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K
10900 Brittmoore Park Drive, Suite G, Houston, TX 77041
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech-KCMO
C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1619 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Total Samples Submitted:	33
Total Samples Analyzed:	33
Total Samples with Layer Asbestos Content > 1%:	0

Location: 1619-RF-1, Shingle Roofing

Lab ID-Version‡: 13180205-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray/Green Pebbles	ND
Black Roofing Tar	ND
Black Roofing Shingle with Black Pebbles	ND
Composite Non-Asbestos Content:	15% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1619-RF-2, Shingle Roofing

Lab ID-Version‡: 13180206-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray/Green Pebbles	ND
Black Roofing Tar	ND
Black Roofing Shingle with Black Pebbles	ND
Composite Non-Asbestos Content:	15% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1619-RF-3, Shingle Roofing

Lab ID-Version‡: 13180207-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray/Green Pebbles	ND
Black Roofing Tar	ND
Black Roofing Shingle with Gray/Green Pebbles	ND
Black Roofing Tar	ND
Black Roofing Shingle with Black Pebbles	ND
Composite Non-Asbestos Content:	15% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1619-VB-1, Vapor Barrier

Lab ID-Version‡: 13180208-1

Sample Layers	Asbestos Content
Dark Brown Vapor Barrier	ND
Composite Non-Asbestos Content:	70% Cellulose
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
10900 Brittmoore Park Drive, Suite G, Houston, TX 77041
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech-KCMO
C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1619 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1619-VB-2, Vapor Barrier

Lab ID-Version‡: 13180209-1

Sample Layers	Asbestos Content
Dark Brown Vapor Barrier	ND
Composite Non-Asbestos Content:	70% Cellulose
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
10900 Brittmoore Park Drive, Suite G, Houston, TX 77041
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech-KCMO
C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1619 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1619-VB-3, Vapor Barrier Lab ID-Version‡: 13180210-1

Sample Layers	Asbestos Content
Dark Brown Vapor Barrier	ND
Composite Non-Asbestos Content:	70% Cellulose
Sample Composite Homogeneity:	Good

Location: 1619-PS-1, Pink Panel Siding Lab ID-Version‡: 13180211-1

Sample Layers	Asbestos Content
Brown Fibrous Material (Panel Siding) with Pink Paint	ND
Composite Non-Asbestos Content:	80% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 1619-PS-2, Pink Panel Siding Lab ID-Version‡: 13180212-1

Sample Layers	Asbestos Content
Brown Fibrous Material (Panel Siding) with Pink Paint	ND
Composite Non-Asbestos Content:	80% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 1619-PS-3, Pink Panel Siding Lab ID-Version‡: 13180213-1

Sample Layers	Asbestos Content
Brown Fibrous Material (Panel Siding) with Pink Paint	ND
Composite Non-Asbestos Content:	80% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech-KCMO
C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1619 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1619-CLK-1, Window Caulk Lab ID-Version‡: 13180214-1

Sample Layers	Asbestos Content
Off-White Caulk with Wood	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 1619-CLK-2, Window Caulk Lab ID-Version‡: 13180215-1

Sample Layers	Asbestos Content
White Caulk with Multilayered Paint	ND
Transparent Caulk	ND
Sample Composite Homogeneity:	Poor

Location: 1619-CLK-3, Window Caulk Lab ID-Version‡: 13180216-1

Sample Layers	Asbestos Content
Off-White Caulk with Multilayered Paint	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 1619-SF-1, Ceramic and Facade Sheet Lab ID-Version‡: 13180217-1

Sample Layers	Asbestos Content
Brown Sheet Flooring	ND
Transparent Mastic	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1619 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1619-SF-2, Flooring with Mastic

Lab ID-Version‡: 13180218-1

Sample Layers	Asbestos Content
Brown Sheet Flooring	ND
Transparent Mastic	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1619-SF-3, Flooring with Mastic

Lab ID-Version‡: 13180219-1

Sample Layers	Asbestos Content
Brown Sheet Flooring	ND
Transparent Mastic	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1619-SF2-1, Small Square Patterned

Lab ID-Version‡: 13180220-1

Sample Layers	Asbestos Content
Beige Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	15% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1619-SF2-2, Sheet Flooring with Mastic

Lab ID-Version‡: 13180221-1

Sample Layers	Asbestos Content
Beige Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	15% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1619 340th Street

Date of Sampling: 10-05-2021
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Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1619-SF2-3, Sheet Flooring with Mastic Lab ID-Version‡: 13180222-1

Sample Layers	Asbestos Content
Beige Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	15% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1619-SF3-1, 6" Tile-Facade Sheet Lab ID-Version‡: 13180223-1

Sample Layers	Asbestos Content
Cream Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	15% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1619-SF3-2, Flooring with Mastic Lab ID-Version‡: 13180224-1

Sample Layers	Asbestos Content
Cream Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	15% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1619-SF3-3, Flooring with Mastic Lab ID-Version‡: 13180225-1

Sample Layers	Asbestos Content
Cream Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	15% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1619 340th Street

Date of Sampling: 10-05-2021
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Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1619-VFT-1, 12"x12" Vinyl Floor Tile with Mastic Lab ID-Version‡: 13180226-1

Sample Layers	Asbestos Content
Tan Floor Tile with Gray Specks	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 1619-VFT-2, 12"x12" Vinyl Floor Tile with Mastic Lab ID-Version‡: 13180227-1

Sample Layers	Asbestos Content
Tan Floor Tile with Gray Specks	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 1619-VFT-3, 12"x12" Vinyl Floor Tile with Mastic Lab ID-Version‡: 13180228-1

Sample Layers	Asbestos Content
Tan Floor Tile with Gray Specks	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 1619-DWJC-1, Drywall with Joint Compound Lab ID-Version‡: 13180229-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Re: 103G65210190.07.05; Red Earth-1619 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1619-DWJC-2, Drywall with Joint Compound Lab ID-Version‡: 13180230-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 1619-DWJC-3, Drywall with Joint Compound Lab ID-Version‡: 13180231-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 1619-WTX-1, Wall Texture Lab ID-Version‡: 13180232-1

Sample Layers	Asbestos Content
White Texture with Off-White Paint and Paper	ND
Composite Non-Asbestos Content:	60% Cellulose
Sample Composite Homogeneity:	Poor

Location: 1619-WTX-2, Wall Texture Lab ID-Version‡: 13180233-1

Sample Layers	Asbestos Content
White Texture with Off-White Paint and Paper	ND
Composite Non-Asbestos Content:	60% Cellulose
Sample Composite Homogeneity:	Poor

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: Tetra Tech-KCMO
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Re: 103G65210190.07.05; Red Earth-1619 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1619-WTX-3, Wall Texture Lab ID-Version‡: 13180234-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Texture with Off-White Paint	ND
Composite Non-Asbestos Content:	45% Cellulose
Sample Composite Homogeneity:	Poor

