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PHASE I ENVIRONMENTAL SITE ASSESSMENT AND LIMITED ASBESTOS AND LEAD-BASED PAINT SURVEYS
BOB RUUD COMMUNITY CENTER
150 NORTH HIGHWAY 160
PAHRUMP, NEVADA

PROJECT NO. 117801.01

June 29, 2011

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June 29, 2011
File: 117801.01

Mr. David P. Friedman, CEM
Nevada Division of Environmental Protection
Bureau of Corrective Actions
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

Subject: **Phase I Environmental Site Assessment and Limited Asbestos and Lead-Based Paint Surveys**
Bob Ruud Community Center
150 North Highway 160
Pahrump, Nye County, Nevada

Dear Mr. Friedman:

Enclosed are two hard copies and one electronic copy on compact disc (CD) of the Phase I Environmental Site Assessment (ESA) for the above-referenced property. The ESA was conducted under an approved Brownfields Grant. In addition to the submittals provided to NDEP, we are providing two copies to the Town of Pahrump, the applicant of this funded grant.

An executive summary is provided; however, we recommend that the report be read in its entirety for a comprehensive understanding of the items contained therein.

We appreciate the opportunity to provide these services for you. Should you require additional information, have any questions regarding this report, or wish to discuss the recommendations provided, please contact us at 775-689-7800.

Respectfully submitted,

KLEINFELDER

Joshua P. Fortmann, CEM
Project Manager

JPF/PJT/js
Enclosures

Copies with attachments to:

Town of Pahrump, Attention Bill Kohbarger

A report prepared for:

Nevada Division of Environmental Protection
Bureau of Corrective Actions
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

Subject: **Phase I Environmental Site Assessment and Limited Asbestos and Lead-Based Paint Surveys**
Bob Ruud Community Center
150 North Highway 160
Pahrump, Nevada

Kleinfelder Project No.: 117801.01

Prepared by:

*I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances.**

FOR Phil J. Tousignant, C.E.M.
*Nevada Certified Environmental Manager No. 2001(Expires 03/01/2013)

Daniel C. Burns, C.E.M.
USEPA Certified Lead-Based Paint Risk Assessor, Nevada,
No. NV-R-11723-3 (Expires 4/28/2014)

Reviewed by:

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The Limited Asbestos Survey was performed by:

Brian Loffman, C.E.M.
Project Manager- BEC Environmental, Inc.
Nevada Asbestos Inspector I-1561, Expires 2/9/2012

June 29, 2011

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1 EXECUTIVE SUMMARY

An application was submitted by the Town of Pahrump, to the Nevada Division of Environmental Protection's (NDEP) Brownfields Program for Brownfields assessment funding. The grant application was submitted for conducting an assessment of the Bob Ruud Community Center. NDEP approved the application, and requested that a scope of services for conducting a Phase I Environmental Site Assessment (Phase I ESA) and limited asbestos and lead-based paint surveys be submitted by Kleinfelder. The scope was submitted on March 14, 2011 and approved by the NDEP on April 22, 2011, under NDEP Contract 10-008.

A Phase I Environmental Site Assessment (Phase I ESA) was performed for NDEP (Client) for property located at 150 North Highway 160, in the Town of Pahrump, located in Nye County, Nevada (subject property, Plate 1). This report was prepared using the American Society for Testing and Materials (ASTM), Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E1527-05.

The subject property consists of a concrete masonry block and wooden framed single story building, addressed as 150 North Highway 160, Pahrump, Nevada, in Nye County Nevada. The subject property is referred to as the Bob Ruud Community Center.

An historical profile of the subject property was developed using information obtained during our review of regulatory databases and one or more of the following historical sources: aerial photographs, topographic maps, fire insurance maps, street directories, and previous investigations.

The subject property was not listed in any of the regulatory databases searched.

There were no *recognized environmental conditions* (REC, as defined in Section 2.1) noted for the subject property during the preparation of this Phase I ESA. However, the following conditions of potential environmental concern were noted:

- Poor best management practices were observed in the supply storage closet. Spilled floor seal/resin type material was observed. Kleinfelder recommends that spills be cleaned and leaking containers be appropriately disposed.

- Surface stained soil was observed in the area where one of the two septic/leach fields areas is reportedly located. The Town of Pahrump should verify whether the surface staining is above the septic/leach field and if so, evaluate if the septic/leach field is functional.

There were no *historic recognized environmental conditions* noted for the subject property during the preparation of this Phase I ESA.

Asbestos

The Limited Asbestos Survey (LAS) revealed the presence of approximately 7,000 square feet of exterior roofing system asbestos-containing material (ACM), 100 square feet of beige resilient floor tile and yellow mastic ACM, 150 square feet of grey resilient floor tile and brown mastic ACM. At the time of this survey, all ACM appeared to be in good condition; and therefore does not currently pose a hazard and does need not be removed. However, if renovation or demolition is planned all friable ACM's must be removed by a licensed asbestos abatement contractor prior to renovation or demolition activities. Non-friable ACM's that may become friable during demolition activities must also be removed prior to demolition. It is recommended that abatement plans and specifications be prepared by an Asbestos Hazards Emergency Response Act (AHERA) accredited project designer who is independent of the abatement contractor. While non-friable ACM's may be removed by other than a licensed asbestos abatement contractor, it is recommended that all ACM's be removed by a licensed contractor prior to demolition activities. Non-friable ACM's should be handled, transported and disposed of in such a way as to prevent the material from becoming friable and potentially releasing asbestos fibers.

Lead-Based Paint

The lead-based paint (LBP) survey did not reveal the presence of LBP, but one paint chip sample collected from roof cap flashing contained a low lead concentration (89 ppm) identifying the presence of low concentration lead-containing paint. This paint is

not considered to be LBP, and the low concentration is unlikely to cause exposure concerns to site workers. However, Occupational Safety and Health Administration (OSHA) considers it to be lead containing and therefore, removal of the deteriorated paint and/or the cap flashing should be conducted in accordance with OSHA regulations.

A full evaluation of this site including any deviations, historical environmental conditions, and *de minimis* findings are discussed in Chapter 8 of this report. This report is subject to the limitations in Section 2.5.

2 INTRODUCTION

The following report is a summary of work performed using the guidelines set forth in the ASTM Standard E-1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM Standard). This report generally conforms to the ASTM Standard's suggested table of contents. To assist in better reading and understanding of the report, Kleinfelder made minor format modifications to the ASTM Standard's suggested table of contents.

2.1. PURPOSE

The purpose of this Phase I ESA is to identify, to the extent feasible pursuant to the terms of our NDEP Contract 10-008, and limitations discussed in this report, RECs and other environmental issues related to the subject property. As defined in the ASTM Standard, a REC is:

> *The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions.*

The ASTM standard also requires the identification of Historical RECs (HRECs). As defined in the ASTM Standard, subsection 3.2.39, a HREC is:

> *An environmental condition which in the past would have been considered a* REC, *but which may or may not be considered a* REC *currently. The final decision rests with the* EP *and will be influenced by the current impact of the*

HREC *on the property. If a past release of any hazardous substance or petroleum products has occurred in connection with the property and has been remediated, with such remediation accepted by the responsible regulatory agency (for example, as evidence by the issuance of a no further action letter or equivalent), this condition shall be considered a* HREC *and included in the findings section of the Phase 1* ESA *report... (*EP *opinion statement)... If this* HREC *is determined to be a* REC *at the time the Phase 1* ESA *is conducted, the condition shall be identified as such and listed in the conclusions section of the report."*

This report describes Kleinfelder's assessment methodology and documents our assessment findings, subject to the limitations presented in Section 2.5 of this report.

2.2. DETAILED SCOPE-OF-SERVICES

The following sections describe Kleinfelder's work scope:

- Section 2, **Introduction**, includes a discussion of the purpose/reason for performing the Phase I ESA, additional services requested by the Client (i.e., an evaluation of business environmental risk factors associated with the subject property), significant assumptions (i.e., property boundaries if not marked in the field), limitations, exceptions, and special terms and conditions (i.e., contractual), and user reliance parameters.

- Section 3, **Site Description**, is a compilation of information concerning the subject property location, legal description (if provided), current and proposed use of the subject property, a description of structures and improvements on site at the time of Kleinfelder's assessment, and adjoining property use.

- Section 4, **Records Review**, is a compilation of Kleinfelder's review of several databases available from Federal, State, and local regulatory agencies regarding hazardous substance use, storage, or disposal at the subject property; and for off-site facilities within the search distance specified in the ASTM Standard. Records provided by the Client are summarized and copies of relevant documents are included in the appendices of this report. Physical setting sources (including topography, soil and groundwater conditions) and typical Client-provided information (i.e., title records, environmental liens, specialized knowledge, valuation reduction for environmental issues, and owner, property manager, and occupant information) are also summarized in this section. Other interviews with people knowledgeable about the subject property (including the client) are included in Section 7.

- Section 5, **History of the Site**, summarizes the history of the subject property and adjoining properties. This subject property history is based on various sources which may include: a review of historical aerial photographs, Sanborn Fire Insurance Maps, city or suburban directories, historical topographic maps, building department records, and results of previous site assessments.

- Section 6, **Site Reconnaissance**, describes Kleinfelder's observations during the site reconnaissance. The methodology used and limiting conditions are described.

- Section 7, **Interviews**, is a summary of telephone and personal interviews conducted with "Key Site Managers" that may include the owner/manager of the facility, occupants/tenants, local government officials, and the Client. Additional interview sources may be contacted if "Key Site Managers" are not available prior to production of this report, and may include adjoining landowners and people with historical knowledge of the area.

- Section 8, **Evaluation**, is a presentation of our findings and opinions regarding the information in Sections 3 through 7, and presents our conclusions regarding the presence of RECs connected with the site, and recommendations if required by the Client.

- Section 9, **References**, is a summary of some of the resources used to compile this report.

Pertinent documentation regarding the subject property is included in appendices of this report.

2.3. ADDITIONAL SERVICES

The scope of work for this Phase I ESA included a LAS and a LBP survey. Other ASTM Standard non-scope considerations, such as radon, lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, and high voltage power lines.

2.4. SIGNIFICANT ASSUMPTIONS

No significant assumptions were made regarding the subject property.

2.5. LIMITATIONS AND EXCEPTIONS

Phase I ESAs are non-comprehensive by nature and may not identify all environmental problems, and will not eliminate all risk. This report is a qualitative assessment. Kleinfelder offers a range of investigative and engineering services to suit the needs of our clients, including more quantitative investigations. Although risk can never be eliminated, more detailed and extensive investigations yield more information, which may help the Client understand and better manage risks. Since such detailed services involve greater expense, we ask our clients to participate in identifying the level of service, which will provide them with an acceptable level of risk. Please contact the signatories of this report if you would like to discuss this issue of risk further.

Kleinfelder performed this Phase I ESA in general accordance with the guidelines set forth in the ASTM Standard, and the proposed scope subsequently approved by our Client. No warranty, either express or implied, is made. Environmental issues not specifically addressed in this report were beyond the scope of our services and not included in our evaluation.

During the LAS survey, no attempt was made move equipment, furnishings or to uncover or observe below-ground systems or equipment. Areas that were not considered safely accessible were not evaluated. There remains the possibility that additional ACMs (e.g., in underground asbestos-containing cement pipes and/or ACM-wrapped utility pipes), or other hazardous materials may be encountered during future building demolition and/or below grade excavation activities.

2.6. SPECIAL TERMS AND CONDITIONS

No special terms and conditions in addition to those discussed previously were agreed to either by the Client and Kleinfelder.

2.7. USER RELIANCE

This report may be used only by the NDEP, and the Town of Pahrump and only for the purposes stated within a reasonable time from its issuance, *but in no event later than 1 year from the date of the report.* Land or facility use, on- and off-site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time. Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings, and opinions can be considered valid only as of the date of the site visit. This report should not be relied upon after 180 days from the date of its issuance (ASTM Standard, Section 4.6). Any party other than the Client who wishes to use this report shall notify Kleinfelder of such intended use.

3 SITE DESCRIPTION

The site description is presented in this section and describes the condition of the subject property at the time of the Phase I ESA. The site location is shown on Plate 1. Tables 3-1 through 3-5 summarize the physical characteristics of the site and adjoining properties.

3.1. LOCATION AND LEGAL DESCRIPTION

The information presented in Table 3-1 describes the physical location and legal description of the subject property. This information was obtained from review of various maps (such as topographic maps and tax assessor maps), aerial photographs, public records at city and/or county offices, interviews, and/or information provided by the Client.

TABLE 3-1
LOCATION AND LEGAL DESCRIPTION

Parameter	Information/Comments
ADDRESS	150 North Highway 160, Pahrump, Nevada 89060
LOCATION	Town of Pahrump, Nye County, Nevada
SECTION, TOWNSHIP & RANGE	Section 10, Township 20 South, Range 53 East
ASSESSOR'S PARCEL NO.	035-121-15 (portion of)
LEGAL DESCRIPTION	T20S R53E S10 F#523204 P.2 34.27AC
ACREAGE	Approximately 0.16
ZONING/LAND USE	690 - Public Lands or Parks - Improved

3.2. CURRENT/PROPOSED USE OF THE PROPERTY

At the time of Kleinfelder's assessment the land use for the subject property was a fully developed, but vacant building, approximately 7,000 square feet in size. Current and proposed uses are described in Table 3-2.

TABLE 3-2
CURRENT/PROPOSED USES

Parameter	General Observations
CURRENT USE	Bob Ruud Community Center - not in use
PROPOSED USE	Renovated Community Center

3.3. DESCRIPTION OF STRUCTURES/IMPROVEMENTS

Structures and/or improvements observed on site at the time of Kleinfelder's site reconnaissance are described in Table 3-3.

TABLE 3-3
STRUCTURES/IMPROVEMENTS

Parameter	General Observations
STRUCTURES	Approximately 7,000 square foot, single story concrete masonry block and wood framed stucco building, with concrete foundation and built up roof, with septic system.
IMPROVEMENTS	Approximately 100 feet by 15 feet addition constructed on the north side of the structure in mid 1970's, with septic system.

3.4. CURRENT USES OF ADJOINING PROPERTIES

Kleinfelder performed a brief drive-by survey of the properties immediately adjoining to the subject property on June 1, 2011. A summary of the surrounding properties is presented in Table 3-4.

TABLE 3-4
ADJOINING PROPERTIES

Direction	Land Use Description
NORTH	Park area with baseball/softball park beyond
EAST	Parking and park restroom, with Highway 160 beyond.
SOUTH	Pahrump Valley Junction Shopping Center (separated from the subject property by Basin Avenue).
WEST	Basketball court, with playground, tennis courts and rodeo arena beyond

An aboveground storage tank (AST), supplying propane to the building, was observed located on the north side of the building. The propane AST was observed to be protected from vehicle contact by steel rail fencing and appeared to be in good condition.

A Rebel Oil fuel station, containing underground storage tanks (USTs) was observed located to the southeast of the subject property. The Rebel Oil fuel station, located at the corner of Basin Avenue and South Highway 160, is separated from the subject property by East Basin Avenue.

There were no other environmental conditions visible, from either the subject property boundary or public right-of-way view, on the adjoining properties at the time of Kleinfelder's site reconnaissance. Based on our observations at the time of our site visit, the adjoining properties do not appear likely to adversely affect the subject property, with the possible exception of the Rebel Oil fuel station. This facility is further discussed in Section 4.3 of this report.

4 RECORDS REVIEW

4.1. STANDARD ENVIRONMENTAL RECORD SOURCES

The purpose of the records review is to obtain and review records that would help to evaluate RECs of potential concern in connection with the subject property and bordering properties.

Federal, state and local regulatory agencies publish databases or "lists" of businesses and properties that handle hazardous materials or hazardous waste, or are the known location of a release of hazardous substances to soil and/or groundwater. These databases are available for review and/or purchase at the regulatory agencies, or the information may be obtained through a commercial database service. Kleinfelder contracted a commercial database service, TrackInfo Services of Montrose, California to perform the government database search for listings within the appropriate United States Environmental Protection Agency (USEPA) All Appropriate Inquiry (AAI) minimum search distance of the subject property. TrackInfo Services refer to their reports as the FirstSearch Environmental Report (FirstSearch). A description of the types of information contained in each of the databases reviewed and the agency responsible for compiling the data is also included in the FirstSearch Report. The FirstSearch database search results are presented in Appendix B, including the databases summarized in Table 4-1.

TABLE 4-1
RECORDS REVIEW & SEARCH DISTANCE

FEDERAL LIST	DISTANCE
National Priority List (NPL)	1 mile
Delisted NPL	½ mile
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	½ mile
CERCLIS-No Further Remedial Action Planned (NFRAP)	½ mile
Resource Conservation Recovery Act (RCRA)-CORRACTS facilities	1 mile
RCRA-non CORRACTS TSD facilities	½ mile
RCRA generators	¼ mile
Institutional Control/Engineering Control registries	¼ mile
Emergency Response Notification System (ERNS)	Site
NPL-equivalent lists of hazardous waste sites (SHWS)	1 mile
CERCLIS-equivalent lists of hazardous waste sites	½ mile
Landfills or Solid Waste Listing	½ mile
Leaking Underground Storage Tank (LUST)	½ mile
Registered Underground Storage Tanks (UST)	¼ mile
Institutional Control/Engineering Control-equivalent registries	¼ mile
Voluntary Cleanup Sites (VCP)	½ mile
Brownfields	½ mile

FirstSearch utilizes a geographical information system to plot the locations of business and properties listed in the regulatory databases listed in Table 4-1. Kleinfelder reviews this information to help establish if the site, or nearby properties, have been included in the noted databases and lists. The FirstSearch report includes radius maps that show the locations of the listed properties with respect to the site, and a summary of pertinent information for these properties. For each listed site, the summaries include the name of the responsible party, the property address, the distance and direction from the subject property, as well as the databases and lists on which the listed property appears. The dates that the databases were updated are also included in the FirstSearch report.

4.2. RESULTS OF DATABASE SEARCH

The following sections contain information on the results of FirstSearch's record search. Listed search distances are those specified in the ASTM Standard. The subject property was not listed in any of the databases.

4.2.1. Federal Lists

Within their respective ASTM recommended minimum search distances, there was one geocoded site found:

Home Depot USA, HD 2211, 301 North Highway 160 (RCRA small quantity generator) - Since this listing is located approximately 1,500 feet north (cross-gradient), it is unlikely to pose a risk to the subject property.

There were three nongeocoded sites (refer to Section 4.2.4) listed in the FirstSearch Report that are described as being within the town of Pahrump. All three listings are for EPA Brownfields sites. Although these were nongeocoded, addresses were listed in the FirstSearch Report. Based on the locations of these addresses, these sites are at least 3,000 feet away and do not pose a risk to the subject property.

4.2.2. State Lists

Within their respective ASTM recommended minimum search distances, there were four geocoded sites found:

Rebel Oil Co #78, 40 South Highway 160 (UST) – This site is located approximately 200 feet to the southeast of the subject property, across East Basin Avenue. The FirstSearch Report lists five gasoline USTs ranging from 4,000 to 12,000-gallons in size, and one 6,000-gallon diesel UST. They were installed in 1998 and consist of steel and fiberglass reinforced plastic (FRP) construction. Piping is constructed of FRP. This site is further discussed in Section 4.3.

Nye County Maintenance Yard, Highway 160 and Boothill Drive (LUST) –The FirstSearch Report indicates that a release of diesel to soil was reported in October

1998. The NDEP reportedly granted case closure in March 1999. Since regulatory closure has been granted and this site is located approximately ½ mile north (cross gradient), it is unlikely to pose a risk to the subject property.

Preferred Equities, 220 Highway 160 and 372 (LUST) - The FirstSearch Report lists that the type of event as a "No Impact, Clean Close" for this site. This site is located approximately ½ mile south of the subject property. The NDEP granted a clean closure in August 1996. This site therefore does not pose a risk to the subject property.

D and M Partners, 370 Gemini (State) – The FirstSearch Report lists a release of "other cyanide" to soil, reported in February 1995. The case was closed by the NDEP in 1996. Since regulatory closure has been granted and this site is located approximately 0.75 miles northwest (crossgradient or downgradient), it is unlikely to pose a risk to the subject property.

There were five nongeocoded sites (refer to Section 4.2.4) listed in the FirstSearch Report. Addresses were listed for two of the sites, which are located several miles south of the subject property. The exact locations of the other three sites could not determined. However, they are unlikely to be located in the immediate vicinity of the subject property, as the types of businesses/properties listed are not present in the vicinity of the subject. All cases are also listed as being closed, and are therefore not likely to pose a risk to the subject property.

4.2.3. Supplemental Federal, State, and Local Lists

In addition to the ASTM Standard database search, Kleinfelder requested that FirstSearch provide information for the following supplemental databases: State Wells, Releases, Coal Gasification, Fire Insurance Map Coverage, Dry Cleaners, and Meth Labs.

None of these supplemental databases had listings.

4.2.4. Orphan (nongeocoded) List

Sites not plotted by FirstSearch due to poor or inadequate address information are nongeocoded and are referred to as orphan sites. There were a total of eight orphan sites. The summary report was reviewed to evaluate if Kleinfelder could ascertain their location (based upon local and general knowledge, and selected file review requests) and if so, whether these sites are a REC to the subject property. As discussed in Sections 4.2.1 and 4.2.2, the locations for five of the sites were found and assessed to be too distant to affect the subject property. The remaining three sites are also not likely to be in the vicinity of the subject property, and all cases have been closed.

4.3. OTHER RECORDS REVIEWED/AGENCIES CONTACTED

Kleinfelder reviewed the NDEP online databases for active and closed release cases. The subject property was not listed in the databases, and no facilities not previously identified in the FirstSearch report were listed.

Kleinfelder obtained the following file from the NDEP for review:

UST# 7-000775, Rebel Oil #78, 40 S. Highway 160: Information reviewed in the file indicated that four USTs are currently used at this facility, which is located directly southeast of the subject property across East Basin Avenue. The USTs include two 12,000-gallon gasoline USTs, a 4,000/8,000 multi-compartment gasoline UST, and a 6,000/6,000-gallon multi-compartment UST containing gasoline and diesel. They were installed in November 1998, are double-walled, and constructed of steel and fiberglass. Inventory control, automatic tank gauging, and interstitial monitoring are used as leak detection methods, and spill/overfill protection measures are installed. Product piping is constructed of FRP, and automatic line leak detectors are used.

Several inspection records were included in the file. The initial compliance inspection, conducted in May 1999, found that six inches of product was present in one of the sumps and that the leak detection sensor in the sump had been raised. The sump was subsequently pumped and the sensor was lowered to its proper position. Other violations regarding product and/or water in turbine sumps were noted during inspections performed in 2001, 2003, and 2010. In each case, the leak detection sensors were either not installed properly or were raised above the product/water level.

Other violations have included inadequate installation of automatic line leak detectors and spill buckets, and inadequate record keeping. Based on information in the file, each violation was resolved after notification letters from the NDEP were sent, and the facility currently appears to be compliant with UST regulations.

No releases have been reported for this facility, but documentation showed that product was present in turbine sumps on several occasions since this fuel station opened in 1998. There is a possibility that at least some product escaped the sumps and was released to soil and/or groundwater. Since this facility is located approximately 200 feet crossgradient from the subject property, it may pose a moderate risk to the subject property.

4.4. PHYSICAL SETTING SOURCE(S)

Table 4-2 presents information about the physical setting of the site. This information was obtained from published maps.

TABLE 4-2
PHYSICAL SETTING

Data	Source	General Information
USGS TOPOGRAPHIC QUADRANGLE	Pahrump, Nevada Quadrangle, 7.5 Minute Series (Topographic), Provisional Edition 1984	The subject property is located at an approximate elevation of 805 feet above mean sea level (msl) and the topographic relief slopes to the southwest. Land use in the vicinity of the site was depicted as a recreational and non-descriptive development.
SOIL TYPE	USDA-Natural Resources Conservation Service, Web Soil Survey (http://websoilsurvey.nrcs.usda.gov), accessed June 6, 2011.	Loam (Nopah loam) and very gravelly sandy loam/stratified cobbly coarse sand to extremely gravelly sand (Yermo, hot-Yermo-Arizo association)
OIL AND GAS FIELDS	NBMG, Bulletin 104 (Garr, et. al) and NBMG, Open-File Report 04-1 (Hess, et. al)	There are no oil and gas fields in the site vicinity. There are no oil or gas wells within a 1-mile radius of the subject property.

Information about the regional geology is presented on Table 4-3. This information was obtained from published data and maps, interviews with public agencies, and/or from previous investigations conducted by Kleinfelder or others in the vicinity of the subject property.

TABLE 4-3
REGIONAL GEOLOGY AND HYDROGEOLOGY

Physical Parameter	INFORMATION/COMMENTS
REGIONAL GEOLOGY (Source: NBMG, Preliminary Geologic Map of Pahrump Quadrangle, 1999)	Alluvial Fan remnants characterized by subdued bar and channel morphology, incipient desert pavement, weak rock varnish, and no to slight etching of carbonate surface clasts. Soils are typically A-C and A-Bk-C profiles with a 1- to 5-centimeter-thick, light brown, eolian epipedon (Av) and a 5- to 20-centimeter-thick, weak or nonexistent calcic horizon (Bk) with Stage I carbonate development. Mid to late Holocene age.
DEPTH TO REGIONAL GROUNDWATER (Source: Town of Pahrump Wellhead Protection Plan.)	The depth to groundwater in Pahrump ranges from less than 30 feet below land surface (bls) to several hundred feet under the alluvial fans east of Highway 160. Under the valley floor area, the depth generally ranges from 90 feet near Highway 160 to between 45 and 65 feet on the west side of the valley, except in the areas near Manse Spring, the Artesia development, and Stewart Valley where the groundwater is near land surface. General groundwater depth may be influenced by local pumping, rainfall, and irrigation patterns.
DIRECTION OF ANTICIPATED FLOW [1] (Source: Town of Pahrump Wellhead Protection Plan.)	The estimated direction of groundwater flow beneath the subject property is reported to be southwest.
REGIONAL GROUNDWATER QUALITY PROBLEMS	No information on the regional groundwater quality is known.

TABLE 4-3
REGIONAL GEOLOGY AND HYDROGEOLOGY

Physical Parameter	INFORMATION/COMMENTS
WATER SUPPLY (Source: Town of Pahrump, wellhead protection plan)	The Town of Pahrump's water supply is through wells. A wellhead protection plan for the Town of Pahrump, dated March 2006 was reviewed. The document (reviewed on June 6, 2011) indicates that approximately 9,000 people get their water from the public water supply system. The remaining residences in Pahrump are not dependent upon public water supply systems and get their water from domestic wells. There are about 10,000 domestic wells in Pahrump Valley, and several hundred new domestic wells are drilled each year. There are no public water supply wells in the immediate vicinity of the subject property and therefore, the wellhead protection plan does not include the subject property and immediate vicinity in the wellhead protection area and contaminate source inventory analysis and discussion. This 66 page document is not included as an Appendix, but can be provided if requested.
FLOOD ZONE DESIGNATION (Source: Nye County Government Website, http://www.nyecounty.net)	According to FEMA Flood Insurance Rate Map (FIRM) for Nye County, Panel 8850 of 8900, Map Number 3203C8850E, effective date February 17, 2010, the subject property is not located within the 100-year flood zone.

[1] Groundwater flow direction is based on regional information sources. Site-specific conditions may vary due to a variety of factors including geologic anomalies, utilities, nearby pumping wells (if present), and other developments.

4.5. USER PROVIDED INFORMATION

According to Client, the purpose for performing this Phase I ESA is to satisfy due diligence requirements. Information regarding current owner/occupant is listed in Table 4-4.

TABLE 4-4
OWNER/OCCUPANT INFORMATION

Entity	Name
OWNER	Town of Pahrump
PROPERTY MANAGER	Town of Pahrump
OCCUPANT	No current occupants. The subject property is currently an unused community center.

Interviews of key individuals ("Key Site Managers") are provided in Section 7. The following section presents information provided by the Client.

4.5.1. Title Records

A Preliminary Title Report or Chain-of-Title Report was not provided to Kleinfelder for review prior to production of this report. These documents may provide information about land including ownership and other interests in the land, easements, and liens. Not all liens, defects, and encumbrances affecting title to the land may be included on the Preliminary Title Report.

4.5.2. Environmental Liens and Activity Usage Limitations

As part of the ASTM E1527-05 process (ASTM E1527-05, Section 6.2), it is the User's responsibility to provide Environmental Liens and Activity Usage Limitations (AULs) information to the environmental professional (Kleinfelder), unless the agreed scope of services provides otherwise. Our scope of services did not include researching Environmental Liens and Activity Usage Limitations for the subject property, nor was that information provided to Kleinfelder to review.

4.5.3. Value Reduction

As part of the ASTM E1527-05 process (ASTM E1527-05, Section 6.5), the User must provide information regarding the prospective purchase price of the property relative to the fair market value of the subject property. If there appears to be a value reduction,

that reduction must be identified with respect to whether the difference could be attributed to environmental degradation of the property.

This Phase I ESA is not being completed for purchase and therefore, this portion of the Phase I ESA does not apply.

4.5.4. Other Information/Documents Provided

Except has discussed in Section 7 (Interviews) of this Report, no other information/documents were provided to Kleinfelder.

5 HISTORY OF THE SITE

The history of the site was researched to identify obvious uses. Historical land use was researched to the first developed use, or back to 1940, whichever was earlier or readily available. For the subject property, the earliest readily ascertainable historical reference available was 1943. Table 5-1 summarizes the availability of information reviewed during this assessment.

TABLE 5-1
HISTORICAL SOURCES

	Years reviewed	Availability
AERIAL PHOTOGRAPHS	1945,1953, 1973, 1983, 1990, 2006, 2010	Available
SANBORN FIRE INSURANCE MAPS	Not Applicable	No Coverage
LOCAL STREET DIRECTORIES	1992, 1995, 2004, 2007	Available
HISTORICAL TOPOGRAPHIC MAPS	1958, 1984	Available
BUILDING DEPARTMENT	None	None
PREVIOUS ASSESSMENT(S)	None	None
OTHER	None	None

5.1. AERIAL PHOTOGRAPHS

A review of historical aerial photography may indicate past activities at a site that may not be documented by other means, or observed during a site visit. The effectiveness of this technique depends on the scale and quality of the photographs and the available coverage. Aerial photographs were obtained from the historical photograph collection held by FirstSearch. Aerial photographs covering the years between 1945 and 2006 were available during the timeframe that this report was being prepared. The Nye County Assessor Website was reviewed for a current (2010) aerial photo review and is used for Plate 1. A tabulation of the aerial photographs reviewed is presented in Table 5-2.

TABLE 5-2
HISTORICAL AERIAL PHOTOGRAPHS REVIEWED

Date	Approximate Scale	Type	Source	Quality
1945	1 inch = 750 feet	Black and White Monoscopic	Environmental FirstSearch	Fair
1953	1 inch = 750 feet	Black and White Monoscopic	Environmental FirstSearch	Fair
1983	1 inch = 750 feet	Black and White Monoscopic	Environmental FirstSearch	Fair
1990	1 inch = 750 feet	Black and White Monoscopic	Environmental FirstSearch	Good
2006	1 inch = 750 feet	Color Monoscopic	Environmental FirstSearch	Good
2010	Varies	Color Monoscopic	Nye County Assessor Website	Excellent

Note: Aerial photographs only provide information on indications of land use and no conclusions regarding the release of hazardous substances or petroleum products can be drawn from the review of photographs alone.

5.1.1. Subject property

The 1945 and 1953 aerial photographs show the subject property as undeveloped. The subject property boundaries are difficult to assess due to the lack of landmarks. In the 1973 photograph, it appears that the subject property is developed with the Bob Ruud Community Center. There are no significant changes to the subject property in the remainder of the aerial photographs.

