

PARCEL 6 ADDITIONAL CHARACTERIZATION REPORT

CITY OF ALBUQUERQUE RAIL YARDS

Albuquerque, Bernalillo County, New Mexico



Prepared for:

City of Albuquerque, Metropolitan Redevelopment Agency
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February 6, 2017

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ACRONYMS AND ABBREVIATIONS

ACBM	asbestos-containing building materials
ATSF	Atchison, Topeka and Santa Fe
BNSF	Burlington Northern Santa Fe
CCOC	Conditional Certificate of Completion
CNS	Covenant Not to Sue
COA	City of Albuquerque
COC	Certificate of Completion
COPC	contaminants of potential concern
Crisp	Crisp Analytical LLC
CSM	conceptual site model
DCE	DC Environmental
DRO	diesel range organics
GRO	gasoline range organics
INTERA	INTERA Incorporated
LBP	lead-based paint
LNAPL	light non-aqueous phase liquid
MRO	motor oil range organics
NMED	New Mexico Environment Department
Report	this <i>Parcel 6 Additional Characterization Report</i>
RMD	Radiation Monitoring Device
Site	Albuquerque Rail Yards located in downtown Albuquerque, New Mexico
SOW	Scope of Work (INTERA, 2016a)
TPH	total petroleum hydrocarbons
VRP	Voluntary Remediation Program (New Mexico Environment Department)
XRF	X-Ray Fluorescence

1.0 INTRODUCTION

In accordance with the Scope of Work (SOW) submitted on August 10, 2016 (INTERA, 2016a) to the City of Albuquerque (COA), INTERA Incorporated (INTERA) is submitting this *Parcel 6 Additional Characterization Report* (Report) documenting the completion of the additional characterization activities conducted at the Albuquerque Rail Yards (Site) located in downtown Albuquerque, New Mexico in support of participation in the New Mexico Environmental Department (NMED) Voluntary Remediation Program (VRP). The Albuquerque Rail Yards consists of Areas A, B, C and Tract A. The Site location is presented on **Figure 1**.

1.1 Background

The Site is located between 2nd Street and Commercial Street in downtown Albuquerque, New Mexico, and comprises approximately 27 acres (Areas A, B, C and Tract A) located within the former Atchison, Topeka and Santa Fe (ATSF)/Burlington Northern Santa Fe (BNSF) Central Works Equipment Facility Railyard that operated from the 1880s to the early 1990s. As a result of previous operations, the Site sustained environmental impacts from both petroleum hydrocarbon and metal contamination. Contamination is present in both the Site vadose/unsaturated zone (Site soils and soil vapor) and in the saturated zone (Site groundwater) and includes residual light non-aqueous phase liquid (LNAPL), metals adsorbed to soil particles, organic vapors, and organic and inorganic solutes dissolved in groundwater.

Although substantial efforts have been made in the past to fully delineate contamination for impacted Site media, the extent of contamination is still unknown for certain media and Site areas and these are identified as data gaps in the Conceptual Site Model (CSM) developed for the Site (INTERA, 2015). In the CSM, INTERA concluded that the magnitude with which identified data gaps will impact Site redevelopment plans is dependent on the final redevelopment scenario(s) selected for the Site. Additional characterization sampling efforts at the Site should be conducted based on the redevelopment option(s) selected; however, full characterization or remediation of all impacted media may not be required if sufficient information exists to document that exposure pathways to these media are incomplete or if engineering controls are proposed that would render a potential exposure pathway incomplete. In addition, both asbestos containing building materials (ACBM) and lead-based paint (LBP) building materials were used in many of the remaining Site buildings; contamination related to these building materials will also need to be mitigated during any building demolition or building renovation activities.

Numerous environmental investigations have been conducted at the Albuquerque Rail Yards since 1991. Current soil and groundwater environmental contamination persists at the Site. The nature and extent of the contamination within environmental media varies across the Site

regarding depth and contaminants of potential concern (COPCs). Metal contamination in soils is generally more prevalent in the center and northern portions of the Site and petroleum hydrocarbon contamination persists in soils and groundwater in the central and southern portions of the Site. Based on the CSM developed for the Site, the following constituents are identified as Site soil COPCs (INTERA, 2016):

- Residential: antimony, arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chromium, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, iron, lead, thallium, TPH DRO + MRO (the sum of total petroleum hydrocarbons [TPH] diesel range organics [DRO] plus motor oil range organics [MRO]), and TPH
- Industrial/occupational: arsenic, benzo(a)pyrene, lead, thallium, TPH DRO + MRO, and TPH
- Construction worker: arsenic, chromium, lead, manganese, and thallium

Additionally, based on the magnitude of Site soil petroleum hydrocarbon concentrations, residual LNAPL is likely present in Site soils in the southeastern portion of the Site.

The COA and the Site Developer, are seeking to complete Site redevelopment within the NMED VRP. By actively participating in the NMED VRP (and upon successful completion of any remediation actions deemed necessary), the COA will be able to obtain a Conditional Certificate of Completion (CCOC) and/or Certificate of Completion (COC) for either the entire Site or specific parcels at the Site. The CCOC or the COC will document that current conditions in a designated area(s) and/or throughout the Site meet applicable environmental quality standards and will provide NMED enforcement protection for the COA and liability protection for lenders. In addition, once a CCOC or COC is issued, a Covenant Not to Sue (CNS) may be transferred to a selected prospective purchaser and/or future owner of the Site.

The Site Developer has divided the Site into ten parcels (Parcel 1 – Parcel 10) for redevelopment purposes. The locations of the ten parcels are shown on **Figure 2**. Parcel 6, which this Report highlights, is a primary open space parcel known as the Perpendicular Walk that is bounded by the historic Machine Shop to the south and the historic Boiler Shop and Blacksmiths Shops to the north (**Figure 2**). It is the heart of the project. Parcel 6 contains the historic Transfer Table structure that at one time functioned to transfer locomotive assemblies under repair laterally east-west across the site. The Transfer Table is a unique structure that is recommended to be adaptively reused as a water feature, becoming the main focal point for the Perpendicular Walk that will become the primary east-west artery connecting the Barelás and South Broadway communities. The proposed Railroad Bridge is an extension of Parcel 6 to the east over the BNSF Rail lines, and to the west, Parcel 6 extends around the west façade of the Machine Shop

to contain the central transit plaza, the front door of the project. Finally, Parcel 6 is to be covered by a transparent roof that will span between the existing structures to provide protection from the elements (Samitaur, 2014).

1.2 Scope of Work

INTERA developed a SOW to complete additional characterization activities throughout the Site to fill in the data gaps identified in the CSM (INTERA, 2015). The primary intended redevelopment use of Parcel 6 includes a covered perpendicular walkway. Further characterization of Parcel 6 includes an ACBM and LBP survey, completed by DCE, for the historic Transfer Table. The CSM developed for the Site (INTERA, 2015), VRP Preliminary Work Plan (INTERA, 2016b), and Site redevelopment plan (Samitaur, 2014) were critical in the development of the scope of work. The approved SOW (INTERA, 2016a) included an ACBM and LBP survey for the historic Transfer Table within Parcel 6.

1.3 Work Plan Deviations

There were no work plan deviations during this additional characterization field event.

2.0 FIELD ACTIVITIES

DC Environmental, Inc. (DCE) of Albuquerque, New Mexico, an INTERA subcontractor, performed an asbestos and LBP survey at the Site on October 27, 2016.

2.1 ACBM and LBP Sampling

The asbestos/LBP survey was conducted to determine the presence, location, and quantity of asbestos remaining within the Transfer Table and to establish the basis for the presence of lead-containing finishes within the Site structure (DCE, 2016).

DCE conducted a visual inspection for asbestos-containing building materials within the Transfer Table and collected five bulk samples that were tested for asbestos using Polarized Light Microscopy and stereomicroscopy bulk asbestos analysis. Analysis was conducted by Crisp Analytical, LLC (Crisp) of Carrollton, Texas. Crisp is an accredited laboratory and recognized by the National Voluntary Laboratory Accreditation Program (DCE, 2016).