Location: 1619-CTX-1, Ceiling Texture Lab ID-Version‡: 13180235-1

Sample Layers	Asbestos Content
Off-White Ceiling Texture with White Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 1619-CTX-2, Ceiling Texture Lab ID-Version‡: 13180236-1

Sample Layers	Asbestos Content
Off-White Ceiling Texture with White Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 1619-CTX-3, Ceiling Texture Lab ID-Version‡: 13180237-1

Sample Layers	Asbestos Content
Off-White Ceiling Texture with White Paint	ND
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 866-8853

CONTACT INFORMATION

Company:	Tetra Tech, Inc.	Address: 415 Oak Street, Kansas City, MO 64106	
Contact:	Jeffrey Mitchell	Special Instructions: Stop on 1st Positive	
Phone:	(816) 412-1773		

PROJECT INFORMATION

Project ID:	103G6521090.07.05		
Project Description:	Red Earth - 1619 340th Street		
Project Zip	66434	Sampling Date & Time:	10/5/2021
PO Number:		Sampled By: Ryan Stanczak	

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush*.
*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1619-RF-	1 Shingle Roofing	B	STD	NA	
" -	2 "	B	STD	NA	
" -	3 "	B	STD	NA	
-VB-	1 Vapor Barrier	B	STD	NA	
" -	2 "	B	STD	NA	
" -	3 "	B	STD	NA	
-PS-	1 Pink Panel Siding	B	STD	NA	
" -	2 "	B	STD	NA	
" -	3 "	B	STD	NA	
-CLK-	1 Window Caulk	B	STD	NA	
" -	2 "	B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk					PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/R-93/116	EPA Point Count (200	EPA Point Count (400	EPA Point Count (1	Gravimetric Point Co	CARB 435 Method (	CARB 435 Metho	Lead Analysis		
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									

002754444

SAMPLE TYPE CODES		RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
A – Air	W – Wipe	Ryan Stanczak	10/6/21 1600	[signature] 10/7/21	0930
B – Bulk	T – Tape				
D – Dust	R – Rock				
SO – Soil	O – Other:				

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Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802
SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 866-6653

CONTACT INFORMATION

Company:	Tetra Tech, Inc.	Address: 415 Oak Street, Kansas City, MO 64106	
Contact:	Jeffrey Mitchell	Special Instructions: Stop on 1st Positive	
Phone:	(816) 412-1773		

PROJECT INFORMATION

Project ID:	103665210190.07.05		
Project Description:	Red Earth - 1619 340th Street		
Project Zip	66434	Sampling Date & Time:	10/5/2021
PO Number:		Sampled By:	Ryan Slaweske

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush*
*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1619-CLK-3	Window Caulk	B	STD	NA	
-SF-1	Ceramic - Facade Sheet	B	STD	NA	
-2	Flooring w/ mastic	B	STD	NA	
-3	"	B	STD	NA	
-SF2-1	Small Square Patterned	B	STD	NA	
-2	Sheet Flooring w/ mastic	B	STD	NA	
-3	"	B	STD	NA	
-SF3-1	6" Tile - Facade sheet	B	STD	NA	
-2	Flooring w/ mastic	B	STD	NA	
-3	"	B	STD	NA	
-VFT-1	12"x12" Vinyl Floor Tile w/ Mastic	B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk					PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/R-93/116	EPA Point Count (200 Point Count)	EPA Point Count	EPA Point Count	Gravimetric Point	CARB 435 Meth	CARB 435 Me	Lead Analysis		
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									

002754444

SAMPLE TYPE CODES		RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
A – Air	W – Wipe				
B – Bulk	T – Tape		10/6/21 1600		10/7/21 0930
D – Dust	R – Rock				
SO – Soil	O – Other:				

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Contact:	Jeffrey Mitchell	Special Instructions: Stop on 1st Positive	
Phone:	(816) 412-1773		

PROJECT INFORMATION

Project ID:	103G65210190.07.05		
Project Description:	Red Earth - 1619 340th Street		
Project Zip	66434	Sampling Date & Time:	10/5/2021
PO Number:		Sampled By: Ryan Stanerson	

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush*
*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1619-VFT-	2 12"x12" Vinyl Floor Tile w/ Mastic	B	STD	NA	
-	3	B	STD	NA	
-DWJC-	1 Drywall with Joint Compound	B	STD	NA	
-	2	B	STD	NA	
-	3	B	STD	NA	
-WTX-	1 Wall Texture	B	STD	NA	
-	2	B	STD	NA	
-	3	B	STD	NA	
-CTX-	1 Ceiling Texture	B	STD	NA	
-	2	B	STD	NA	
-	3	B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk					PLM Point Count &		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/R-93/116	EPA Point Count (Stop nt)	EPA Point Cou	EPA Point Cou	Gravimetric Point Co.	CARB 435 Method (Pre-	CARB 435 Method (Regu	Lead Analysis		
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									

00275444

SAMPLE TYPE CODES		RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
A – Air	W – Wipe				
B – Bulk	T – Tape		10/6/21 1600		10/7/21 0930
D – Dust	R – Rock				
SO – Soil	O – Other:				

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Report for:

Mr. Jeffrey Mitchell
Tetra Tech-KCMO
415 Oak Street
Kansas City, MO 64106

Regarding: Project: 103G65210190.07.05; Red Earth-1629 340th Street
EML ID: 2754435

Approved by:

Approved Signatory
Gregorio Delgado

Dates of Analysis:
Asbestos PLM: 10-08-2021

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 600122-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

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Re: 103G65210190.07.05; Red Earth-1629 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Total Samples Submitted:	30
Total Samples Analyzed:	30
Total Samples with Layer Asbestos Content > 1%:	0

Location: 1629-CLK-1, Window Caulk Lab ID-Version‡: 13180395-1

Sample Layers	Asbestos Content
White Caulk with Wood	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 1629-CLK-2, Window Caulk Lab ID-Version‡: 13180396-1

Sample Layers	Asbestos Content
White Caulk with Wood	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 1629-CLK-3, Window Caulk Lab ID-Version‡: 13180397-1

Sample Layers	Asbestos Content
White Caulk with Wood	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 1629-RF-1, Shingle Roofing Lab ID-Version‡: 13180398-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Green Pebbles	ND
Black Roofing Tar	ND
Black Roofing Material with Black Pebbles	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Poor

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Date of Sampling: 10-05-2021
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ASBESTOS PLM REPORT

Location: 1629-RF-2, Shingle Roofing Lab ID-Version‡: 13180399-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Green Pebbles	ND
Black Roofing Tar	ND
Black Roofing Material with Black Pebbles	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1629-RF-3, Shingle Roofing Lab ID-Version‡: 13180400-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Green Pebbles	ND
Black Roofing Tar	ND
Black Roofing Material with Black Pebbles	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1629-PS-1, Black Panel Siding Lab ID-Version‡: 13180401-1