The aerial photographs do not suggest the presence of RECs in association with the subject property.

5.1.2. Surrounding Areas

The 1945 and 1953 aerial photographs show no development in the vicinity of the subject property, with the exception of Highway 160. A few dirt roads are also present, and may be located in the vicinity of the subject property. However, the exact location

of the subject property is difficult to assess due to the lack of landmarks. The 1973 aerial photograph shows the park areas to the north and west of the subject property, and East Basin Avenue is also present. Some grading has been performed on the east side of North Highway 160. In the 1983 photograph, the Nye County administrative building to the north (at 250 North Highway 160) is visible, and additional grading to the northwest of the subject property has occurred for future residential development. In the 1990 photograph, a few new commercial properties are present to the east, across North Highway 160. The 2006 and 2010 photographs show that the shopping center and Rebel Oil fuel station have been constructed to the south across East Basin Avenue, and some residential development has occurred to the northwest of the subject property.

The aerial photographs do not suggest the presence of RECs.

5.2. FIRE INSURANCE MAPS

Fire insurance coverage maps, such as those maintained by The Sanborn Map Company, were produced for the purpose of assessing the potential fire hazard of a particular building or area. The maps generally show the type of building construction may show locations of stored chemicals, ASTs, USTs; and also often identify site uses and features not ordinarily available from other sources. These maps are generally available only for historically established urban and suburban areas. These historical fire insurance maps were maintained for various cities from 1867 through the 1950s.

Fire Insurance Maps provide historical land use information for some metropolitan areas and small established towns. The maps generally show the type of building construction, may show locations of stored chemicals, above ground storage tanks, underground storage tanks; and also often identify site uses and features not ordinarily available from other sources.

Kleinfelder requested a search of Fire Insurance Map Coverage by FirstSearch. FirstSearch indicated that coverage was not available for the site vicinity. A letter of no coverage is provided with the FirstSearch Report in Appendix B.

5.3. LOCAL STREET DIRECTORIES

Local Street Directories (City Directories) provide information regarding property occupants by address and are one means to evaluate past ownership and property usage. FirstSearch provided a review of City Directories from 1992 through 2007 for the subject property and nearby properties.

The address for the subject property is listed in the 2004 directory only as "Towns, Wanda", an apparent residential listing. Various listings are presented for nearby addresses starting in 2004, including listings for various "Nye County" offices and services. A copy of the City Directory review is included in Appendix D.

5.4. HISTORICAL TOPOGRAPHIC MAP REVIEW

Kleinfelder obtained information regarding historical topographic maps of the subject property vicinity from FirstSearch report. The topographic maps reviewed for this assessment are listed below in Table 5-3.

TABLE 5-3
HISTORICAL TOPOGRAPHIC MAPS REVIEWED

Year	Quadrangle	Series	Scale
1958	Pahrump, NV	15 minute	1:62,500
1984	Pahrump, NV	7.5 minute	1:24,000

5.4.1. Subject property

The 1958 historic topographic map shows no development on the subject property. The 1984 map show a small structure, which appears to be the Bob Ruud Community Center.

5.4.2. Surrounding Areas

The 1958 historic topographic map shows the presence of North Highway 160 to the east, and a few dirt roads in the immediate vicinity of the subject property. The 1984

map shows several additional roads and structures, including the Nye County administrative building to the north of the subject property.

5.5. BUILDING DEPARTMENT RECORDS

No Building Department records were reviewed. Nye County building records typically do not provide information related to environmental issues.

5.6. PREVIOUS ASSESSMENTS

No previous assessments were provided to Kleinfelder for review.

6 SITE RECONNAISSANCE

Kleinfelder's assessment activities included a site reconnaissance. This section summarizes the findings from the site reconnaissance.

6.1. METHODOLOGY AND LIMITING CONDITIONS

On June 1, Mr. Daniel Burns, a Kleinfelder employed State of Nevada Certified Environmental Manager (CEM), performed a site reconnaissance of the subject property and adjacent properties. During the visit, the weather was clear. There were no site access restrictions.

The site reconnaissance included a visual inspection of the site to assist in identifying the presence or likely presence of hazardous substances or petroleum hydrocarbons under conditions that indicate an existing release, a past release, or threat of release into structures, soil, groundwater, or surface water at the site. Observations of readily apparent environmental conditions are summarized in Table 6-1, and color photographs of the site are presented on Plates 3 through 5.

6.2. GENERAL SITE SETTING

The subject property is located at the northwest corner of East Basin Avenue and North Highway 160 in the Town of Pahrump, in Nye County, Nevada. The property is addressed as 150 North Highway 160. The subject property is referred to as the Bob Ruud Community Center. It is an approximately 7,000 square foot single story building.

6.3. SITE OBSERVATIONS

General site observations are further described in Table 6-1, and Table 6-2 further describes the interior and exterior observations as well as observed environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.

TABLE 6-1
SITE OBSERVATIONS

GENERAL OBSERVATIONS	REMARKS	OBSERVED	NOT OBSERVED
Current use of Subject Property	Community Center	X	
Current use of Subject Property likely to indicate RECs			X
Past use of Subject Property			X
Past use of Subject Property likely to indicate RECs			X
Current use of adjoining properties	North – Park, consisting of baseball/softball field. East – Parking area, with Highway 160 beyond. South – Pahrump Valley Junction Shopping Center (separated from the subject property by East Basin Avenue). West – Park, consisting of basketball court, with playground and tennis courts beyond.	X	
Current use of adjoining properties likely to indicate RECs			X
Past use of adjoining properties			X
Past use of adjoining properties likely to indicate RECs			X
Topography of site and surrounding area		X	

TABLE 6-1
SITE OBSERVATIONS

GENERAL OBSERVATIONS	REMARKS	OBSERVED	NOT OBSERVED
Structures	Community Center	X	
Roads		X	
Potable Water Supply			X
Sewage Disposal System	Septic/leach field systems	X	

TABLE 6-2
INTERIOR AND EXTERIOR OBSERVATIONS

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		OBSERVED	NOT OBSERVED
Aboveground storage tank (AST)	Propane tank on north side of subject property, supplying propane to building.	X	
Air emissions			X
Asbestos and lead	Refer to Sections 6.5 (asbestos survey) and 6.6 (lead based paint survey)	X	
Below grade vaults			X
Burned or buried debris			X
Chemical storage	Containers of floor cleaning/sealing/polishing chemicals; paint; restroom cleaning chemicals; and sodium hydroxide, and lacquer thinner, located in an interior supply closet.	X	
Chemical mixing areas			X
Discolored soil or water			X
Ditches, streams			X

TABLE 6-2
INTERIOR AND EXTERIOR OBSERVATIONS

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		OBSERVED	NOT OBSERVED
Drains and piping (e.g. floor drains, floor trenches, bay drains, sand traps, grease traps)			X
Drums			X
Electrical or hydraulic equipment (polychlorinated biphenyls [PCBs])			X
Farm waste (e.g. feedlot spoils or manure stockpile)			X
Fill dirt from an unknown source.			X
Fill dirt from a known source			X
Hazardous chemical and petroleum products in connection with known use.			X
Hazardous chemical and petroleum products in connection with unknown use.			X
Non-hazardous containers with contents	Containers of floor cleaning/sealing/polishing chemicals; paint; restroom cleaning chemicals; and sodium hydroxide, and lacquer thinner, located in an interior supply closet.	X	
Hazardous waste storage			X
Heating and cooling system and fuel source	Propane	X	

TABLE 6-2
INTERIOR AND EXTERIOR OBSERVATIONS

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		OBSERVED	NOT OBSERVED
Industrial waste treatment equipment			X
Loading and unloading areas			X
Odors			X
Pits, ponds, or lagoons			X
Pools of liquid			X
Process waste water			X
Septic system (*e.g. tank and leach fields*)	There are reportedly two septic systems, but they were not observable.		X
Soil piles			X
Solid waste/evidence of Unauthorized Dumping			X
Stained pavement, soil or concrete	Stained soil in area of leach field.	X	
Stains or corrosion (*interior, non-water)*			X
Storm drains/catch basins			X
Stressed vegetation			X
Sumps and clarifiers			X
Surface water			X
Underground storage tank(s) (including heating oil tanks)			X
Unidentified substance containers	In supply closet, an approximate 2 gallon dispensing container was observed without visible labeling	X	
Waste water discharge			X

TABLE 6-2
INTERIOR AND EXTERIOR OBSERVATIONS

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		OBSERVED	NOT OBSERVED
Water supplies (*potable and process*)			X
Wells (*irrigation, monitoring, or domestic*)			X
Wells (*dry*)			X
Wells (*oil and gas*)			X

6.4. RESULTS OF SITE RECONNAISSANCE

At the time of our site reconnaissance, we observed 5-gallon size containers of corrosive liquids, floor stripping, cleaning and sealant products and some smaller containers of cleaning supplies, within a supply closet. One of the containers, containing an unidentified resin type material, had leaked.

On the exterior, an AST containing propane was observed. Surface staining was on the access road to the park grounds, located between the Subject property and the propane AST. This staining appears to be in the area where one of the two septic tanks was reported to be located.

The site perimeter was walked and adjacent properties observed (as viewable from the subject property and public rights of way). A Rebel Oil fuel station, with USTs, is located on the south adjacent property (separated from the subject property by East Basin Avenue).

6.5. LIMITED ASBESTOS SURVEY

On June 1, 2011, a LAS was conducted at the Bob Ruud Community Center. The survey was performed by a State of Nevada Licensed Asbestos Abatement Consultant accredited under the AHERA. The purpose of this LAS was to evaluate the location, condition and quantity of potentially hazardous ACM with asbestos content greater than 1%, which may present a worker safety hazard and/or might require special handling and waste disposal as part of renovation or demolition.

Mr. Brian Loffman (BEC Environmental), a Nevada Asbestos Consultant-Inspector (I-1561) performed the LAS. BEC Environmental is a subcontractor to Kleinfelder for NDEP Contract 10-008. All samples were submitted to Fiberquant Analytical Services (Fiberquant) located in Phoenix, Arizona. Fiberquant is certified under the USEPA's National Voluntary Laboratory Accreditation Program (NVLAP). A total of 110 bulk samples of suspect ACM were collected and submitted to Fiberquant. Typical suspect ACM's samples collected and submitted for laboratory analysis included resilient floor tile and mastic, ceiling tile, composite roofing material and mastic, gypsum wallboard and surface texture and cove base and mastic.

The sampling strategy complied with the sampling protocol established under AHERA (40 CFR 763.86) with primary emphasis on following the '3-5-7' rule, meaning three samples from less than 1,000 square feet area, five samples from 1,000 to 5,000 square feet area, and seven samples from greater than 5,000 square feet area. Samples were handled with accepted procedures for the collection, packaging, chain-of-custody documentation and transport of bulk samples to the laboratory for analysis. Once the homogenous areas have been identified for each like material, the required amount of samples of each type of suspect ACM will be collected for analysis. Bulk samples of suspect ACM were collected by spraying the suspect material with amended water, where appropriate, removing a small portion of the material, and placing it into a laboratory-provided or generic zip-lock plastic bag. All suspect materials sampled were identified on a building floor plan diagram with an identifying sample number (Figure 1, Appendix F). A Chain of Custody record was prepared to accompany bulk samples to the laboratory (Appendix F).

Based on our observations and a review of the laboratory analytical reports, the following estimated quantities of suspect ACMs are confirmed to be present:

- An estimated 7,000 square feet of exterior roofing system consisting of multiple layers of asphaltic ply, black mastic, caulk and paint ranging between 1% to 20% chrysotile asbestos (Samples RF-ACM-003c through RF-ACM-009j) located on the roof (Area 1). The roofing material ACM was observed to be in good condition and is classified as Category I non-friable ACM. Removal would be considered Class II asbestos work.

- An estimated 100 square feet of beige resilient floor tile and yellow mastic ranging between 5% to 10% chrysotile asbestos (Samples SR-ACM-004d through SR-ACM-006f) located in the storage room (Area 2). The storage room resilient floor tile and yellow mastic ACM was observed to be in good condition and is classified as Category I non-friable ACM. Removal would be considered Class II asbestos work.

- An estimated 150 square feet of grey resilient floor tile and brown mastic ranging between 2% to 5% chrysotile asbestos (Samples ENT-ACM-004d through ENT-ACM-006f) located in the entryway (Area 3). The entryway resilient floor tile and

brown mastic ACM was observed to be in good condition and is classified as Category I non-friable ACM. Removal would be considered Class II asbestos work.

Table F-1 (Summary of LAS Results), Figure 1 (Sample Location Map), photos, and a copy of the asbestos analytical laboratory report and chain-of-custody forms are provided in Appendix F.

Applicable Regulations- ACM

In Nye County, enforcement of the asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) regulation 40 CFR Part 61, Subpart M is overseen by US EPA Region 9, in San Francisco. The Asbestos NESHAP regulations must be followed for renovations of facilities with at least 160 square feet of RACM. Non-friable ACM that has been damaged during a renovation or demolition causing the material to be crumbled, pulverized or reduced to powder is covered by the NESHAP regulation for wetting and containment of the material during removal. After wetting, asbestos waste must be placed in leak-tight containers and labeled with the name of the waste generator and the location in which the waste was generated. An OSHA warning label must also be used. The waste must be transported in covered vehicles to prevent visible emissions and deposited at an acceptable waste disposal site. A more complete regulatory overview is presented in Appendix E.

Recommendations- ACM

Since all ACM appears to be in good condition, it does not currently pose a hazard and need not be removed. If removal of the undamaged ACM is to occur in the future as part of renovation of the building, a State of Nevada asbestos contractor should be contracted to perform the work. Contractors performing work that disturbs ACM at the site should implement appropriate work practices in accordance with applicable Federal and Nevada worker exposure regulations

If demolition is planned, all friable ACM's must be removed by a licensed asbestos abatement contractor prior to demolition activities. Non-friable ACM's that may become friable during demolition activities must also be removed prior to demolition. It is recommended that abatement plans and specifications be prepared by an AHERA

accredited project designer who is independent of the abatement contractor. While non-friable ACM's may be removed by other than a licensed asbestos abatement contractor, it is recommended that all ACM's be removed by a licensed contractor prior to demolition activities. Non-friable ACM's should be handled, transported and disposed of in such a way as to prevent the material from becoming friable and potentially releasing asbestos fibers.

Prior to abatement, notification should be made to Mr. Bob Trotter, the USEPA National NESHAP coordinator, located in San Francisco, California about the removal at least 10 working days prior to the beginning of the project.

6.6. LEAD BASED PAINT SURVEY

On June 1, 2011, Kleinfelder personnel conducted a visual survey and collected paint chip samples of suspected LBP on painted building components and/or coatings of the Bob Ruud Community Center. Mr. Daniel Burns, holds USEPA Lead Paint Risk Assessor certification in Nevada (NV-R-11723-3) performed the survey.

Performance of this survey allows for the Town of Pahrump to have information for compliance with the OSHA construction regulations under CFR 1926.62, which require an employer to identify potential lead hazards for workers and meet requirements of the standard.

During the LBP survey, Kleinfelder observed no damaged paint (cracked, chipped, and/or peeling) on the accessible interior areas of the structure. We did however observe cracking, chipping, peeling and/or delamination of exterior paint and window caulking, as a result of moisture, wear, heat, and/or age.

One sample was collected from each color of paint and window caulking. All samples were submitted to Fiberquant for analysis using Flame Atomic Adsorption Spectroscopy (Flame AA) in accordance with the EPA's Standard Operating Procedures for Lead in Paint by Atomic Adsorption Spectroscopy (AAS). Fiberquant is accredited under the American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP), which is an approved lead laboratory accreditation program under the EPA's National Lead Laboratory Accreditation Program (NLLAP).

The LBP survey consisted of sampling the following specific media.

a. Five paint chip samples were collected from interior paint that was visually observed to be a different color and/or on different substrates.

b. Five paint chips were collected from exterior paint that was visually observed to be a different color and/or on different substrates.

c. Three samples were collected from window caulking.

For twelve of thirteen paint chip samples (LBP-01 through LBP-11 and LBP-13), analytical results were reported by Fiberquant to be beneath their laboratory detection limit (ranging between 33 to 50 ppm). Paint chip sample LBP-12, collected from roof cap flashing, was reported by Fiberquant to contain a lead concentration of 89 ppm, or 0.0089 percent lead by weight (% by weight).

A summary of Kleinfelder's lead based paint survey analytical results is provided in Table 6-4. The lead based paint sample location map is provided as Plate 7. Copies of the lead paint analytical laboratory report and chain-of-custody forms are provided in Appendix H.

TABLE 6-4
LEAD BASED PAINT ANALYTICAL RESULTS

Sample No.	Sample Location and Description	Lead Content (ppm)
LBP-01	Blue painted, interior stage handrail (wood substrate)	<43
LBP-02	White painted interior wallboard (wallboard substrate)	<48
LBP-03	White painted interior 16" x 8" concrete masonry unit wall (concrete substrate)	<50
LBP-04	White painted, interior 16" x 3.5" brick wall (concrete brick substrate)	<50
LBP-05	Tan painted, exterior roof flashing (metal substrate)	<45
LBP-06	Brown painted, exterior roof flashing/trim (metal substrate)	<49
LBP-07	Tan painted, exterior block wall (concrete substrate)	<49
LBP-08	Blue painted exterior stoop/stairs (concrete substrate)	<47
LBP-09	Tan interior window caulk	<49
LBP-10	White painted exterior window caulk	<46
LBP-11	Brown painted exterior hand railing (wood substrate)	<47
LBP-12	Brown/green undercoat painted Roof cap flashing (metal substrate)	89
LBP-13	Grey exterior window caulk	<33

Applicable Regulations- LBP

The EPA and US Department of Housing and Urban Development (HUD) define LBP as paints containing greater than 0.5% by weight, which is equivalent to 5,000 ppm.

Federal OSHA and Nevada OSHA regulations (Lead Construction Standard) do not provide a definition for "lead-based paint," but refer to the EPA and HUD values discussed above. Nevada OSHA is primarily concerned with worker protection, and regulates any amount of lead contained within painted building components. A more complete regulatory overview is presented in Appendix G.

Recommendations- LBP

The 89 ppm lead concentration reported for the roof cap flashing is not considered to be LBP, and the low concentration is unlikely to cause exposure concerns to site workers. However, OSHA considers it to be lead-containing and therefore, removal of the deteriorated paint and/or the cap flashing should be conducted in accordance with OSHA regulations. There are two OSHA lead standards and they are summarized in Appendix G.

7 INTERVIEWS

Key Site Managers are contacted to obtain current and historical environmental information concerning the subject property. The "Key Site Manager" of the subject property is Mr. Matt Luis, Town of Pahrump Buildings & Grounds Manager.

7.1. INTERVIEW WITH OWNER REPRESENTATIVE

Kleinfelder conducted an interview with Matt Luis during the site reconnaissance portion of this Phase I ESA. Mr. Luis indicated that he had no knowledge of environmental concerns. He indicated the facility used propane and had two septic systems with leach fields. One, located to the north of the building and the second, located on the west side of the building.

Mr. Luis was subsequently asked about chemicals stored on site and a previous environmental cleanup noted in a User Questionnaire provided by the Client (Section 7.2). Mr. Luis indicated that only standard, over-the-counter cleaning supplies and paints were stored on the subject property. To his knowledge, no hazardous materials have been used or stored on the subject property. He also indicated that the previous environmental cleanup consisted of abatement of mold caused by water intrusion in the building.

7.2. INTERVIEW WITH CLIENT

The Pahrump Town Manager, Mr. William Kohbarger, was provided a User Questionnaire (included in Appendix C). According to the User Questionnaire, there are no known environmental cleanup liens or activity use limitations associated with the subject property. Mr. Kohbarger noted that he was not aware of any spills, but had knowledge of chemicals stored on site and of a previous environmental cleanup that occurred on the subject property. Mr. Luis (see Section 7.1) clarified information regarding the chemicals and environmental cleanup.

7.3. INTERVIEW WITH OTHERS

No others were interviewed.

8 EVALUATION

Kleinfelder performed this ESA of the subject property in conformance with the scope and limitations of ASTM Standard Practice E1527-05. The following sections describe Kleinfelder's findings and provide general background information about the site. Findings include RECs, historical RECs, and notation of deminimus quantities, as applicable to the subject property. Business environmental risk issues are discussed in Section 8.3, Deviations. In summary, Kleinfelder's assessment revealed the following information about the subject property:

8.1. BACKGROUND

The subject property is a single story structure, approximately 7,000 square feet in size, located at 150 N. Highway 160, in Pahrump, Nevada. The subject property is referred to as the Bob Ruud Community Center.

8.2. FINDINGS AND OPINIONS

An historical profile of the subject property was developed using information obtained during our review of regulatory databases and one or more of the following historical sources: aerial photographs, topographic maps, fire insurance maps, and street directories.

The subject property does not appear on any of the federal, state, and/or local environmental databases reviewed.

There were no *recognized environmental conditions* (REC, as defined in Section 2.1) noted for the subject property during the preparation of this Phase I ESA. However, the following conditions of potential environmental concern were noted:

- Poor best management practices were observed in the supply storage closet. Spilled floor seal/resin type material was observed.

- Surface stained soil was observed in the area where one of the two septic/leach fields areas is reportedly located.

There were no *historic recognized environmental conditions* (historic REC, as defined in Section 2.1) noted for the subject property during the preparation of this Phase I ESA.

8.3. DEVIATIONS AND ADDITIONAL SERVICES

The scope of work for this Phase I ESA included an LAS and an LBP survey:

Limited Asbestos Survey

Based on our observations and a review of the laboratory analytical reports, the following estimated quantities of suspect ACMs are confirmed to be present:

- An estimated 7,000 square feet of exterior roofing system consisting of multiple layers of asphaltic ply, black mastic, caulk and paint ranging between 1% to 20% chrysotile asbestos (Samples RF-ACM-003c through RF-ACM-009j) located on the roof (Area 1). The roofing material ACM was observed to be in good condition and is classified as Category I non-friable ACM. Removal would be considered Class II asbestos work.

- An estimated 100 square feet of beige resilient floor tile and yellow mastic ranging between 5% to 10% chrysotile asbestos (Samples SR-ACM-004d through SR-ACM-006f) located in the storage room (Area 2). The storage room resilient floor tile and yellow mastic ACM was observed to be in good condition and is classified as Category I non-friable ACM. Removal would be considered Class II asbestos work.

- An estimated 150 square feet of grey resilient floor tile and brown mastic ranging between 2% to 5% chrysotile asbestos (Samples ENT-ACM-004d through ENT-ACM-006f) located in the entryway (Area 3). The entryway resilient floor tile and brown mastic ACM was observed to be in good condition and is classified as Category I non-friable ACM. Removal would be considered Class II asbestos work.

LBP Survey

One paint chip sample (LBP-12), collected from roof cap flashing, contained a lead concentration of 89 ppm, or 0.0089 percent by weight. The 89 ppm lead concentration reported for the roof cap flashing is not considered to be LBP, and the low concentration is unlikely to cause exposure concerns to site workers. However, OSHA considers it to be lead-containing and therefore, removal of the deteriorated paint and/or the cap flashing should be conducted in accordance with OSHA regulations. There are two OSHA lead standards and they are summarized in Appendix G.

Other ASTM Standard non-scope considerations, such as radon, lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, and high voltage power lines.

8.4. CONCLUSIONS AND RECOMMENDATIONS

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527 on the subject property located at 150 North Highway 160, located in Pahrump Nevada and known as the Bob Ruud Community Center. Any exceptions to, or deviations from, this practice are described in Section 8.3 of this report. This assessment revealed no evidence of RECs in connection with the subject property. However, the following conditions of potential environmental concern were noted:

- Poor best management practices were observed in the supply storage closet. Spilled floor seal/resin type material was observed. Kleinfelder recommends that spills be cleaned and leaking containers be appropriately disposed.

- Surface stained soil was observed in the area where one of the two septic/leach fields areas is reportedly located. The Town of Pahrump should verify whether the surface staining is located above the septic/leach field and if so evaluate if the septic/leach field is functional.

Asbestos

The LAS revealed the presence of approximately 7,000 square feet of exterior roofing system ACM, 100 square feet of beige resilient floor tile and yellow mastic ACM, 150 square feet of grey resilient floor tile and brown mastic ACM. Since all ACM appears to be in good condition, it does not currently pose a hazard and need not be removed. If removal of the undamaged ACM is to occur in the future as part of renovation of the building, a State of Nevada asbestos contractor should be contracted to perform the work. Contractors performing work that disturbs ACM at the site should implement appropriate work practices in accordance with applicable Federal and Nevada worker exposure regulations.

If demolition is planned, all friable ACM's must be removed by a licensed asbestos abatement contractor prior to demolition activities. Non-friable ACM's that may become friable during demolition activities must also be removed prior to demolition. It is recommended that abatement plans and specifications be prepared by an AHERA accredited project designer who is independent of the abatement contractor. While non-friable ACM's may be removed by other than a licensed asbestos abatement contractor, it is recommended that all ACM's be removed by a licensed contractor prior to demolition activities. Non-friable ACM's should be handled, transported and disposed of in such a way as to prevent the material from becoming friable and potentially releasing asbestos fibers.

LBP

The LBP survey did not reveal the presence of LBP, but one paint chip sample collected from roof cap flashing contained a low lead concentration (89 ppm) identifying the presence of low concentration lead-containing paint. This paint is not considered to be LBP, and the low concentration is unlikely to cause exposure concerns to site workers. However, OSHA considers it to be lead-containing and therefore, removal of the deteriorated paint and/or the cap flashing should be conducted in accordance with OSHA regulations. There are two OSHA lead standards and they are summarized in Appendix G.

8.4.1. Data Gaps

Consistent with ASTM Standard Practice E 1527-05 (Section 12.7), no data failures (data gaps) have been identified.

9 REFERENCES

American Society for Testing and Materials (ASTM), 2005. *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process;* ASTM Designation E 1527-05, November 14, 2005.

dePolo, Craig M., Ramelli, Allan R., and Bell, John W, 1999. Preliminary Geologic Map of the Pahrump Quandrangle, Nye County, Nevada. Nevada Bureau of Mines and Geology Open-File Report 99-14 (revised 6-11-09).

Nye County Government, http://www.nyecounty.net

Town of Pahrump Wellhead Protection Plan, http://www.pahrumpnv.org/pahrump-nevada/documents/pahrump-wellhead-protection-plan/

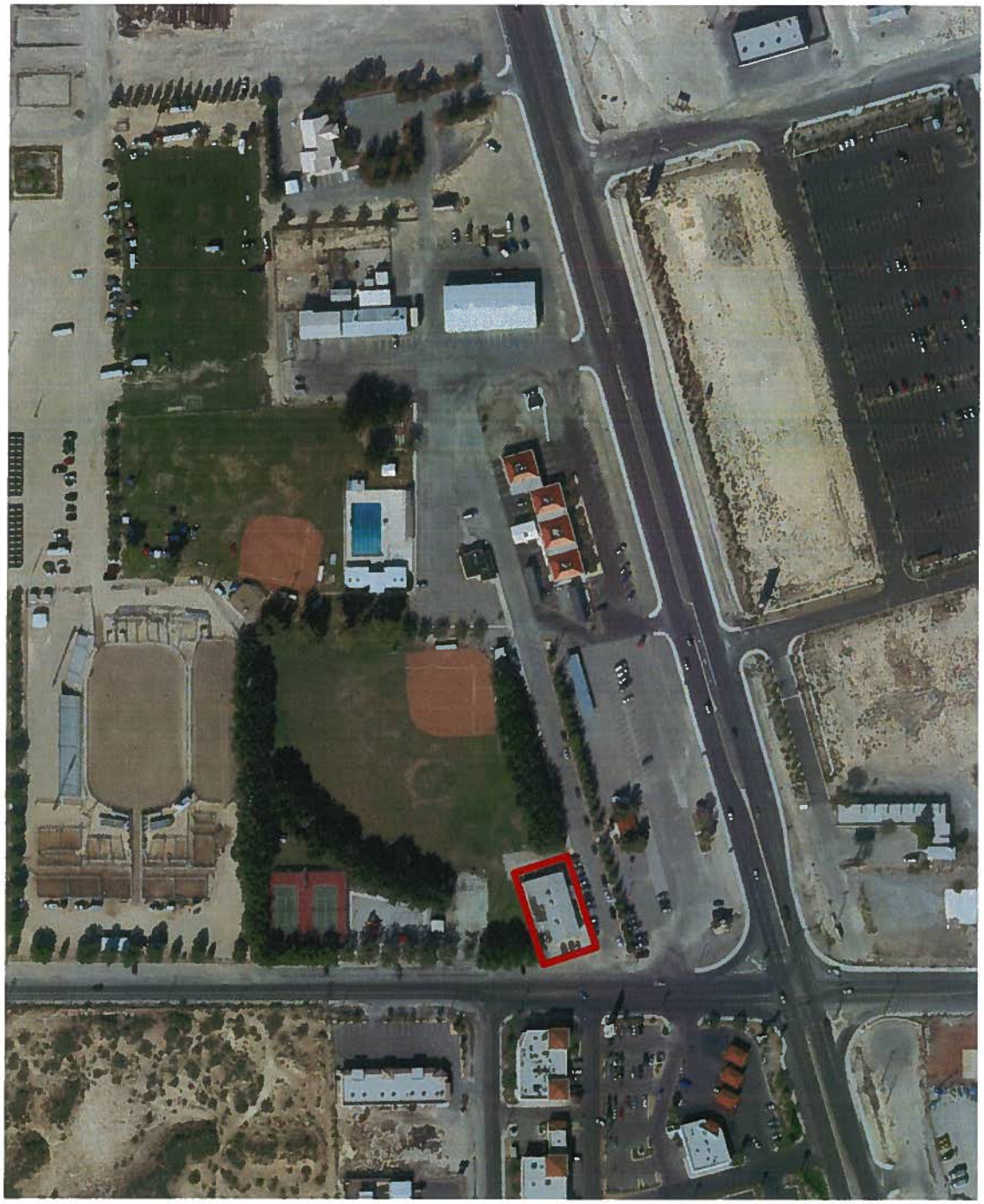
Track Info Services, Environmental FirstSearchTM, 2011.

United States Geologic Survey, Provisional Edition 1984. Pahrump Nev. Quadrangle, 7.5 Minute Series (Topographic).

United States Geologic Survey, 1958. Pahrump, Nev.-Calif. Quadrangle, 15 Minute Series (Topographic).

Additional sources are provided in Appendix D and also may be referenced separately in the report text.