The presence of lead-based paint was assessed in substantial compliance with the Housing and Urban Development guidelines. DCE conducted the surface coating screening survey of the interior and exterior of the building to generally identify building components coated with a surface coating that contains lead. The survey consisted of testing the lead concentrations of each of the accessible surfaces using a Radiation Monitoring Device (RMD) LPA-1 X-Ray Fluorescence (XRF) device. The determination of lead in paint is defined as a surface content of at least 1.0 milligrams per square centimeter. If the XRF readings were between the 0.9 to 1.0 mg/cm² range, then the readings are declared as either lead-based paint or lead-containing materials, and sampling is recommended. Surfaces that were tested with the XRF device included, but were not limited to the following: doors, ceiling, painted walls, structural steel support, painted door components, roof components, ventilation duct, gates, and framing. In addition, bulk samples of paint chips were collected to verify the XRF readings. Lead-based paint is further defined if laboratory analysis determines the lead content to be one-half percent (0.5 %) by weight or greater when analyzed by Flame Atomic Absorption (DCE, 2016).

3.0 RESULTS AND DISCUSSION

The ACBM and LBP survey results conducted within Parcel 6 are summarized in the following subsections. These new data have been compiled with historic data previously summarized in the Site CSM (INTERA, 2015) to provide an overall assessment of the nature and extent of the contamination for the Site. A CSM Update section has been included to facilitate evaluation of all Site data with regards to impacts to future redevelopment.

3.1 ACBM and LBP Sampling Results

3.1.1 ACBM Sampling Results

DCE collected five bulk asbestos samples in the Transfer Table. Asbestos was not identified in the Transfer Table. A copy of the asbestos survey report, which includes the asbestos laboratory results, is provided in **Appendix A**.

3.1.2 LBP Sampling Results

LBP was identified in the Transfer Table. The lead based paint surfaces detected in the *Transfer Table* included:

- black paint on pit pad,
- off-white paint on the control cab, and
- cream paint on the control cab.

An LBP chip analyses was conducted to verify XRF readings, and it confirmed LBP in the Transfer Table. A copy of the LBP survey report, which includes the LBP chip laboratory results and XRF screening results, is provided in **Appendix A**.

3.1.3 Conceptual Site Model Update

The CSM recommended that a Site inspection of all building materials at the Site be conducted to determine if the asbestos and LBP sampling historically conducted at the Site was comprehensive and fill in any data gaps as necessary. DCE reviewed the historical asbestos and LBP sampling locations and resulting data and designed their sample collection to target locations and/or buildings that had not previously been surveyed and/or confirm locations already sampled.

No evidence of previous asbestos inspections performed at the Transfer Table were found (INTERA, 2015). To fill in these data gaps, DCE collected six asbestos bulk samples; all samples were negative for asbestos. Details pertaining to the location of asbestos within the Transfer Table is discussed in detail in Section 3.3.1 and in the DCE Survey Report provided in **Appendix A**.

There are no data indicating LBP samples were historically collected within the Transfer Table (INTERA, 2015). DCE screened 17 paint samples in the Transfer Table using the XRF device. The 2016 results indicate that LBP was detected. Details pertaining to the locations of the LBP is discussed in detail in Section 3.3.2 and in the DCE Survey Report provided in **Appendix A**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the field investigation, INTERA has compiled the following conclusions and recommendations.

4.1 Conclusions

- Asbestos was not detected in the Transfer Table.
- LBP was detected in the Transfer Table.

4.2 Recommendations

Based on ACBM and LBP survey completed within Parcel 6, INTERA makes the following recommendations:

- Immobilization/Containment of LBP Materials: The materials containing LBP will require abatement or encapsulation before substantial renovation or demolition, if proposed, can commence. The final building renovation design should be considered and a decision will have to be made as to their final deposition. Any remaining LBP left within the Transfer Table will need to be documented, and a management plan will need to be developed stating how these materials should be handled following renovation activities.

5.0 REFERENCES

DC Environmental (DC), 2016. *Asbestos and Lead Based Paint Survey, City of Albuquerque, Railyard Transfer Table Parcel 6, Albuquerque, NM*. November 29.

INTERA Incorporated (INTERA), 2016a. *Scope of Work and Cost Proposal for Additional Characterization, Voluntary Remediation Program Activities at the City of Albuquerque Rail Yards, Albuquerque, Bernalillo County, New Mexico*. Prepared for the City of Albuquerque Metropolitan Redevelopment Agency. August 10.

_____, 2016b. *DRAFT New Mexico Environmental Department Voluntary Remediation Program Preliminary Work Plan, Albuquerque Rail Yards, Albuquerque, Bernalillo, New Mexico*. Prepared for the City of Albuquerque. March.

_____, 2015. *Conceptual Site Model City of Albuquerque Rail Yards, Albuquerque, New Mexico*. Prepared for the City of Albuquerque. September 25.

FIGURES

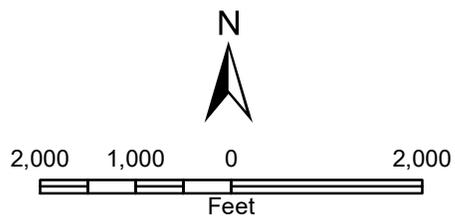
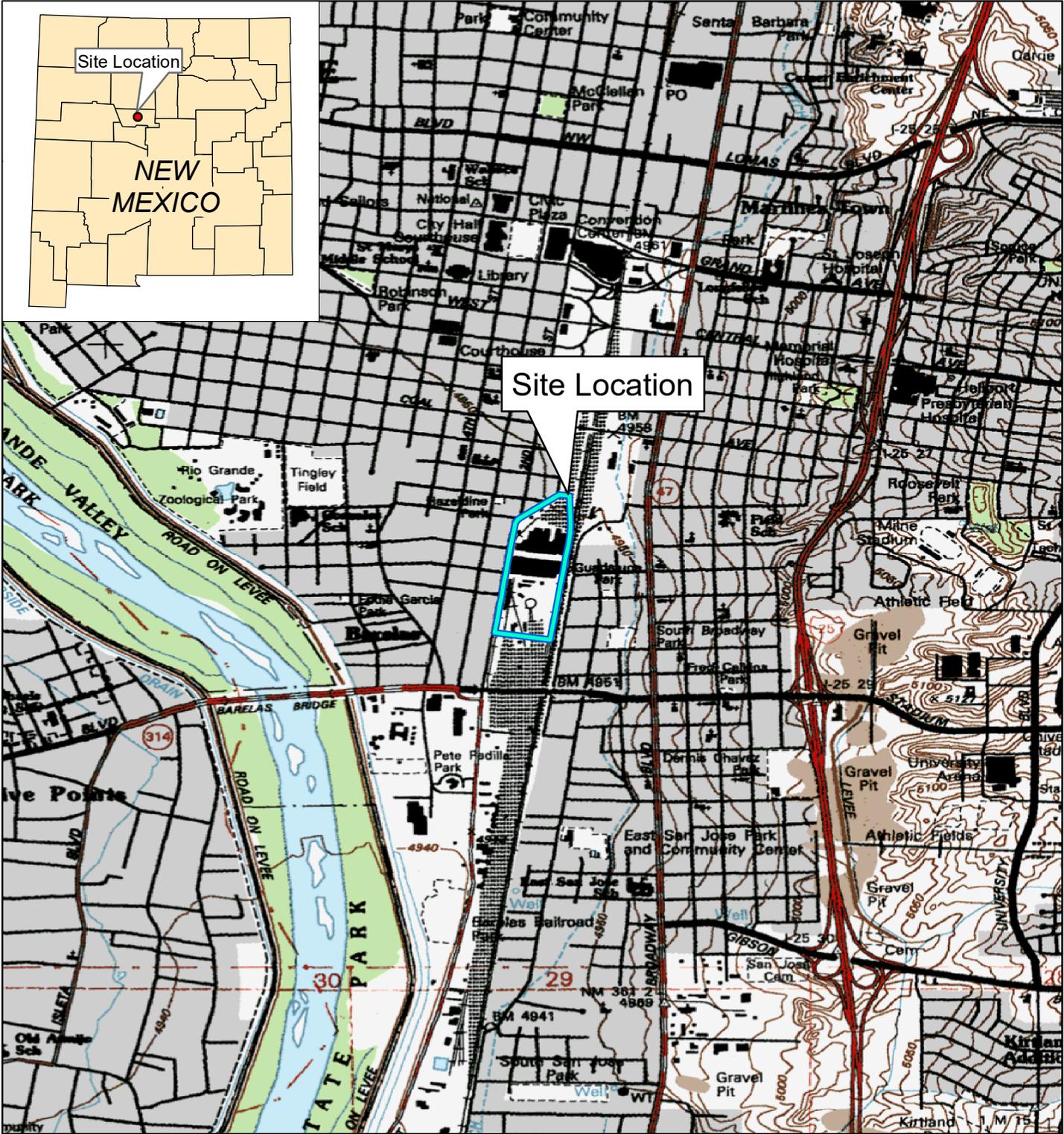