Sample Layers	Asbestos Content
Brown Fibrous Material with Multilayered Paint	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: 1629-PS-2, Black Panel Siding Lab ID-Version‡: 13180402-1

Sample Layers	Asbestos Content
Brown Fibrous Material with Multilayered Paint	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

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Re: 103G65210190.07.05; Red Earth-1629 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1629-PS-3, Black Panel Siding Lab ID-Version‡: 13180403-1

Sample Layers	Asbestos Content
Brown Fibrous Material with Multilayered Paint	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: 1629-CTX-1, Ceiling Texture Lab ID-Version‡: 13180404-1

Sample Layers	Asbestos Content
White Popcorn Ceiling with White Paint	ND
Sample Composite Homogeneity:	Good

Location: 1629-CTX-2, Ceiling Texture Lab ID-Version‡: 13180405-1

Sample Layers	Asbestos Content
White Popcorn Ceiling with White Paint	ND
Sample Composite Homogeneity:	Good

Location: 1629-CTX-3, Ceiling Texture Lab ID-Version‡: 13180406-1

Sample Layers	Asbestos Content
White Popcorn Ceiling with White Paint	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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10900 Brittmoore Park Drive, Suite G, Houston, TX 77041
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech-KCMO
C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1629 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1629-SF-1, Ceramic-Facade Sheet Flooring on Large Square Pattern Sheet Flooring with Mastic

Lab ID-Version‡: 13180407-1

Sample Layers	Asbestos Content
Off-White Sheet Flooring	ND
Yellow Adhesive	ND
White Sheet Flooring with Fibrous Backing	ND
Cream Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose 7% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1629-SF-2, Ceramic-Facade Sheet Flooring on Large Square Pattern Sheet Flooring with Mastic

Lab ID-Version‡: 13180408-1

Sample Layers	Asbestos Content
Off-White Sheet Flooring	ND
Yellow Adhesive	ND
White Sheet Flooring with Fibrous Backing	ND
Cream Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose 7% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1629-SF-3, Ceramic-Facade Sheet Flooring on Large Square Pattern Sheet Flooring with Mastic

Lab ID-Version‡: 13180409-1

Sample Layers	Asbestos Content
Off-White Sheet Flooring	ND
Yellow Adhesive	ND
White Sheet Flooring with Fibrous Backing	ND
Cream Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose 7% Glass Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: Tetra Tech-KCMO
C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1629 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1629-SF2-1, Small Square pattern Sheet Flooring with Mastic Lab ID-Version‡: 13180410-1

Sample Layers	Asbestos Content
White Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

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C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1629 340th Street

Date of Sampling: 10-05-2021
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Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1629-SF2-2, Small Square pattern Sheet Flooring with Mastic Lab ID-Version‡: 13180411-1

Sample Layers	Asbestos Content
White Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1629-SF2-3, Small Square pattern Sheet Flooring with Mastic Lab ID-Version‡: 13180412-1

Sample Layers	Asbestos Content
White Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1629-SF3-1, Ceramic-Facade Sheet Flooring with Mastic Lab ID-Version‡: 13180413-1

Sample Layers	Asbestos Content
Gray Sheet Flooring	ND
Cream Mastic	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 1629-SF3-2, Ceramic-Facade Sheet Flooring with Mastic Lab ID-Version‡: 13180414-1

Sample Layers	Asbestos Content
Gray Sheet Flooring	ND
Cream Mastic	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Good

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Re: 103G65210190.07.05; Red Earth-1629 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1629-SF3-3, Ceramic-Facade Sheet Flooring with Mastic Lab ID-Version‡: 13180415-1

Sample Layers	Asbestos Content
Gray Sheet Flooring	ND
Cream Mastic	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 1629-WTX-1, Wall Texture Lab ID-Version‡: 13180416-1

Sample Layers	Asbestos Content
White Texture with White Paint	ND
Sample Composite Homogeneity:	Good

Location: 1629-WTX-2, Wall Texture Lab ID-Version‡: 13180417-1

Sample Layers	Asbestos Content
White Texture with White Paint	ND
Sample Composite Homogeneity:	Good

Location: 1629-WTX-3, Wall Texture Lab ID-Version‡: 13180418-1

Sample Layers	Asbestos Content
White Texture with White Paint	ND
Sample Composite Homogeneity:	Good

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C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1629 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1629-DWJC-1, Drywall with Joint Compound Lab ID-Version‡: 13180419-1

Sample Layers	Asbestos Content
Pink Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 1629-DWJC-2, Drywall with Joint Compound Lab ID-Version‡: 13180420-1

Sample Layers	Asbestos Content
Pink Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 1629-DWJC-3, Drywall with Joint Compound Lab ID-Version‡: 13180421-1

Sample Layers	Asbestos Content
Pink Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 1629-VB-1, Vapor Barrier Lab ID-Version‡: 13180422-1

Sample Layers	Asbestos Content
Black Vapor Barrier	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: Tetra Tech-KCMO
C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1629 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1629-VB-2, Vapor Barrier

Lab ID-Version‡: 13180423-1

Sample Layers	Asbestos Content
Black Vapor Barrier	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Good

Location: 1629-VB-3, Vapor Barrier

Lab ID-Version‡: 13180424-1

Sample Layers	Asbestos Content
Black Vapor Barrier	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 888-6653

CONTACT INFORMATION

Company:	Tetra Tech, Inc.	Address: 415 Oak Street, Kansas City, MO 64106	
Contact:	Jeffrey Mitchell	Special Instructions: Stop on 1st Positive	
Phone:	(816) 412-1773		

PROJECT INFORMATION

Project ID:	103G65210190.07.05		
Project Description:	Red Earth - 1629 340th Street		
Project Zip	66434	Sampling Date & Time:	10/6/2021
PO Number:		Sampled By:	Ryan Slawczak

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)

ND – Next Business Day

SD – Same Business Day Rush*

*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1629-OK-	1 Window Caulk	B	STD	NA	
" -	2 "	B	STD	NA	
" -	3 "	B	STD	NA	
-RF-	1 Shingle Roofing	B	STD	NA	
" -	2 "	B	STD	NA	
" -	3 "	B	STD	NA	
-PS-	1 Black Panel Siding	B	STD	NA	
" -	2 "	B	STD	NA	
" -	3 "	B	STD	NA	
-CTX-	1 Ceiling Texture	B	STD	NA	
↓ " -	2 "	B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk					PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/	EPA Point Count	EPA Point Cour	EPA Point C	Gravimetric F	CARB 435	CARB 436	Lead Analysis		
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									