PLATES



N

Subject Property Location

Map Source:
Nye County
Online Parcel Map

Original in Color

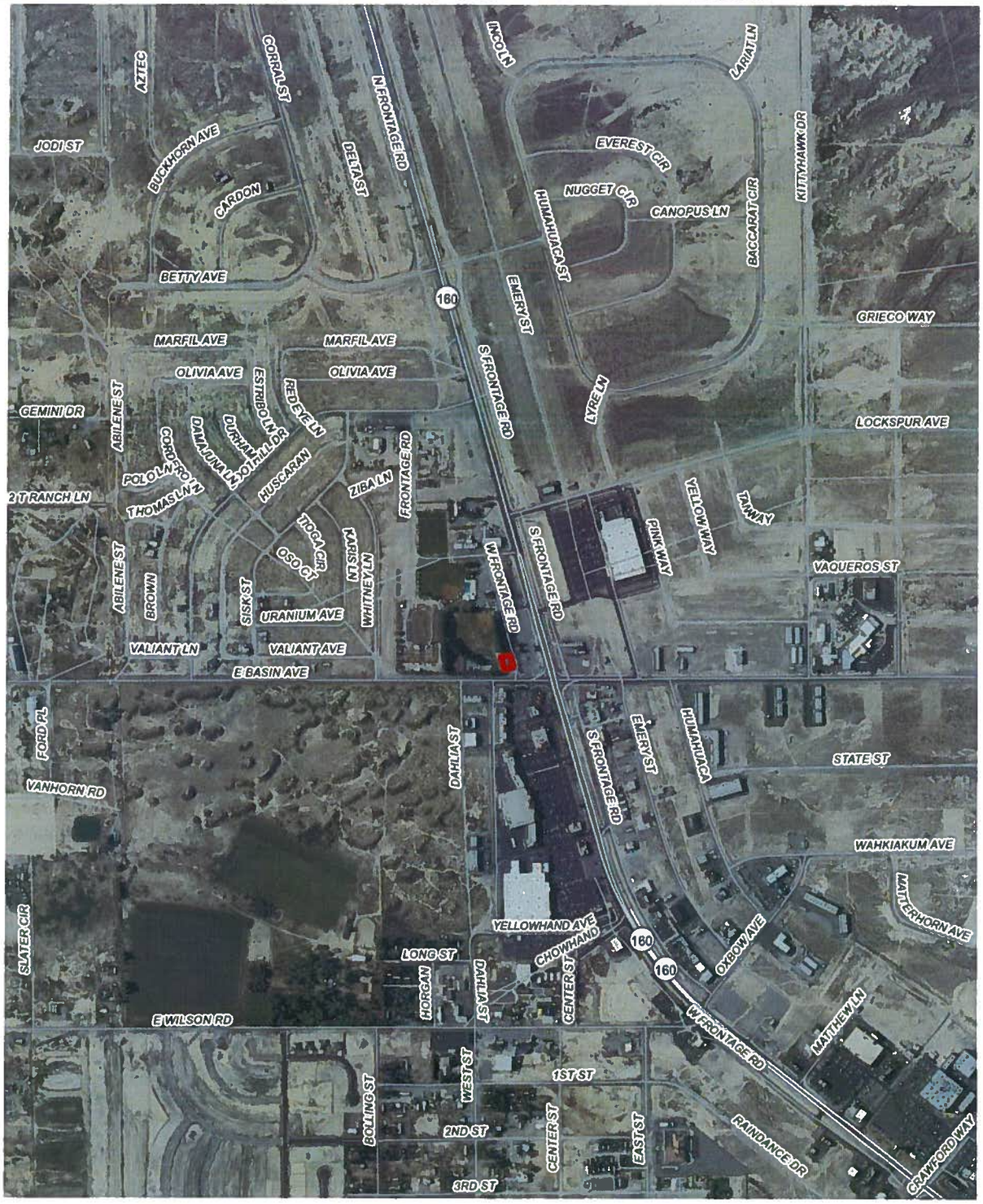
SUBJECT SITE AND VICINITY MAP

KLEINFELDER
6380 South Polaris Avenue
Las Vegas, Nevada 89118
Ph. (702) 736-2936 Fax. (702) 361-9094

Bob Ruud Community Center
150 North Highway 160
Pahrump, Nye County, Nevada

PLATE
1

Drawn by: PJT	Checked by: JPF	Date: 06-14-11	PROJECT NO.: 117801.01



Map Source:
The U.S. National Map

Subject Property

Original in Color

AERIAL VIEW OF SUBJECT SITE

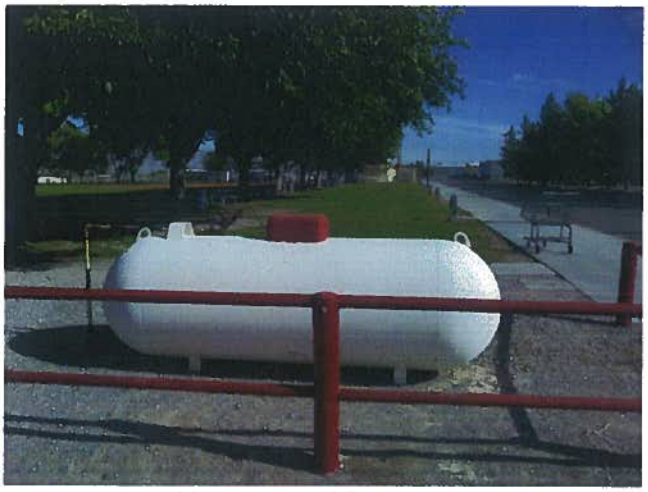
KLEINFELDER
6380 South Polaris Avenue
Las Vegas, Nevada 89118
Ph. (702) 736-2936 Fax. (702) 361-9094

Bob Ruud Community Center
150 North Highway 160
Pahrump, Nye County, Nevada

PLATE
2

Drawn by: PJT	Checked by: JPF	Date: 06-14-11	PROJECT NO.: 117801.01

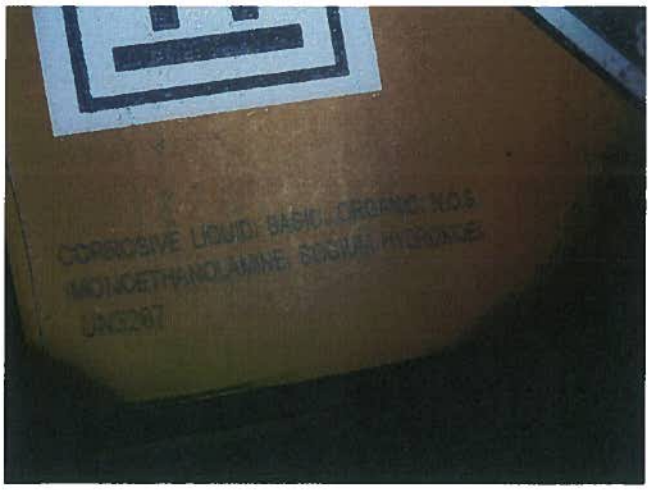
Bob Ruud Community Center



Above ground Propane tank

Stained surface – in area of reported septic tank (near propane tank)

Storage/supply closet



Corrosive liquid in storage /supply closet

Portion of building with containment (mold remediation)

Original in Color

KLEINFELDER
6380 South Polaris Avenue
Las Vegas, Nevada 89118
Ph. (702) 736-2936 Fax. (702) 361-9094

SITE PHOTOGRAPHS

Bob Ruud Community Center
150 North Highway 160
Pahrump, Nye County, Nevada

PLATE **3**

Drawn by: DCB	Checked by: PJT	Date: 06/15/11	PROJECT NO.: 117801.01

Adjacent property – shopping center with Rebel Oil Fuel Station

Adjacent property – park complex

Adjacent property – park complex

Adjacent property, access road to park complex

Interior of Community Center

Interior of Community Center

Original in Color

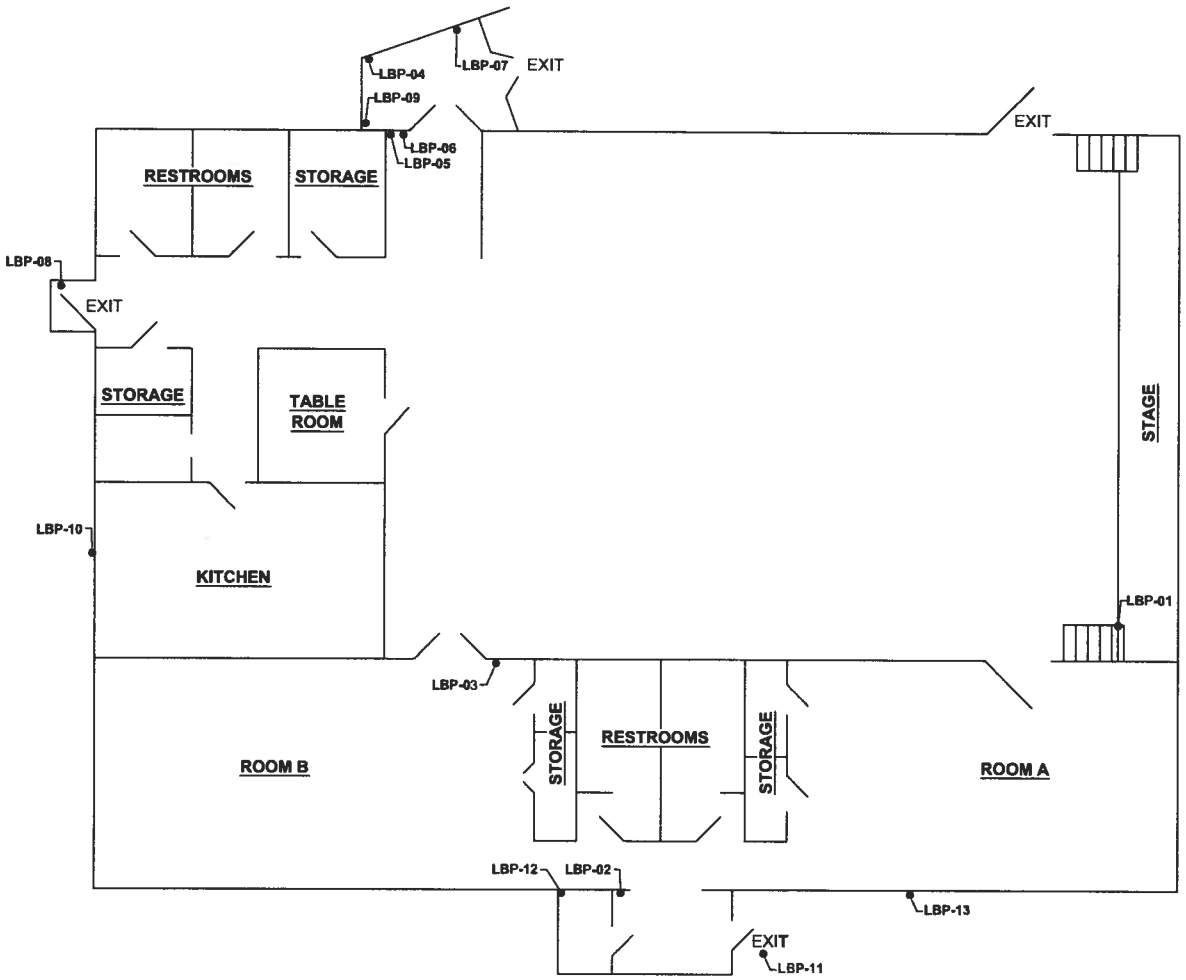
KLEINFELDER
6380 South Polaris Avenue
Las Vegas, Nevada 89118
Ph. (702) 736-2936 Fax. (702) 361-9094

SITE PHOTOGRAPHS

Bob Ruud Community Center
150 North Highway 160
Pahrump, Nye County, Nevada

PLATE
4

Drawn by: DCB	Checked by: PJT	Date: 06/15/11	PROJECT NO.: 117801.01



Sample Number	Description/Location
LBP-01	Blue; Interior Stage Handrail
LBP-02	White; Interior Wallboard
LBP-03	White; Interior 16" x 8" CMU Wall
LBP-04	White; Interior 16" x 3¼" Brick Wall
LBP-05	Tan; Exterior Roof Flashing
LBP-06	Brown; Exterior Roof Flashing/Trim
LBP-07	Tan; Exterior Block Wall
LBP-08	Blue; Exterior Steep/Stairs
LBP-09	Tan; Interior Window Caulk
LBP-10	White; Exterior Window Caulk
LBP-11	Brown; Exterior Wood Railing
LBP-12	Brown/Green; Roof Cap Flashing
LBP-13	Gray; Exterior Window Caulk

EAST BASIN AVENUE

Note: Figure obtained from posted emergency exit map.

LEGEND

LBP-01 - APPROXIMATE SAMPLE LOCATION

KLEINFELDER
Bright People. Right Solutions.
www.kleinfelder.com

8380 SOUTH POLARIS AVE.
LAS VEGAS, NV 89116
(P) 702-736-2935 (F) 702-361-6094

PROJECT NO.	117801.01
DRAWN:	6/23/2011
DRAWN BY:	DFR
CHECKED BY:	DB

Sample Location Map
Lead Based Paint

Bob Rudd Community Center

150 North Highway 160
Pahrump, Nye County, Nevada

FIGURE
5

APPENDIX A

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

KLEINFELDER
Bright People. Right Solutions.

STATEMENT OF QUALIFICATIONS

I declare that to the best of my [our] professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in CFR Part 312.

Daniel C. Burns, CEM
Project Geologist

Phil J. Tousignant, CEM
Environmental Scientist

Joshua P. Fortmann, CEM
Project Manager

Employee Bios:

Daniel C. Burns, CEM

BS, Geology. University of Southern Colorado, Colorado, 1985
BS, Civil Engineering-Technology. Metropolitan State College of Denver, Colorado, 1989
Certified Environmental Manager (C.E.M.), No. 1692, NDEP, NV

Since 1989, Mr. Burns has conducted geologic engineering/environmental investigations for hazardous and non-hazardous wastes for commercial, municipal, public utilities, and DOD (USAF & USMC) projects in Arizona, California, Hawaii and Nevada. The projects involved exploration drilling, soil and groundwater sampling, monitor well installation and development, analytical laboratory analysis, underground storage tank removal, remediation, and final report preparation. He has provided remediation construction management oversight services for commercial development, shipping and transportation projects. The projects included preparation, submittal, review, and approvals of soils and groundwater management plans, contractor specifications, in addition to contractor oversight. He has conducted Property Condition Evaluations for residential and commercial properties, including Property Condition Assessments, Phase I Environmental Site Assessments, clandestine lab substance residue testing, asbestos evaluations for renovations and/or demolition projects, and lead-based paint sampling and assessments for OSHA Worker safety compliance.

Phil J. Tousignant, CEM

BS, Biology, University of Nevada, Reno, Nevada, 2000
Certified Environmental Manager (C.E.M.), No. 2001, NDEP, NV

Mr. Tousignant has 10 years of experience working in environmental, geotechnical, and biological fields. His project experience includes a broad spectrum of disciplines, including environmental and geotechnical drilling, soil and groundwater sampling, soil and groundwater remediation, Phase I/Phase II site assessments, borehole logging, and monitoring well installation.

Joshua P. Fortmann, CEM

BS, Geology. University of Nevada, Reno, Nevada, 1993
Certified Environmental Manager (C.E.M.), No.1730, NDEP, NV

Mr. Fortmann has over 15 years of experience and has a broad range of expertise in drinking water, surface water, groundwater, and surface and subsurface soils sampling for environmental testing. He is experienced with Phase I and II site assessments, and materials testing procedures. He has prepared ESA reports, groundwater, air and soils monitoring reports, and is familiar with permitting for soil disposal and well drilling. With a strong educational background in geology and four year's experience, he is familiar with field sampling/testing of soils, concrete and asphalt. He has provided testing and field services for construction of underground storage tank fuel systems, roadways, parking lots, commercial and federal buildings, and curbs, gutters and sidewalks.

APPENDIX B

FirstSearch RADIUS MAP REPORT

TRACK ➤ INFO SERVICES, LLC

Environmental FirstSearch™ Report

Target Property: BOB RUUD COMMUNITY CENTER

150 NORTH HIGHWAY 160

PAHRUMP NV 89048

Job Number: 117801.01

PREPARED FOR:

Kleinfelder

6380 South Polaris Ave

Las Vegas, NV 89118

06-02-11

Tel: (866) 664-9981 *Fax: (818) 249-4227*

Environmental FirstSearch
Search Summary Report

Target Site: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	04-01-11	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	04-01-11	0.50	0	0	0	0	-	0	0
CERCLIS	Y	03-31-11	0.50	0	0	0	0	-	0	0
NFRAP	Y	03-31-11	0.50	0	0	0	0	-	0	0
RCRA COR ACT	Y	03-10-11	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	03-10-11	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	03-10-11	0.25	0	0	1	-	-	0	1
RCRA NLR	Y	03-10-11	0.12	0	0	-	-	-	0	0
Federal Brownfield	Y	05-04-11	0.50	0	0	0	0	-	3	3
ERNS	Y	04-18-11	0.12	0	0	-	-	-	0	0
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	0	0
State/Tribal Sites	Y	04-28-11	1.00	0	0	0	0	1	5	6
State Spills 90	Y	01-06-11	0.12	0	0	-	-	-	0	0
State/Tribal SWL	Y	05-19-11	0.50	0	0	0	0	-	0	0
State/Tribal LUST	Y	04-28-11	0.50	0	0	0	2	-	0	2
State/Tribal UST/AST	Y	04-28-11	0.25	0	1	0	-	-	0	1
State/Tribal EC	Y	NA	0.50	0	0	0	0	-	0	0
State/Tribal IC	Y	NA	0.25	0	0	0	-	-	0	0
State/Tribal VCP	Y	NA	0.50	0	0	0	0	-	0	0
State/Tribal Brownfields	Y	04-28-11	0.50	0	0	0	0	-	0	0
Releases	Y	04-18-11	0.12	0	0	-	-	-	0	0
Coal Gasification	Y	12-31-05	0.25	0	0	0	-	-	0	0
FI Map Coverage	Y	04-22-10	0.12	0	0	-	-	-	0	0
Federal IC/EC	Y	05-16-11	0.50	0	0	0	0	-	0	0
Dry Cleaners	Y	NA	0.25	0	0	0	-	-	0	0
Meth Labs	Y	10-21-10	0.12	0	0	-	-	-	0	0
Vapor Intrusion	Y	03-06-08	0.25	0	0	0	-	-	0	0
- TOTALS -				0	1	1	2	1	8	13

Environmental FirstSearch
Site Information Report

Request Date:	06-02-11	**Search Type:**	COORD
Requestor Name:	dan burns	**Job Number:**	117801.01
Standard:	AAI	**Filtered Report**	

Target Site: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

Demographics

Sites:	13	**Non-Geocoded:**	8	**Population:**	NA
Radon:	NA				

Site Location

	Degrees (Decimal)	**Degrees (Min/Sec)**		**UTMs**
Longitude:	-115.994918	-115:59:42	**Easting:**	590337.785
Latitude:	36.219275	36:13:9	**Northing:**	4008536.827
Elevation:	2634		**Zone:**	11

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)

ZIP Code	City Name	ST	Dist/Dir	Sel
89060	PAHRUMP	NV	0.02 NE	Y

Services:

	Requested?	Date
Fire Insurance Maps	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search/Env Liens	No	
Municipal Reports	No	
Online Topos	Yes	06-02-11

Environmental FirstSearch
Sites Summary Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

TOTAL: 13 **GEOCODED:** 5 **NON GEOCODED:** 8 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
1	UST	REBEL OIL CO 78 7-000775/REGISTERED UST	40 S HWY 160 PAHRUMP NV 89048	0.09 SE	+ 8	2
2	RCRAGN	HOME DEPOT USA HD3322 NVR000083584/SGN	301 NORTH HIGHWAY 160 PAHRUMP NV 89060	0.13 NW	- 2	5
3	LUST	NYE COUNTY MAINTENANCE YARD 7-000761/CLOSED	HIGHWAY 160 AND BOOTHILL DR PAHRUMP NV	0.44 NW	- 9	6
4	LUST	PREFERRED EQUITIES 7-000126/CLOSED	220 HIGHWAY 160 AND 372 PAHRUMP NV	0.47 SE	+ 20	6
5	STATE	D AND M PARTNERS G-000941/CLOSED	370 GEMINI PAHRUMP NV 89048	0.75 NW	- 26	7

Environmental FirstSearch
Sites Summary Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

TOTAL: 13 **GEOCODED:** 5 **NON GEOCODED:** 8 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	FEDBF	3761 NORTH STEPHANIE STREET, P 81341/EPA BROWNFIELD	3761 N STEPHANIE ST PAHRUMP NV 89060	NON GC	N/A	9
	FEDBF	PAHRUMP PROPERTY 12041/EPA BROWNFIELD	2 FRONTAGE RD S PAHRUMP NV 89048	NON GC	N/A	14
	FEDBF	CALVADA EYE 12044/EPA BROWNFIELD	2 FRONTAGE RD S PAHRUMP NV 89048	NON GC	N/A	16
	STATE	VALLEY ELECTRIC G-000672/CLOSED	PAHRUMP PAHRUMP NV	NON GC	N/A	18
	STATE	PAHRUMP WASTE OIL G-001200/CLOSED	EAST LAS CASITAS PAHRUMP NV 89048	NON GC	N/A	19
	STATE	CONCORDIA HOMES OF NEVADA, INC G-000030/CLOSED	2630 EAST BRIDGER STREET PAHRUMP NV 89048	NON GC	N/A	20
	STATE	BOWMAN AND SONS PRINTING G-000589/CLOSED	UNKNOWN PAHRUMP NV	NON GC	N/A	21
	STATE	BIG HORN CONDOMINIUMS G-000005/CLOSED	UNKNOWN PAHRUMP NV	NON GC	N/A	22

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

UST

SEARCH ID: 3 **DIST/DIR:** 0.09 SE **ELEVATION:** 2642 **MAP ID:** 1

NAME: REBEL OIL CO 78
ADDRESS: 40 S HWY 160
PAHRUMP NV 89048

CONTACT: REBEL OIL CO INC
SOURCE: NV DOC

REV: 04/28/11
ID1: 7-000775
ID2:
STATUS: REGISTERED UST
PHONE:

OWNER: *Rebel Oil Co Inc*
OWNER ADDRESS: *2200 S. Highland Dr, Las Vegas, NV 89102*
ASSOCIATED FACILITY: *Rebel Oil Co 78*

TANK ID: *1*
DATE INSTALLED: *11/1/1998*
FEDERALLY REGULATED TANK? YES OR NO: *Yes*
AST? YES OR NO: *No*
TANK STATUS: *Currently in Use*
TANK CAPACITY: *12000*

TANK MATERIAL: *Composite (Steel w/ FRP)*
SUBSTANCE DESCRIPTION: *Gasoline*
PIPE MATERIAL: *Fiberglass Reinforced Plastic*

TANK MODIFICATIONS DESCRIPTION:
Double-Walled

PIPE MODIFICATION DESCRIPTION:
Double-Walled

TANK ID: *2*
DATE INSTALLED: *11/1/1998*
FEDERALLY REGULATED TANK? YES OR NO: *Yes*
AST? YES OR NO: *No*
TANK STATUS: *Currently in Use*
TANK CAPACITY: *12000*

TANK MATERIAL: *Composite (Steel w/ FRP)*
SUBSTANCE DESCRIPTION: *Gasoline*
PIPE MATERIAL: *Fiberglass Reinforced Plastic*

TANK MODIFICATIONS DESCRIPTION:
Double-Walled

PIPE MODIFICATION DESCRIPTION:
Double-Walled

TANK ID: *3*
DATE INSTALLED: *11/1/1998*
FEDERALLY REGULATED TANK? YES OR NO: *Yes*
AST? YES OR NO: *No*
TANK STATUS: *Currently in Use*
TANK CAPACITY: *6000*

TANK MATERIAL: *Composite (Steel w/ FRP)*

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

UST

SEARCH ID: 3 **DIST/DIR:** 0.09 SE **ELEVATION:** 2642 **MAP ID:** 1

NAME: REBEL OIL CO 78
ADDRESS: 40 S HWY 160
PAHRUMP NV 89048

CONTACT: REBEL OIL CO INC
SOURCE: NV DOC

REV: 04/28/11
ID1: 7-000775
ID2:
STATUS: REGISTERED UST
PHONE:

SUBSTANCE DESCRIPTION: *Gasoline*
PIPE MATERIAL: *Fiberglass Reinforced Plastic*

TANK MODIFICATIONS DESCRIPTION:
Double-Walled

PIPE MODIFICATION DESCRIPTION:
Double-Walled

TANK ID: *4*
DATE INSTALLED: *11/1/1998*
FEDERALLY REGULATED TANK? YES OR NO: *Yes*
AST? YES OR NO: *No*
TANK STATUS: *Currently in Use*
TANK CAPACITY: *6000*

TANK MATERIAL: *Composite (Steel w/ FRP)*
SUBSTANCE DESCRIPTION: *Diesel*
PIPE MATERIAL: *Fiberglass Reinforced Plastic*

TANK MODIFICATIONS DESCRIPTION:
Double-Walled

PIPE MODIFICATION DESCRIPTION:
Double-Walled

TANK ID: *5*
DATE INSTALLED: *11/1/1998*
FEDERALLY REGULATED TANK? YES OR NO: *Yes*
AST? YES OR NO: *No*
TANK STATUS: *Currently in Use*
TANK CAPACITY: *8000*

TANK MATERIAL: *Composite (Steel w/ FRP)*
SUBSTANCE DESCRIPTION: *Gasoline*
PIPE MATERIAL: *Fiberglass Reinforced Plastic*

TANK MODIFICATIONS DESCRIPTION:
Double-Walled

PIPE MODIFICATION DESCRIPTION:
Double-Walled

TANK ID: *6*
DATE INSTALLED: *11/1/1998*
FEDERALLY REGULATED TANK? YES OR NO: *Yes*
AST? YES OR NO: *No*

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

UST

SEARCH ID: 3 **DIST/DIR:** 0.09 SE **ELEVATION:** 2642 **MAP ID:** 1

NAME: REBEL OIL CO 78
ADDRESS: 40 S HWY 160
PAHRUMP NV 89048

CONTACT: REBEL OIL CO INC
SOURCE: NV DOC

REV: 04/28/11
ID1: 7-000775
ID2:
STATUS: REGISTERED UST
PHONE:

TANK STATUS: *Currently in Use*
TANK CAPACITY: *4000*

TANK MATERIAL: *Composite (Steel w/ FRP)*
SUBSTANCE DESCRIPTION: *Gasoline*
PIPE MATERIAL: *Fiberglass Reinforced Plastic*

TANK MODIFICATIONS DESCRIPTION:
Double-Walled

PIPE MODIFICATION DESCRIPTION:
Double-Walled

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

RCRAGN

SEARCH ID: 1 **DIST/DIR:** 0.13 NW **ELEVATION:** 2632 **MAP ID:** 2

NAME: HOME DEPOT USA HD3322
ADDRESS: 301 NORTH HIGHWAY 160
PAHRUMP NV 89060
NYE
CONTACT:
SOURCE: EPA

REV: 3/10/11
ID1: NVR000083584
ID2:
STATUS: SGN
PHONE:

SITE INFORMATION

CONTACT INFORMATION: ROSA L WHIPPLE
1905 ASTON AVE STE 100
CARLSBAD CA 92008

PHONE: 800-451-8346 8842

UNIVERSE INFORMATION:

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000
KG/MONTH OF HAZARDOUS WASTE

SUBJECT TO CORRECTIVE ACTION (SUBJCA)

SUBJCA: N - NO
SUBJCA TSD 3004: N - NO
SUBJCA NON TSD: N - NO
SIGNIFICANT NON-COMPLIANCE(SNC):
BEGINNING OF THE YEAR SNC:
PERMIT WORKLOAD: -----
CLOSURE WORKLOAD: -----
POST CLOSURE WORKLOAD: -----
PERMITTING /CLOSURE/POST-CLOSURE PROGRESS: -----
CORRECTIVE ACTION WORKLOAD: N - NO
GENERATOR STATUS: SQG - SMALL QUANTITY GENERATOR: GENERATES 100 - 1000
KG/MONTH OF HAZARDOUS WASTE

INSTITUTIONAL CONTROL: N
HUMAN EXPOSURE: N
GW CONTROLS: N
LAND TYPE: P

NAIC INFORMATION

44411 - HOME CENTERS

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

RCRAGN

SEARCH ID: 1 **DIST/DIR:** 0.13 NW **ELEVATION:** 2632 **MAP ID:** 2

NAME: HOME DEPOT USA HD3322
ADDRESS: 301 NORTH HIGHWAY 160
PAHRUMP NV 89060
NYE
CONTACT:
SOURCE: EPA

REV: 3/10/11
ID1: NVR000083584
ID2:
STATUS: SGN
PHONE:

VIOLATION INFORMATION:

HAZARDOUS WASTE INFORMATION:

D001 - IGNITABLE WASTE
D002 - CORROSIVE WASTE
D009 - MERCURY
D016 - 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)
D018 - BENZENE
D035 - METHYL ETHYL KETONE

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

LUST

SEARCH ID: 4 **DIST/DIR:** 0.44 NW **ELEVATION:** 2625 **MAP ID:** 3

NAME: NYE COUNTY MAINTENANCE YARD
ADDRESS: HIGHWAY 160 AND BOOTHILL DRIVE
PAHRUMP NV

CONTACT:
SOURCE: NV DOC

REV: 04/30/05
ID1: 7-000761
ID2:
STATUS: CLOSED
PHONE:

RELEASE INFORMATION
Date Release Reported to NDEP: *10/23/1998*
Type of Event: *CLOSED*
Type of Media Impacted: *Soil*
Substance Released: *Diesel*
CLOSED CASE INFORMATION
Closure Date: *03/18/1999*
Closure Type: *NAC 459 A-K*
AGENCY TRACKING INFORMATION
Program:
NDEP Case Officer: *arushana*
Location of Paper File: *NDEP: Las Vegas*

LUST

SEARCH ID: 5 **DIST/DIR:** 0.47 SE **ELEVATION:** 2654 **MAP ID:** 4

NAME: PREFERRED EQUITIES
ADDRESS: 220 HIGHWAY 160 AND 372
PAHRUMP NV

CONTACT:
SOURCE: NV DOC

REV: 04/30/05
ID1: 7-000126
ID2:
STATUS: CLOSED
PHONE:

RELEASE INFORMATION
Date Release Reported to NDEP:
Type of Event: *CLOSED*
Type of Media Impacted: *No Impact/Clean Close*
Substance Released:
CLOSED CASE INFORMATION
Closure Date: *08/30/1996*
Closure Type: *Clean Close*
AGENCY TRACKING INFORMATION
Program:
NDEP Case Officer: *bstulac*
Location of Paper File: *NDEP: Carson City*

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

STATE

SEARCH ID: 2 **DIST/DIR:** 0.75 NW **ELEVATION:** 2608 **MAP ID:** 5

NAME: D AND M PARTNERS
ADDRESS: 370 GEMINI
PAHRUMP NV 89048

CONTACT:
SOURCE: NV DOC

REV: 07/06/00
ID1: G-000941
ID2:
STATUS: CLOSED
PHONE:

NEVADA STATE CORRECTIVE ACTIONS RELEASE INFORMATION

Discrete Releases at Facility:
Date Release Reported to NDEP: *02/09/1995*
Type of Media Impacted: *Soil*
Description of Contaminant: *Other Cyanide*

Date of Last Action:
Last Action Agency Memo:

Date of Next Action:
Next Action Memo:
Date of Closure: *06/12/1996*
Regulatory Type of Closure: *Invest Closed*

RESPONSIBLE PARTY INFORMATION (if available)

Responsible Party Name:
Responsible Party Company:
Responsible Party Address:

AGENCY TRACKING INFORMATION

NDEP Case Officer: *dnarala*
Location of Paper File: *NDEP: Las Vegas*
Company of Nevada Certified Manager Conducting Cleanup:
Phone Number of Certified Manager Conduction Cleanup:
Name of Certified Manager Conducting Cleanup:
Address of Certified Manager Conducting Cleanup: ,
Last Modification of the Discrete Activity: *6/20/2002*
Last NDEP User to Modify a Discrete Activity: *SHARBOUR*

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

FEDBF

SEARCH ID: 13 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: 3761 NORTH STEPHANIE STREET, PAHRUMP
ADDRESS: 3761 N STEPHANIE ST
PAHRUMP NV 89060

CONTACT: NYE COUNTY SHERIFF
SOURCE: EPA

REV: 5/4/11
ID1: 81341
ID2: 81341
STATUS: EPA BROWNFIELD
PHONE:

SITE INFORMATION:

GRANT RECIPIENT: NYE COUNTY
TYPE OF GRANT: ASSESSMENT
TYPE OF FUNDING: H
ENROLLED IN STATE/TRIBAL PROG:
STATE OR TRIBAL ID:
ENROLLED DATE:
ACRES PROP ID: 81341
LOCAL PROPERTY NUMBER: 028-251-18
PROPERTY SIZE acres: 5
CLEANUP REQUIRED: N
NFA/CLEANUP COMPL ISSUED:

OWNERSHIP ENTITY: GOVERNMENT
CURRENT OWNER: NYE COUNTY SHERIFF
DID OWNERSHIP CHANGE: N
SUPERFUND LANDOWNER LIABILITY CHANGE:
PROPERTY DESCRIPTION: The site is currently vacant residential land. An abandoned mobile home trailer is located on the site and has been present since sometime after 1994. Prior to 1994, the site was vacant and undeveloped. The property is currently owned by the Nye County Sheriff. Information provided indicates that previous tenants used the property for the manufacture of methamphetamine.