Figure 1
Site Location
 Additional Characterization,
 Voluntary Remediation Program Activities,
 Albuquerque Rail Yards, Albuquerque,
 Bernalillo County, New Mexico

INTERA Source(s): USGS, Albuquerque West
 Quadrangle, 1996



Legend

- | | | |
|--------------------------------------|----------------------------------|--------------------------------|
| ▲ Subslab Soil Vapor Sample (2016) | ▲ Soil Vapor Monitoring Location | ⊕ Monitoring Well; not located |
| ⊕ Soil Boring Sample (2016) | ⬠ Excavation Soil Sample | ▭ Site Feature |
| ⊕ Soil Boring/Soil Gas Sample (2016) | ◆ Field Screening Only | ▭ Parcel Boundary and ID |
| ⊕ Monitoring Well | ▭ Subslab Soil Sample | ⊕ Property Boundary |
| ⊕ Soil Boring Sample | ● Sump | |
| ■ Surface Soil Sample | ● Test Pit Sample | |
| | ● Water Supply Well | |
| | ● Wood Floor Sample | |

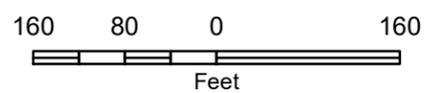


Figure 2
Site Plan, Parcels
 Additional Characterization,
 Voluntary Remediation Program Activities,
 Albuquerque Rail Yards, Albuquerque,
 Bernalillo County, New Mexico



Source(s): Aerial – BERNCO GIS website, dated 2014.

APPENDIX A
Asbestos and Lead-Based Paint Report(s)



**ASBESTOS AND LEAD BASED PAINT SURVEY
City of Albuquerque
Railyard Transfer Table Parcel 6
Albuquerque, NM**



PREPARED FOR:
Intera, Inc.
6000 Uptown Blvd, Suite 220
Albuquerque, New Mexico, 87110

PREPARED BY:
DC Environmental
PO Box 9315
Albuquerque, New Mexico 87119

November 29, 2016
Project No. 16-176



November 29, 2016
Project No. 16-176

Mr. Joe Tracy
Intera Inc.
6000 Uptown Boulevard, NE
Suite 200
Albuquerque, NM 87110

Subject: Asbestos and Lead Based Paint inspection of the Transfer Table Parcel 6 – City of Albuquerque Railyard

Dear Mr. Joe Tracy;

In accordance with our proposal, DC Environmental has performed asbestos and lead based paint inspections of the above-referenced facility, located at the City of Albuquerque Railyard, 1100 2nd St SW, Albuquerque, New Mexico. The attached report presents our methodology, findings, opinions, and recommendations regarding the survey.

Lead-based paint and lead containing materials were identified at the Transfer Table. Asbestos-containing materials were not identified at the Transfer Table.

We appreciate the opportunity to be of service to you on this project. Should you have any questions regarding this report, please contact the undersigned at your convenience.

Sincerely,
ACME ENVIRONMENTAL INDUSTRIAL HYGIENE, INC.
dba DC Environmental

David Charlesworth

Karen Dremann

J. David Charlesworth,
Certified Industrial Hygienist

Karen Dremann
Senior Scientist

Distribution: (2) Addressee

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- Appendix C. Asbestos and LBP Data
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EXECUTIVE SUMMARY

On October 27, 2016, DC Environmental performed an inspection of the Transfer Table located at the City of Albuquerque Railyard on 2nd Street in Albuquerque, New Mexico. The inspection was conducted in a response to a request to identify materials that may be impacted during future renovation or demolition activities. Previous sampling and analysis of building materials for lead had been conducted at the property by Innovar in 2011 and Rhoades in 2013. Previous sampling for asbestos had been conducted by Terracon in 2005, Innovar in 2011 and Rhoades in 2013 (See Appendix C). The focus of our inspection was to verify and determine the presence, location and quantity of asbestos remaining within the facility, and to establish the basis for the presence of lead containing finishes within the structure. The space is being evaluated for a confidential client and the concern is that existing materials may contain asbestos and lead in the finishes.

The inspection design was to conduct a room-by-room (or in this case a surface-by-surface) investigation for asbestos-containing building materials. Access the functional spaces, where appropriate; evaluate the exterior surfaces; and sample materials suspect for asbestos within or upon the Transfer Table equipment.

Asbestos-containing building materials are those containing greater than one percent asbestos as determined by polarized light microscopy. No asbestos was detected in any of the building materials sampled.

Lead-based paint is defined as coatings containing surface area lead of 1.0 milligrams per square centimeter (1.0 mg/cm^2) when evaluated by X-Ray Fluorescence. Lead based paint is further defined if laboratory analysis determines the lead content to be one-half (0.5 %) percent by weight or greater. The lead inspection of the facility was conducted using an X-Ray Fluorescence (XRF) handheld instrument of select components or areas. The inspector did identify painted surfaces with excess lead above the stated regulatory limit. Lead-based paint surfaces included: **black paint on pit pad, off-white paint on the Control Cab and cream paint on the Control Cab.**

Lead-containing materials are those with detectable levels of lead in the materials however not at levels above 1.0 mg/cm^2 . Lead containing materials were identified at the Transfer Table (see Appendix B XRF Lead Measurements). Individuals bidding for work should be aware of the presence of lead when performing demolition and renovation activities involving these items.

1. INTRODUCTION

In accordance with our proposal, DC Environmental has performed an investigation of the Transfer Table located at the City of Albuquerque Railyard in Albuquerque, New Mexico.

The inspection was conducted in a response to a request to have building materials evaluated for future renovation or demolition activities. The focus of our inspection was to determine the presence, location and quantity of asbestos and lead based paint present within the facility. The building is being inspected for a confidential client and the concern is that existing materials may contain asbestos in building materials and lead in the painted finishes.

This report has been prepared in accordance with generally accepted environmental science and engineering practices. This report is based upon conditions at the subject building at the time of the sampling activities and provides documentation of our findings and recommendations.

2. PURPOSE AND SCOPE OF SERVICES

The inspection design was to conduct a room-by-room (or in this case a surface-by-surface) investigation and assess the facility for the presence of asbestos-containing building materials and lead-based paint.

The objective of this inspection was to perform the requisite sampling and present the findings along with any recommendations. The services performed by DC Environmental are outlined below.

- A reconnaissance of the area was conducted by Mr. Michael Neiman and Mr. David Plante. The investigators are accredited Asbestos Building Inspectors. Mr. Nieman is a Certified Lead Inspector.
- Sampling was conducted using several different types of inspection tools and laboratory techniques including Polarized Light Microscopy and X-Ray Fluorescence.
- Report preparation summarizing our sampling methods and laboratory analysis are included. This report further details our conclusions and recommendations for the project.

3. SITE DESCRIPTION

The subject site consists of a steel structure referred to as the Transfer Table.

The Transfer Table

At the Railyard, the Transfer Table runs east to west at the north side of the Machine Shop. The steel structure supports a piece of equipment used to move railyard equipment along a track. The majority of the structure is painted steel. There is a concrete foundation. The transfer car included window putty and a black tar coating suspect for asbestos.

4. ACTIVITIES

DC Environmental conducted a lead-based paint investigation and asbestos-containing building materials inspection on October 27, 2016 of the Transfer Table. Analysis of the Interior and exterior painted surfaces incorporated the use of an X-Ray Fluorescence Device. The Radiation Monitoring Device (RMD) LPA-1 X-Ray Fluorescence device was used to measure the lead content of surface coatings on representative homogenous components. Multiple XRF readings were recorded.

The site sampling activities are described below.

4.1. Asbestos-Containing Building Materials

Mr. Michael Nieman and Mr. David Plante conducted a visual inspection for asbestos-containing building materials at the above referenced building. The investigators collected five (5) samples that were tested for asbestos using Polarized Light Microscopy and stereomicroscopy bulk asbestos analysis. Analysis was conducted by Crisp Analytical, LLC of Carrollton, Texas. Crisp Analytical is an accredited laboratory and recognized by the National Voluntary Laboratory Accreditation Program. Based upon the samples tested, none of the materials sampled **were** identified as asbestos-containing material.

Previous asbestos surveys were also conducted in 2005, 2011 and 2013 (See Appendix C). Asbestos sample results for the Transfer Table were **not** identified in the previous surveys.