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SAMPLE TYPE CODES

A – Air	W – Wipe
B – Bulk	T – Tape
D – Dust	R – Rock
SO – Soil	O – Other:

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	10/6/21 1600		10/7/21 0930

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CONTACT INFORMATION

Company:	Tetra Tech, Inc.	Address: 415 Oak Street, Kansas City, MO 64106	
Contact:	Jeffrey Mitchell	Special Instructions: Stop on 1st Positive	
Phone:	(816) 412-1773		

PROJECT INFORMATION

Project ID:	103G65210190.07.05		
Project Description:	Red Earth - 1629 340th Street		
Project Zip	66434	Sampling Date & Time:	10/5/2021
PO Number:		Sampled By:	Ryan Slanczka

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush*
*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1629-CTX-	3 Ceiling Texture	B	STD	NA	
-SF-	1 ceramic-facade sheet flooring on	B	STD	NA	
" -	2 large square pattern sheet flooring	B	STD	NA	
" -	3 with mastic	B	STD	NA	
-SF2-	1 Small Square Pattern sheet	B	STD	NA	
" -	2 flooring with mastic	B	STD	NA	
" -	3 "	B	STD	NA	
-SF3-	1 ceramic-facade sheet	B	STD	NA	
" -	2 flooring with mastic	B	STD	NA	
" -	3 "	B	STD	NA	
-WTX-	1 Wall Texture	B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk					PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/	EPA Point Count	EPA Point Count (	EPA Point Count	Gravimetric Point Co	CARB 435 Method (Pre	CARB 435 Method (Re	Lead Analysis		
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									

002754435

SAMPLE TYPE CODES		RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
A – Air	W – Wipe				
B – Bulk	T – Tape		10/6/21 1600		10/7/21 0930
D – Dust	R – Rock				
SO – Soil	O – Other:				

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SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 998-6653

CONTACT INFORMATION

Company:	Tetra Tech, Inc.	Address: 415 Oak Street, Kansas City, MO 64106	
Contact:	Jeffrey Mitchell	Special Instructions: Stop on 1st Positive	
Phone:	(816) 412-1773		

PROJECT INFORMATION

Project ID:	103665210190.07.05		
Project Description:	Red Earth - 1629 340th Street		
Project Zip	66434	Sampling Date & Time:	10/5/2021
PO Number:		Sampled By: Ryan Stancek	

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush*
*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1629-WTX-2	Wall Texture	B	STD	NA	
" -3	"	B	STD	NA	
-DWJC- 1	Drywall with Joint Compound	B	STD	NA	
" - 2	"	B	STD	NA	
" - 3	"	B	STD	NA	
-VB- 1	Vapor Barrier	B	STD	NA	
" - 2	"	B	STD	NA	
" - 3	"	B	STD	NA	
		B	STD	NA	
		B	STD	NA	
		B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk					PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/R-93/116	EPA Point Count (200 Po	EPA Point Count (400 Pc	EPA Point Count (100	Gravimetric Point Count	CARB 435 Method (Pre	CARB 435 Method (	Lead Analysis		
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									

002754435

SAMPLE TYPE CODES		RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
A – Air	W – Wipe				
B – Bulk	T – Tape		10/6/21 1600		
D – Dust	R – Rock				
SO – Soil	O – Other:			10/7/21	0930

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Report for:

Mr. Jeffrey Mitchell
Tetra Tech-KCMO
415 Oak Street
Kansas City, MO 64106

Regarding: Project: 103G65210190.07.05; Red Earth-1653 340th Street
EML ID: 2754437

Approved by:

Approved Signatory
Gregorio Delgado

Dates of Analysis:
Asbestos PLM: 10-08-2021

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 600122-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

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Re: 103G65210190.07.05; Red Earth-1653 340th Street

Date of Sampling: 10-05-2021
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Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Total Samples Submitted:	27
Total Samples Analyzed:	27
Total Samples with Layer Asbestos Content > 1%:	0

Location: 1653-CLK-1, Window Caulk Lab ID-Version‡: 13180320-1

Sample Layers	Asbestos Content
White Caulk with Brown Surface and Wood	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 1653-CLK-2, Window Caulk Lab ID-Version‡: 13180321-1

Sample Layers	Asbestos Content
White Caulk with Brown Surface	ND
Sample Composite Homogeneity:	Moderate

Location: 1653-CLK-3, Window Caulk Lab ID-Version‡: 13180322-1

Sample Layers	Asbestos Content
White Caulk with Brown Surface and Wood	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 1653-RF-1, Shingle Roofing Lab ID-Version‡: 13180323-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Green Pebbles	ND
Black Roofing Tar	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Moderate

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Date of Sampling: 10-05-2021
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ASBESTOS PLM REPORT

Location: 1653-RF-2, Shingle Roofing

Lab ID-Version‡: 13180324-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Green Pebbles	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1653-RF-3, Shingle Roofing

Lab ID-Version‡: 13180325-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Green Pebbles	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1653-DWJC-1, Drywall with Joint Compound

Lab ID-Version‡: 13180326-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Joint Compound with Multilayered Paint	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Poor

Location: 1653-DWJC-2, Drywall with Joint Compound

Lab ID-Version‡: 13180327-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Joint Compound with Multilayered Paint	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Poor

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Re: 103G65210190.07.05; Red Earth-1653 340th Street

Date of Sampling: 10-05-2021
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Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1653-DWJC-3, Drywall with Joint Compound Lab ID-Version‡: 13180328-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 1653-CTX-1, Ceiling Texture Lab ID-Version‡: 13180329-1

Sample Layers	Asbestos Content
Off-White Ceiling Texture with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 1653-CTX-2, Ceiling Texture Lab ID-Version‡: 13180330-1

Sample Layers	Asbestos Content
Off-White Ceiling Texture with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 1653-CTX-3, Ceiling Texture Lab ID-Version‡: 13180331-1

Sample Layers	Asbestos Content
Off-White Ceiling Texture with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

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(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech-KCMO
C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth-1653 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1653-SF-1, Ceramic-Facade Sheet

Lab ID-Version‡: 13180332-1

Sample Layers	Asbestos Content
Transparent Adhesive	ND
Gray Sheet Flooring	ND
Yellow Mastic with Black Debris	ND
Composite Non-Asbestos Content:	2% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1653-SF-2, Flooring with Mastic

Lab ID-Version‡: 13180333-1

Sample Layers	Asbestos Content
Beige Sheet Flooring	ND
Transparent Adhesive	ND
Gray Sheet Flooring	ND
Yellow Mastic with Black Debris	ND
Composite Non-Asbestos Content:	2% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1653-SF-3, Flooring with Mastic

Lab ID-Version‡: 13180334-1

Sample Layers	Asbestos Content
Beige Sheet Flooring	ND
Transparent Adhesive	ND
Gray Sheet Flooring	ND
Yellow Mastic with Black Debris	ND
Composite Non-Asbestos Content:	2% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1653-SF2-1, Square Pattern Sheet