GRANT RECIPIENT: NYE COUNTY
TYPE OF GRANT: ASSESSMENT
TYPE OF FUNDING: H
ENROLLED IN STATE/TRIBAL PROG:
STATE OR TRIBAL ID:
ENROLLED DATE:
ACRES PROP ID: 81341
LOCAL PROPERTY NUMBER: 028-251-18
PROPERTY SIZE acres: 5
CLEANUP REQUIRED: N
NFA/CLEANUP COMPL ISSUED:

OWNERSHIP ENTITY: GOVERNMENT
CURRENT OWNER: NYE COUNTY SHERIFF
DID OWNERSHIP CHANGE: N
SUPERFUND LANDOWNER LIABILITY CHANGE:
PROPERTY DESCRIPTION: The site is currently vacant residential land. An abandoned mobile home trailer is located on the site and has been present since sometime after 1994. Prior to 1994, the site was vacant and undeveloped. The property is currently owned by the Nye County Sheriff. Information provided indicates that previous tenants used the property for the manufacture of methamphetamine.

GRANT RECIPIENT: NYE COUNTY
TYPE OF GRANT: ASSESSMENT
TYPE OF FUNDING: H
ENROLLED IN STATE/TRIBAL PROG:
STATE OR TRIBAL ID:
ENROLLED DATE:
ACRES PROP ID: 81341
LOCAL PROPERTY NUMBER: 028-251-18
PROPERTY SIZE acres: 5

- Continued on next page -

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

FEDBF

SEARCH ID: 13 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: 3761 NORTH STEPHANIE STREET, PAHRUMP
ADDRESS: 3761 N STEPHANIE ST
PAHRUMP NV 89060

CONTACT: NYE COUNTY SHERIFF
SOURCE: EPA

REV: 5/4/11
ID1: 81341
ID2: 81341
STATUS: EPA BROWNFIELD
PHONE:

CLEANUP REQUIRED: N
NFA/CLEANUP COMPL ISSUED:

OWNERSHIP ENTITY: GOVERNMENT
CURRENT OWNER: NYE COUNTY SHERIFF
DID OWNERSHIP CHANGE: N
SUPERFUND LANDOWNER LIABILITY CHANGE:
PROPERTY DESCRIPTION: The site is currently vacant residential land. An abandoned mobile home trailer is located on the site and has been present since sometime after 1994. Prior to 1994, the site was vacant and undeveloped. The property is currently owned by the Nye County Sheriff. Information provided indicates that previous tenants used the property for the manufacture of methamphetamine.

PREDOMINANT PAST USE (ACRES)
GREEN SPACE:
COMMERCAIL:
RESIDENTIAL: 5
INDUSTRIAL:

ASSESSMENT
PHASE: PHASE II ENVIRONMENTAL ASSESSMENT
START DATE: 17-OCT-08
COMPLETION DATE: 22-JAN-09
SOURCE OF FUNDING: US EPA - BROWNFIELDS
ASSESSMENT COOPERATIVE AGREEMENT
ENTIRY PROVIDING FUNDS:
AMOUNT OF FUNDING: 13798

CONTAMINANT FOUND
PETROLEUM:
ASBESTOS:
VOCs:
OTHER METALS:
OTHER: Y
CONTROLLED SUBSTANCES:
PCBs:
LEAD:
PAHs:
OTHER DESCRIPTION: METHAMPHETAMINE - CONCENTRATION DETECTED WAS BELOW THE CLEAN-UP THRESHOLD

PREDOMINANT PAST USE (ACRES)
GREEN SPACE:
COMMERCAIL:
RESIDENTIAL: 5
INDUSTRIAL:

ASSESSMENT
PHASE: PHASE I ENVIRONMENTAL ASSESSMENT
START DATE: 09-JAN-08
COMPLETION DATE: 27-MAY-08
SOURCE OF FUNDING: US EPA - BROWNFIELDS
ASSESSMENT COOPERATIVE AGREEMENT
ENTIRY PROVIDING FUNDS: EPA
AMOUNT OF FUNDING: 4589.25

CONTAMINANT FOUND
PETROLEUM:
ASBESTOS:
VOCs:
OTHER METALS:
OTHER: Y
CONTROLLED SUBSTANCES:
PCBs:
LEAD:
PAHs:
OTHER DESCRIPTION: METHAMPHETAMINE - CONCENTRATION DETECTED WAS BELOW THE CLEAN-UP THRESHOLD

PREDOMINANT PAST USE (ACRES)
GREEN SPACE:
COMMERCAIL:
RESIDENTIAL: 5
INDUSTRIAL:

- Continued on next page -

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

FEDBF

SEARCH ID: 13 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: 3761 NORTH STEPHANIE STREET, PAHRUMP
ADDRESS: 3761 N STEPHANIE ST
PAHRUMP NV 89060

CONTACT: NYE COUNTY SHERIFF
SOURCE: EPA

REV: 5/4/11
ID1: 81341
ID2: 81341
STATUS: EPA BROWNFIELD
PHONE:

ASSESSMENT
PHASE:
COMPLETION DATE:
ENTIRY PROVIDING FUNDS:
START DATE:
SOURCE OF FUNDING:
AMOUNT OF FUNDING:

CONTAMINANT FOUND
PETROLEUM:
ASBESTOS:
VOCs:
OTHER METALS:
OTHER: Y
OTHER DESCRIPTION: METHAMPHETAMINE - CONCENTRATION DETECTED WAS BELOW THE CLEAN-UP THRESHOLD
CONTROLLED SUBSTANCES:
PCBs:
LEAD:
PAHs:

CONTAMINATION CLEANED UP
PETROLEUM:
ASBESTOS:
VOCs:
OTHER METALS:
OTHER:
OTHER DESCRIPTION:
CONTROLLED SUBSTANCES:
PCBs:
LEAD:
PAHs:

MEDIA AFFECTED
SOIL:
SURFACE WATER:
DRINKING WATER:
NO MEDIA: Y
AIR:
GROUND WATER:
SEDIMENTS:
UNKNOWN:

MEDIA CLEANED:
SOIL:
SURFACE WATER:
DRINKING WATER:
AIR:
GROUND WATER:
SEDIMENTS:

CONTAMINATION CLEANED UP
PETROLEUM:
ASBESTOS:
VOCs:
OTHER METALS:
OTHER:
OTHER DESCRIPTION:
CONTROLLED SUBSTANCES:
PCBs:
LEAD:
PAHs:

MEDIA AFFECTED
SOIL:
SURFACE WATER:
DRINKING WATER:
NO MEDIA: Y
AIR:
GROUND WATER:
SEDIMENTS:
UNKNOWN:

MEDIA CLEANED:
SOIL:
AIR:

- Continued on next page -

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

FEDBF

SEARCH ID: 13 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: 3761 NORTH STEPHANIE STREET, PAHRUMP
ADDRESS: 3761 N STEPHANIE ST
PAHRUMP NV 89060

CONTACT: NYE COUNTY SHERIFF
SOURCE: EPA

REV: 5/4/11
ID1: 81341
ID2: 81341
STATUS: EPA BROWNFIELD
PHONE:

SURFACE WATER:
DRINKING WATER:
GROUND WATER:
SEDIMENTS:

CONTAMINATION CLEANED UP
PETROLEUM:
ASBESTOS:
VOCs:
OTHER METALS:
OTHER:
OTHER DESCRIPTION:
CONTROLLED SUBSTANCES:
PCBs:
LEAD:
PAHs:

MEDIA AFFECTED
SOIL:
SURFACE WATER:
DRINKING WATER:
NO MEDIA: Y
AIR:
GROUND WATER:
SEDIMENTS:
UNKNOWN:

MEDIA CLEANED:
SOIL:
SURFACE WATER:
DRINKING WATER:
AIR:
GROUND WATER:
SEDIMENTS:

INSTITUTIONAL CONTROL INFORMATION (IC)
IC REQUIRED: Y
INFORMATIONAL DEVICES:
ENFORCEMENT/PERMIT TOOLS:
DATE IC IN PLACE: 26-MAY-09
PROPERTY CONTROLS:
GOVERNMENTAL CONTROLS: Y
IC IN PLACE: Y

CLEANUP START DATE:
ACRES CLEANED UP:
PROVIDING CLEANUP FUNDS:
REDEVELOP START:
CLEANUP COMPLETION:
CLEANUP FUNDING SOURCE:
AMOUNT OF FUNDING:

FUTURE USE (acres)
GREEN SPACE:
COMMERCIAL:
RESIDENTIAL: 5
INDUSTRIAL:

PROPERTY HIGHLIGHTS: The subject site consists of vacant residential property with an abandoned mobile home trailer and two cement-block foundations. Based on a review of historical sources the subject site was undeveloped prior to being developed as single-family residentia

INSTITUTIONAL CONTROL INFORMATION (IC)
IC REQUIRED: Y
INFORMATIONAL DEVICES:
ENFORCEMENT/PERMIT TOOLS:
DATE IC IN PLACE: 26-MAY-09
PROPERTY CONTROLS:
GOVERNMENTAL CONTROLS: Y
IC IN PLACE: Y

CLEANUP START DATE:
CLEANUP COMPLETION:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

FEDBF

SEARCH ID: 13 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: 3761 NORTH STEPHANIE STREET, PAHRUMP
ADDRESS: 3761 N STEPHANIE ST
PAHRUMP NV 89060

CONTACT: NYE COUNTY SHERIFF
SOURCE: EPA

REV: 5/4/11
ID1: 81341
ID2: 81341
STATUS: EPA BROWNFIELD
PHONE:

ACRES CLEANED UP:
PROVIDING CLEANUP FUNDS:
REDEVELOP START:

CLEANUP FUNDING SOURCE:
AMOUNT OF FUNDING:

FUTURE USE (acres)
GREEN SPACE:
COMMERCIAL:

RESIDENTIAL: 5
INDUSTRIAL:

PROPERTY HIGHLIGHTS: The subject site consists of vacant residential property with an abandoned mobile home trailer and two cement-block foundations. Based on a review of historical sources the subject site was undeveloped prior to being developed as single-family residentia

INSTITUTIONAL CONTROL INFORMATION (IC)
IC REQUIRED: Y
INFORMATIONAL DEVICES:
ENFORCEMENT/PERMIT TOOLS:
DATE IC IN PLACE: 26-MAY-09

PROPERTY CONTROLS:
GOVERNMENTAL CONTROLS: Y
IC IN PLACE: Y

CLEANUP START DATE:
ACRES CLEANED UP:
PROVIDING CLEANUP FUNDS:
REDEVELOP START:

CLEANUP COMPLETION:
CLEANUP FUNDING SOURCE:
AMOUNT OF FUNDING:

FUTURE USE (acres)
GREEN SPACE:
COMMERCIAL:

RESIDENTIAL: 5
INDUSTRIAL:

PROPERTY HIGHLIGHTS: The subject site consists of vacant residential property with an abandoned mobile home trailer and two cement-block foundations. Based on a review of historical sources the subject site was undeveloped prior to being developed as single-family residentia

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

FEDBF

SEARCH ID: 12 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: PAHRUMP PROPERTY
ADDRESS: 2 FRONTAGE RD S
PAHRUMP NV 89048
CONTACT:
SOURCE: EPA

REV: 5/4/11
ID1: 12041
ID2: 12041
STATUS: EPA BROWNFIELD
PHONE:

SITE INFORMATION:

GRANT RECIPIENT: NYE COUNTY
TYPE OF GRANT: ASSESSMENT
TYPE OF FUNDING: N/A
ENROLLED IN STATE/TRIBAL PROG:
STATE OR TRIBAL ID:
ENROLLED DATE:
ACRES PROP ID: 12041
LOCAL PROPERTY NUMBER:
PROPERTY SIZE acres: 300
CLEANUP REQUIRED:
NFA/CLEANUP COMPL ISSUED:

OWNERSHIP ENTITY:
CURRENT OWNER:
DID OWNERSHIP CHANGE:
SUPERFUND LANDOWNER LIABILITY CHANGE:
PROPERTY DESCRIPTION:

PREDOMINANT PAST USE (ACRES)
GREEN SPACE: **RESIDENTIAL:**
COMMERCAIL: **INDUSTRIAL:**

ASSESSMENT
PHASE: PHASE I ENVIRONMENTAL ASSESSMENT **START DATE:** 30-SEP-04
COMPLETION DATE: 30-SEP-04 **SOURCE OF FUNDING:**
ENTIRY PROVIDING FUNDS: **AMOUNT OF FUNDING:**

CONTAMINANT FOUND
PETROLEUM: **CONTROLLED SUBSTANCES:**
ASBESTOS: **PCBs:**
VOCs: **LEAD:**
OTHER METALS: **PAHs:**
OTHER:
OTHER DESCRIPTION:

CONTAMINATION CLEANED UP
PETROLEUM: **CONTROLLED SUBSTANCES:**
ASBESTOS: **PCBs:**
VOCs: **LEAD:**
OTHER METALS: **PAHs:**
OTHER:
OTHER DESCRIPTION:

MEDIA AFFECTED
SOIL: **AIR:**
SURFACE WATER: **GROUND WATER:**
DRINKING WATER: **SEDIMENTS:**
NO MEDIA: **UNKNOWN:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

FEDBF

SEARCH ID: 12 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: PAHRUMP PROPERTY
ADDRESS: 2 FRONTAGE RD S
PAHRUMP NV 89048

CONTACT:
SOURCE: EPA

REV: 5/4/11
ID1: 12041
ID2: 12041
STATUS: EPA BROWNFIELD
PHONE:

MEDIA CLEANED:
SOIL:
SURFACE WATER:
DRINKING WATER:
AIR:
GROUND WATER:
SEDIMENTS:

INSTITUTIONAL CONTROL INFORMATION (IC)
IC REQUIRED:
INFORMATIONAL DEVICES:
ENFORCEMENT/PERMIT TOOLS:
DATE IC IN PLACE:
PROPERTY CONTROLS:
GOVERNMENTAL CONTROLS:
IC IN PLACE: U

CLEANUP START DATE:
ACRES CLEANED UP:
PROVIDING CLEANUP FUNDS:
REDEVELOP START:
CLEANUP COMPLETION:
CLEANUP FUNDING SOURCE:
AMOUNT OF FUNDING:

FUTURE USE (acres)
GREEN SPACE:
COMMERCIAL:
RESIDENTIAL:
INDUSTRIAL:

PROPERTY HIGHLIGHTS:

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

FEDBF

SEARCH ID: 11 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: CALVADA EYE
ADDRESS: 2 FRONTAGE RD S
PAHRUMP NV 89048

CONTACT:
SOURCE: EPA

REV: 5/4/11
ID1: 12044
ID2: 12044
STATUS: EPA BROWNFIELD
PHONE:

SITE INFORMATION:

GRANT RECIPIENT: NYE COUNTY
TYPE OF GRANT: ASSESSMENT
TYPE OF FUNDING: N/A
ENROLLED IN STATE/TRIBAL PROG:
STATE OR TRIBAL ID:
ENROLLED DATE:
ACRES PROP ID: 12044
LOCAL PROPERTY NUMBER:
PROPERTY SIZE acres:
CLEANUP REQUIRED:
NFA/CLEANUP COMPL ISSUED:

OWNERSHIP ENTITY:
CURRENT OWNER:
DID OWNERSHIP CHANGE:
SUPERFUND LANDOWNER LIABILITY CHANGE:
PROPERTY DESCRIPTION:

PREDOMINANT PAST USE (ACRES)
GREEN SPACE: **RESIDENTIAL:**
COMMERCAIL: **INDUSTRIAL:**

ASSESSMENT
PHASE: PHASE I ENVIRONMENTAL ASSESSMENT **START DATE:** 30-SEP-04
COMPLETION DATE: 30-SEP-04 **SOURCE OF FUNDING:**
ENTIRY PROVIDING FUNDS: **AMOUNT OF FUNDING:**

CONTAMINANT FOUND
PETROLEUM: **CONTROLLED SUBSTANCES:**
ASBESTOS: **PCBs:**
VOCs: **LEAD:**
OTHER METALS: **PAHs:**
OTHER:
OTHER DESCRIPTION:

CONTAMINATION CLEANED UP
PETROLEUM: **CONTROLLED SUBSTANCES:**
ASBESTOS: **PCBs:**
VOCs: **LEAD:**
OTHER METALS: **PAHs:**
OTHER:
OTHER DESCRIPTION:

MEDIA AFFECTED
SOIL: **AIR:**
SURFACE WATER: **GROUND WATER:**
DRINKING WATER: **SEDIMENTS:**
NO MEDIA: **UNKNOWN:**

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

FEDBF

SEARCH ID: 11 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: CALVADA EYE
ADDRESS: 2 FRONTAGE RD S
PAHRUMP NV 89048

CONTACT:
SOURCE: EPA

REV: 5/4/11
ID1: 12044
ID2: 12044
STATUS: EPA BROWNFIELD
PHONE:

MEDIA CLEANED:
SOIL:
SURFACE WATER:
DRINKING WATER:
AIR:
GROUND WATER:
SEDIMENTS:

INSTITUTIONAL CONTROL INFORMATION (IC)
IC REQUIRED:
INFORMATIONAL DEVICES:
ENFORCEMENT/PERMIT TOOLS:
DATE IC IN PLACE:
PROPERTY CONTROLS:
GOVERNMENTAL CONTROLS:
IC IN PLACE: U

CLEANUP START DATE:
ACRES CLEANED UP:
PROVIDING CLEANUP FUNDS:
REDEVELOP START:
CLEANUP COMPLETION:
CLEANUP FUNDING SOURCE:
AMOUNT OF FUNDING:

FUTURE USE (acres)
GREEN SPACE:
COMMERCIAL:
RESIDENTIAL:
INDUSTRIAL:

PROPERTY HIGHLIGHTS:

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

STATE

SEARCH ID: 10 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: VALLEY ELECTRIC
ADDRESS: PAHRUMP
PAHRUMP NV

CONTACT:
SOURCE: NV DOC

REV: 07/06/00
ID1: G-000672
ID2:
STATUS: CLOSED
PHONE:

NEVADA STATE CORRECTIVE ACTIONS RELEASE INFORMATION
Discrete Releases at Facility:
Date Release Reported to NDEP: *03/08/1993*
Type of Media Impacted: *Soil*
Description of Contaminant: *Unknown*

Date of Last Action:
Last Action Agency Memo:

Date of Next Action:
Next Action Memo:
Date of Closure: *09/10/1993*
Regulatory Type of Closure:

RESPONSIBLE PARTY INFORMATION (if available)
Responsible Party Name:
Responsible Party Company:
Responsible Party Address:

AGENCY TRACKING INFORMATION
NDEP Case Officer: *bpohlman*
Location of Paper File: *NDEP: Las Vegas*
Company of Nevada Certified Manager Conducting Cleanup:
Phone Number of Certified Manager Conduction Cleanup:
Name of Certified Manager Conducting Cleanup:
Address of Certified Manager Conducting Cleanup: ,
Last Modification of the Discrete Activity: *3/24/1998*
Last NDEP User to Modify a Discrete Activity: *KFLEMING*

NEVADA STATE CORRECTIVE ACTIONS RELEASE INFORMATION
Discrete Releases at Facility:
Date Release Reported to NDEP: *05/19/2006*
Type of Media Impacted: *Soil*
Description of Contaminant: *Other Non-PCB Mineral Oil*

Date of Last Action:
Last Action Agency Memo:

Date of Next Action:
Next Action Memo:
Date of Closure: *06/30/2006*
Regulatory Type of Closure: *Clean w/ Remed*

RESPONSIBLE PARTY INFORMATION (if available)
Responsible Party Name:
Responsible Party Company:
Responsible Party Address:

AGENCY TRACKING INFORMATION

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

STATE

SEARCH ID: 10 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: VALLEY ELECTRIC
ADDRESS: PAHRUMP
PAHRUMP NV

CONTACT:
SOURCE: NV DOC

REV: 07/06/00
ID1: G-000672
ID2:
STATUS: CLOSED
PHONE:

NDEP Case Officer: *jsawyer*
Location of Paper File: *NDEP: Carson City*
Company of Nevada Certified Manager Conducting Cleanup:
Phone Number of Certified Manager Conduction Cleanup:
Name of Certified Manager Conducting Cleanup:
Address of Certified Manager Conducting Cleanup: ,
Last Modification of the Discrete Activity: *3/24/1998*
Last NDEP User to Modify a Discrete Activity: *KFLEMING*

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

STATE

SEARCH ID: 9 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: PAHRUMP WASTE OIL
ADDRESS: EAST LAS CASITAS
PAHRUMP NV 89048

CONTACT:
SOURCE: NV DOC

REV: 07/06/00
ID1: G-001200
ID2:
STATUS: CLOSED
PHONE:

NEVADA STATE CORRECTIVE ACTIONS RELEASE INFORMATION

Discrete Releases at Facility:
Date Release Reported to NDEP: *11/09/1994*
Type of Media Impacted: *Soil*
Description of Contaminant: *used oil*

Date of Last Action:
Last Action Agency Memo:

Date of Next Action:
Next Action Memo:
Date of Closure: *11/14/1995*
Regulatory Type of Closure:

RESPONSIBLE PARTY INFORMATION (if available)

Responsible Party Name:
Responsible Party Company:
Responsible Party Address:

AGENCY TRACKING INFORMATION

NDEP Case Officer: *dnarala*
Location of Paper File: *NDEP: Las Vegas*
Company of Nevada Certified Manager Conducting Cleanup:
Phone Number of Certified Manager Conduction Cleanup:
Name of Certified Manager Conducting Cleanup:
Address of Certified Manager Conducting Cleanup: ,
Last Modification of the Discrete Activity: *3/18/1998*
Last NDEP User to Modify a Discrete Activity: *KFLEMING*

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

STATE

SEARCH ID: 8 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: CONCORDIA HOMES OF NEVADA, INC. , APN 4456119
ADDRESS: 2630 EAST BRIDGER STREET
PAHRUMP NV 89048
NYE
CONTACT:
SOURCE: NV DOC

REV: 01/05/09
ID1: G-000030
ID2:
STATUS: CLOSED
PHONE:

NEVADA STATE CORRECTIVE ACTIONS RELEASE INFORMATION
:

Date Release Reported to NDEP: *07/07/2006*
Date of Closure: *07/31/2006*
Regulatory Type of Closure: *Clean w/ Remed*

Type of Media Impacted: *Soil*
Description of Contaminant: *Other, Transformer Mineral Oil*

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

STATE

SEARCH ID: 7 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: BOWMAN AND SONS PRINTING
ADDRESS: UNKNOWN
PAHRUMP NV

CONTACT:
SOURCE: NV DOC

REV: 07/06/00
ID1: G-000589
ID2:
STATUS: CLOSED
PHONE:

NEVADA STATE CORRECTIVE ACTIONS RELEASE INFORMATION

Discrete Releases at Facility:
Date Release Reported to NDEP:
Type of Media Impacted: *Soil*
Description of Contaminant: *Other Photographic Chemicals*

Date of Last Action:
Last Action Agency Memo:

Date of Next Action:
Next Action Memo:
Date of Closure: *07/20/1992*
Regulatory Type of Closure:

RESPONSIBLE PARTY INFORMATION (if available)

Responsible Party Name:
Responsible Party Company:
Responsible Party Address:

AGENCY TRACKING INFORMATION

NDEP Case Officer: *tmurphy*
Location of Paper File: *NDEP: Carson City*
Company of Nevada Certified Manager Conducting Cleanup:
Phone Number of Certified Manager Conduction Cleanup:
Name of Certified Manager Conducting Cleanup:
Address of Certified Manager Conducting Cleanup: ,
Last Modification of the Discrete Activity: *12/10/1998*
Last NDEP User to Modify a Discrete Activity: *LPETERSO*

Environmental FirstSearch
Site Detail Report

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

STATE

SEARCH ID: 6 **DIST/DIR:** NON GC **ELEVATION:** **MAP ID:**

NAME: BIG HORN CONDOMINIUMS
ADDRESS: UNKNOWN
PAHRUMP NV

CONTACT:
SOURCE: NV DOC

REV: 07/06/00
ID1: G-000005
ID2:
STATUS: CLOSED
PHONE:

NEVADA STATE CORRECTIVE ACTIONS RELEASE INFORMATION

Discrete Releases at Facility:
Date Release Reported to NDEP: *05/09/2000*
Type of Media Impacted: *Soil*
Description of Contaminant: *Other*

Date of Last Action:
Last Action Agency Memo:

Date of Next Action:
Next Action Memo:
Date of Closure: *05/12/2000*
Regulatory Type of Closure: *Clean w/ Remed*

RESPONSIBLE PARTY INFORMATION (if available)

Responsible Party Name: *Brent Crowther*
Responsible Party Company: *Valley Electric Association, Inc.*
Responsible Party Address: *Post Office Box 237PahrumpNV89041*

AGENCY TRACKING INFORMATION

NDEP Case Officer: *bpohlman*
Location of Paper File: *NDEP: Las Vegas*
Company of Nevada Certified Manager Conducting Cleanup:
Phone Number of Certified Manager Conduction Cleanup:
Name of Certified Manager Conducting Cleanup:
Address of Certified Manager Conducting Cleanup: ,
Last Modification of the Discrete Activity: *5/22/2002*
Last NDEP User to Modify a Discrete Activity: *BPOHLMAN*

Environmental FirstSearch Descriptions

NPL: ***EPA*** NATIONAL PRIORITY LIST - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money.
A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.
FINAL - Currently on the Final NPL
PROPOSED - Proposed for NPL

NPL DELISTED: ***EPA*** NATIONAL PRIORITY LIST Subset - Database of delisted NPL sites. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.
DELISTED - Deleted from the Final NPL

CERCLIS: ***EPA*** COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.
PART OF NPL- Site is part of NPL site
DELETED - Deleted from the Final NPL
FINAL - Currently on the Final NPL
NOT PROPOSED - Not on the NPL
NOT VALID - Not Valid Site or Incident
PROPOSED - Proposed for NPL
REMOVED - Removed from Proposed NPL
SCAN PLAN - Pre-proposal Site
WITHDRAWN - Withdrawn

NFRAP: ***EPA*** COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.
NFRAP – No Further Remedial Action Plan
P - Site is part of NPL site
D - Deleted from the Final NPL
F - Currently on the Final NPL
N - Not on the NPL
O - Not Valid Site or Incident
P - Proposed for NPL
R - Removed from Proposed NPL
S - Pre-proposal Site
W – Withdrawn

RCRA COR ACT: ***EPA*** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.
RCRAInfo facilities that have reported violations and subject to corrective actions.

RCRA TSD: ***EPA*** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.
Facilities that treat, store, dispose, or incinerate hazardous waste.

RCRA GEN: ***EPA/MA DEP/CT DEP*** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.
Facilities that generate or transport hazardous waste or meet other RCRA requirements.
LGN - Large Quantity Generators
SGN - Small Quantity Generators
VGN – Conditionally Exempt Generator.
Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.
CONNECTICUT HAZARDOUS WASTE MANIFEST – Database of all shipments of hazardous waste within, into or from Connecticut. The data includes date of shipment, transporter and TSD info, and material shipped and quantity. This data is appended to the details of existing generator records.
MASSACHUSETTES HAZARDOUS WASTE GENERATOR – database of generators that are regulated under the MA DEP.
VQN-MA = generates less than 220 pounds or 27 gallons per month of hazardous waste or waste oil.
SQN-MA = generates 220 to 2,200 pounds or 27 to 270 gallons per month of waste oil.
LQG-MA = generates greater than 2,200 lbs of hazardous waste or waste oil per month.

RCRA NLR: ***EPA*** RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.
Facilities not currently classified by the EPA but are still included in the RCRAInfo database. Reasons for non classification:
Failure to report in a timely matter.
No longer in business.
No longer in business at the listed address.
No longer generating hazardous waste materials in quantities which require reporting.

ERNS: ***EPA/NRC*** EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

Tribal Lands: ***DOI/BIA*** INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are

Federally-administered lands within a reservation which may or may not be considered part of the reservation.
BUREAU OF INDIAN AFFIARS CONTACT - Regional contact information for the Bureau of Indian Affairs offices.

State/Tribal Sites: ***NV DOC*** CORRECTIVE ACTION CASES- The Bureau of Corrective Actions maintains a list of clean-up evaluations and actions regarding sites with actual or potential contamination that could affect groundwater. This includes various types of sites including those regulated under Nevada State legislation described in detail in the Nevada State web site under legislation section NAC445.226-NAC445.2739.

State/Tribal SWL: ***NV DOC*** SOLID WASTE LANDFILLS-This division maintains an inventory of various solid waste facilities including open, closed, & permitted landfills, dumps, pesticide sites, and transfer stations. The inventory notes landfill class type and if the site is a private or government facility.

State/Tribal LUST: ***NV DOC*** LEAKING UNDERGROUND STORAGE TANKS- This division maintains an inventory of sites with leaking underground storagetanks. It includes sites with tanks under investigation for potentialleaks, confirmed leaks, and those to be closed.
WASHOE COUNTY LEAKING UNDERGROUND STORAGE TANKS- This department maintains a list of sites with leaking underground storagetanks. It includes sites with tanks under investigation for potentialleaks, confirmed leaks, and those to be closed or needing emergency action.

State/Tribal UST/AST: ***NV DOC/EPA 9*** UNDERGROUND STORAGE TANKS- This division maintains an inventory of underground storage tanks.
INDIAN LANDS UST LIST-A listing of underground storage tanks currently on Indian lands under federal jurisdiction. Nevada Indian Lands USTs are administered by US EPA Region 9.
ABOVE GROUND STORAGE TANKS- This division maintains an inventory of sites with above ground storage tanks. For more information regarding specific sites, please call the number listed above.
Please Note: AST sites are listed within the UST area of the First Search reports. They can be identified as AST sites by the site ID number. The site ID number islocated in the Site Summary or Site Details section of the report. The site ID notes "AST" before the agency id.

State/Tribal Brownfields: ***NV DOC/EPA*** BROWNFIELDS SITES- The Bureau of Corrective Actions maintains a list of brownfield sites as part of its listing of clean-up evaluations and actions regarding sites with actual or potential contamination that could affect groundwater. The NDEP defines a brownfield as an abandoned, idled, or underused industrial or commercial properties taken out of productive use because of real or perceived risks from environmental contamination.
Brownfields Management System (BMS) is an analytical database designed to assist EPA in collecting, tracking, and updating information, as well as reporting on the major activities and accomplishments of the various Brownfield grant Programs.

RADON: ***NTIS*** NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

Coal Gasification: ***PROPRIETARY*** COAL GASIFICATION - database of sites that have been involved in coal gasification.

FI Map Coverage: ***PROPRIETARY*** FIRE INSURANCE MAP AVAILABILITY - Database of historical fire insurance map availability.

Meth Labs: ***US DOJ*** NATIONAL CLANDESTINE LABORATORY REGISTER - Database of addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the U.S. Department of Justice ("the Department"), and the Department has not verified the entry and does not guarantee its accuracy. All sites that are included in this data set will have an id that starts with NCLR.