The Environmental Protection Agency has established terminology regarding asbestos and specifically asbestos-containing building materials. Material which is friable are those materials which can be crushed, crumbled or reduced to powder by hand pressure. Non-friable materials are further characterized as Category I Non-Friable or Category II Non-Friable. Category I Non-Friable includes four specific items: Packings, Gaskets, Resilient Flooring and Asphalt Roofing. Category II Non-Friable is everything else which cannot be crumbled or pulverized by hand pressure. These items include materials of drywall systems, plasters, asbestos-containing cements (Transite[®]) and other materials declared non-friable by the asbestos inspector.

The EPA then clarifies that certain materials are Regulated Asbestos Containing Materials (RACM) and these include the following four designations:

- Friable materials;
- Category I Non-Friable Materials which have become friable;
- Category I Non-Friable Materials which have been subject to sanding, grinding, cutting and abrading; and
- Category II Non-friable materials which will be, or have been, subject to force during demolition or renovation.

Regulated Asbestos Containing Materials were not present in regards to the Transfer Table or transfer car.

4.2. Lead Based Paint Inspection

The presence of lead-based paint was assessed in substantial compliance with the Housing and Urban Development guidelines. DC Environmental conducted a lead-based surface coating screening survey of the interior and exterior of this area and equipment to generally identify building components coated with lead. The survey consisted of testing the lead concentrations of each of the accessible surfaces. Previous lead based paint surveys were also conducted in 2011 and 2013 (See Appendix C). Lead based paint survey results for the Transfer Table were not identified in the previous surveys.

To complete the survey, an X-Ray Fluorescence device was used to perform the lead based paint inspection. The Radiation Monitoring Device (RMD) LPA-1 X-Ray Fluorescence device is capable of detecting lead in lead-based paint. The determination of lead in paint is defined as a surface content of at least 1.0 milligrams per square centimeter. If the readings were between the 0.9 to 1.0 mg/cm² range, then the readings are declared as either lead-based paint or lead-containing materials and sampling is recommended.

Surfaces that were tested with the XRF device included, but were not limited to the following: control cab doors, metal components, concrete walls and painted components.

To determine the wall designations, the front entry off the street or primary doorway is the A

wall and interior in a clockwise direction are the B, C and D walls respectively. Exterior walls are similar in the designations.

The XRF device recorded readings did indicate lead-based paint in surfaces of the control cab. Black paint within the below grade pit is also lead-based paint. Please refer to the XRF readings in the appendix to this document.

5. ANALYSES AND RESULTS

The results of samples and analysis are presented in the following tables. Copies of the laboratory analytical results are included in the appendix to this document.

5.1. Table 1: Asbestos Sample Analysis

Sample #	Transfer Table Analyst physical description of subsample	Asbestos Type/calibrated/Visual estimate percent
16-176-100	Window Putty from Transfer Table Car	ND
16-176-101	Window Putty from Transfer Table Car	ND
16-176-102	Window Putty from Transfer Table Car	ND
16-176-103	Interior Transfer Table Car Coating	ND
16-176-104	Interior Transfer Table Car Coating	ND

ND – None Detected

6. FINDINGS AND CONCLUSIONS

The findings of this inspection are based on our visual observations and analysis of the measurements collected from the facility. Our findings are presented below.

6.1 Asbestos Sampling Analysis

The current visual inspection and sampling of building materials revealed no previously undocumented sources of asbestos-containing building materials. Asbestos-containing building materials were **not** identified in the Transfer Table configuration or the associated equipment.

6.2 Lead Based Paint Analysis

DC Environmental conducted a lead-based surface coating inspection of the interior and exterior of the property to generally identify building components coated with or containing lead. The survey consisted of testing the lead concentrations of over the majority of the interior and exterior surfaces.

During the survey, testing combinations in representative room equivalents were sampled by X-Ray Fluorescence (XRF) in substantial compliance with the XRF protocols established by EPA and presented as guidance in the Housing and Urban Development (HUD) publications. Performance of this survey is consistent and in substantial compliance with the documented methodologies identified by EPA and HUD.

Based on the readings from the XRF devices materials at the Transfer Table equipment and black concrete coating was considered painted with lead-based paint (LBP). Lead-based paint surfaces for the Transfer Table included: **black paint on pit pad, off-white paint on the Control Cab and cream paint on the Control Cab.**

Lead-Based Paint (LBP) is defined by HUD and the EPA as paint containing lead in amounts greater than or equal to 1.0 mg/cm² lead when analyzed by XRF or greater than 5000 parts per million or 0.5 percent by weight when analyzed by Flame Atomic Absorption.

There are materials in this structure though, that are considered “lead-containing”. Those materials are listed in Appendix B, XRF Lead Measurements. Contractors should follow the elements of the standard promulgated by the Occupational Safety and Health Administration. The Lead in Construction Standard 29 CFR 1926.62 applies to exposures to materials containing lead. Lead containing materials **were** identified in the Transfer Table (see Appendix B XRF Lead Measurements). Individuals bidding for work should be aware of the presence of lead when performing demolition and renovation activities involving these items.

7 RECOMMENDATIONS

Based on our visual observations and the laboratory results, DC Environmental recommends the following:

- The lead-based paint survey identified “lead-based paint” at the Transfer Table. Lead-containing items were identified at the Transfer Table. These materials are regulated

by OSHA in regards to those individuals which could be exposed during repair, renovation or demolition. It is recommended to have trained professionals in the OSHA Lead Construction standard handle the lead-based paint and lead-containing materials during disturbance of the material. At the conclusion of the construction activities we recommend a Lead Risk Assessment to include soil testing and settled dust be performed.

We appreciate the opportunity to provide sampling and inspection of this area. Should you have additional questions, or if conditions change substantially, please contact us at your earliest convenience.

Sincerely,

DC Environmental
David Charlesworth
Certified Industrial Hygienist

LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

The environmental interpretations and opinions contained in this report are based on the results of instrumentation, laboratory tests and/or analyses Acme Environmental Industrial Hygiene, Inc. dba DC Environmental, has no involvement in, or control over, such equipment, testing and/or analysis. Acme Environmental Industrial Hygiene, Inc., therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Acme Environmental Industrial Hygiene, Inc., has no control.

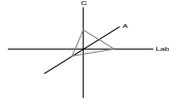
This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Acme Environmental Industrial Hygiene, Inc., should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

Appendix A
Asbestos Laboratory Results

CA Labs
Dedicated to
Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
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Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

DC Environmental

PO Box 9315
Albuquerque, NM 87119

Attn: David Charlesworth

Customer Project: DCE 16-176, Rail Yard Parcel 6 Transfer Table
Reference #: CAL16117607JE **Date:** 11/16/2016

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Quality**Crisp Analytical, L.L.C.**1929 Old Denton Road
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Phone 225-751-5632
Fax 225-751-5634Overview of Project Sample Material Containing Asbestos

Customer Project:	DCE 16-176, Rail Yard Parcel 6 Transfer Table		CA Labs Project #:	CAL16117607JE
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

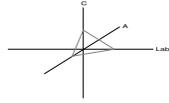
AIHA LAP, LLC Laboratory #102929**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: David Charlesworth
DC Environmental
PO Box 9315
Albuquerque, NM 87119

Customer Project:
DCE 16-176, Rail Yard Parcel
6 Transfer Table
Turnaround Time:
5 Days

CA Labs Project #:
CAL16117607JE
Date: 11/16/2016
Samples Received: 11/10/16 10:30am
Date Of Sampling: 10/28/2016
Purchase Order #:

Phone # 505-869-8000
Fax # 505-869-9453

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
16-176-100		100-1		Window Putty/ gray caulking	y	None Detected		100% qu,bi,ca
				Window Putty/ green surfaced				
16-176-101		101-1		gray caulking	n	None Detected		100% qu,bi,ca
				Window Putty/ green surfaced				
16-176-102		102-1		gray caulking	n	None Detected		100% qu,bi,ca
16-176-103		103-1		Car Coating/ black sealant	y	None Detected		100% qu,gy,bi
16-176-104		104-1		Car Coating/ black sealant	y	None Detected		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Julio Robles
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CASE 16117607



DC Environmental Consulting and Training Services
"Promoting Safety in the Workplace"

PO / Job#: DCE 16-176 Date: 10/28/2016

Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / **5Day**

PCM: NIOSH 7400A / NIOSH 7400B Rotometer

PLM: Standard / Point Count 400 - 1000 / CARB 435

TEM Air: AHERA / Yamate2 / NIOSH 7402
 TEM Bulk: Quantitative / Qualitative / Chatfield
 TEM Water: Potable / Non-Potable / Weight %
 TEM Microvac: Qual(+/-) / D5755(str/area) / D5756(str/mass)