Lab ID-Version‡: 13180335-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Tan Sheet Flooring with Fibrous Backing	ND
Cream Mastic with Wood	ND
Composite Non-Asbestos Content:	25% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Poor

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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ASBESTOS PLM REPORT

Location: 1653-SF2-2, Flooring with Mastic

Lab ID-Version‡: 13180336-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Tan Sheet Flooring with Fibrous Backing	ND
Cream Mastic with Wood	ND
Composite Non-Asbestos Content:	25% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1653-SF2-3, Flooring with Mastic

Lab ID-Version‡: 13180337-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Tan Sheet Flooring with Fibrous Backing	ND
Cream Mastic with Wood	ND
Composite Non-Asbestos Content:	25% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1653-VF-1, Grey Vinyl Flooring with Brown Mastic

Lab ID-Version‡: 13180338-1

Sample Layers	Asbestos Content
Gray Floor Tile with Dark-Gray Specks	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 1653-VF-2, Grey Vinyl Flooring with Brown Mastic

Lab ID-Version‡: 13180339-1

Sample Layers	Asbestos Content
Gray Floor Tile with Dark-Gray Specks	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1653-VF-3, Grey Vinyl Flooring with Brown Mastic Lab ID-Version‡: 13180340-1

Sample Layers	Asbestos Content
Gray Floor Tile with Dark-Gray Specks	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 1653-WTX-1, Wall Texture Lab ID-Version‡: 13180341-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Texture with Multilayered Paint	ND
Composite Non-Asbestos Content:	25% Cellulose
Sample Composite Homogeneity:	Poor

Location: 1653-WTX-2, Wall Texture Lab ID-Version‡: 13180342-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Texture with Multilayered Paint	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Poor

Location: 1653-WTX-3, Wall Texture Lab ID-Version‡: 13180343-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
White Texture with Multilayered Paint	ND
Composite Non-Asbestos Content:	25% Cellulose
Sample Composite Homogeneity:	Poor

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Re: 103G65210190.07.05; Red Earth-1653 340th Street

Date of Sampling: 10-05-2021
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Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1653-CA-1, Grey Carpet Adhesive Lab ID-Version‡: 13180344-1

Sample Layers	Asbestos Content
Multicolored Carpet	ND
Light Gray Adhesive	ND
Composite Non-Asbestos Content:	80% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 1653-CA-2, Grey Carpet Adhesive Lab ID-Version‡: 13180345-1

Sample Layers	Asbestos Content
Multicolored Carpet	ND
Light Gray Adhesive	ND
Composite Non-Asbestos Content:	80% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 1653-CA-3, Grey Carpet Adhesive Lab ID-Version‡: 13180346-1

Sample Layers	Asbestos Content
Multicolored Carpet	ND
Light Gray Adhesive	ND
Composite Non-Asbestos Content:	80% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802
SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 888-6653

CONTACT INFORMATION

Company:	Tetra Tech, Inc.	Address: 415 Oak Street, Kansas City, MO 64106	
Contact:	Jeffrey Mitchell	Special Instructions: Stop on 1st Positive	
Phone:	(816) 412-1773		

PROJECT INFORMATION

Project ID:	1036652019O.07.05		
Project Description:	Red Earth - 1653 340th Street		
Project Zip	66434	Sampling Date & Time:	10/5/2021
PO Number:		Sampled By: Ryan Slaczka	

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush*
*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1653-CLK-	1 Window Caulk	B	STD	NA	
" -	2 "	B	STD	NA	
" -	3 "	B	STD	NA	
-RF -	1 Shingle Roofing	B	STD	NA	
" -	2 "	B	STD	NA	
" -	3 "	B	STD	NA	
-DWJC-	1 Drywall with Joint Compound	B	STD	NA	
" -	2 "	B	STD	NA	
" -	3 "	B	STD	NA	
-CTX-	1 Ceiling Texture	B	STD	NA	
" -	2 "	B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk							PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/R-93/116	EPA Point C ount)	EPA Point C ount)	EPA Point t Count)	Gravimetric	CARB 435 M	CARB 435	d Sample)	Sample)			
		X											
		X											
		X											
		X											
		X											
		X											
		X											
		X											
		X											
		X											
		X											

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SAMPLE TYPE CODES		RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
A – Air	W – Wipe				
B – Bulk	T – Tape				
D – Dust	R – Rock				
SO – Soil	O – Other:		10/6/21 1600		10/7/21 0930

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Company:	Tetra Tech, Inc.	Address: 415 Oak Street, Kansas City, MO 64106	
Contact:	Jeffrey Mitchell	Special Instructions: Stop on 1st Positive	
Phone:	(816) 412-1773		

PROJECT INFORMATION

Project ID:	103G65210190.07.05		
Project Description:	Red Earth - 1653 340th Street		
Project Zip:	66434	Sampling Date & Time:	10/5/2021
PO Number:		Sampled By:	Ryan Slawecka

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush*
*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1653-CTX-	3 Ceiling Texture	B	STD	NA	
-SF-	1 ceramic-facade sheet	B	STD	NA	
"	2 flooring with mastic	B	STD	NA	
"	3 "	B	STD	NA	
-SF2-	1 square pattern sheet	B	STD	NA	
"	2 flooring with mastic	B	STD	NA	
"	3 "	B	STD	NA	
-VF-	1 Grey Vinyl Flooring	B	STD	NA	
"	2 with brown mastic	B	STD	NA	
"	3 "	B	STD	NA	
-WTX-	1 Wall Texture	B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk					PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/F	EPA Point Count (	EPA Point Count (	EPA Point Coun	Gravimetric Point (	CARB 435 Method	CARB 435 Methc	Lead Analysis		
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									

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SAMPLE TYPE CODES		RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
A – Air	W – Wipe				
B – Bulk	T – Tape		10/6/21 1600		
D – Dust	R – Rock				
SO – Soil	O – Other:				10/7/21 0950

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TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)

ND – Next Business Day

SD – Same Business Day Rush*

*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1653-WTX-2	Wall Texture	B	STD	NA	
" -3	"	B	STD	NA	
-CA-1	Grey carpet Adhesive	B	STD	NA	
" -2	"	B	STD	NA	
" -3	"	B	STD	NA	
		B	STD	NA	
		B	STD	NA	
		B	STD	NA	
		B	STD	NA	
		B	STD	NA	
		B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk							PLM Rock & Soil	Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/R-	EPA Point Count	EPA Point Count	EPA Point Count	Gravimetric Point Count	CARB 435 Method	CARB 435 Method	Lead Analysis			
		X										
		X										
		X										
		X										
		X										
		X										
		X										
		X										
		X										
		X										
		X										