Environmental FirstSearch Database Sources

NPL: ***EPA*** Environmental Protection Agency

Updated quarterly

NPL DELISTED: ***EPA*** Environmental Protection Agency

Updated quarterly

CERCLIS: ***EPA*** Environmental Protection Agency

Updated quarterly

NFRAP: ***EPA*** Environmental Protection Agency.

Updated quarterly

RCRA COR ACT: ***EPA*** Environmental Protection Agency.

Updated quarterly

RCRA TSD: ***EPA*** Environmental Protection Agency.

Updated quarterly

RCRA GEN: ***EPA/MA DEP/CT DEP*** Environmental Protection Agency, Massachusetts Department of Environmental Protection, Connecticut Department of Environmental Protection

Updated quarterly

RCRA NLR: ***EPA*** Environmental Protection Agency

Updated quarterly

ERNS: ***EPA/NRC*** Environmental Protection Agency

Updated annually

Tribal Lands: ***DOI/BIA*** United States Department of the Interior

Updated annually

State/Tribal Sites: ***NV DOC*** The Nevada Department of Conservation and Natural Resources,Division of Environmental Protection (NDEP), Bureau of CorrectiveActions

Updated quarterly/when available

State/Tribal SWL: ***NV DOC*** The Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP), Bureau of Corrective Actions

Updated annually/when available

State/Tribal LUST: ***NV DOC*** The Nevada Department of Conservation and Natural Resources,Division of Environmental Protection (NDEP), Bureau of CorrectiveActions
Phone: (775) 687-4670
Washoe County Department of Environmental Health

Updated quarterly/when available

State/Tribal UST/AST: ***NV DOC/EPA 9*** The Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP), Bureau of Corrective Actions
Phone: (775) 687-4670
US EPA Region 9, Underground Storage Tank Program

Updated quarterly/when available

State/Tribal Brownfields: ***NV DOC/EPA*** The Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP), Bureau of Corrective Actions
Phone: (775) 687-4670

Updated when available

RADON: ***NTIS*** Environmental Protection Agency, National Technical Information Services

Updated periodically

Coal Gasification: ***PROPRIETARY*** Library of Congress
Catalogue of Maps Published by Sanborn Mapping and Geographic Information Service in February 1988

Updated when available

FI Map Coverage: ***PROPRIETARY*** Library of Congress
Catalogue of Maps Published by Sanborn Mapping and Geographic Information Service in February 1988®
ProQuest
Other internally produced datasets

Updated quarterly

Meth Labs: ***US DOJ*** U.S. Department of Justice

Updated when available

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: 150 NORTH HIGHWAY 160
PAHRUMP NV 89048

JOB: 117801.01

Street Name	Dist/Dir	Street Name	Dist/Dir
Dahlia St	0.14 SW		
E Basin Ave	0.02 SE		
Emery St	0.09 NE		
Humahuaca	0.18 SE		
Lockspur Ave	0.19 NW		
N Highway 160	0.03 SW		
N State Highway 160	0.03 SW		
S Frontage Rd	0.03 NE		
S Highway 160	0.03 SW		
State St	0.25 SE		

HISTORICAL FIRE INSURANCE MAPS

NO MAPS AVAILABLE

06-02-11
117801.01
150 NORTH HIGHWAY 160
PAHRUMP NV 89048

A search of FirstSearch Technology Corporation's proprietary database of historical fire insurance map availability confirmed that there are NO MAPS AVAILABLE for the Subject Location as shown above.

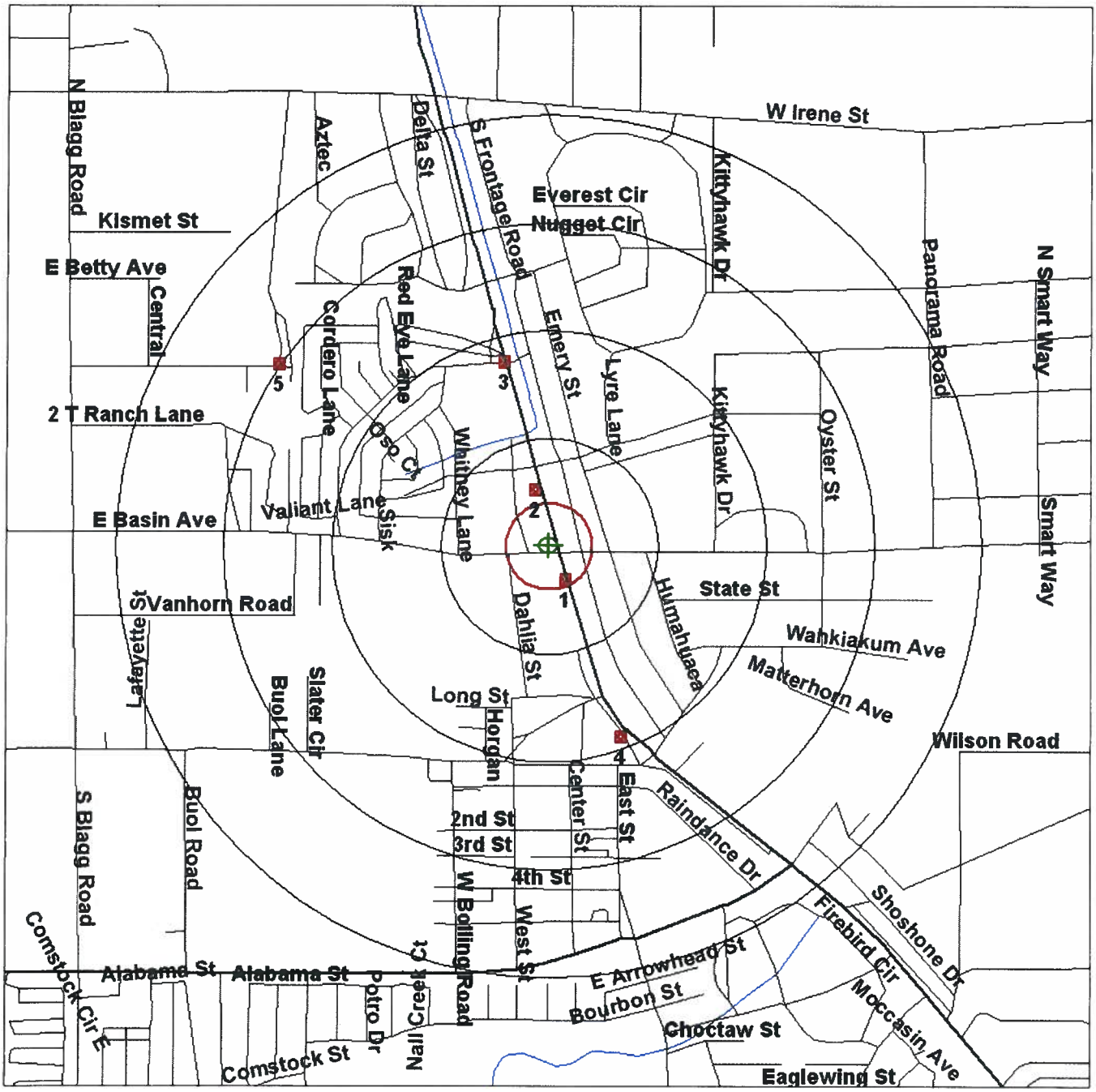
FirstSearch Technology Corporation's proprietary database of historical fire insurance map availability represents abstracted information from the Sanborn® Map Company obtained through online access to the U.S. Library of Congress via local libraries.

Environmental FirstSearch

1 Mile Radius

Single Map:

150 NORTH HIGHWAY 160 , PAHRUMP NV 89048



Source: U.S. Census TIGER Files

Target Site (Latitude: 36.219275 Longitude: -115.994918) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

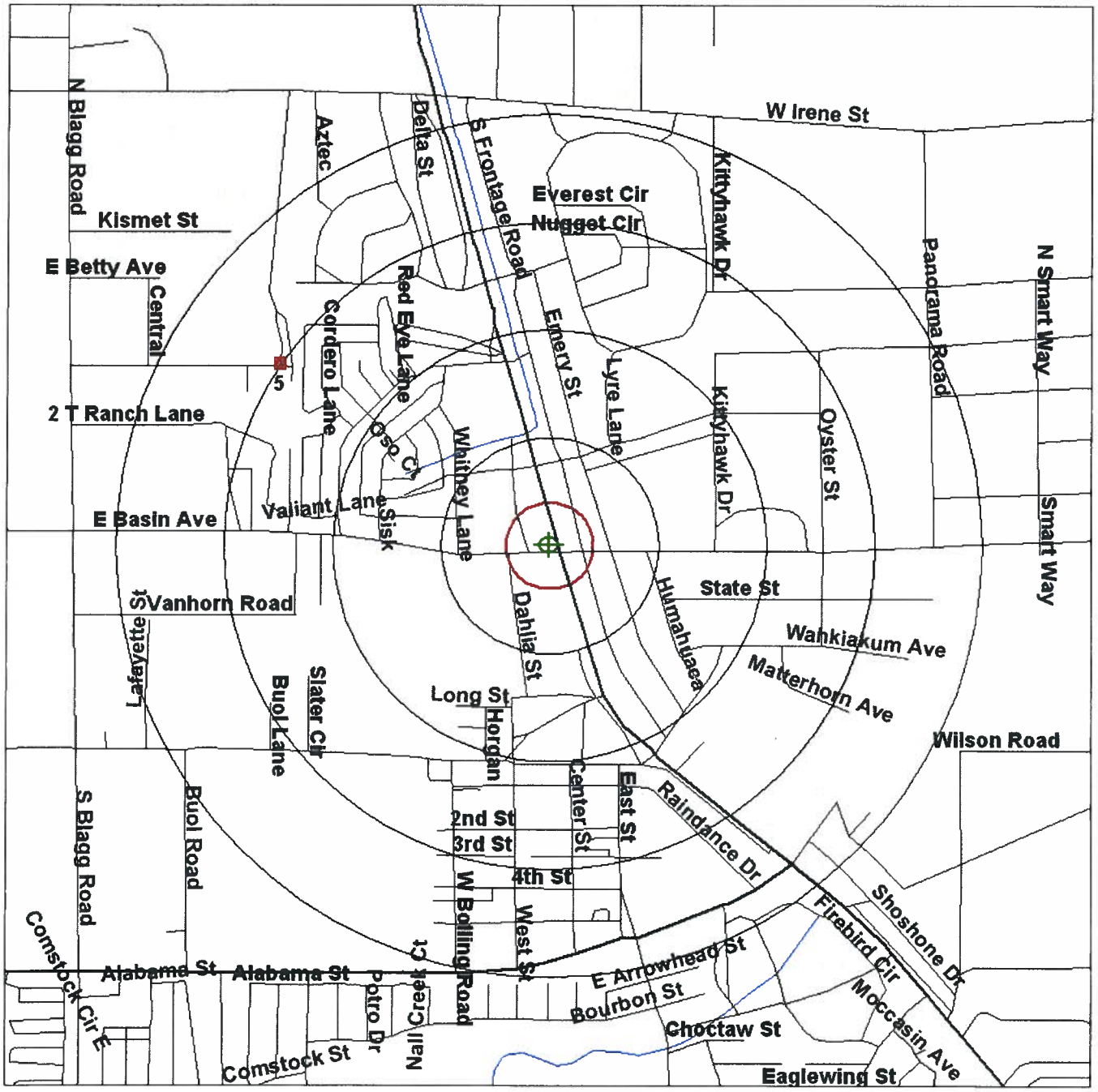
Coal Gasification .....

Environmental FirstSearch

1 Mile Radius

AAI: NPL, RCRACOR, STATE

150 NORTH HIGHWAY 160 , PAHRUMP NV 89048



Source: U.S. Census TIGER Files

Target Site (Latitude: 36.219275 Longitude: -115.994918) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Coal Gasification .....

Environmental FirstSearch

.5 Mile Radius

AAI: Multiple Databases

150 NORTH HIGHWAY 160 , PAHRUMP NV 89048

Source: U.S. Census TIGER Files

Target Site (Latitude: 36.219275 Longitude: -115.994918) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Coal Gasification .....

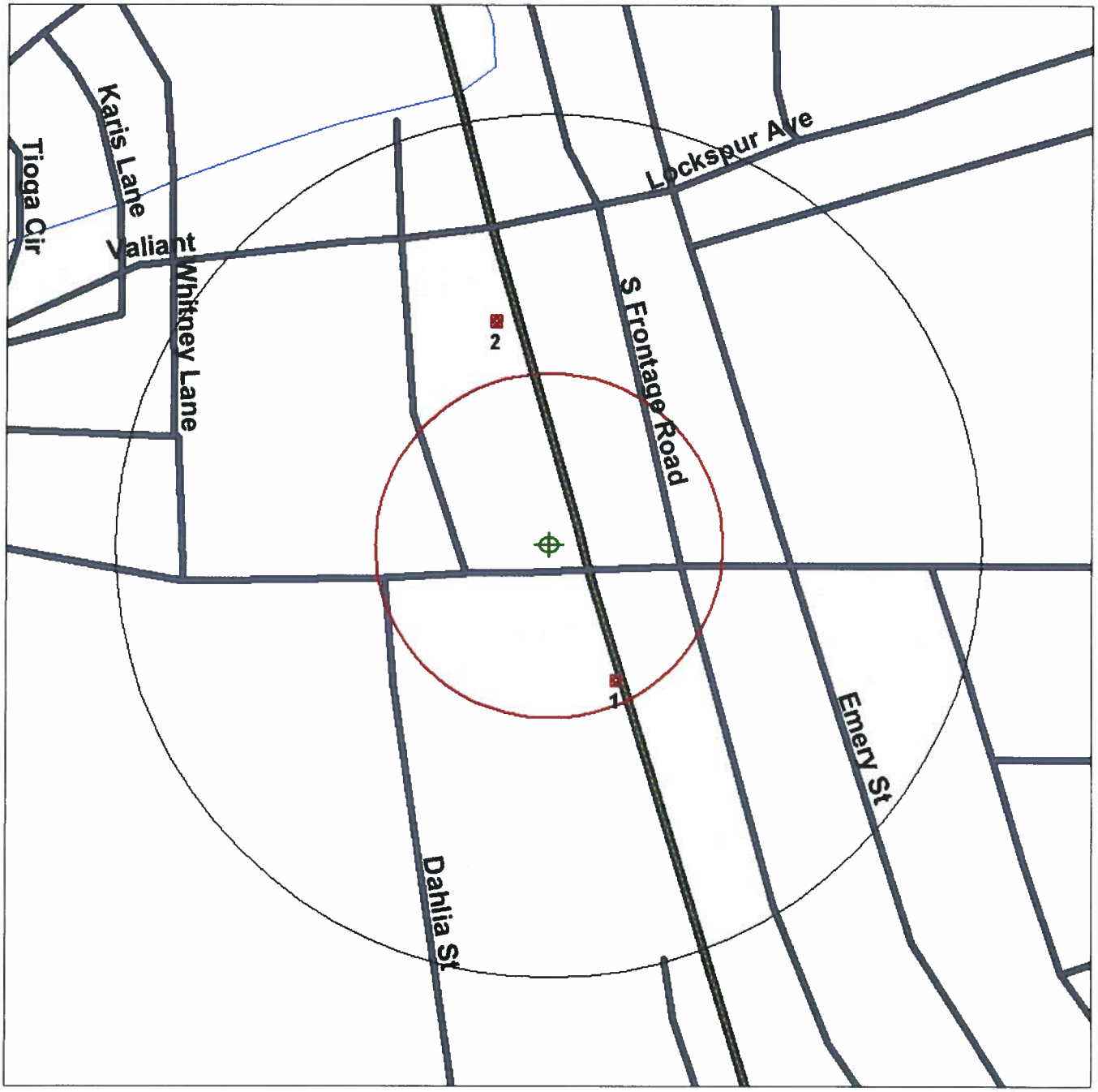
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.25 Mile Radius

AAI: Multiple Databases

150 NORTH HIGHWAY 160 , PAHRUMP NV 89048



Source: U.S. Census TIGER Files

Target Site (Latitude: 36.219275 Longitude: -115.994918) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

Coal Gasification .....

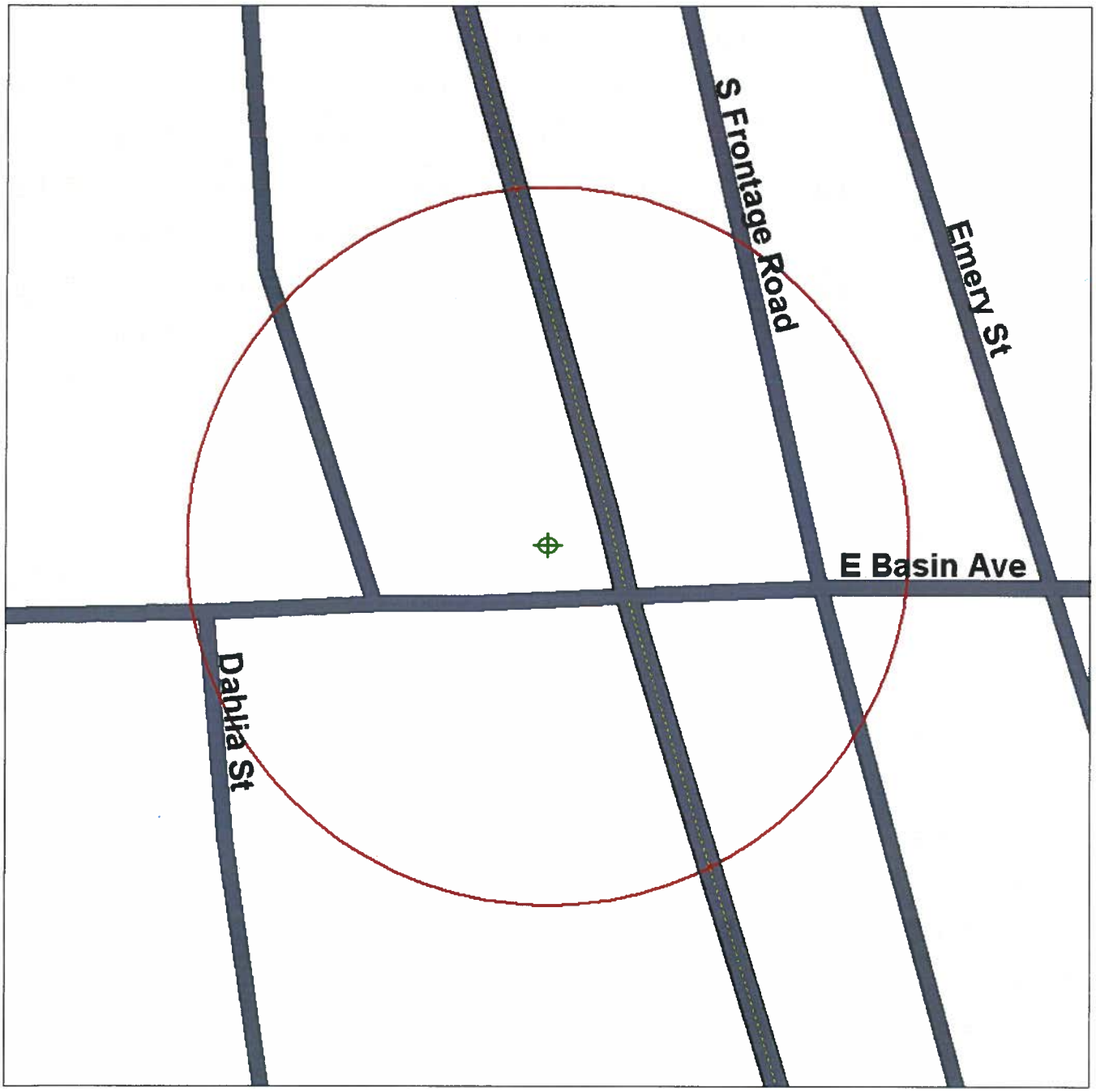
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.12 Mile Radius

AAI: Multiple Databases

150 NORTH HIGHWAY 160 , PAHRUMP NV 89048



Source: U.S. Census TIGER Files

Target Site (Latitude: 36.219275 Longitude: -115.994918) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads .....

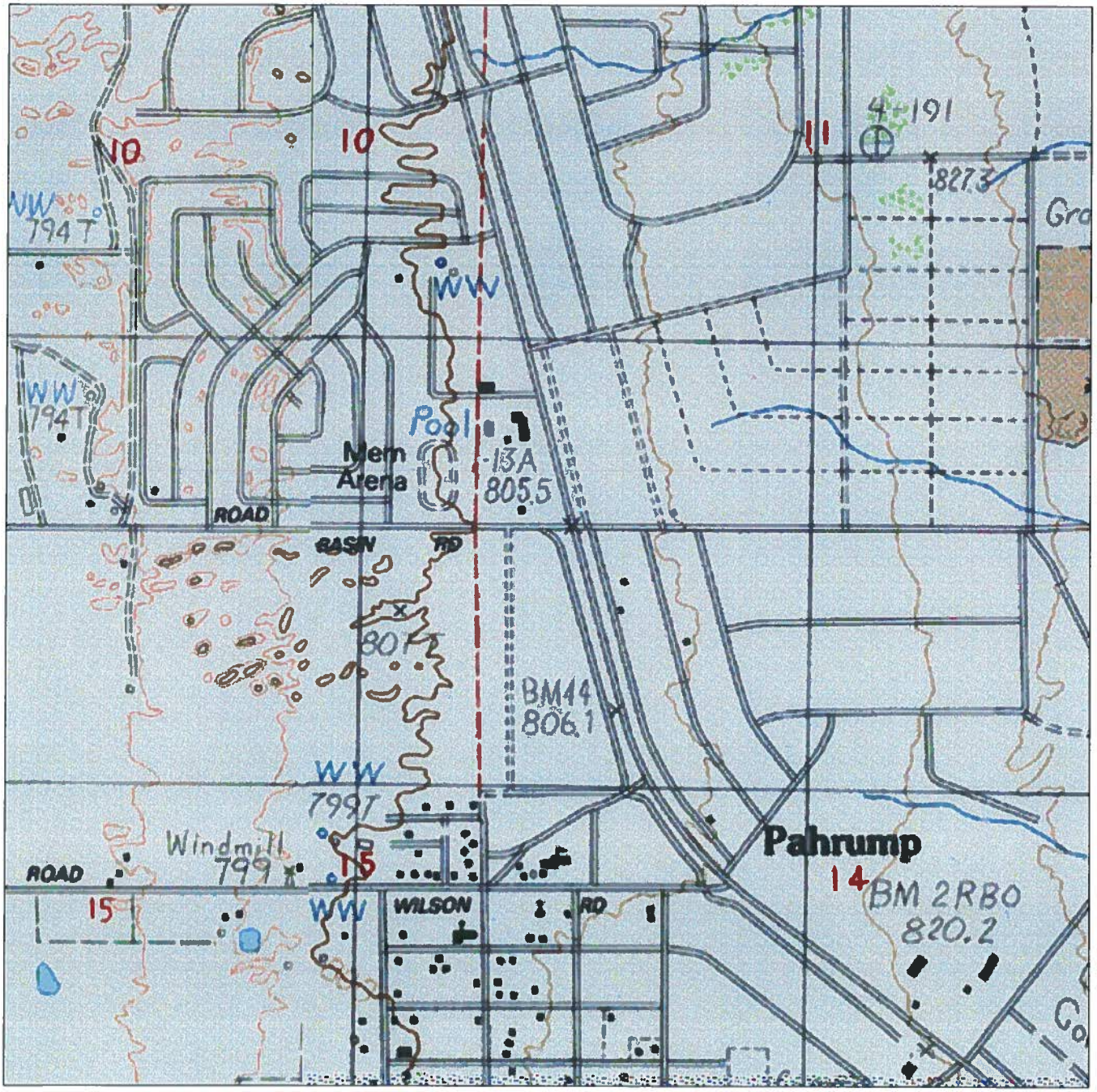
Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

Coal Gasification .....

Site Location Map

Topo : 0.75 Mile Radius

150 NORTH HIGHWAY 160 , PAHRUMP NV 89048



SOURCE: SCANNED USGS TOPOGRAPHIC QUADRANGLES
SCANNED BY MAPTECH AND USGS
DISTRIBUTED AUGUST, 2005.

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

0 495 990 1,980 2,970 3,960 Feet

Data Supplied by: MAPTECH

Prepared by FirstSearch Technology Corporation 06-02-11

JOB NO. 117801.01

Map Name: PAHRUMP | Date Created: 1984 | Date Revised: None

Map Reference Code: 36115-B8-TM-024 | Contour Interval: 10 meters | Elevation: 2634

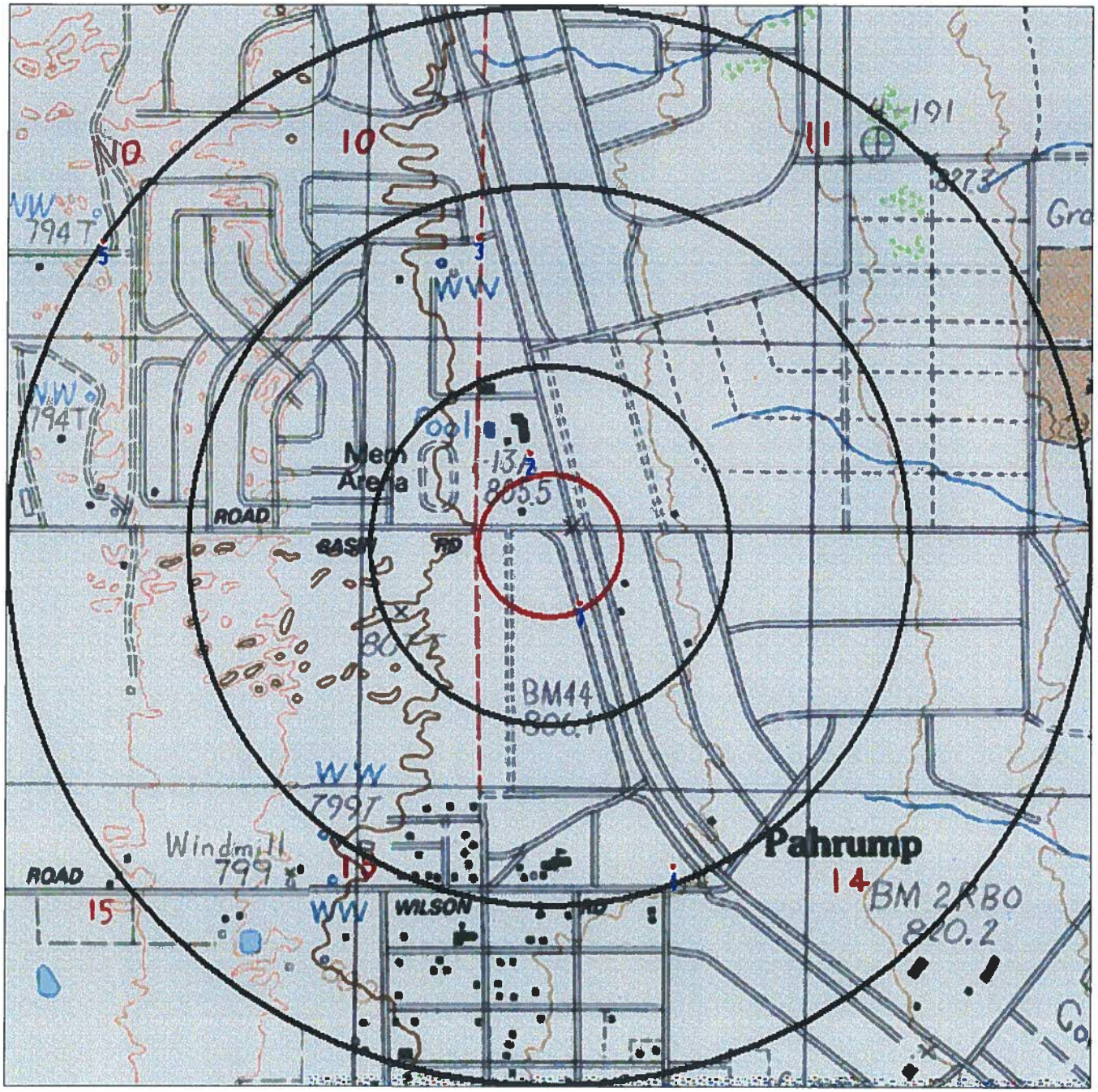
FIGURE NO. 1

Environmental FirstSearch

Topo : Current Map 0.75 Mile Radius

Current Topo Map

150 NORTH HIGHWAY 160 , PAHRUMP NV 89048



Source:

Target Site (Latitude: 36.219275 Longitude: -115.994918) .....

Identified Site, Multiple Sites, Receptor .....

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste

Tribal Land.....

Historical Fire Insurance Coverage Map .....

Coal Gasification.....

Map Name: PAHRUMP Date Created: 1984-- Date Revised: None-- Elevation: 2634

Map Reference Code: 36115-B8-TM-024

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

APPENDIX C

USER QUESTIONNAIRE
INTERVIEW QUESTIONNAIRES

USER QUESTIONNAIRE

Project Location/Address: **Bob Ruud Community Center**
Pahrump, Nevada

Note: In order to qualify for one of the *Landowner Liability Protections (LLPs)*[1] offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"),[2] the *User* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

	Yes	No	Unknown
(1.) Environmental cleanup liens that are filed or recorded against the site (40CFR312.25). Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?	☐	X☐	☐
(2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40CFR312.26). Are you aware of any AULs,[3] such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?	☐	☐	X☐
(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40CFR312.28). As the *user* of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	X☐	☐	☐
(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40CFR312.29). Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*?	X☐	☐	☐
If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?	☐	☐	☐
(5.) Commonly known or reasonably ascertainable information about the *property* (40CFR312.30).	**Yes**	**No**	**Unknown**
(a.) Do you know the past uses of the *property*?	X☐	☐	☐
(b.) Do you know of specific chemicals that are present or once were present at the *property*?	X☐	☐	☐
(c.) Do you know of spills or other chemical releases that have taken place at the *property*?	☐	X☐	☐
(d.) Do you know of any environmental cleanups that have taken place at the *property*?	X☐	☐	☐
(6.) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40CFR312.31). As the *user* of this ESA, based on your knowledge and experience related to the *property* are there any obvious indicators that point to the presence or likely presence of contamination at the *property*?	☐	X☐	☐

Modified from ASTM E1527-05 X.3 User Questionnaire.

USER QUESTIONNAIRE (Continued)

In addition to the above 6 required questions, the following additional information is intended to assist the *environmental professional* but is not necessarily required to qualify for one of the *LLPs*:

(a) The reason why the Phase I is required,
Damage to the roof which caused a downpour inside the building.

(b) The type of property and type of property transaction, for example, sale, purchase, exchange, etc.
The Town of Pahrump owns the property and is looking at the best most cost effective way to spend tax payers money. Rebuild or renovate!

(c) The complete and correct address for the property (a map or other documentation showing property location and boundaries is helpful),
150 N. Hwy 160 Pahrump, NV 89060 Parcel # 035-121-15

(d) The scope of services desired for the Phase I (including whether any parties to the property transaction may have a required standard scope of services on whether any considerations beyond the requirements of Practice E1527 are to be considered),
Cost benefit analysis and overall report showing the entire condition of the Bob Ruud Community Center.

(e) Identification of all parties who will rely on the Phase I report,
Town of Pahrump – Local Government

f) Identification of the site contact and how the contact can be reached,
Mr. Matt Luis, Building & Grounds manager 775-764-0436 or mluis@pahrumpnv.org

(g) Any special terms and conditions which must be agreed upon by the environmental professional, and
None known at this time.

(h) Any other knowledge or experience with the property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the property and its environmental condition).
Already provided.