IAQ Particle Identification (PLM LAB) PLM Opaques/Soot
 Particle Identification (TEM LAB) Special Project

Metals Analysis: Method: _____

Matrix: _____

Analytes: _____

DC Environmental
PO Box 9315
Albuquerque, NM 87119

Contact:
J. David Charlesworth

Phone: 505.869.8000 Fax: 505.869.9453

E-mail: JDCharlesworthcih@gmail.com

Site: City Of Albuquerque (Intera)

Site Location: Rail Yard Parcel 6 Transfer Table

Comments:

Sample ID	Date	Sample Location / Description / Task	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
16-176-100	10/28	Window Putty from Transfer Table Car	A P C				
16-176-101	10/28	Window Putty from Transfer Table Car	A P C				
16-176-102	10/28	Window Putty from Transfer Table Car	A P C				
16-176-103	10/28	Interior Transfer Table Car Coating	A P C				
16-176-104	10/28	Interior Transfer Table Car Coating	A P C				
			A				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled By: Steven Gutierrez

Shipped Via: Fed Ex DHL UPS US Mail Courier Drop Off Other:

Relinquished By: Steven Gutierrez Date / Time: 11/09/2016 5:00PM	Relinquished By: Date / Time:	Relinquished By: Date / Time:
Received By: <i>[Signature]</i> Date / Time: 11-10-16 10:30am	Received By: Date / Time:	Received By: Date / Time:
Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No

Appendix B
XRF Lead Measurements

Project #: 16-176 Project Name: Transfer Table Date: 10-27-2016
 Address: City of Albuquerque Railyard
 Technician: M. Nieman

		Time : <u>13:30</u>			Results	Average
1	Film	Cal.			1.0	
2	Film	Cal.			1.0	
3	Film	Cal.			1.0	1.0
4		Cal.			-0.1	
5		Cal			-0.1	
6		Cal.			0.2	0.0
XRF Test Number	Location / Room	Component - Designation	Component Number	Color	Substrate	Result / Reading
7	S. Pit Wall	Wall		White	Concrete	0.1
8	E. Runway Bridge	Beam		Silver	Metal	-0.2
9	E. Runway Bridge	Plate		White	Metal	0.4
10	Center	Rail		Off White	Metal	-0.1
11						
12	Pit Pad			Black	Concrete	1.0
13	Transfer Table	I Beam		Silver	Metal	0.3
14	Control Cab	A Wall		Off White	Metal	2.2
15	Control Cab	B Wall		Cream	Metal	1.5
16	Control Cab	C Wall		Cream	Metal	2.1
17	Control Cab	D Wall		Cream	Metal	1.8
18	Control Cab	Ceiling		Cream	Metal	1.5
19	Control Cab	Door	A-1	Cream	Metal	1.0
20	Control Cab	Window	B-1	Cream	Wood	-0.1
21	Transfer Table	E. Wall		Beige	Metal	-0.1
22	Transfer Table	S. Wall		Beige	Metal	-0.1
23	Transfer Table	Electrical Cabinet		Beige	Metal	-0.1
24	Transfer Table	E. Window		Beige	Metal	-0.1
		Time : <u>13:57</u>			Results	Average
25	Film	Cal.			1.0	
26	Film	Cal.			1.0	
27	Film	Cal.			1.0	1.0
28		Cal.			-0.1	
29		Cal			-0.0	

30		Cal.			0.1	0.0
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Appendix C
Asbestos and LBP Data

ID	Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
1	7	0.1	mg/cm2		1	Railyards Amtrack Office	Office	A	Window	Rgt	Sill	QM	Wood	Brown	Interior	Innovar, 2011
2	8	0.1	mg/cm2		1	Railyards Amtrack Office	Office	A	Window	Rgt	Sash	QM	Wood	Brown	Interior	Innovar, 2011
3	9	0.2	mg/cm2		1	Railyards Amtrack Office	Office	A	Window	Rgt	Lft casing	QM	Wood	Brown	Interior	Innovar, 2011
4	10	0.2	mg/cm2		1	Railyards Amtrack Office	Office	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
5	11	-0.2	mg/cm2		1	Railyards Amtrack Office	Office	B	Wall	U Ctr		QM	Plaster	White	Interior	Innovar, 2011
6	12	0	mg/cm2		1	Railyards Amtrack Office	Office	C	Door	Ctr	U Ctr	QM	Steel	Brown	Interior	Innovar, 2011
7	13	0	mg/cm2		1	Railyards Amtrack Office	Office	C	Door	Ctr	Lft casing	QM	Steel	Brown	Interior	Innovar, 2011
8	14	0.2	mg/cm2		1	Railyards Amtrack Office	Office	B	Window	Ctr	Sill	QM	Wood	Brown	Interior	Innovar, 2011
9	15	0.2	mg/cm2		3	Railyards Amtrack Office	Office	B	Window	Ctr	Lft casing	QM	Wood	Brown	Interior	Innovar, 2011
10	16	0.2	mg/cm2		3	Railyards Amtrack Office	Office	B	Window	Clr	Sash	QM	Wood	Brown	Interior	Innovar, 2011
11	17	0	mg/cm2		3	Railyards Amtrack Office	Office	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
12	18	-0.2	mg/cm2		3	Railyards Amtrack Office	Office	A	Wall	L Rgi		QM	Plaster	White	Interior	Innovar, 2011
13	19	-0.2	mg/cm2		3	Railyards Amtrack Office	Office	D	Door	Rgi	U Rgt	QM	Steel	Brown	Interior	Innovar, 2011
14	20	0.1	mg/cm2		3	Railyards Amtrack Office	Office	D	Door	Rgt	Lft casing	QM	Steel	Brown	Interior	Innovar, 2011
15	21	0.7	mg/cm2		4	Railyards Amtrack Office	Break Rm	B	Chair rail	Clr		QM	Wood	Brown	Interior	Innovar, 2011
16	22	0.2	mg/cm2		4	Railyards Amtrack Office	Break Rm	B	Window	Ctr	Lft casing	QM	Wood	Brown	Interior	Innovar, 2011
17	23	>9.9	mg/cm2	Yes	4	Railyards Amtrack Office	Break Rm	B	Wall	L Ctr		QM	Plaster	Whiie	Interior	Innovar, 2011
18	24	0.2	mg/cm2		4	Railyards Amtrack Office	Break Rm	C	Baseboard	Clr		QM	Plaster	White	Interior	Innovar, 2011
19	25	>9.9	mg/cm2	Yes	4	Railyards Amtrack Office	Break Rm	B	Wall	U Lft		QM	Plaster	White	Interior	Innovar, 2011
20	26	>9.9	mg/cm2	Yes	4	Railyards Amtrack Office	Break Rm	B	Wall	L Rgt		QM	Plaster	White	Interior	Innovar, 2011
21	27	0.3	mg/cm2		4	Railyards Amtrack Office	Break Rm	C	Wall	L Clr		QM	Drywall	White	Interior	Innovar, 2011
22	28	0.2	mg/cm2		3	Railyards Amtrack Office	Office	B	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
23	29	>9.9	mg/cm2	Yes	10	Railyards Amtrack Office	Lobby	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
24	30	0.3	mg/cm2		10	Railyards Amtrack Office	Lobby	D	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
25	31	0.3	mg/cm2		10	Railyards Amtrack Office	Lobby	A	Window	Ctr	Sash	QM	Wood	Brown	Interior	Innovar, 2011
26	32	>9.9	mg/cm2	Yes	10	Railyards Amtrack Office	Lobby	A	Column	Ctr		QM	Plaster	White	Interior	Innovar, 2011
27	33	>9.9	mg/cm2	Yes	10	Railyards Amtrack Office	Lobby	A	Column	Clr		QM	Plaster	White	Interior	Innovar, 2011
28	34	1.1	mg/cm2	Yes	12	Railyards Amtrack Office	Hallway	B	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
29	35	>9.9	mg/cm2	Yes	12	Railyards Amtrack Office	Hallway	D	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
30	36	0.1	mg/cm2		9	Railyards Amtrack Office	Wmns Rm	D	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
31	37	0.1	mg/cm2		9	Railyards Amtrack Office	WmnsRm	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
32	38	0.3	mg/cm2		9	Railyards Amtrack Office	WmnsRm	B	Door	Ctr	Lft casing	QM	Wood	Brown	Interior	Innovar, 2011
33	39	0.2	mg/cm2		9	Railyards Amtrack Office	Wmns Rm	B	Floor			QM	Cement	Brown	Interior	Innovar, 2011
34	40	-0.1	mg/cm2		11	Railyards Amtrack Office	Number Only	C	Stairs	Ctr	Treads	QM	Steel	Black	Interior	Innovar, 2011
35	41	0.1	mg/cm2		11	Railyards Amtrack Office	Number Only	C	Stairs	Ctr	Railing cap	QM	Steel	Black	Interior	Innovar, 2011
36	42	-0.1	mg/cm2		15	Railyards Amtrack Office	Upstairs	C	Wall	L Clr		QM	Plaster	White	Interior	Innovar, 2011
37	43	0.2	mg/cm2		15	Railyards Amtrack Office	Upstairs	B	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
38	44	>9.9	mg/cm2	Yes	15	Railyards Amtrack Office	Upstairs	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
39	45	6.6	mg/cm2	Yes	15	Railyards Amtrack Office	Upstairs	A	Door	Ctr	U Ctr	QM	Wood	White	Interior	Innovar, 2011
40	46	0.3	mg/cm2		15	Railyards Amtrack Office	Upstairs	B	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
41	47	0.3	mg/cm2		15	Railyards Amtrack Office	Upstairs	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
42	54	0.2	mg/cm2		16	Railyards Amtrack Office	Museum	A	Floor			QM	Cement	Gray	Interior	Innovar, 2011
43	55	2.3	mg/cm2	Yes	16	Railyards Amtrack Office	Museum	A	Floor			QM	Cement	White	Interior	Innovar, 2011
44	56	0.3	mg/cm2		16	Railyards Amtrack Office	Museum	A	Floor			QM	Cement	White	Interior	Innovar, 2011
45	57	0.1	mg/cm2		16	Railyards Amtrack Office	Museum	D	Wall	L Ctr		QM	Cement	Gray	Interior	Innovar, 2011
46	58	0.2	mg/cm2		16	Railyards Amtrack Office	Museum	B	Wall	L Ctr		QM	Cement	Gray	Interior	Innovar, 2011