002754437

SAMPLE TYPE CODES	
A – Air	W – Wipe
B – Bulk	T – Tape
D – Dust	R – Rock
SO – Soil	O – Other:

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	10/6/21 1600		10/7/21 0930

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Report for:

Mr. Jeffrey Mitchell
Tetra Tech-KCMO
415 Oak Street
Kansas City, MO 64106

Regarding: Project: 103G65210190.07.05; Red Earth - 1671 340th Street
EML ID: 2754448

Approved by:

Approved Signatory
Gregorio Delgado

Dates of Analysis:
Asbestos PLM: 10-08-2021

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 600122-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

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Date of Sampling: 10-05-2021
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ASBESTOS PLM REPORT

Total Samples Submitted:	33
Total Samples Analyzed:	33
Total Samples with Layer Asbestos Content > 1%:	0

Location: 1671-DWJC-1, Drywall With Joint Compound

Lab ID-Version‡: 13180244-1

Sample Layers	Asbestos Content
Pink Drywall with Brown Paper	ND
White Joint Compound with White Paint	ND
White Joint Compound	ND
White Tape (Mesh) with White Paint	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1671-DWJC-2, Drywall With Joint Compound

Lab ID-Version‡: 13180245-1

Sample Layers	Asbestos Content
Pink Drywall with Brown Paper	ND
White Joint Compound with White Paint	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 1671-DWJC-3, Drywall With Joint Compound

Lab ID-Version‡: 13180246-1

Sample Layers	Asbestos Content
Pink Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 1671-RF-1, Shingle Roofing

Lab ID-Version‡: 13180247-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Green Pebbles	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 1671-RF-2, Shingle Roofing

Lab ID-Version‡: 13180248-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Black Pebbles	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 1671-RF-3, Shingle Roofing Lab ID-Version‡: 13180249-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Black Pebbles	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 1671-VB-1, Vapor Barrier Lab ID-Version‡: 13180250-1

Sample Layers	Asbestos Content
Black Vapor Barrier with Orange Paint	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Good

Location: 1671-VB-2, Vapor Barrier Lab ID-Version‡: 13180251-1

Sample Layers	Asbestos Content
Black Vapor Barrier with Orange Paint	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Good

Location: 1671-VB-2, Vapor Barrier Lab ID-Version‡: 13180252-1

Sample Layers	Asbestos Content
Black Vapor Barrier with Orange Paint	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 1671-CLK-1, Window Caulk Lab ID-Version‡: 13180253-1

Sample Layers	Asbestos Content
White Caulk with Wood	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Good

Location: 1671-CLK-2, Window Caulk Lab ID-Version‡: 13180254-1

Sample Layers	Asbestos Content
White Caulk with Wood	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Good

Location: 1671-CLK-3, Window Caulk Lab ID-Version‡: 13180255-1

Sample Layers	Asbestos Content
White Caulk with Wood	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Good

Location: 1671-PS-1, White Panel Siding Lab ID-Version‡: 13180256-1

Sample Layers	Asbestos Content
Brown Fibrous Material with White Paint	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 1671-PS-2, White Panel Siding Lab ID-Version‡: 13180257-1

Sample Layers	Asbestos Content
Brown Fibrous Material with White Paint	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: 1671-PS-3, White Panel Siding Lab ID-Version‡: 13180258-1

Sample Layers	Asbestos Content
Brown Fibrous Material with White Paint	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: 1671-SF-1, Pebble-Pattern Sheet Flooring With Mastic Lab ID-Version‡: 13180259-1

Sample Layers	Asbestos Content
Off-White Sheet Flooring with Fibrous Backing	ND
Composite Non-Asbestos Content:	10% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 1671-SF-2, Pebble-Pattern Sheet Flooring With Mastic Lab ID-Version‡: 13180260-1

Sample Layers	Asbestos Content
Off-White Sheet Flooring with Fibrous Backing	ND
Composite Non-Asbestos Content:	10% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 1671-SF-3, Pebble-Pattern Sheet Flooring With Mastic Lab ID-Version‡: 13180261-1

Sample Layers	Asbestos Content
Off-White Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1671-SF2-1, Large Square Pattern Sheet Flooring with Mastic Lab ID-Version‡: 13180262-1

Sample Layers	Asbestos Content
White Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1671-SF2-2, Large Square Pattern Sheet Flooring with Mastic Lab ID-Version‡: 13180263-1

Sample Layers	Asbestos Content
White Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1671-SF2-3, Large Square Pattern Sheet Flooring with Mastic Lab ID-Version‡: 13180264-1

Sample Layers	Asbestos Content
White Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
10900 Brittmoore Park Drive, Suite G, Houston, TX 77041
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech-KCMO
C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth - 1671 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1671-CTX-1, Ceiling Texture Lab ID-Version‡: 13180265-1

Sample Layers	Asbestos Content
White Popcorn Ceiling with White Paint	ND
Sample Composite Homogeneity:	Good

Location: 1671-CTX-2, Ceiling Texture Lab ID-Version‡: 13180266-1

Sample Layers	Asbestos Content
White Popcorn Ceiling with White Paint	ND
Sample Composite Homogeneity:	Good

Location: 1671-CTX-3, Ceiling Texture Lab ID-Version‡: 13180267-1

Sample Layers	Asbestos Content
White Popcorn Ceiling with White Paint	ND
Sample Composite Homogeneity:	Good

Location: 1671-SF3-1, Ceramic-Facade Sheet Flooring With Mastic Lab ID-Version‡: 13180268-1

Sample Layers	Asbestos Content
White Sheet Flooring	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
10900 Brittmoore Park Drive, Suite G, Houston, TX 77041
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech-KCMO
C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth - 1671 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1671-SF3-2, Ceramic-Facade Sheet Flooring With Mastic Lab ID-Version‡: 13180269-1

Sample Layers	Asbestos Content
White Sheet Flooring	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 1671-SF3-3, Ceramic-Facade Sheet Flooring With Mastic Lab ID-Version‡: 13180270-1

Sample Layers	Asbestos Content
White Sheet Flooring	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 1671-CA-1, Carpet Adhesive Lab ID-Version‡: 13180271-1

Sample Layers	Asbestos Content
Gray Carpet	ND
Cream Mastic	ND
Composite Non-Asbestos Content:	80% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 1671-CA-2, Carpet Adhesive Lab ID-Version‡: 13180272-1

Sample Layers	Asbestos Content
Gray Carpet	ND
Cream Mastic	ND
Composite Non-Asbestos Content:	80% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
10900 Brittmoore Park Drive, Suite G, Houston, TX 77041
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: Tetra Tech-KCMO
C/O: Mr. Jeffrey Mitchell
Re: 103G65210190.07.05; Red Earth - 1671 340th Street

Date of Sampling: 10-05-2021
Date of Receipt: 10-07-2021
Date of Report: 10-11-2021