User Name/Company: Town of Pahrump Nevada

Address: 400 N Hwy 160 Pahrump, NV 89060

Signature: William A. Rothwell Pahrump Town Manager Date: 06/06/11

[1] *Landowner Liability Protections*, or *LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability* ("*Common Elements*" Guide) issued on March 6, 2003.
[2] P.L .107-118.
[3] Activity and Use Limitations.

Phil Tousignant

From: Dan Burns
Sent: Wednesday, June 15, 2011 1:10 PM
To: Phil Tousignant
Subject: FW: Pahrump,

Follow Up Flag: Follow up
Flag Status: Flagged

Regarding the User Questionnaire....

From: Brian Loffman [mailto:BrianL@becnv.com]
Sent: Thursday, June 09, 2011 10:56 AM
To: Dan Burns
Cc: Eileen Christensen; Joshua Fortmann
Subject: RE: Pahrump,

Dan,
I spoke to Matt Luis and he said there are two septic systems at the Bob Ruud facility. One is north of the building (the one you pointed out to me) and the other is immediately west of the building adjacent to Room B.

As for the ESA User Questionnaire:

Matt said the answer to question 5b is just over the counter cleaning supplies, paint, etc., no hazardous materials have ever been present at the site to his knowledge.
He answered yes to question 5d in reference to the recent mold abatement. Other than that he is unaware of any previous environmental cleanups at the facility.
If you anything else please let me know.
Brian

From: Dan Burns [mailto:DBurns@kleinfelder.com]
Sent: Tuesday, June 07, 2011 2:01 PM
To: Brian Loffman
Cc: Eileen Christensen; Joshua Fortmann
Subject: Pahrump,

Brian,

I have not received a reply from Matt Louis.

Can you call Town of Pahrump and ask them to elaborate on User Questionnaire, Question 5 b and d. (What are the specific chemicals and what was the environmental cleanup?) There is no listing of a corrective action for the property.

Also need to know if they have drawings showing the location of the septics. The Assessor information shows 1 location, Matt said there were two.

Dan

APPENDIX D

HISTORICAL RESEARCH DOCUMENTATION

Historical Aerial Photo
2006
150 NORTH HIGHWAY 160
PAHRUMP, NV 89060

Environmental FIRSTSEARCH

Target Site: 36.221394 -115.995509; Job Number: 117801_01

N
W E
S

1 inch equals 750 feet

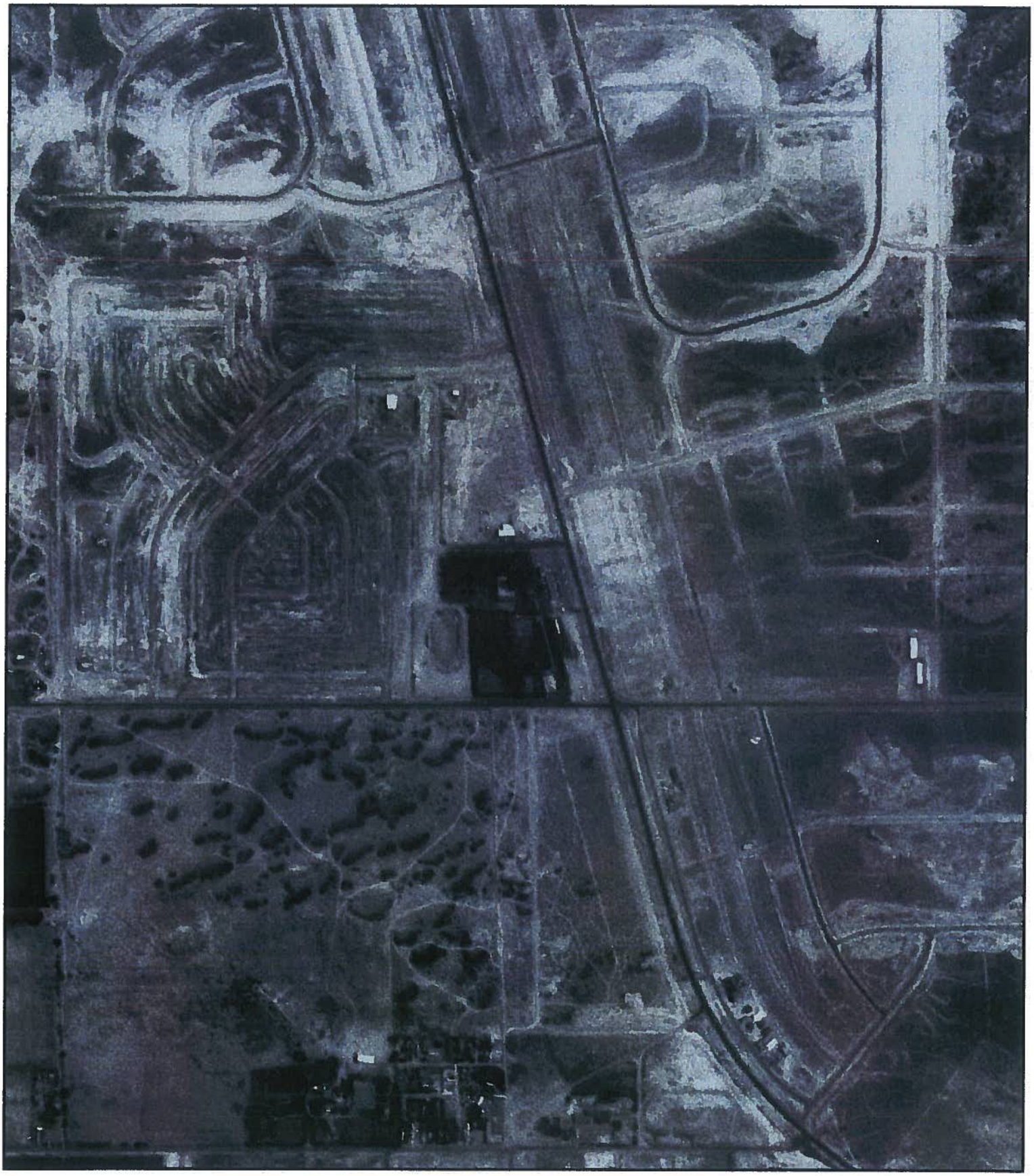
Historical Aerial Photo
1990
150 NORTH HIGHWAY 160
PAHRUMP, NV 89060

Environmental FIRSTSEARCH Network

Target Site: 36.221394 -115.995509; Job Number: 117801_01

N
W E
S

1 inch equals 750 feet



Historical Aerial Photo
1983
150 NORTH HIGHWAY 160
PAHRUMP, NV 89060

Target Site: 36.221394 -115.995509; Job Number: 117801_01

N
W E
S

1 inch equals 750 feet

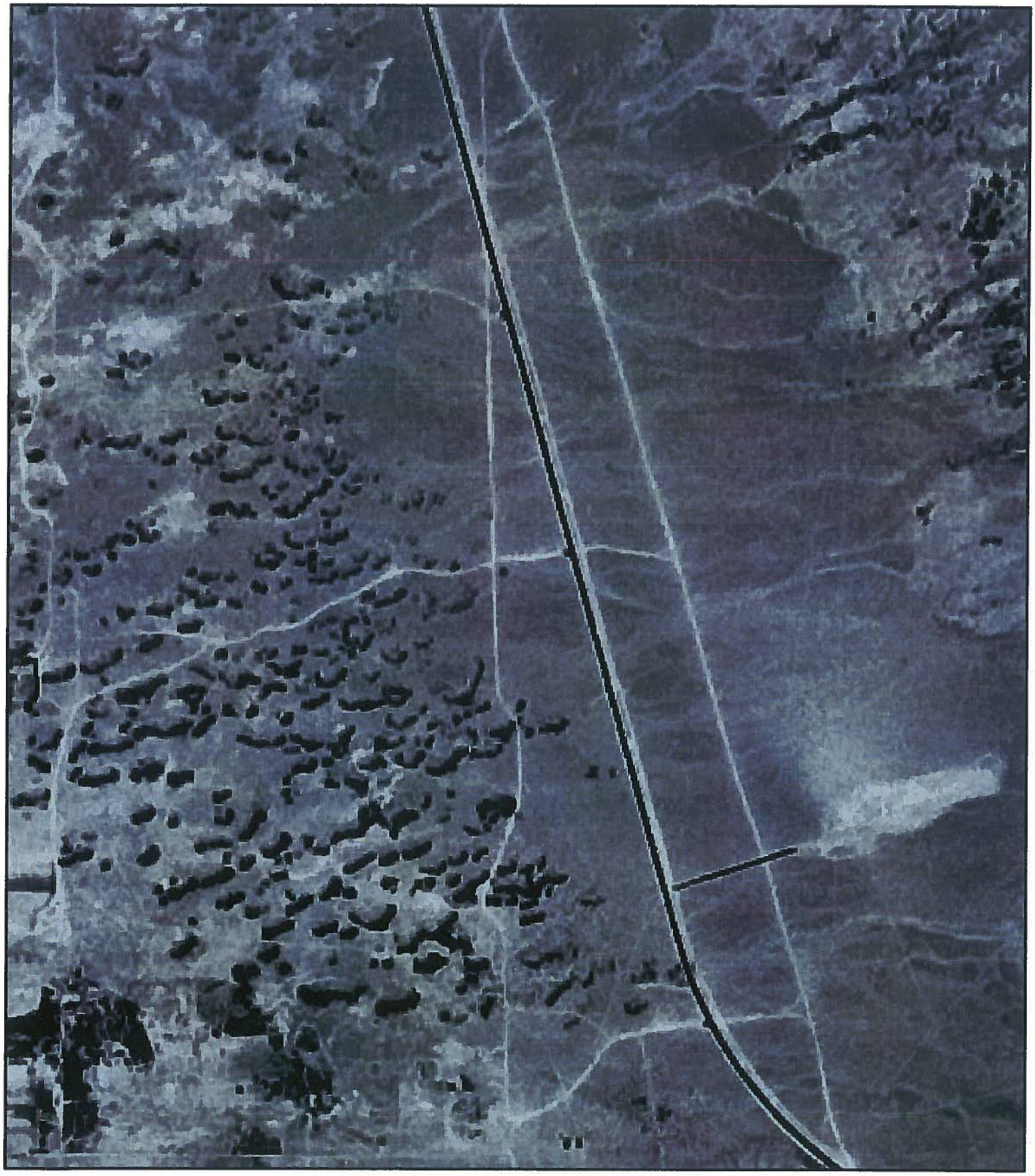
Historical Aerial Photo
1973
150 NORTH HIGHWAY 160
PAHRUMP, NV 89060

Environmental FIRSTSEARCH

Target Site: 36.221394 -115.995509; Job Number: 117801_01

N
W E
S

1 inch equals 750 feet



Historical Aerial Photo
1953
150 NORTH HIGHWAY 160
PAHRUMP, NV 89060

Target Site: 36.221394 -115.995509; Job Number: 117801_01

N
W E
S

1 inch equals 750 feet

Historical Aerial Photo
1945
150 NORTH HIGHWAY 160
PAHRUMP, NV 89060

Target Site: 36.221394 -115.995509; Job Number: 117801_01

N
W E
S

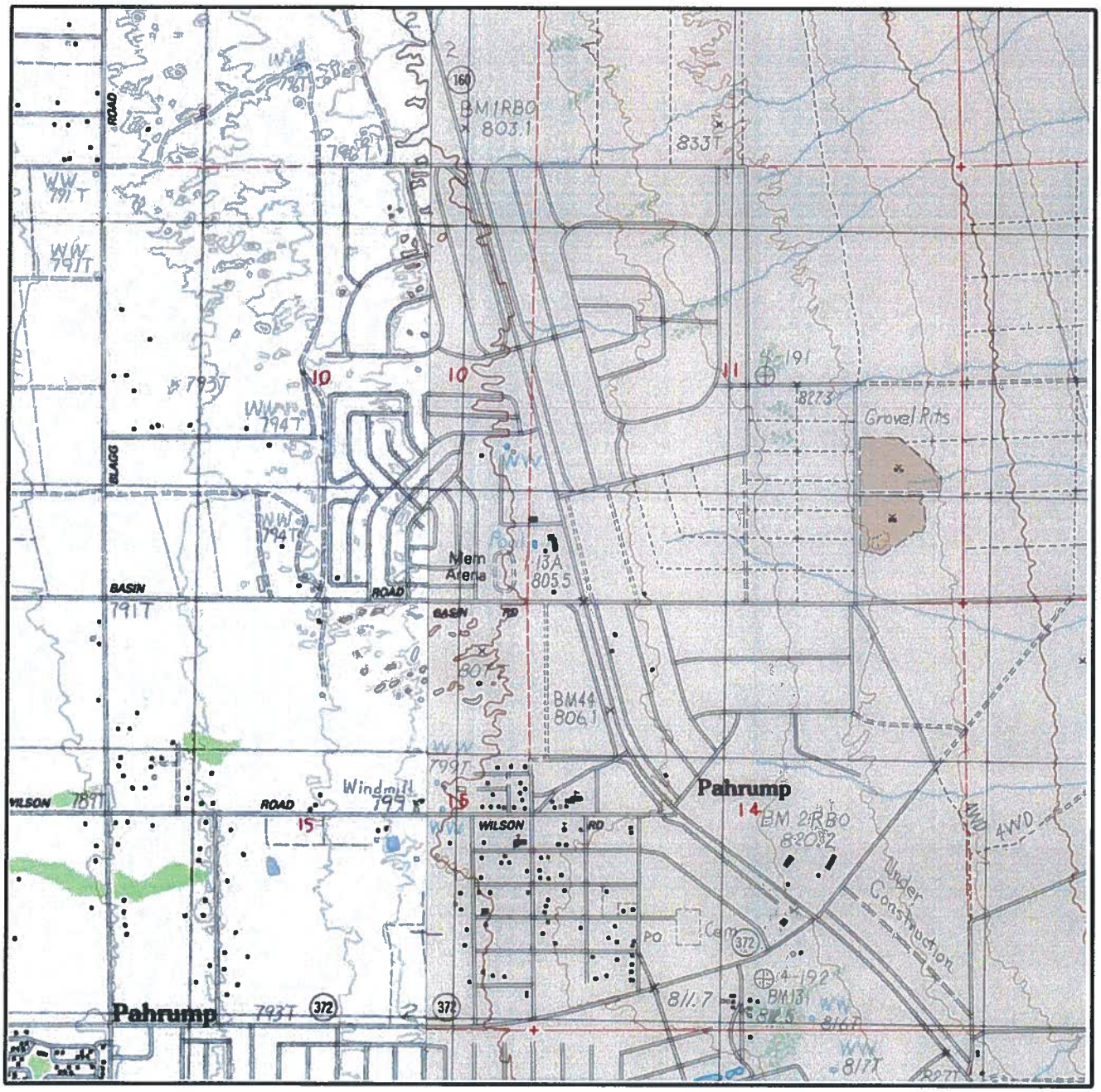
1 inch equals 750 feet

Environmental FirstSearch

Historical Topographic Map

Quad Name: Pahrump, NV
Year: 1984 Original Map Scale: 1:24,000

150 North Highway 160, Pahrump, NV 89060



Job Number: 117801.01
Target Site: 36.221394, -115.995509

W Quad Name: Stewart Valley, NV
Year: 1984

0 miles 0.5 1

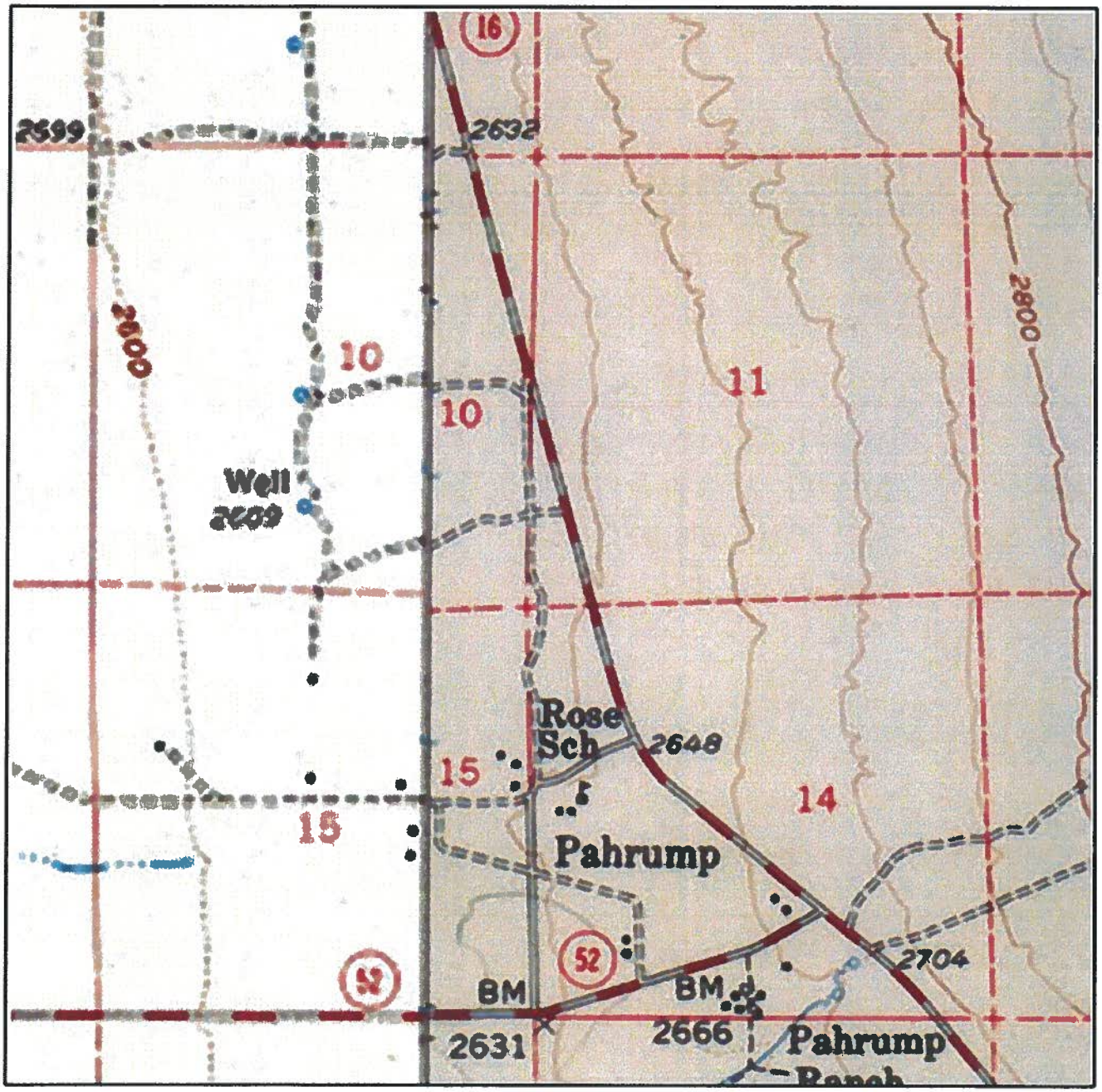
Building
Topo Contour
Depression
Quarry or Open Pit Mine
Railroad
Tanks
Primary Highway
Trail

Environmental FirstSearch

Historical Topographic Map

Quad Name: Pahrump, NV
Year: 1958 Original Map Scale: 1:62,500

150 North Highway 160, Pahrump, NV 89060



Job Number: 117801.01
Target Site: 36.221394, -115.995509

W Quad Name: Stewart Valley, NV
Year: 1958

0 miles 0.5 1

Building
Topo Contour
Depression
Quarry or Open Pit Mine
Railroad
Tanks
Primary Highway
Trail

CITY DIRECTORY REVIEW

Report Date: 5/31/2011
Client Job Number: 117801.01
FirstSearch Index Number: 266192
Site Address(es): 150 NORTH HIGHWAY 160
PAHRUMP, NV 89060

A search was conducted for the subject area noted above to identify any Historical City Directory coverage/tenant information maintained at national repositories, local city/town libraries and/or various public sources.

The following information is the result of the search:

Year/Source	Address (es)	Listings
2007/Cole Directory		
	25 N Highway 160 Pahrump, NV:	Barker, Tracy
	41 N Highway 160 Pahrump, NV:	Bracamontes & Sons Plastering
		First Choice Pregnancy Center
		Medical Mart
		Sandve, Mel
	250 N Highway 160 Pahrump, NV:	Nye County Animal Shelter
		Nye County Emergency Hazardous Mater
		Nye County Public Health Nurse
		Search & Rescue Southern Nye
	300 N Highway 160 Pahrump, NV:	Nye County Pahrump Ambula
		Pahrump Valley Fire Rescue Service
	400 N Highway 160 Pahrump, NV:	Nye County Pahrump Town Office
	500 N Highway 160 Pahrump, NV:	Nye County Road Dept
2004/Cole Directory		
	25 N Highway 160 Pahrump, NV:	Barker, Tracy
	41 N Highway 160 Pahrump, NV:	Crisis Pregnancy Ctr Of Phrmp
		Human Resources Nevada Dept
		Sandve, Mel
		Silvercrest Of Nevada
		Uniko Beauty Salon
	150 N Highway 160 Pahrump, NV:	Towns, Wanda
	250 N Highway 160 Pahrump, NV:	Nye County Treasurer
		Search & Rescue Sthrn Nye Cnty
	300 N Highway 160 Pahrump, NV:	Nye County Ambulance
		Pahrump Volunteer Fire & Rsc

Year/Source	Address (es)	Listings
2004/Cole Directory		
	400 N Highway 160 Pahrump, NV:	Town Of Pahrump
	500 N Highway 160 Pahrump, NV:	Nye County Road Dept
2000/Cole Directory		
	5500 N Highway 160 Pahrump, NV:	Jans Place
1995/Cole Directory		
	0 Highway 160 Pahrump, NV:	Just Country
		Rogers Mobile Sales & Towing
1992/Cole Directory		
	Street Not Listed	

GLOSSARY OF TERMS

"No Listing/Not Listed" - address not listed in the directory

"Vacant" or "No Current Listing" - status of address in directory

"Residential Listing" - one residential listing located at address

"Multiple Residential Listings" - more than one residential listing located at address

"Multiple Retail Listings" - more than one retail facility located at address

"Multiple Business Listings" - more than one business listing at address

"Multiple Government Offices" - more than one federal listing at an address

"Multiple Municipal Listings" - more than one municipal listing at an address

"Multiple Military Listings" - more than one military listing at an address

"Street Not Listed" - street not listed in directory

When multiple tenants/facilities are observed for one address, the information may be summarized as shown in the following examples:

*An apartment building will be represented by "Multiple Residential Listings"
* A retail shopping center will be represented by "Multiple Retail Listings" followed by a separate listing of sites, if present, which may contain the use of regulated/chemical/hazardous materials such as dry cleaners, photo finishers, hair salons, auto repair shops, etc.
* An office building consisting of attorneys, insurance, firms, or other facilities which do not indicate the use of regulated/chemical/hazardous materials will be represented by "Multiple Business Listings"

Residential addresses, including individual houses and apartment buildings, are listed as residential. Names of tenants can be provided if needed.

Unless otherwise noted, the subject address (es) plus four adjacent addresses up from the subject property and four addresses down from the subject property are included in the report, if available.

APPENDIX E

ASBESTOS REGULATORY OVERVIEW

REGULATORY OVERVIEW FOR ASBESTOS

Regulatory oversight for the management, removal, and disposal of asbestos-containing materials (ACMs) is provided by a variety of Federal, State, and local agencies.

The three primary regulations enforced by regulatory agencies that govern various activities (e.g., inspection, assessment, abatement, etc.) relating to ACMs include the following: Asbestos Hazard Emergency Response Act (AHERA), National Emission Standards for Hazardous Air Pollutants (NESHAP), and the Asbestos Construction Safety Standard (as codified in Federal OSHA and Nevada OSHA regulations, EPA regulations concerning the identification, handling, management, and abatement of ACMs (as found in the AHERA and NESHAP) are implemented locally by the Clark County Department of Air Quality and Environmental Management Division (CCDAQEM) and the State of Nevada Department of Business and Industry – Asbestos Control Program (NDBIACP). Both Federal OSHA and Nevada OSHA regulate asbestos as a worker health and safety issue. The Federal OSHA, EPA, and CCDAQEM define ACMs as materials containing greater than one-percent asbestos.

The following is a brief description of the three major regulations relating to ACMs.

Asbestos Hazard Emergency Response Act (AHERA)

AHERA (40 CFR part 763), as implemented by the EPA, primarily pertains to the assessment and management of ACMs in Kindergarten (K) through 12th grade non-profit schools. However, many of the procedures, training requirements, and certifications defined by AHERA have become the industry standard for all other facilities.

National Emission Standard for Hazardous Air Pollutants (NESHAP)

NESHAP (40 CFR Part 61) is an asbestos standard that protects the general public from asbestos exposure due to renovation or demolition activities. NESHAP requires surveying for suspect materials (as defined above), notifying of intent to renovate or demolish, removal of regulated ACM (RACM) prior to renovation or demolition, and proper management of asbestos-containing wastes. A RACM is defined by NESHAP as follows:

- Any friable ACM;

- A Category I non-friable ACM (such as floor tiles and asphalt roofing products) that has become friable or will be subject to sanding, grinding, cutting, or abrading during renovation or demolition activities; or
- A Category II non-friable ACM (all other non-friable ACMs) that has a high probability of becoming friable during demolition or renovation activities.

NESHAP requires that demolition activities be conducted with no visible emissions using wet methods. It should be noted that while NESHAP regulates renovation and demolition activities, it does not protect individual workers conducting asbestos abatement or provide instructions for how asbestos abatement projects should be conducted.

Asbestos Standard for the Construction Industry

The Asbestos Standard for the Construction Industry (Federal OSHA, 29 CFR 1926.1101) regulates asbestos exposure in the work place. This includes both persons working in a building containing ACMs and asbestos abatement workers/contractors. For abatement workers and contractors, the Asbestos Standard for Construction (Construction Standard) regulates the following:

- Protection of workers and the public during the removal;
- Medical surveillance requirements for workers;
- Detailed requirements for how asbestos is to be removed; and
- Training requirements for abatement personnel.

As previously noted, building materials containing greater than one percent asbestos are considered ACMs, and should be managed accordingly. Friable ACMs (RACMs) are regulated as Class I asbestos work and subject to the State of Nevada licensing regulations. The NESHAP regulations mandate the removal of RACMs prior to building demolition or renovation and also Category I or II non-friable materials that may become friable. In addition, any disturbance of a RACM caused by renovation or demolition activities, whether it is removing/replacing interior building components, repairing building components, or painting a friable asbestos-containing surface, is also governed by NESHAP regulations.

APPENDIX F

ASBESTOS SURVEY TABLE F-1, SAMPLE LOCATION MAP, PHOTO LOG, AND LABORATORY ANALYTICAL REPORT

TABLE F-1
Summary of Limited Asbestos Survey Results
Bob Ruud Community Center, Pahrump, Nevada

Sample No.	Sample Location	Sample Description	Layers	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
RF-ACM-001a	Area 1 - Roof	Roofing Material - Asphaltic	Layer 1	ND	G	>7,000 sf
			Layer 2	ND	G	
			Layer 3	ND	G	
			Layer 4	ND	G	
			Layer 5	ND	G	
RF-ACM-002b	Area 1 - Roof	Roofing Material - Asphaltic	Layer 1	ND	G	>7,000 sf
			Layer 2	ND	G	
			Layer 3	ND	G	
			Layer 4	ND	G	
RF-ACM-003c	Area 1 - Roof	Roofing Material - Asphaltic	Layer 1	1-2% chrysotile	G	>7,000 sf
			Layer 2	ND	G	
			Layer 3	ND	G	
			Layer 4	ND	G	
RF-ACM-004d	Area 1 - Roof	Roofing Material - Asphaltic	Layer 1	1-2% chrysotile	G	>7,000 sf
			Layer 2	ND	G	
			Layer 3	ND	G	
			Layer 4	ND	G	
			Layer 5	ND	G	
RF-ACM-005e	Area 1 - Roof	Roofing Material - Asphaltic	Layer 1	1-2% chrysotile	G	>7,000 sf
			Layer 2	ND	G	
			Layer 3	ND	G	
			Layer 4	ND	G	
			Layer 5	ND	G	
RF-ACM-006f	Area 1 - Roof	Roofing Material - Asphaltic	Layer 1	1-2% chrysotile	G	>7,000 sf
			Layer 2	ND	G	
			Layer 3	ND	G	
RF-ACM-007g	Area 1 - Roof	Roofing Material - Asphaltic	Layer 1	1-2% chrysotile	G	>7,000 sf
			Layer 2	ND	G	
			Layer 3	ND	G	
			Layer 4	ND	G	
RF-ACM-008h	Area 1 - Roof	Roofing Material - Asphaltic	Layer 1	1-2% chrysotile	G	>7,000 sf
			Layer 2	10-20% chrysotile	G	
RF-ACM-009i	Area 1 - Roof	Roofing Material - Asphaltic	Layer 1	1-2% chrysotile	G	>7,000 sf
			Layer 2	ND	G	

TABLE F-1
Summary of Limited Asbestos Survey Results
Bob Ruud Community Center, Pahrump, Nevada

Sample No.	Sample Location	Sample Description	Layers	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
			Layer 3	ND	G	
			Layer 4	ND	G	
			Layer 5	ND	G	
SR-ACM-001a	Area 2 – Storage Room	Storage Room- Textured Wallboard	Layer 1	ND	G**	<1,000 sf
			Layer 2	<=1% chrysotile	G**	
			Layer 3	ND	G**	
			Layer 4	ND	G**	
SR-ACM-002b	Area 2 – Storage Room	Storage Room- Textured Wallboard	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
SR-ACM-003c	Area 2 – Storage Room	Storage Room- Textured Wallboard	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
SR-ACM-004d	Area 2 – Storage Room	White/Beige Vinyl Tile (12") + Mastic	Layer 1	5-10% chrysotile	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
SR-ACM-005e	Area 2 – Storage Room	White/Beige Vinyl Tile (12") + Mastic	Layer 1	5-10% chrysotile	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
			Layer 3	2-5% chrysotile	P-F/G**	
			Layer 4	ND	P-F/G**	
SR-ACM-006f	Area 2 – Storage Room	White/Beige Vinyl Tile (12") + Mastic	Layer 1	5-10% chrysotile	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
SR-ACM-007g	Area 2 – Storage Room	Ceiling Acoustical Texture - White	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
SR-ACM-008h	Area 2 – Storage Room	Ceiling Acoustical Texture - White	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	

TABLE F-1
Summary of Limited Asbestos Survey Results
Bob Ruud Community Center, Pahrump, Nevada

Sample No.	Sample Location	Sample Description	Layers	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
SR-ACM-009i	Area 2 – Storage Room	Ceiling Acoustical Texture - White	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
ENT-ACM-001a	Area 3 - Entryway	2'x2' White Ceiling Tile	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
ENT-ACM-002b	Area 3 - Entryway	2'x2' White Ceiling Tile	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
ENT-ACM-003c	Area 3 - Entryway	2'x2' White Ceiling Tile	Layer 1	ND	G**	<1,000 sf
ENT-ACM-004d	Area 3 - Entryway	12" Beige Vinyl Tile + Brown Mastic	Layer 1	2-5% chrysotile	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
ENT-ACM-005e	Area 3 - Entryway	12" Beige Vinyl Tile + Brown Mastic	Layer 1	2-5% chrysotile	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
ENT-ACM-006	Area 3 - Entryway	12" Beige Vinyl Tile + Brown Mastic	Layer 1	2-5% chrysotile	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
BRF-ACM-001a	Area 4 - Bathroom	Grey Cove Base + Brown Mastic	Layer 1	ND	P-F/G**	50 lf
			Layer 2	ND	P-F/G**	
BRF-ACM-002b	Area 4 - Bathroom	Grey Cove Base + Brown Mastic	Layer 1	ND	P-F/G**	50 lf
			Layer 2	ND	P-F/G**	
BRF-ACM-003c	Area 4 - Bathroom	Grey Cove Base + Brown Mastic	Layer 1	ND	P-F/G**	50 lf
			Layer 2	ND	P-F/G**	
BRF-ACM-004d	Area 4 - Bathroom	Wallboard + White Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
			Layer 4	<=1% chrysotile	G**	
BRF-ACM-005e	Area 4 - Bathroom	Wallboard + White Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
			Layer 4	ND	G**	
			Layer 5	ND	G**	
			Layer 6	ND	G**	