ID	Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
47	59	0.1	mg/cm2		16	Railyards Amtrack Office	Museum	A	Wall	L Ctr		QM	Cement	Gray	Interior	Innovar, 2011
48	60	6.3	mg/cm2	Yes	16	Railyards Amtrack Office	Museum	A	Floor			QM	Cement	Yellow	Interior	Innovar, 2011
49	61	0.1	mg/cm2		16	Railyards Amtrack Office	Museum	A	Door	Ctr	U Ctr	QM	Steel	Green	Interior	Innovar, 2011
50	62	0.1	mg/cm2		16	Railyards Amtrack Office	Museum	A	Door	Ctr	U Ctr	QM	Steel	Black	Interior	Innovar, 2011
51	63	0.5	mg/cm2		16	Railyards Amtrack Office	Museum	A	Door	Ctr	Lft casing	QM	Steel	Black	Interior	Innovar, 2011
52	64	0.7	mg/cm2		16	Railyards Amtrack Office	Museum	A	Floor			QM	Cement	Red	Interior	Innovar, 2011
53	65	1.8	mg/cm2	Yes	1	Railyards Amtrack Office	Facility	B	Railing	Ctr	Railing	QM	Steel	Yellow	Exterior	Innovar, 2011
54	66	0.2	mg/cm2		1	Railyards Amtrack Office	Facility	B	Door	Ctr	U Ctr	QM	Steel	Red	Exterior	Innovar, 2011
55	67	-0.1	mg/cm2		1	Railyards Amtrack Office	Facility	D	Window	Ctr	Sill	QM	Wood	Black	Exterior	Innovar, 2011
56	68	0.2	mg/cm2		1	Railyards Amtrack Office	Facility	D	Window	Ctr	Sash	QM	Wood	Black	Exterior	Innovar, 2011
57	69	0	mg/cm2		1	Railyards Amtrack Office	Facility	C	Window	Rgt	Sill	QM	Wood	Black	Exterior	Innovar, 2011
58	7	5	mg/cm2	Yes	1	Main Machine Shop	Number Only	B	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
59	8	1.1	mg/cm2	Yes	1	Main Machine Shop	Number Only	C	Door	Ctr	U Ctr	QM	Steel	Silver	Interior	Innovar, 2011
60	9	2.2	mg/cm2	Yes	1	Main Machine Shop	Number Only	C	Column	Clr		QM	Steel	Silver	Interior	Innovar, 2011
61	10	0.1	mg/cm2		1	Main Machine Shop	Number Only	A	Floor			QM	Ceramic	Red	Interior	Innovar, 2011
62	11	1.8	mg/cm2	Yes	1	Main Machine Shop	Number Only	B	Cnt Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
63	12	0.7	mg/cm2		1	Main Machine Shop	Number Only	B	Stairs	Ctr	Treads	QM	Steel	Green	Interior	Innovar, 2011
64	13	1.9	mg/cm2	Yes	1	Main Machine Shop	Number Only	D	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
65	14	5.4	mg/cm2	Yes	1	Main Machine Shop	Number Only	D	Ceiling Beam	Beam	Ctr	QM	Steel	Silver	Interior	Innovar, 2011
66	15	4.2	mg/cm2	Yes	1	Main Machine Shop	Number Only	B	Column	Ctr		QM	Steel	Black	Exterior	Innovar, 2011
67	16	2.7	mg/cm2	Yes	1	Main Machine Shop	Number Only	B	Stairs	Ctr	Treads	QM	Wood	White	Interior	Innovar, 2011
68	1	3.4	mg/cm2	Yes		Boiler Shop	Number Only	B	Cnt Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
69	2	0.1	mg/cm2			Boiler Shop	Number Only	A	Floor			QM	Cement	Red	Interior	Innovar, 2011
70	3	3.2	mg/cm2	Yes		Boiler Shop	Number Only	C	Cnt Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
71	4	2.5	mg/cm2	Yes		Boiler Shop	Number Only	A	Column	Lft		QM	Steel	Silver	Interior	Innovar, 2011
72	5	-0.3	mg/cm2			Boiler Shop	Number Only	C	Door	Lft	U Ctr	QM	Steel	Silver	Interior	Innovar, 2011
73	1	1.1	mg/cm2	Yes		Blacksmith Shop	Number Only	B	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
74	2	3.1	mg/cm2	Yes		Blacksmith Shop	Number Only	C	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
75	3	2.1	mg/cm2	Yes		Blacksmith Shop	Number Only	D	Wall	L Ctr		QM	Brick	Silver	Interior	Innovar, 2011
76	4	0.2	mg/cm2			Blacksmith Shop	Number Only	D	Door	Ctr	U Ctr	QM	Steel	Silver	Interior	Innovar, 2011
77	5	0.1	mg/cm2			Blacksmith Shop	Number Only	D	Window	Ctr	Part. Bead	QM	Steel	Silver	Interior	Innovar, 2011
78	7	2.7	mg/cm2	Yes		Bldg North of Firehouse	Number Only	A	Bldg North of Firehouse	L Ctr		QM	Cement	Silver	Interior	Innovar, 2011
79	8	2.3	mg/cm2	Yes		Bldg North of Firehouse	Number Only	A	Window	Ctr	Lft casing	QM	Steel	Silver	Interior	Innovar, 2011
80	9	5.6	mg/cm2	Yes		Bldg North of Firehouse	Number Only	A	Door	Ctr	U Ctr	QM	Steel	Silver	Interior	Innovar, 2011
81	10	1.1	mg/cm2	Yes		Bldg North of Firehouse	Number Only	A	Window	Ctr	Rgt casin	QM	Steel	Silver	Interior	Innovar, 2011
82	11	2.4	mg/cm2	Yes		Bldg North of Firehouse	Number Only	C	Frame	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
83	12	1.1	mg/cm2	Yes		Bldg North of Firehouse	Number Only	C	Wall	L Ctr		QM	Cement	Silver	Interior	Innovar, 2011
84	13	0.2	mg/cm2			Bldg North of Firehouse	Number Only	D	Wall	L Ctr		QM	Cement	Silver	Interior	Innovar, 2011
85	1	1.1	mg/cm2	Yes		Bldg South of Firehouse	Number Only	A	Wall	L Ctr		QM	Cement	White	Interior	Innovar, 2011
86	2	0.1	mg/cm2			Bldg South of Firehouse	Number Only	B	Wall	L Ctr		QM	Cement	White	Interior	Innovar, 2011
87	3	0	mg/cm2			Bldg South of Firehouse	Number Only	A	Door Cnt	Ctr	Lft casing	QM	Cement	White	Interior	Innovar, 2011
88	4	1.1	mg/cm2	Yes		Bldg South of Firehouse	Number Only	A	Column	Ctr		QM	Cement	Green	Interior	Innovar, 2011
89	5	1.2	mg/cm2	Yes		Bldg South of Firehouse	Number Only	B	Wall	L Ctr		QM	Cement	Green	Interior	Innovar, 2011
90	6	0.5	mg/cm2			Bldg South of Firehouse	Number Only	C	Door	Ctr	U Ctr	QM	Cement	Green	Interior	Innovar, 2011
91	13029.029-020513-01L	150	ppm			Blacksmith Shop			Interior Walls	NW Corner			Paint	Silver		Rhoades, 2013
92	13029.029-020513-02L	410	ppm			Blacksmith Shop			Interior Walls	NE Corner			Paint	Silver		Rhoades, 2013