ASBESTOS PLM REPORT

Location: 1671-CA-3, Carpet Adhesive

Lab ID-Version‡: 13180273-1

Sample Layers	Asbestos Content
Gray Carpet	ND
Cream Mastic	ND
Composite Non-Asbestos Content:	80% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 1671-WTX-1, Wall Texture

Lab ID-Version‡: 13180274-1

Sample Layers	Asbestos Content
White Texture with White Paint	ND
Sample Composite Homogeneity:	Good

Location: 1671-WTX-2, Wall Texture

Lab ID-Version‡: 13180275-1

Sample Layers	Asbestos Content
White Texture with White Paint	ND
Sample Composite Homogeneity:	Good

Location: 1671-WTX-3, Wall Texture

Lab ID-Version‡: 13180276-1

Sample Layers	Asbestos Content
White Texture with White Paint	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

CHAIN OF CUSTODY

www.EMLabPK.com

EMLab P&K
A TestAmerica Company

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 * (856) 871-1984
Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802
SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 888-6653

CONTACT INFORMATION

Company:	Tetra Tech, Inc.	Address: 415 Oak Street, Kansas City, MO 64106	
Contact:	Jeffrey Mitchell	Special Instructions: Stop on 1st Positive	
Phone:	(816) 412-1773		

PROJECT INFORMATION

Project ID:	103G65210190.07.05		
Project Description:	Red Earth - 1671 340th Street		
Project Zip	66434	Sampling Date & Time:	10/5/2021
PO Number:		Sampled By:	Ryan Slanczka

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)

ND – Next Business Day

SD – Same Business Day Rush*

*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1671-DW-1	Drywall with Joint Compound	B	STD	NA	
" -2	"	B	STD	NA	
" -3	"	B	STD	NA	
-RF-1	Shingle Roofing	B	STD	NA	
" -2	"	B	STD	NA	
" -3	"	B	STD	NA	
-VB-1	Vapor Barrier	B	STD	NA	
" -2	"	B	STD	NA	
" -3	"	B	STD	NA	
-CLK-1	Window Caulk	B	STD	NA	
" -2	"	B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk					PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method	EPA Point Count	EPA Point Count	EPA Point Count	Gravimetric	CARB 435 Method (Regular Sample)	CARB 435 Method (Regular Sample)	Lead Analysis		
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									

002754448

SAMPLE TYPE CODES		RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
A – Air	W – Wipe				
B – Bulk	T – Tape		10/6/21 1600		
D – Dust	R – Rock				
SO – Soil	O – Other:			10/7/21	0930

CHAIN OF CUSTODY
www.EMLabPK.com

EMLab P&K
A TestAmerica Company

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 * (866) 871-1984
Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802
SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 888-6659

CONTACT INFORMATION

Company:	Tetra Tech, Inc.	Address: 415 Oak Street, Kansas City, MO 64106	
Contact:	Jeffrey Mitchell	Special Instructions: Stop on 1st Positive	
Phone:	(816) 412-1773		

PROJECT INFORMATION

Project ID:	103G52101190.07.05		
Project Description:	Red Earth - 1671 340th Street		
Project Zip	66434	Sampling Date & Time:	10/5/2021
PO Number:		Sampled By: Ryan Slanczka	

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush*
*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1671-CLK - 3	Window Caulk	B	STD	NA	
-PS - 1	White Panel Siding	B	STD	NA	
- 2	"	B	STD	NA	
- 3	"	B	STD	NA	
-SF - 1	Pebble-Pattern Sheet	B	STD	NA	
- 2	Flooring with mastic	B	STD	NA	
- 3	"	B	STD	NA	
-SF2 - 1	Large Square Pattern Sheet	B	STD	NA	
- 2	Flooring with mastic	B	STD	NA	
- 3	"	B	STD	NA	
-CTX - 1	Ceiling Texture	B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk					PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/R-...	EPA Point Co	EPA Point Cou	EPA Point Cou	Gravimetric Point C	CARB 435 Method (f	CARB 435 Method (s	Lead Analysis		
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									
		X									

002754448

SAMPLE TYPE CODES	
A – Air	W – Wipe
B – Bulk	T – Tape
D – Dust	R – Rock
SO – Soil	O – Other:

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	10/6/21 1600		10/7/21 0930

CHAIN OF CUSTODY

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Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 * (800) 651-4802
SSF, CA: 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (855) 888-8853

CONTACT INFORMATION

Company:	Tetra Tech, Inc.	Address: 415 Oak Street, Kansas City, MO 64106	
Contact:	Jeffrey Mitchell	Special Instructions: Stop on 1st Positive	
Phone:	(816) 412-1773		

PROJECT INFORMATION

Project ID:	1036652101907.05		
Project Description:	Red Earth - 1671 340th Street		
Project Zip	66434	Sampling Date & Time:	10/5/2021
PO Number:		Sampled By:	Ryan Slaniczka

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)

ND – Next Business Day

SD – Same Business Day Rush*

*Please call Client Services for locations with Rush services

Rushes received after 2pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume (Air Samples only)	Notes
1671-CTX-2	Ceiling Texture	B	STD	NA	
-3	"	B	STD	NA	
MSF3 -1	Ceramic-Facade sheet	B	STD	NA	
-2	Flooring with Mastic	B	STD	NA	
-3	"	B	STD	NA	
-CA -1	Carpet Adhesive	B	STD	NA	
-2	"	B	STD	NA	
-3	"	B	STD	NA	
-WTX-1	Wall Texture	B	STD	NA	
-2	"	B	STD	NA	
-3	"	B	STD	NA	

ASBESTOS ANALYSIS

REQUESTED SERVICES (Check boxes below)

PCM Air		PLM Bulk								PLM Rock & Soil		Other Requests		
Fiber Count (NIOSH 7400)	OSHA with TWA	EPA Method 600/R-93/116	EPA Point Count	EPA Point Count	EPA Point Count	Gravimetric P.	CARB 435 Meth	CARB 435 Me	Lead Analysis					
		X												
		X												
		X												
		X												
		X												
		X												
		X												
		X												
		X												
		X												
		X												

002754448

SAMPLE TYPE CODES	
A – Air	W – Wipe
B – Bulk	T – Tape
D – Dust	R – Rock
SO – Soil	O – Other:

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	10/6/21 1600		10/7/21 0930

APPENDIX E

METH RESIDUE WIPE SAMPLE ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 /
http://www.EMSL.com / IndustrialHygienelab@emsl.com

EMSL Order ID: 282102677
Customer ID: TETRA77
Customer PO:
Project ID:

Attn: Kaitlyn Mitchell
Tetra Tech
415 Oak Street
Kansas City, MO 64106

Phone: (816) 412-1741
Fax: (816) 410-1748
Collected:
Received: 10/07/2021
Analyzed: 10/12/2021