TABLE F-1
Summary of Limited Asbestos Survey Results
Bob Ruud Community Center, Pahrump, Nevada

Sample No.	Sample Location	Sample Description	Layers	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
BRF-ACM-006f	Area 4 - Bathroom	Wallboard + White Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
BRF-ACM-007g	Area 4 - Bathroom	12" Vinyl Tile(Blue) + Brown Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
BRF-ACM-008h	Area 4 - Bathroom	12" Vinyl Tile(Blue) + Brown Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
BRF-ACM-009i	Area 4 - Bathroom	12" Vinyl Tile(Blue) + Brown Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
BRF-ACM-010j	Area 4 - Bathroom	12" White Vinyl Tile + Brown Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
BRF-ACM-011k	Area 4 - Bathroom	12" White Vinyl Tile + Brown Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
BRF-ACM-012l	Area 4 - Bathroom	12" White Vinyl Tile + Brown Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
TR-ACM-001a	Area 5 – Table Room	Wallboard + White Smooth Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	<=1% Chrysotile	G**	
			Layer 3	ND	G**	
			Layer 4	<=1% Chrysotile	G**	
			Layer 5	ND	G**	
TR-ACM-002b	Area 5 – Table Room	Wallboard + White Smooth Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
TR-ACM-003c	Area 5 – Table Room	Wallboard + White Smooth Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
TR-ACM-004d	Area 5 – Table Room	12" Grey Vinyl Tile + Brown Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	

TABLE F-1
Summary of Limited Asbestos Survey Results
Bob Ruud Community Center, Pahrump, Nevada

Sample No.	Sample Location	Sample Description	Layers	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
			Layer 3	ND	P-F/G**	
TR-ACM-005e	Area 5 – Table Room	Grey 12" Vinyl Tile + Brown Mastic	Layer 1	ND	P-F/G**	<1,000 sf
TR-ACM-006f	Area 5 – Table Room	Grey 12" Vinyl Tile + Brown Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
TR-ACM-007g	Area 5 – Table Room	2'x2' White Ceiling Tile	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
TR-ACM-008h	Area 5 – Table Room	2'x2' White Ceiling Tile	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
TR-ACM-009i	Area 5 – Table Room	2'x2' White Ceiling Tile	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
KT-ACM-001a	Area 6 – Kitchen	12" White Vinyl Tile + Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
KT-ACM-002b	Area 6 – Kitchen	12" White Vinyl Tile + Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
KT-ACM-003c	Area 6 – Kitchen	12" White Vinyl Tile + Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
KT-ACM-004d	Area 6 – Kitchen	2'x2' White Ceiling Tile	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
KT-ACM-005e	Area 6 – Kitchen	2'x2' White Ceiling Tile	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
KT-ACM-006f	Area 6 – Kitchen	2'x2' White Ceiling Tile	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
KT-ACM-007g	Area 6 – Kitchen	Wall Board + Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	<=1% Chrysotile	G**	
KT-ACM-008h	Area 6 – Kitchen	Wall Board + Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	<=1% Chrysotile	G**	
KT-ACM-009i	Area 6 – Kitchen	Wall Board + Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	

TABLE F-1
Summary of Limited Asbestos Survey Results
Bob Ruud Community Center, Pahrump, Nevada

Sample No.	Sample Location	Sample Description	Layers	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
			Layer 3	ND	G**	
KT-ACM-010j	Area 6 – Kitchen	Black Cove Base + Brown Mastic	Layer 1	ND	P-F/G**	150 lf
			Layer 2	ND	P-F/G**	
KT-ACM-011k	Area 6 – Kitchen	Black Cove Base + Brown Mastic	Layer 1	ND	P-F/G**	150 lf
			Layer 2	ND	P-F/G**	
KT-ACM-012j	Area 6 – Kitchen	Black Cove Base + Brown Mastic	Layer 1	ND	P-F/G**	150 lf
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
MR-ACM-001a	Area 7 – Main Room	12" White Vinyl Tile + Brown Mastic	Layer 1	ND	P-F/G**	>1,000 sf <5,000
			Layer 2	ND	P-F/G**	
MR-ACM-002b	Area 7 – Main Room	12" White Vinyl Tile + Brown Mastic	Layer 1	ND	P-F/G**	>1,000 sf <5,000
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
			Layer 4	ND	P-F/G**	
MR-ACM-003c	Area 7 – Main Room	12" White Vinyl Tile + Brown Mastic	Layer 1	ND	P-F/G**	>1,000 sf <5,000
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
			Layer 4	ND	P-F/G**	
MR-ACM-004d	Area 7 – Main Room	12" White Vinyl Tile + Brown Mastic	Layer 1	ND	P-F/G**	>1,000 sf <5,000
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
MR-ACM-005e	Area 7 – Main Room	12" White Vinyl Tile + Brown Mastic	Layer 1	ND	P-F/G**	>1,000 sf <5,000
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
			Layer 4	ND	P-F/G**	
MR-ACM-006f	Area 7 – Main Room	Black Cove Vase + Brown Mastic	Layer 1	ND	P-F/G**	250 lf
			Layer 2	ND	P-F/G**	
MR-ACM-007g	Area 7 – Main Room	Black Cove Vase + Brown Mastic	Layer 1	ND	P-F/G**	250 lf
			Layer 2	ND	P-F/G**	
MR-ACM-008h	Area 7 – Main	Black Cove Vase + Brown	Layer 1	ND	P-F/G**	250 lf

TABLE F-1
Summary of Limited Asbestos Survey Results
Bob Ruud Community Center, Pahrump, Nevada

Sample No.	Sample Location	Sample Description	Layers	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
	Room	Mastic	Layer 2	ND	P-F/G**	
MR-ACM-009i	Area 7 – Main Room	Black Cove Vase + Brown Mastic	Layer 1	ND	P-F/G**	250 lf
			Layer 2	ND	P-F/G**	
MR-ACM-010j	Area 7 – Main Room	Black Cove Vase + Brown Mastic	Layer 1	ND	P-F/G**	250 lf
			Layer 2	ND	P-F/G**	
MR-ACM-011k	Area 7 – Main Room	2'x2' White Ceiling Tile	Layer 1	ND	G**	>1,000 sf <5,000
			Layer 2	ND	G**	
MR-ACM-012l	Area 7 – Main Room	2'x2' White Ceiling Tile	Layer 1	ND	G**	>1,000 sf <5,000
			Layer 2	ND	G**	
MR-ACM-013m	Area 7 – Main Room	2'x2' White Ceiling Tile	Layer 1	ND	G**	>1,000 sf <5,000
			Layer 2	ND	G**	
MR-ACM-014n	Area 7 – Main Room	2'x2' White Ceiling Tile	Layer 1	ND	G**	>1,000 sf <5,000
MR-ACM-015o	Area 7 – Main Room	2'x2' White Ceiling Tile	Layer 1	ND	G**	>1,000 sf <5,000
			Layer 2	ND	G**	
MR-ACM-016p	Area 7 – Main Room	Wallboard + Surface Texture	Layer 1	ND	G**	>1,000 sf <5,000
			Layer 2	<=1% Chrysotile	G**	
			Layer 3	ND	G**	
			Layer 4	ND	G**	
MR-ACM-017p	Area 7 – Main Room	Wallboard + Surface Texture	Layer 1	ND	G**	>1,000 sf <5,000
			Layer 2	<=1% Chrysotile	G**	
MR-ACM-018r	Area 7 – Main Room	Wallboard + Surface Texture	Layer 1	ND	G**	>1,000 sf <5,000
			Layer 2	<=1% Chrysotile	G**	
MR-ACM-019s	Area 7 – Main Room	Wallboard + Surface Texture	Layer 1	ND	G**	>1,000 sf <5,000
			Layer 2	<=1% Chrysotile	G**	
			Layer 3	ND	G**	
			Layer 4	ND	G**	
MR-ACM-020t	Area 7 – Main Room	Wallboard + Surface Texture	Layer 1	ND	G**	>1,000 sf <5,000
			Layer 2	ND	G**	
			Layer 3	ND	G**	
RMB-ACM-001a	Area 8 – Room B	12" White Vinyl Tile +	Layer 1	ND	G**	1,000 sf

TABLE F-1
Summary of Limited Asbestos Survey Results
Bob Ruud Community Center, Pahrump, Nevada

Sample No.	Sample Location	Sample Description	Layers	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
		Mastic	Layer 2	ND	G**	
RMB-ACM-002b	Area 8 – Room B	12" White Vinyl Tile + Mastic	Layer 1	ND	G**	1,000 sf
			Layer 2	ND	G**	
RMB-ACM-003c	Area 8 – Room B	12" White Vinyl Tile + Mastic	Layer 1	ND	G**	1,000 sf
			Layer 2	ND	G**	
RMB-ACM-004d	Area 8 – Room B	2'x2' White Ceiling Tile	Layer 1	ND	G**	1,000 sf
			Layer 2	ND	G**	
RMB-ACM-005e	Area 8 – Room B	2'x2' White Ceiling Tile	Layer 1	ND	G**	1,000 sf
			Layer 2	ND	G**	
RMB-ACM-006f	Area 8 – Room B	2'x2' White Ceiling Tile	Layer 1	ND	G**	1,000 sf
			Layer 2	ND	G**	
RMB-ACM-007g	Area 8 – Room B	Black Cove Base + Brown Mastic	Layer 1	ND	G**	150 lf
			Layer 2	ND	G**	
RMB-ACM-008h	Area 8 – Room B	Black Cove Base + Brown Mastic	Layer 1	ND	G**	150 lf
			Layer 2	ND	G**	
RMB-ACM-009i	Area 8 – Room B	Black Cove Base + Brown Mastic	Layer 1	ND	G**	150 lf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
RMB-ACM-010j	Area 8 – Room B	Wallboard + Surface Texture	Layer 1	ND	G**	1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
RMB-ACM-011k	Area 8 – Room B	Wallboard + Surface Texture	Layer 1	ND	G**	1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
RMB-ACM-012l	Area 8 – Room B	Wallboard + Surface Texture	Layer 1	ND	G**	1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
			Layer 4	ND	G**	
RMA-ACM-001a	Area 9 – Room A	White 12" Vinyl Tile+ Brown Mastic	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	

TABLE F-1
Summary of Limited Asbestos Survey Results
Bob Ruud Community Center, Pahrump, Nevada

Sample No.	Sample Location	Sample Description	Layers	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
RMA-ACM-002b	Area 9 – Room A	White 12" Vinyl Tile + Brown Mastic	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
RMA-ACM-003c	Area 9 – Room A	White 12" Vinyl Tile + Brown Mastic	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
RMA-ACM-004d	Area 9 – Room A	2'x2' Ceiling Tile White	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
RMA-ACM-005e	Area 9 – Room A	2'x2' Ceiling Tile White	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
RMA-ACM-006f	Area 9 – Room A	2'x2' Ceiling Tile White	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
RMA-ACM-007g	Area 9 – Room A	Black Cove Base + Brown Mastic	Layer 1	ND	G**	50 lf
			Layer 2	ND	G**	
RMA-ACM-008h	Area 9 – Room A	Black Cove Base + Brown Mastic	Layer 1	ND	G**	50 lf
			Layer 2	ND	G**	
RMA-ACM-009i	Area 9 – Room A	Black Cove Base + Brown Mastic	Layer 1	ND	G**	50 lf
			Layer 2	ND	G**	
RMA-ACM-010j	Area 9 – Room A	Wallboard + Surface Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
RMA-ACM-011k	Area 9 – Room A	Wallboard + Surface Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
RMA-ACM-012l	Area 9 – Room A	Wallboard + Surface Texture	Layer 1	ND	G**	<1,000 sf
			Layer 2	ND	G**	
			Layer 3	ND	G**	
			Layer 4	ND	G**	
BRB-ACM-001a	Area 10 – Bathroom	12" Grey Vinyl Tile + Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
BRB-ACM-002b	Area 10 – Bathroom	12" Grey Vinyl Tile + Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
BRB-ACM-003c	Area 10 – Bathroom	12" Grey Vinyl Tile + Mastic	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	

TABLE F-1
Summary of Limited Asbestos Survey Results
Bob Ruud Community Center, Pahrump, Nevada

Sample No.	Sample Location	Sample Description	Layers	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
BRB-ACM-004d	Area 10 – Bathroom	Wallboard + Surface Texture	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	ND	P-F/G**	
BRB-ACM-005e	Area 10 – Bathroom	Wallboard + Surface Texture	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	<=1% Chrysotile	P-F/G**	
			Layer 3	ND	P-F/G**	
			Layer 4	ND	P-F/G**	
BRB-ACM-006f	Area 10 – Bathroom	Wallboard + Surface Texture	Layer 1	ND	P-F/G**	<1,000 sf
			Layer 2	<=1% Chrysotile	P-F/G**	
			Layer 3	ND	P-F/G**	
			Layer 4	<=1% Chrysotile	P-F/G**	
			Layer 5	ND	P-F/G**	
			Layer 6	ND	P-F/G**	
BRB-ACM-007g	Area 10 – Bathroom	Black Cove Base + Brown Mastic	Layer 1	ND	P-F/G**	50 lf
			Layer 2	ND	P-F/G**	
BRB-ACM-008h	Area 10 – Bathroom	Black Cove Base + Brown Mastic	Layer 1	ND	P-F/G**	50 lf
			Layer 2	ND	P-F/G**	
			Layer 3	ND	P-F/G**	
BRB-ACM-009j	Area 10 – Bathroom	Black Cove Base + Brown Mastic	Layer 1	ND	P-F/G**	50 lf
			Layer 2	ND	P-F/G**	

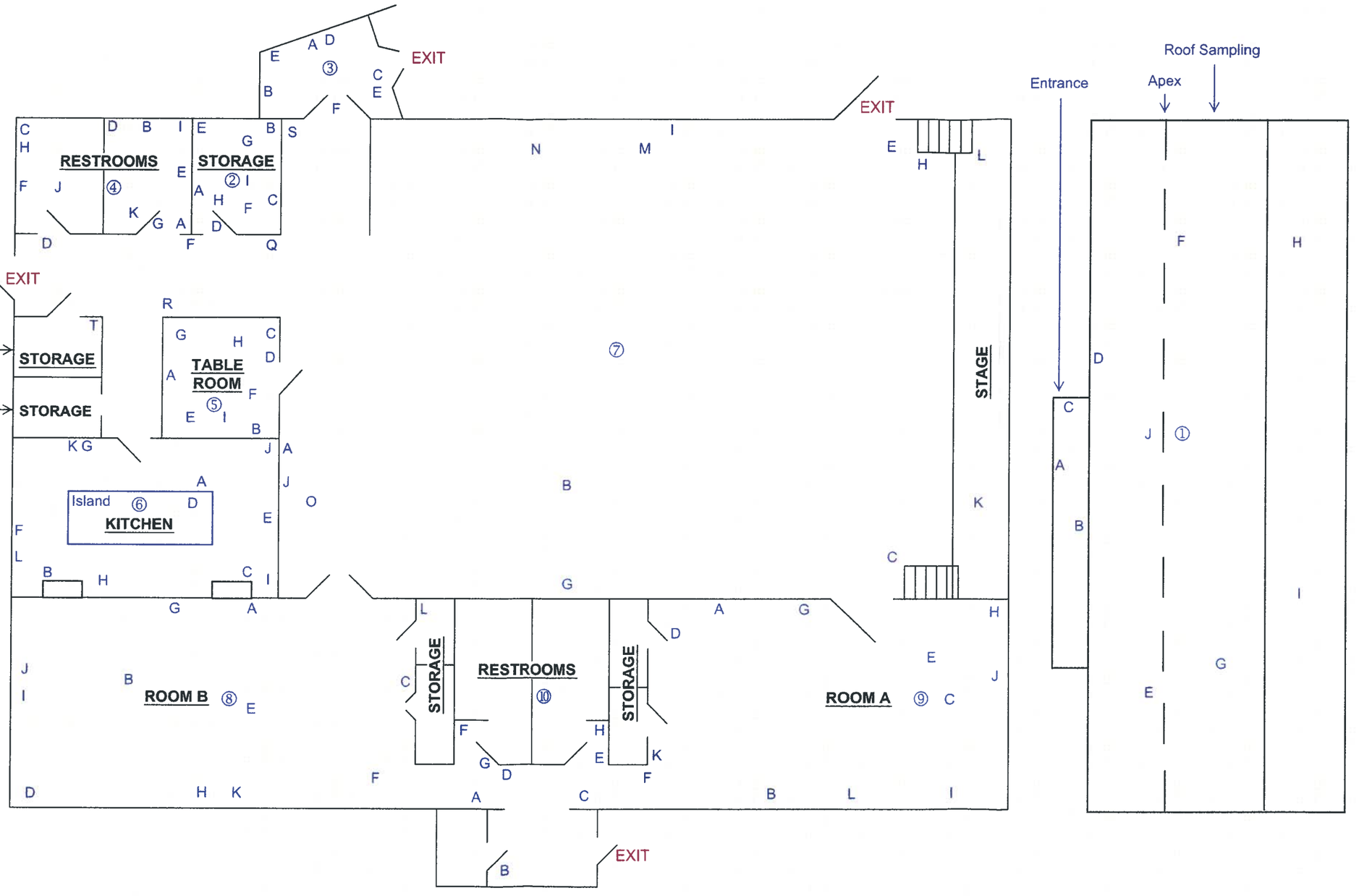
G = Good condition
NA = Not Applicable
P-F = Poor condition-Friable
* = Paper backing on linoleum
** = May become friable during renovation or repair activities

ND = No Asbestos Detected
NF = Non-Friable**
PC = Point Count
TEM = Gravimetric/Semi-Quantitative Analysis

sq. ft. = Square feet
lin. ft. = Linear feet
Trace % is reported as 0 asbestos counts in 400 total counts
[1] = Quantity assumed mastic is present under all flooring material

All quantities are noted in square feet per layer, per homogeneous area, unless otherwise noted. Laboratory described colors may differ from inspector's described colors. Material quantities are estimates only, based on the survey results presented. Contractors are responsible for verifying quantities prior to bid.

① = RF = Roof
② = SR = Storage room
③ = ENT = Entrance
④ = BRF = Bathroom Front
⑤ = TR = Table Room
⑥ = KT = Kitchen
⑦ = MR = Main Room
⑧ = RMB = Room B
⑨ = RMA = Room A
⑩ = BRB = Bathroom Back



NOT TO SCALE

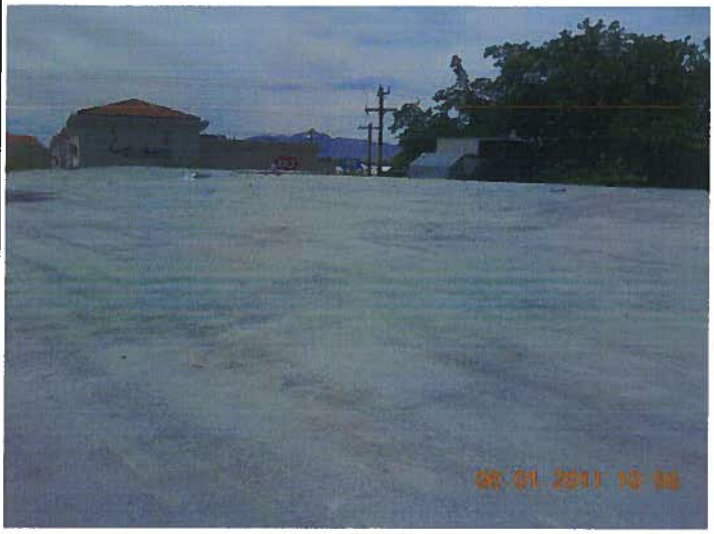
LEGEND

(#) Functional Area Designation

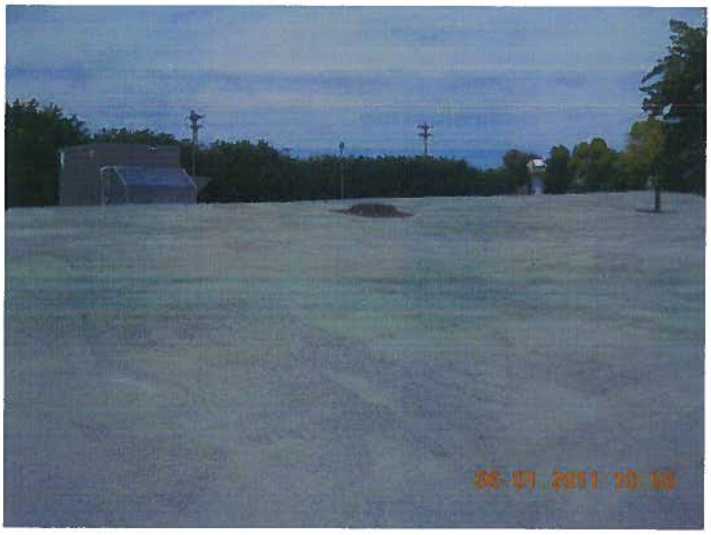
bec environmental, inc. Environmental Consulting	PROJECT NO. 031.11.003
	DRAWN: 6/23/2011
	DRAWN BY: AHM
7660 W. Sahara Ave., Suite 150 Las Vegas, NV 89117 (P) 702-304-9830 (F) 702-304-9839	Bob Rudd Pahrump

Sample Location Map

FIGURE 1



Picture 1. Roofing.



Picture 2. Roofing.

Picture 3. Roofing .

Picture 4. Roofing sample.

Picture 5. Roofing.

Picture 6. Roofing sample.

Picture 7. Roofing sample.

Picture 8. Roofing sample.

Picture 9. Roofing sample.

Picture 10. Roofing sample.

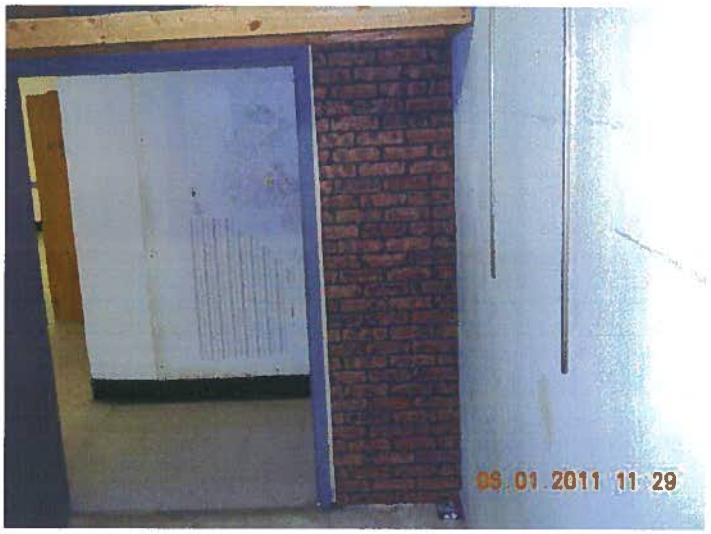
Pictures 11. Roof.

Pictures 12. Roof.

Picture 13. Roofing sample.

Picture 14. White/Beige vinyle tile.

Picture 15.



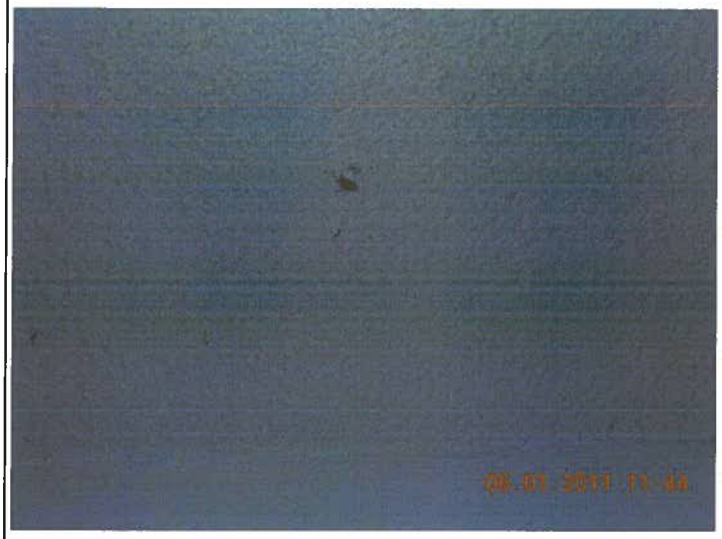
Picture 16.

Picture 17. Wallboard sample.

Picture 18. Wallboard sample.

Picture 19. Wallboard sample.

Picture 20. White/Beige tile sample.



Picture 21.

Picture 22.

Picture 23.

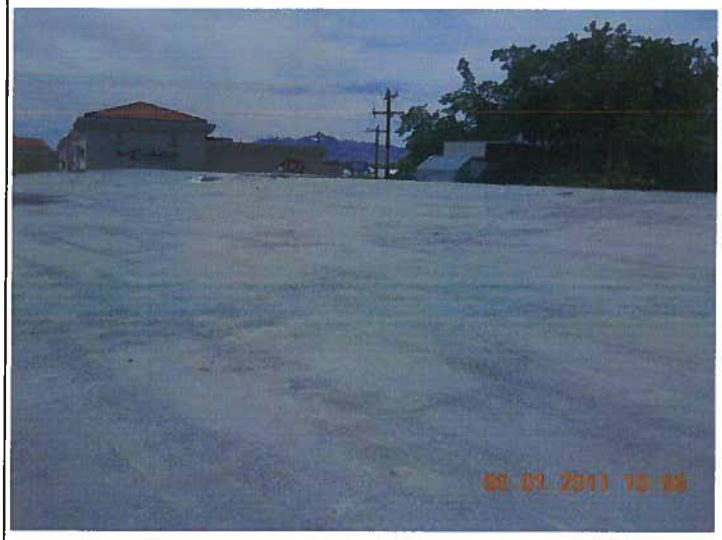
Picture 24.

Picture 25.

Picture 26.

Picture 27.

Picture 28. Ceiling sample.



Picture 1. Roofing.

Picture 2. Roofing.

Picture 3. Roofing .

Picture 4. Roofing sample.

Picture 5. Roofing.

Picture 6. Roofing sample.

Picture 7. Roofing sample.

Picture 8. Roofing sample.

Picture 9. Roofing sample.

Picture 10. Roofing sample.

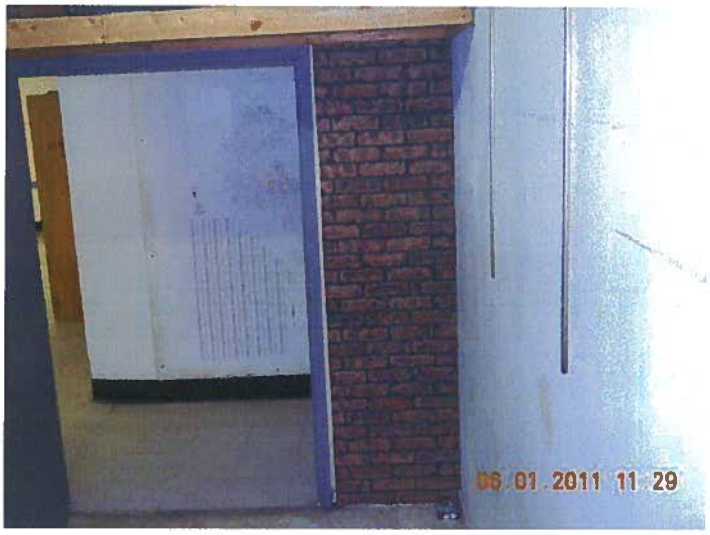
Pictures 11. Roof.

Pictures 12. Roof.

Picture 13. Roofing sample.

Picture 14. White/Beige vinyle tile.

Picture 15.

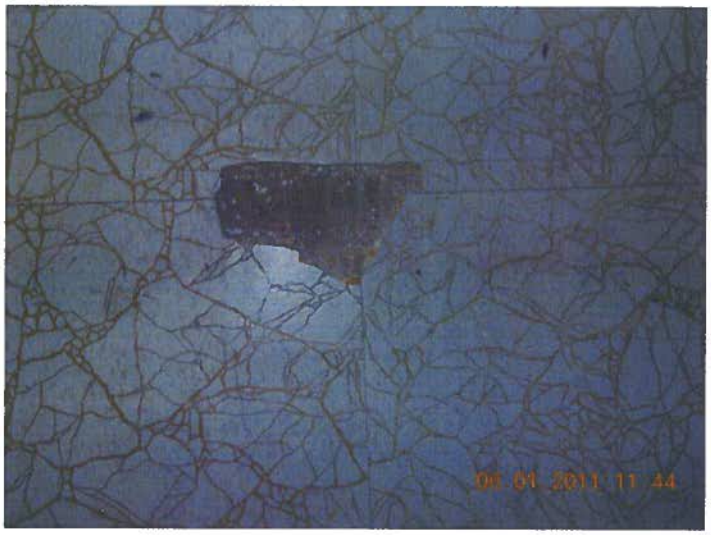


Picture 16.

Picture 17. Wallboard sample.

Picture 18. Wallboard sample.

Picture 19. Wallboard sample.



Picture 20. White/Beige tile sample.

Picture 21.

Picture 22.

Picture 23.

Picture 24.

Picture 25.

Picture 26.

Picture 27.

Picture 28. Ceiling sample.

Picture 29. Ceiling sample.

Picture 30. White vinyl tile sample.

Picture 31. Vinyl tile sample.

Picture 32. White vinyl tile sample.

Picture 33. Wallboard sample.

Picture 34. Wallboard sample.

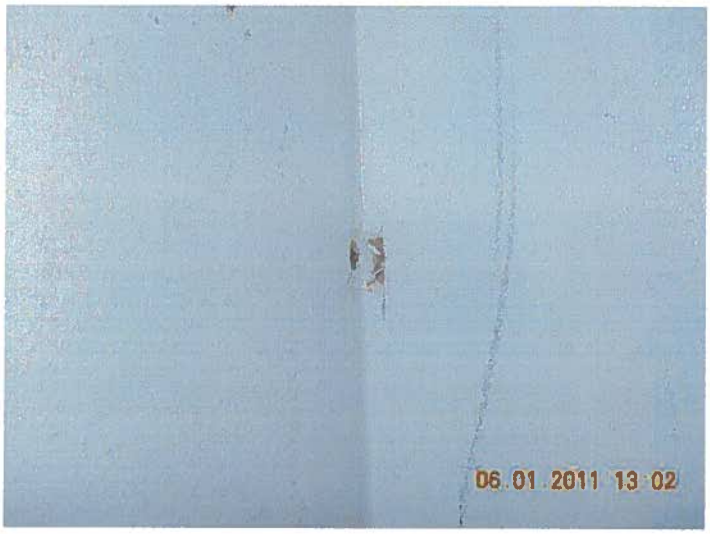
Picture 35. Wallboard sample.

Picture 36. Vinyl tile sample.

Picture 37.

Picture 38.

Picture 39.



Picture 40. Wallboard sample.

Picture 41. Grey vinyl tile sample

Picture 42. Ceiling

Picture 43.

Picture 44.

Picture 45.

Picture 46.