ID	Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
93	13029.029-020513-03L	100	ppm			Blacksmith Shop			Interior Walls	SW Corner			Paint	Silver		Rhoades, 2013
94	13029.029-020513-04L	150	ppm			Blacksmith Shop			Interior Walls	SE Corner			Paint	Silver		Rhoades, 2013
95	13029.029-020513-05L	2570	ppm			Blacksmith Shop			Overhead Piping				Paint	Red		Rhoades, 2013
96	13029.029-020513-06L	2640	ppm			Blacksmith Shop			Exterior Brick Walls		Trim		Paint	Rust		Rhoades, 2013
97	13029.029-020513-07L	4040	ppm			Blacksmith Shop			Interior Walls Office Shack				Paint	Cream		Rhoades, 2013
98	13029.029-020513-08L	250	ppm			Blacksmith Shop			Building	NW Corner			Surface Dust			Rhoades, 2013
99	13029.029-020513-09L	400	ppm			Blacksmith Shop			Building	NE Corner			Surface Dust			Rhoades, 2013
100	13029.029-020513-10L	100	ppm			Blacksmith Shop			Building	Center			Surface Dust			Rhoades, 2013
101	13029.029-020513-11L	710	ppm			Blacksmith Shop			Building	SW Corner			Surface Dust			Rhoades, 2013
102	13029.029-020513-12L	970	ppm			Blacksmith Shop			Building	SE Corner			Surface Dust			Rhoades, 2013

ID	Sample Number	Date	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
1	577007-NB.NS.1	Sep-05	Silver glaze coating window pane	Boiler Shop, South Side	0%			Terracon, 2005
2	577007-NB.NS.2	Sep-05	Silver glaze coating window pane	Boiler Shop, South Side	0%			Terracon, 2005
3	577007-NB.NS.3	Sep-05	Silver glaze coating window pane	Boiler Shop, South Side	0%			Terracon, 2005
4	577007-NB.SS.4	Sep-05	Green painted window pane	Boiler Shop, South Side	0%			Terracon, 2005
5	577007-NB.SS.5	Sep-05	Green painted window pane	Boiler Shop, South Side	0%			Terracon, 2005
6	577007-NB.SS.6	Sep-05	Green painted window pane	Boiler Shop, North Side	0%			Terracon, 2005
7	577007-NB.NS.7	Sep-05	Silver glaze coating window pane	Boiler Shop, North Side	0%			Terracon, 2005
8	577007-NB.NS.8	Sep-05	Silver glaze coating window pane	Boiler Shop, North Side	0%			Terracon, 2005
9	577007-NB.NS.9	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
10	577007-NB.NS.10	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
11	577007-NB.NS.11	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
12	577007-SB.SS.F1.1	Sep-05	Silver glaze coating window pane	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
13	577007-SB.SS.F1.2	Sep-05	Glaze coating on window pane (silver/black)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
14	577007-SB.SS.F1.3	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
15	577007-SB.SS.F1.4	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
16	577007-SB.SS.F1.5	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
17	577007-SB.SS.F1.6	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
18	577007-SB.SS.F1.7	Sep-05	Glaze coating on window pane (silver/green)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
19	577007-SB.SS.F2.1	Sep-05	Glaze coating on window pane (beige/green)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
20	577007-SB.SS.F2.2	Sep-05	Glaze coating on window pane (tan/brown)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
21	577007-SB.SS.F2.3	Sep-05	Glaze coating on window pane (off-white)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
22	577007-SB.SS.F2.4	Sep-05	Glaze coating on window pane (grey/green)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
23	577007-SB.SS.F2.5	Sep-05	Glaze coating on window pane (off-white)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
24	577007-SB.SS.F2.6	Sep-05	Plaster over cc wall (grey with paint)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
25	577007-SB.SS.F2.7	Sep-05	Plaster over cc wall (grey with paint)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
26	577007-NB.SS.1	Sep-05	Window glazing (tan)	Boiler Shops, South Side	Trace <1%			Terracon, 2005
27	577007-NB.SS.2	Sep-05	Window glazing (tan)	Boiler Shops, South Side	2%	Chrysotile	Non-Friable	Terracon, 2005
28	577007-NB.SS.3	Sep-05	Window glazing (tan)	Boiler Shops, South Side	2%	Chrysotile	Non-Friable	Terracon, 2005
29	577007-NB.SS.01	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
30	577007-NB.SS.02	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
31	577007-NB.SS.03	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
32	577007-NB.ES.01	Sep-05	Window glazing (beige)	Boiler Shops, East Side	Trace <1%	Chrysotile		Terracon, 2005
33	577007-NB.ES.02	Sep-05	Window glazing (beige)	Boiler Shops, East Side	Trace <1%	Chrysotile		Terracon, 2005
34	577007-N.O.01	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
35	577007-N.O.02	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
36	577007-N.O.03	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
37	577007-N.O.G.01	Sep-05	White insulation	100 ft North of CWE Storage Shed	NA			Terracon, 2005
38	577007-N.O.G.02	Sep-05	White insulation	100 ft North of CWE Storage Shed	NA			Terracon, 2005
39	577007-N.O.G.03	Sep-05	White insulation	100 ft North of CWE Storage Shed	NA			Terracon, 2005
40	577007-NTE. WS-1	Sep-05	Transite pipe (grey)	Former Transformer Area, West Side	25%	Chrysotile	Friable	Terracon, 2005
41	577007-NTE. WS-1	Sep-05	Transite pipe (grey)	Former Transformer Area, West Side	5%	Crocidolite		Terracon, 2005
42	577007-NTE.ES-3	Sep-05	Transite pipe (grey)	Former Transformer Area	25%	Chrysotile	Friable	Terracon, 2005
43	577007-NTE.ES-3	Sep-05	Transite pipe (grey)	Former Transformer Area	5%	Crocidolite		Terracon, 2005
44	577007-NTE.ES-1 (577007-NTE.NS-1??)	Sep-05	Transite pipe (grey)	Former Transformer Area	25%	Chrysotile	Friable	Terracon, 2005
45	577007-NTE.ES-1 (577007-NTE.NS-1??)	Sep-05	Transite pipe (grey)	Former Transformer Area	3%	Crocidolite		Terracon, 2005
46	577007-SWB.WW.01	Sep-05	Window putty/glazing (beige)	Babbit Shop, West Wall	Trace <1%	Chrysotile		Terracon, 2005
47	577007-SWB.WW.02	Sep-05	Window putty/glazing (beige)	Babbit Shop, West Wall	Trace <1%	Chrysotile		Terracon, 2005
48	577007-FH.01	Sep-05	Insulation/plaster over brick	Fire House	0%			Terracon, 2005
49	577007-FH.02	Sep-05	Insulation/plaster over brick	Fire House	0%			Terracon, 2005
50	577007-FH.03	Sep-05	Insulation/plaster over brick	Fire House	4%	Chrysotile	Friable	Terracon, 2005
51	577007-FH.04	Sep-05	Insulation/plaster over brick	Fire House	5%	Chrysotile	Friable	Terracon, 2005
52	01-DW1-1	Aug-10	off-white surfaced white compound (drywall)	Amtrack Office	none detected			Innovar, 2011
53	01-DW1-2	Aug-10	white drywall with brown paper (drywall)	Amtrack Office	none detected			Innovar, 2011
54	02-DW1-1	Aug-10	white surfaced white compound (drywall)	Amtrack Office	none detected			Innovar, 2011