Proj: Red Earth Buildings TBA

Test Report:Methamphetamine - wipe samples to 0.1 ug by NIOSH 9111M

Sample ID	Identification	Area	Sample Weight	Sample Concentration	Reporting Limit
1619-MW-1 282102677-0001	Kitchen Counter	100 cm²	0.17 µg	0.17 µg/100 cm²	0.10 µg/100 cm²
1619-MW-2 282102677-0002	Living Room Floor	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
1619-MW-3 282102677-0003	Bathroom Counter	100 cm²	0.24 µg	0.24 µg/100 cm²	0.10 µg/100 cm²
1619-MW-4 282102677-0004	Basement Floor	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
MW-FB-1 282102677-0005	Field Blank	N/A	<0.10 µg	<0.10 µg/wipe	0.10 µg/wipe
1629-MW-1 282102677-0006	Kitchen Counter	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
1629-MW-2 282102677-0007	Living Room Floor	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
1629-MW-3 282102677-0008	Bathroom Counter	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
1629-MW-4 282102677-0009	Bedroom Floor	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
1653-MW-1 282102677-0010	Kitchen Counter	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
1653-MW-2 282102677-0011	Bedroom Floor	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
1653-MW-3 282102677-0012	Basement Floor	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
1653-MW-4 282102677-0013	Work Bench	100 cm²	0.30 µg	0.30 µg/100 cm²	0.10 µg/100 cm²
1671-MW-1 282102677-0014	TV Stand	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²

N/A = Not Applicable

Analyst(s)

Jonathon Meddick

Scott Van Etten, CIH, Laboratory Manager

Any questions please contact Scott VanEtten.

Initial report from: 10/18/2021 10:16:31

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 /
http://www.EMSL.com / IndustrialHygienelab@emsl.com

EMSL Order ID: 282102677
Customer ID: TETRA77
Customer PO:
Project ID:

Attn: Kaitlyn Mitchell
Tetra Tech
415 Oak Street
Kansas City, MO 64106

Phone: (816) 412-1741
Fax: (816) 410-1748
Collected:
Received: 10/07/2021
Analyzed: 10/12/2021

Proj: Red Earth Buildings TBA

Test Report:Methamphetamine - wipe samples to 0.1 ug by NIOSH 9111M

Sample ID	Identification	Area	Sample Weight	Sample Concentration	Reporting Limit
1671-MW-2 282102677-0015	Bedroom Desk	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
1671-MW-3 282102677-0016	Basement Floor	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
1671-MW-4 282102677-0017	Bedroom TV Stand	100 cm²	<0.10 µg	<0.10 µg/100 cm²	0.10 µg/100 cm²
MW-FB-2 282102677-0018	Field Blank	N/A	<0.10 µg	<0.10 µg/wipe	0.10 µg/wipe
Lab Blank		N/A	<0.10 µg	<0.10 µg	N/A

N/A = Not Applicable

Analyst(s)
Jonathon Meddick

Scott Van Etten, CIH, Laboratory Manager

Any questions please contact Scott VanEtten.

Initial report from: 10/18/2021 10:16:31

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only): 282102677

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (856) 858-4800
FAX: (856) 858-3502

OrderID: 282102677

Report To Contact Name: Kaitlyn Mitchell	**Bill To Company:** Tetra Tech, Inc.	**Sampled By (Signature):**
Company Name: Tetra Tech, Inc.	**Attention To:** Kaitlyn Mitchell	**Number of Samples in Shipment:** 18
Address 1: 415 Oak Street, KCMO 64106	**Address 1:** 415 Oak Street, KCMO	**Date of Shipment:** 10/6/21
Address 2:	**Address 2:**	**U.S. State where Samples Collected:** KS
Phone: (816) 412-1741 **Fax:** (816) 410-1748	**Phone:** **Fax:**	**Purchase Order:**
Email Results To: Kaitlyn.Mitchell@tetratech.com	**Project Name:** Red Earth Buildings TBA	

Turnaround Time -- Please Check: Please Note Standard TAT is 2 Week.							Media Type: Wipe
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
☒	☐	☐	☐	☐	☐	☐ _____	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
1619-MW-1	Wipe	Meth Wipe / NIOSH 9111M	N/A	10/4/21 1355	Kitchen counter	Methamphetamine Wipe Sample
1619-MW-2				1403	living room floor	
1619-MW-3				1407	bathroom counter	
1619-MW-4				1412	~~bathroom~~ basement floor	
MW-FB-1				1416	Field Blank	
1629-MW-1				1435	Kitchen counter	
1629-MW-2				1437	living room floor	
1629-MW-3				1441	bathroom counter	
1629-MW-4				1443	bedroom floor	
1653-MW-1				1506	Kitchen counter	

RECEIVED EMSL CINNAMINSON, NJ 21 OCT -7 AM 11:12

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
Reed Niemack	10/6/21		10/7/2021 10:00

Comments:

(18)

Industrial Hygiene Chain of Custody

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Order Number (Lab Use Only): 282102677

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
Phone: (856) 858-4800
Fax: (856) 858-3502

OrderID: 282102677

Report To Contact Name: Kaitlyn Mitchell	**Bill To Company:** Tetra Tech, Inc.	**Sampled By (Signature):**
Company Name: Tetra Tech, Inc.	**Attention To:** Kaitlyn Mitchell	**Number of Samples in Shipment:** 18
Address 1: 415 Oak Street, KCMO 64106	**Address 1:**	**Date of Shipment:** 10/6/21
Address 2:	**Address 2:**	**U.S. State where Samples Collected:** KS
Phone: (816) 412-1741 **Fax:**	**Phone:** **Fax:**	**Purchase Order:**
Email Results To: Kaitlyn.Mitchell@tetratech.com	**Project Name:** Red Earth Buildings TBA	

Turnaround Time -- Please Check: Please Note Standard TAT is 2 Week.							Media Type:
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)	Manufacturer/Part #:
☒	☐	☐	☐	☐	☐	☐ _____	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
1653-MW-2	Wipe	Meth Wipe/NIOSH 9111M	N/A	10/4/21 1510	~~bedroom~~ floor	Methamphetamine Wipe Sample
1653-MW-3				1514	~~bathroom counter~~ basement floor	
1653-MW-4				1517	~~bedroom floor~~ work bench	
1671-MW-1				10/5/21 ~~1645~~	1653 TV Stand	
1671-MW-2				1650	Bedroom desk	
1671-MW-3				~~1655~~	1700 basement floor	
1671-MW-4				1704	Bedroom TV Stand	
MW-FB-2				1709	Field Blank	

RECEIVED EMSL CINNAMINSON, NJ 21 OCT -7 AM 11:12

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
Reed Niemack	10/6/21		

Comments:

2 of 2 pages