ID	Sample Number	Date	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
55	03-DW1-1	Aug-10	white surfaced white compound (drywall)	Amtrack Office	none detected			Innovar, 2011
56	04-P1-1	Aug-10	white surfaced tan plaster (plaster)	Amtrack Office	none detected			Innovar, 2011
57	05-P1-1	Aug-10	white surfaced tan plaster (plaster)	Amtrack Office	none detected			Innovar, 2011
58	06-P1-1	Aug-10	white surfaced white compound (plaster)	Amtrack Office	none detected			Innovar, 2011
59	06-P1-2	Aug-10	tan plaster (plaster)	Amtrack Office	none detected			Innovar, 2011
60	07-CB1-1	Aug-10	pink cover base (cover base)	Amtrack Office	none detected			Innovar, 2011
61	07-CB1-2	Aug-10	tan mastic (cover base)	Amtrack Office	none detected			Innovar, 2011
62	07-CB1-3	Aug-10	white surfaced white compound (cover base)	Amtrack Office	none detected			Innovar, 2011
63	07-CB1-4	Aug-10	brown mastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
64	07-CB1-5	Aug-10	tan plaster (cover base)	Amtrack Office	none detected			Innovar, 2011
65	08-CB1-1	Aug-10	pink cover base (cover base)	Amtrack Office	none detected			Innovar, 2011
66	08-CB1-2	Aug-10	tan mastic (cover base)	Amtrack Office	none detected			Innovar, 2011
67	08-CB1-3	Aug-10	brown mastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
68	08-CB1-4	Aug-10	tan plaster (cover base)	Amtrack Office	none detected			Innovar, 2011
69	09-CB1-1	Aug-10	pink cover base (cover base)	Amtrack Office	none detected			Innovar, 2011
70	09-CB1-2	Aug-10	tan mastic (cover base)	Amtrack Office	none detected			Innovar, 2011
71	09-CB1-3	Aug-10	brown mastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
72	09-CB1-4	Aug-10	tan plaster (cover base)	Amtrack Office	none detected			Innovar, 2011
73	10-CT1-1	Aug-10	white surfacing (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
74	10-CT1-2	Aug-10	tan ceiling (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
75	10-CT1-3	Aug-10	brown mastic (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
76	11-CT1-1	Aug-10	white surfacing (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
77	11-CT1-2	Aug-10	tan ceiling tile (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
78	11-CT1-3	Aug-10	brown mastic (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
79	12-CT1-1	Aug-10	tan ceaign tile (no surfacing) (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
80	12-CT1-2	Aug-10	brown mastic (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
81	13-WC1-1	Aug-10	black surfacing white caulking (Window Caulk)	Amtrack Office	none detected			Innovar, 2011
82	14-WC1-1	Aug-10	black surfacing white caulking (Window Caulk)	Amtrack Office	none detected			Innovar, 2011
83	15-WC1-1	Aug-10	black surfacing white caulking (Window Caulk)	Museum	none detected			Innovar, 2011
84	16-CT2-1	Aug-10	white surfacing (ceiling tile)	Museum	none detected			Innovar, 2011
85	16-CT2-2	Aug-10	Gray ceiling tile (ceiling tile)	Museum	none detected			Innovar, 2011
86	17-CT2-1	Aug-10	White Surfacing (ceiling tile)	Museum	none detected			Innovar, 2011
87	17-CT2-2	Aug-10	Gray ceiling tile (ceiling tile)	Museum	none detected			Innovar, 2011
88	18-CT2-1	Aug-10	white surfacing (ceiling tile)	Museum	none detected			Innovar, 2011
89	18-CT2-2	Aug-10	Gray ceiling tile (ceiling tile)	Museum	none detected			Innovar, 2011
90	19-W1-1	Aug-10	black woven covering (Wiring)	Museum	none detected			Innovar, 2011
91	20-W1-1	Aug-10	black woven covering (Wiring)	Museum	none detected			Innovar, 2011
92	13029.029-020513-01	Feb-13	12" Spline Ceiling Tile	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
93	13029.029-020513-02	Feb-13	12" Spline Ceiling Tile	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
94	13029.029-020513-03	Feb-13	12" Spline Ceiling Tile	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
95	13029.029-020513-04	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
96	13029.029-020513-05	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
97	13029.029-020513-06	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
98	13029.029-020513-07	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
99	13029.029-020513-08	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
100	13029.029-020513-09	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
101	13029.029-020513-10	Feb-13	Window Glazing	Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
102	13029.029-020513-11	Feb-13	Window Glazing	Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
103	13029.029-020513-12	Feb-13	Window Glazing	Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
104	13029.029-020513-13	Feb-13	Window Glazing	Clear Glass, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
105	13029.029-020513-14	Feb-13	Window Glazing	Clear Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
106	13029.029-020513-15	Feb-13	Window Glazing	Clear Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
107	13029.029-020513-16	Feb-13	Window Glazing	Wood Panes, Blacksmith Shop	<1%	Chrysotile	Poor/Friable	Roades, 2013
108	13029.029-020513-17	Feb-13	Window Glazing	Wood Panes, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013

ID	Sample Number	Date	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
109	13029.029-020513-18	Feb-13	Window Glazing	Wood Panes, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
110	13029.029-020513-19	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
111	13029.029-020513-20	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
112	13029.029-020513-21	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
113	13029.029-020513-22	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
114	13029.029-020513-23	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
115	13029.029-020513-24	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
116	13029.029-020513-25	Feb-13	Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
117	13029.029-020513-26	Feb-13	Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
118	13029.029-020513-27	Feb-13	Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
119	13029.029-020513-28	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
120	13029.029-020513-29	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
121	13029.029-020513-30	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
122	13029.029-020513-31	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	8%	Chrysotile	Poor/Non-Friable	Roades, 2013
123	13029.029-020513-32	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
124	13029.029-020513-33	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
125	13029.029-020513-34	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
126	13029.029-020513-35	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
127	13029.029-020513-36	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
128	13029.029-020513-34a	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
129	13029.029-020513-35a	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
130	13029.029-020513-36a	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
131	13029.029-020513-37	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
132	13029.029-020513-38	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	3%	Chrysotile	Poor/Friable	Roades, 2013
133	13029.029-020513-39	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	3%	Chrysotile	Poor/Friable	Roades, 2013

Appendix D
Photograph Log

Photographic Log



Figure 1 Transfer Table



Figure 2 Transfer Table Car



Figure 3 Transfer Table

Appendix E
Certificates

CERTIFICATE OF TRAINING

EPA/AHERA Training Program



This is to certify that

MICHAEL NIEMAN

NM. DL. 006 087 493

Has completed 4 hours of training and **PASSED** the test required by Section 206 of TSCA Title II and in accordance with **LOUISIANA STATE ASBESTOS REGULATIONS** entitled,

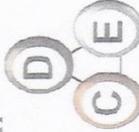
ASBESTOS BUILDING INSPECTOR REFRESHER

PRESENTED BY
Mendez Environmental™
1005 Veterans Mem Blvd
Suite, 101
Kenner, LA 70062
Tel: (504) 468-8858



IN COLLABORATION WITH

DC Environmental
P.O. Box 9315
Albuquerque, NM 87119
Tel: (505) 869-8000
www.dcenvironmental.net



Director: 
Rodolfo G. Mendez

NM Program Manager: 
David Charlesworth

Course Date: 04-12-2016
Certificate Number: AS0416KNMPPMN17906

Test Date: 04-12-2016 Grade: PASS
Expiration Date: 04-12-2017

United States Environmental Protection Agency

This is to certify that



Michael Neiman

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Inspector

In the Jurisdiction of:

New Mexico

This certification is valid from the date of issuance and expires September 25, 2017

NM-I-129246-1

Certification #

September 11, 2014

issued On

Adrienne Priselac, Manager, Toxics Office

Land Division



316 Carlisle NE, Albuquerque, NM 87107
(505) 433-4461

David Plante

is successfully completed the course titled
Asbestos Inspector Refresher
as required by 40 CFR 763



Certificate number 012116-01 Expiration date 1/21/2017

This certifies successful
completion of the approved 4 hour training course.

David Plante
029721599

Asbestos Inspector Refresher

For the purposes of accreditation required under
TSCA Title II and AHERA
In compliance with the State of Louisiana regulation.
Conducted by

Adme Environmental, Inc.

**3816 Carlisle NE
Albuquerque, NM 87107
(505) 433-4461**

Course Date: 01/21/2016

Expires On: 012116-01

Course Director:

Certificate Number: 012116-01