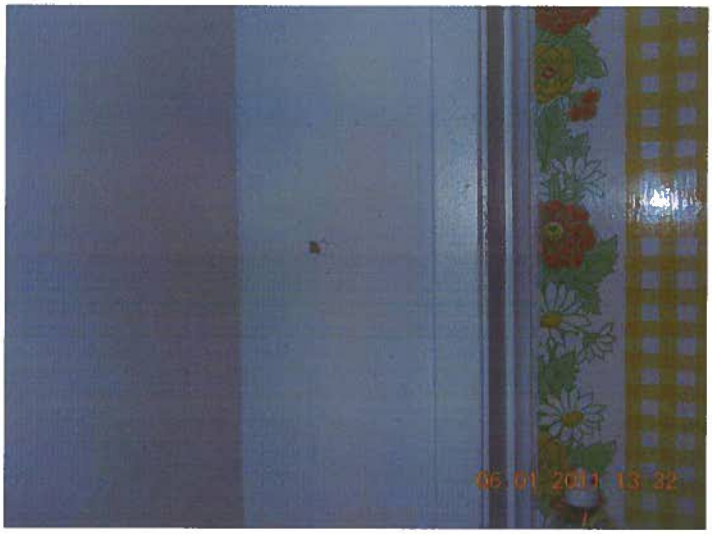
Picture 47.

Picture 48.

Picture 49.

Picture 50.

Picture 51. Ceiling sample.



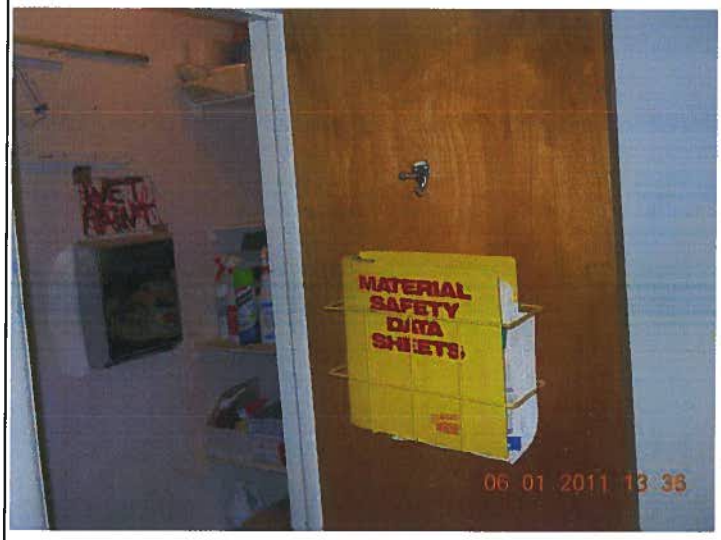
Picture 52. Wallboard sample.

Picture 53. Wallboard sample.

Picture 54. Wallboard sample.

Picture 55. Black cove base sample.

Picture 56. Black cove base sample.



Picture 57.

Picture 58.

Picture 59.

Picture 60. Ceiling.

Picture 61.

Picture 62.

Picture 63.

Picture 64.

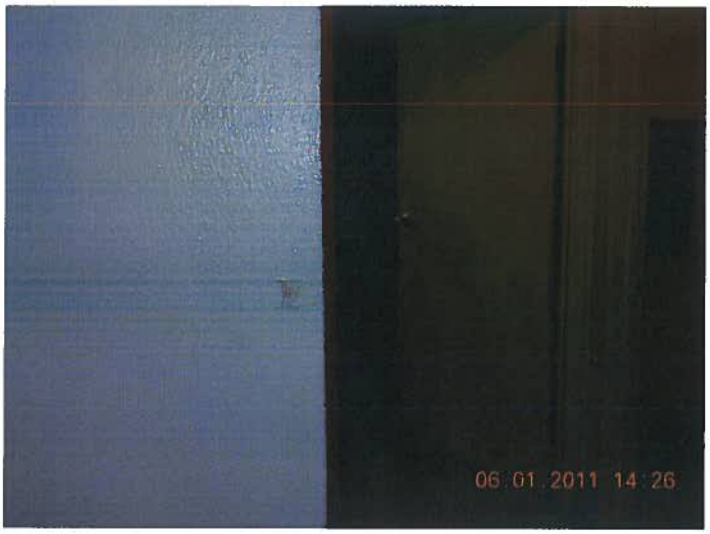
Picture 65.

Picture 66.

Picture 67. Wallboard sample.

Picture 68. Wallboard sample.

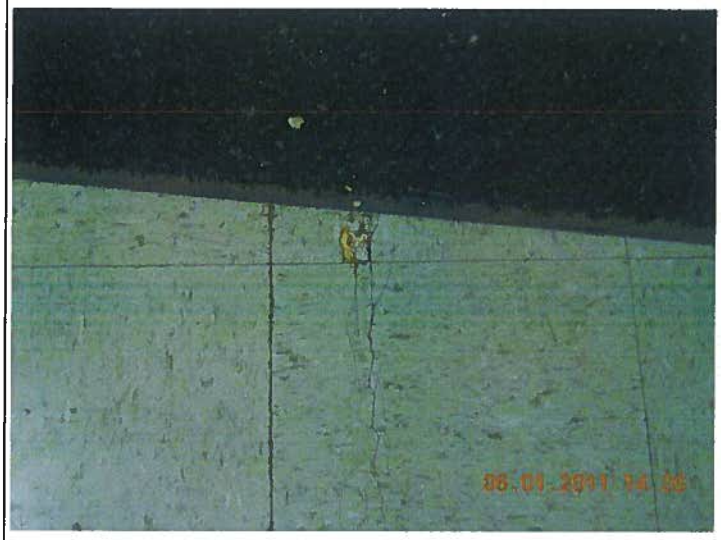
Picture 69. Wallboard sample.



Picture 70. Wallboard sample

Picture 71.

Picture 72.

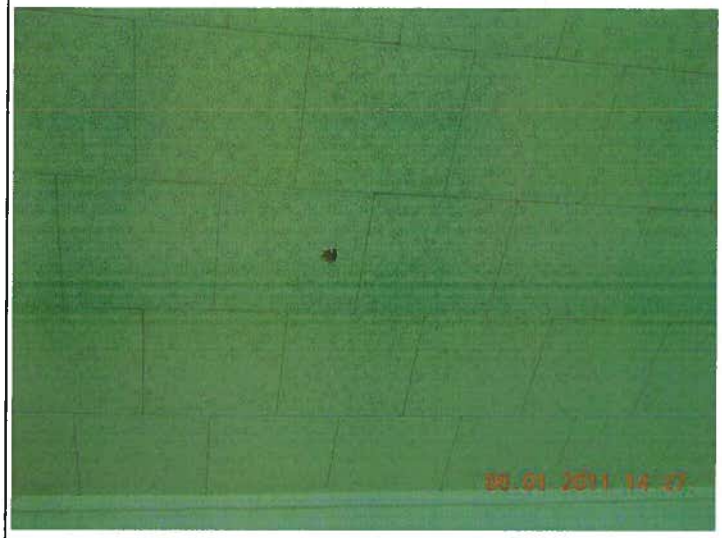


Picture 73.

Picture 74.

Picture 75.

Picture 76.

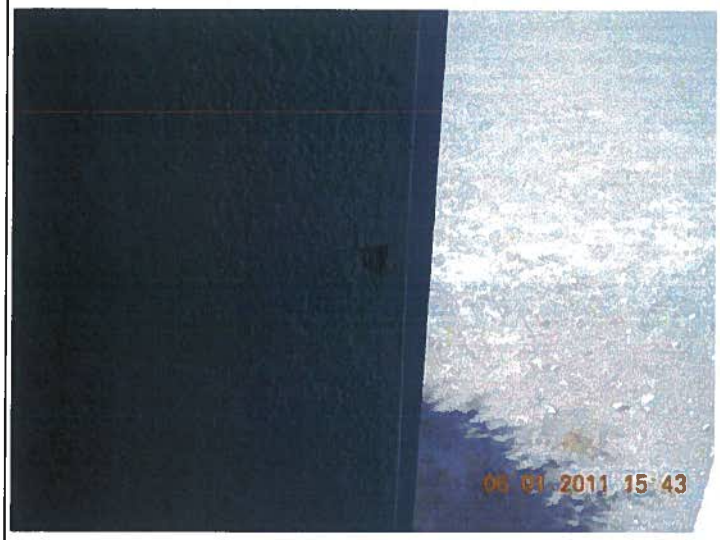


Picture 77.

Picture 78.

Picture 79.

Picture 80.



Picture 81. Wallboard sample.

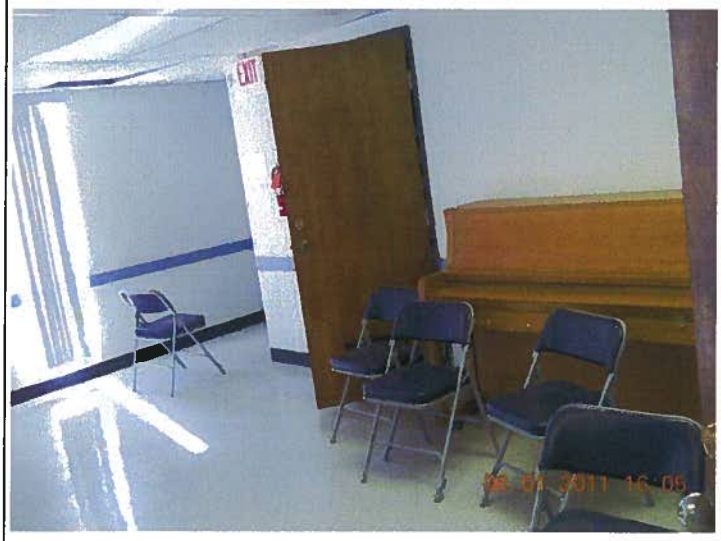
Picture 82.

Picture 83. White vinyl tile sample.

Picture 84. Wallboard sample.

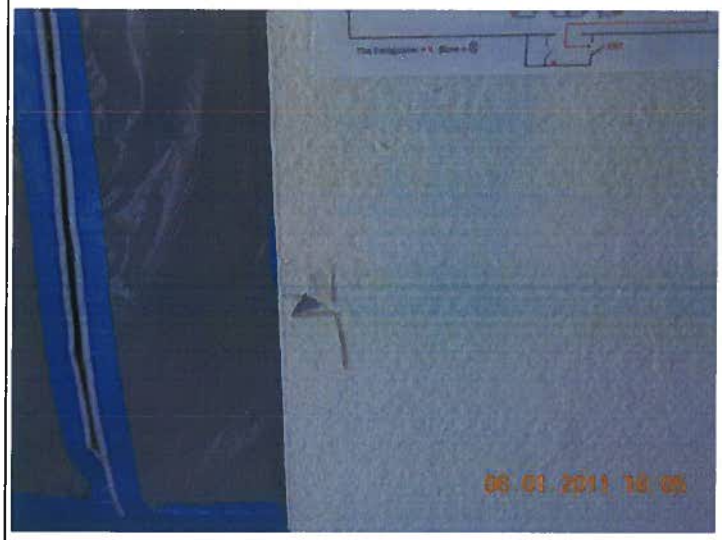
Picture 85. Wallboard sample.

Picture 86. Black cove base sample.

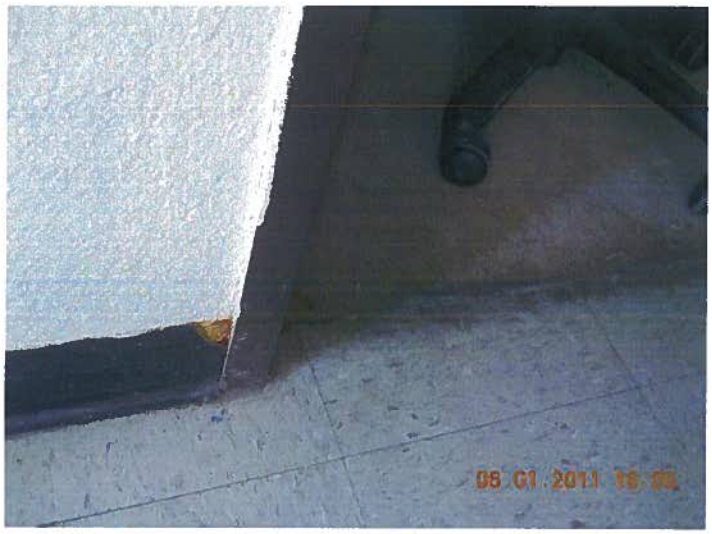


Picture 87.

Picture 88.



Picture 89. Wallboard sample.



Picture 90. Black cove base sample.

Picture 91. Vinyl tile sample.

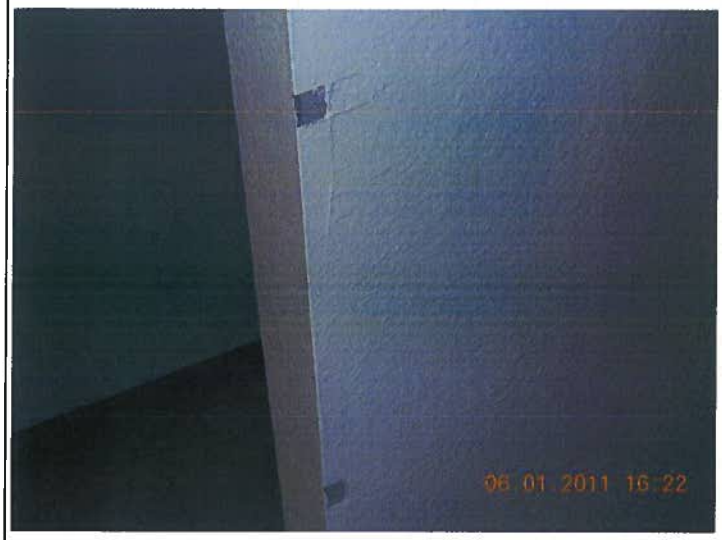
Picture 92. Wallboard sample.

Picture 93.

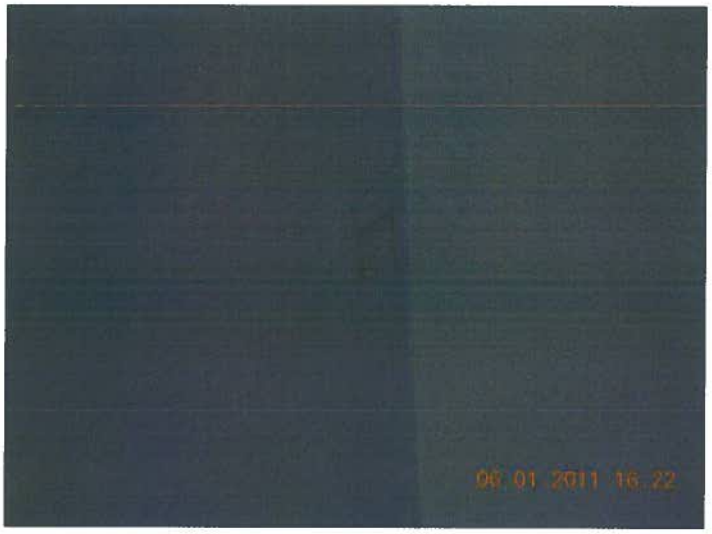
Picture 94.

Picture 95. Wallboard sample.

Picture 96. Vinyl tile sample.



Picture 97. Wallboard sample.

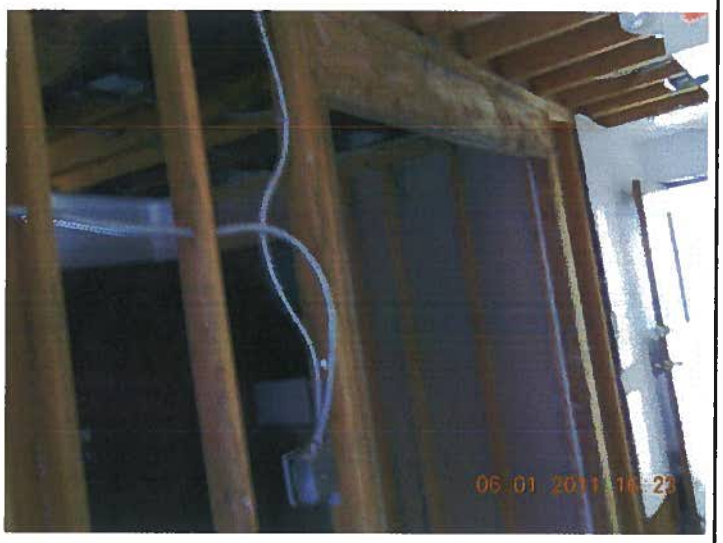


Picture 98. Wallboard sample.

Picture 99. Black cove base sample.

Picture 100. Wallboard sample.

Picture 101. Black cove base sample.



Picture 102.

Picture 103.

Picture 104.

FIBERQUANT ANALYTICAL SERVICES

Polarized Light Microscope (PLM) Analysis for Asbestos

JobNumber: 201105827

Client: BEC ENVIRONMENTAL INC

7660 W SAHARA AVE #150

LAS VEGAS, NV 89117-0000

Office Phone: (702) 304-9830

FAX: (702) 304-9839

 # Samples: 110 PLM **Rec:** 6/10/2011 **Method:** EPA 600/R-93/116 PLM analysis for asbestos in bulk smp

Client Job: 031.11.003 **PO Number:**

Report Date: 6/16/2011 **Date Analyzed:** 6/16/2011 **Routing Number:** -

Method and Analysis Information: **Fiberquant Internal SOP:** PLMn

Each bulk sample is first dissected under a 7-30x magnification stereo-microscope. This examination is used to determine the general type of sample, how many and what type of layers it has, and initial estimates of fiber types and quantities. Second, liquid media mounts are made of each layer - such mounts may be of selected fibers (used solely for identification purposes) or may be representative of the layer as a whole (used for quantitation purposes). The mounts may be made in a synthetic Canadian balsam, one of several solvents, or in refractive index oils (media of known refractive index). Generally, a variety of different mounts are made: some optimized for fiber visibility, some optimized for fiber identification, and some optimized for fiber quantitation. The mounted slides are then examined at 50-400x magnification on a Nikon Labphot-pol microscope. Optical characteristics are used to identify each observed fiber type; the optical data are contained for each sample on its detail analysis sheet, attached.

Current EPA and NESHAP regulations designate a result of <=1 % asbestos as "negative" and >1 % asbestos as "positive". Samples containing layers that have been determined to be "positive" may have to be handled differently during a renovation or demolition than samples whose layers have been determined to be "negative."

The method of fiber analysis and identification is the EPA Method 600/R-93/116. The method of fiber quantitation is an estimation technique in which the analysts quantitation is routinely calibrated by reference quantitation standards, and which has been shown to be equivalent in precision and accuracy to point counting. Friability is estimated for the purposes of deciding when to point count. Friabilities determined in the field take precedence over those determined in the laboratory. Those sample layers which are friable and estimated by the analyst to contain <= 1% asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Polutants, Nov. 1990) in order to rely on analytical results that are <= 1%. The coefficient of variation for the estimation quantitation technique is 100% in the range 0-5%. This means that PLM analysis is not capable of conclusively determining whether a layer containing close to 1% asbestos is actually "positive" or "negative". For this reason, Fiberquant refers to results where asbestos was detected but <= 1% as "borderline negative", and results where asbestos was >1 % but <= 2% as "borderline positive" to indicate the uncertainty in assigning a "positive" or "negative" label. In the sample summary, "ND" means that no asbestos was detected during the analysis. A "Tr" or "Trace" of asbestos reported is defined for our purposes as the detection of several asbestos fibers during the analysis; this level would be right at the limit of detection for the method. Trace is only reported on the analysis detail - in the summary a trace would be reported as <=1%. The limit of detection (the smallest % of asbestos that can be detected) varies greatly depending on the matrix in which the asbestos is found. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 1% stated in the method. During the analysis, the analyst, for Fiberquant identification purposes only, determines the "apparent sample type" and "apparent layer types." It must be emphasized that these types are only what is apparent. Often, different materials appear similar or identical after sampling, so the analyst may assign a type other than what was sampled.

Floor tiles present a special problem for PLM asbestos analysis. Floor tile can contain chrysotile fibers so thin that they cannot be resolved by optical methods. In such a case, we may observe a percentage of asbestos which is lower than the actual percentage, or not observe asbestos at all when some is present. For this reason, floor tiles reported as negative should be confirmed to be negative using transmission electron microscope (TEM) analysis. Likewise, vermiculite insulation materials containing traces of asbestiform asbestos present a problem for routine PLM analysis - the amphiboles are sometimes present in trace amounts inhomogeneously distributed. We recommend a hydro-separation technique for such samples.

Vermiculite-containing samples may contain trace amounts of asbestiform amphibole that may or may not be detected during routine PLM analysis. For this reason, loose vermiculite samples reported as negative should be confirmed to contain no amphibole using hydroseparation techniques.

The samples were analyzed under the following ongoing quality assurance program: Blank samples are routinely analyzed to maintain contamination-free materials. Each analyst has at least a bachelor's degree in physical science, and has also completed extensive training specific to asbestos analysis for 1-3 months before being allowed to analyze client samples. Qualitative reference samples are routinely analyzed to assure that analysts can identify asbestos and asbestos-look-alike fibers. Quantitative reference samples are routinely analyzed to calibrate and characterize the estimation procedure. Microscope alignment is checked each day. Refractive index oils are calibrated at least quarterly. At least 10% of client samples are re-analyzed from scratch by a different analyst than the original, and any discrepancies are resolved for the sample and similar sample types before the results are reported. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. All analysts participate in interlab round robins and proficiency testing to assure competence. Fiberquant is accredited by NVLAP (Lab #101031) for the analysis of bulk samples for asbestos using PLM. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling

process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

PLM Analysis Summary: **Job Number: 201105827** 031.11.003

Sample Number / Layer	Color	Apparent Layer Type *	Lab Number / Asbestos Results	Apparent Sample Type *	Positive Layer Yes or No
Sample # **RF-ACM-001a**			2011-05827- 1	Roofing	Positive Layer? No
Layer # 1	silver	paint	*no asbestos detected*		
Layer # 2	black	roof ply	*no asbestos detected*		
Layer # 3	black	roof ply	*no asbestos detected*		
Layer # 4	black	bitumen	*no asbestos detected*		
Layer # 5	black	roof ply	*no asbestos detected*		
Sample # **RF-ACM-002b**			2011-05827- 2	Roofing	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	silver	paint	*no asbestos detected*		
Layer # 3	black	roof ply	*no asbestos detected*		
Layer # 4	black	bitumen	*no asbestos detected*		
Sample # **RF-ACM-003c**			2011-05827- 3	Roofing	Positive Layer? Yes
Layer # 1	silver	paint	*>1-2% chrysotile asbestos*		
Layer # 2	black	roof ply	*no asbestos detected*		
Layer # 3	black	roof ply	*no asbestos detected*		
Layer # 4	black	bitumen	*no asbestos detected*		
Sample # **RF-ACM-004d**			2011-05827- 4	Roofing	Positive Layer? Yes
Layer # 1	silver	paint	*>1-2% chrysotile asbestos*		
Layer # 2	black	roof ply	*no asbestos detected*		
Layer # 3	black	bitumen	*no asbestos detected*		
Layer # 4	black	roof ply	*no asbestos detected*		
Layer # 5	black	bitumen	*no asbestos detected*		
Sample # **RF-ACM-005e**			2011-05827- 5	Roofing	Positive Layer? Yes
Layer # 1	silver	paint	*>1-2% chrysotile asbestos*		
Layer # 2	black	roof ply	*no asbestos detected*		
Layer # 3	black	bitumen	*no asbestos detected*		
Layer # 4	black	roof ply	*no asbestos detected*		
Layer # 5	black	bitumen	*no asbestos detected*		
Sample # **RF-ACM-006f**			2011-05827- 6	Roofing	Positive Layer? Yes
Layer # 1	silver	paint	*>1-2% chrysotile asbestos*		
Layer # 2	black	roof ply	*no asbestos detected*		
Layer # 3	black	bitumen	*no asbestos detected*		
Sample # **RF-ACM-007g**			2011-05827- 7	Roofing	Positive Layer? Yes
Layer # 1	silver	paint	*>1-2% chrysotile asbestos*		
Layer # 2	black	bitumen	*no asbestos detected*		
Layer # 3	black	roof ply	*no asbestos detected*		
Layer # 4	black	bitumen	*no asbestos detected*		
Sample # **RF-ACM-008h**			2011-05827- 8	Roofing	Positive Layer? Yes
Layer # 1	silver	paint	*>1-2% chrysotile asbestos*		
Layer # 2	black	caulk	*10-20% chrysotile asbestos*		
Sample # **RF-ACM-009i**			2011-05827- 9	Roofing	Positive Layer? Yes
Layer # 1	silver	paint	*>1-2% chrysotile asbestos*		
Layer # 2	black	caulk	*no asbestos detected*		
Layer # 3	black	roof ply	*no asbestos detected*		
Layer # 4	black	bitumen	*no asbestos detected*		
Layer # 5	white	roofing roll/shingle	*no asbestos detected*		
Sample # **SR-ACM-001a**			2011-05827- 10	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 3	tan	paper/cardboard	*no asbestos detected*		
Layer # 4	white	drywall core	*no asbestos detected*		
Sample # **SR-ACM-002b**			2011-05827- 11	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		
Sample # **SR-ACM-003c**			2011-05827- 12	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		

Sample # **SR-ACM-004d**			2011-05827- 13	Flooring	Positive Layer? Yes
Layer # 1	off-white	floor tile	*5-10% chrysotile asbestos*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	white	leveling compound	*no asbestos detected*		
Sample # **SR-ACM-005e**			2011-05827- 14	Flooring	Positive Layer? Yes
Layer # 1	off-white	floor tile	*5-10% chrysotile asbestos*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	off-White	floor tile	*2-5% chrysotile asbestos*		
Layer # 4	yellow	mastic	*no asbestos detected*		
Sample # **SR-ACM-006f**			2011-05827- 15	Flooring	Positive Layer? Yes
Layer # 1	off-white	floor tile	*5-10% chrysotile asbestos*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	off-white	leveling compound	*no asbestos detected*		
Sample # **SR-ACM-007g**			2011-05827- 16	Ceiling System	Positive Layer? No
Layer # 1	white	spray-on ceiling	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		
Sample # **SR-ACM-008h**			2011-05827- 17	Ceiling System	Positive Layer? No
Layer # 1	white	spray-on ceiling	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		
Sample # **SR-ACM-009i**			2011-05827- 18	Ceiling System	Positive Layer? No
Layer # 1	white	spray-on ceiling	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		
Sample # **ENT-ACM-001a**			2011-05827- 19	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **ENT-ACM-002b**			2011-05827- 20	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **ENT-ACM-003c**			2011-05827- 21	Acoustical Tile	Positive Layer? No
Layer # 1	brown	acoustical tile	*no asbestos detected*		
Sample # **ENT-ACM-004d**			2011-05827- 22	Flooring	Positive Layer? Yes
Layer # 1	gray	floor tile	*2-5% chrysotile asbestos*		
Layer # 2	brown	mastic	*no asbestos detected*		
Sample # **ENT-ACM-005e**			2011-05827- 23	Flooring	Positive Layer? Yes
Layer # 1	gray	floor tile	*2-5% chrysotile asbestos*		
Layer # 2	brown	mastic	*no asbestos detected*		
Sample # **ENT-ACM-006f**			2011-05827- 24	Flooring	Positive Layer? Yes
Layer # 1	gray	floor tile	*2-5% chrysotile asbestos*		
Layer # 2	gray	miscellaneous	*no asbestos detected*		
Sample # **BRF-ACM-001a**			2011-05827- 25	Miscellaneous	Positive Layer? No
Layer # 1	gray	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Sample # **BRF-ACM-002b**			2011-05827- 26	Miscellaneous	Positive Layer? No
Layer # 1	gray	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Sample # **BRF-ACM-003c**			2011-05827- 27	Miscellaneous	Positive Layer? No
Layer # 1	gray	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Sample # **BRF-ACM-004d**			2011-05827- 28	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Layer # 3	off-white	paint	*no asbestos detected*		
Layer # 4	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Sample # **BRF-ACM-005e**			2011-05827- 29	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Layer # 3	off-white	paint	*no asbestos detected*		
Layer # 4	white	texture/joint compound	*no asbestos detected*		
Layer # 5	off-white	paper/cardboard	*no asbestos detected*		
Layer # 6	white	texture/joint compound	*no asbestos detected*		
Sample # **BRF-ACM-006f**			2011-05827- 30	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Layer # 3	yellow	fabric	*no asbestos detected*		
Sample # **BRF-ACM-007g**			2011-05827- 31	Flooring	Positive Layer? No
Layer # 1	gray	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **BRF-ACM-008h**			2011-05827- 32	Flooring	Positive Layer? No
Layer # 1	gray	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	brown	wood	*no asbestos detected*		

Sample # **BRF-ACM-009i**			2011-05827- 33	Flooring	Positive Layer? No
Layer # 1	gray	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **BRF-ACM-010j**			2011-05827- 34	Flooring	Positive Layer? No
Layer # 1	white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	white	leveling compound	*no asbestos detected*		
Sample # **BRF-ACM-011k**			2011-05827- 35	Flooring	Positive Layer? No
Layer # 1	white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **BRF-ACM-012l**			2011-05827- 36	Flooring	Positive Layer? No
Layer # 1	white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **TR-ACM-001a**			2011-05827- 37	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 3	off-white	paper/cardboard	*no asbestos detected*		
Layer # 4	white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 5	tan	paper/cardboard	*no asbestos detected*		
Sample # **TR-ACM-002b**			2011-05827- 38	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		
Sample # **TR-ACM-003c**			2011-05827- 39	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		
Sample # **TR-ACM-004d**			2011-05827- 40	Flooring	Positive Layer? No
Layer # 1	gray	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	off-white	leveling compound	*no asbestos detected*		
Sample # **TR-ACM-005e**			2011-05827- 41	Flooring	Positive Layer? No
Layer # 1	gray	floor tile	*no asbestos detected*		
Sample # **TR-ACM-006f**			2011-05827- 42	Flooring	Positive Layer? No
Layer # 1	gray	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	gray	debris	*no asbestos detected*		
Sample # **TR-ACM-007g**			2011-05827- 43	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **TR-ACM-008h**			2011-05827- 44	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **TR-ACM-009i**			2011-05827- 45	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **KT-ACM-001a**			2011-05827- 46	Flooring	Positive Layer? No
Layer # 1	white	floor tile	*no asbestos detected*		
Layer # 2	black	mastic	*no asbestos detected*		
Sample # **KT-ACM-002b**			2011-05827- 47	Flooring	Positive Layer? No
Layer # 1	white	floor tile	*no asbestos detected*		
Layer # 2	black	mastic	*no asbestos detected*		
Layer # 3	off-white	leveling compound	*no asbestos detected*		
Sample # **KT-ACM-003c**			2011-05827- 48	Flooring	Positive Layer? No
Layer # 1	white	floor tile	*no asbestos detected*		
Layer # 2	black	bitumen-paper	*no asbestos detected*		
Sample # **KT-ACM-004d**			2011-05827- 49	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **KT-ACM-005e**			2011-05827- 50	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **KT-ACM-006f**			2011-05827- 51	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **KT-ACM-007g**			2011-05827- 52	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Sample # **KT-ACM-008h**			2011-05827- 53	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Sample # **KT-ACM-009i**			2011-05827- 54	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		

Sample # **KT-ACM-010j**			2011-05827- 55	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	brown	mastic	*no asbestos detected*		
Sample # **KT-ACM-011k**			2011-05827- 56	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Sample # **KT-ACM-012l**			2011-05827- 57	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Layer # 3	brown	mastic	*no asbestos detected*		
Sample # **MR-ACM-001a**			2011-05827- 58	Flooring	Positive Layer? No
Layer # 1	gray	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **MR-ACM-002b**			2011-05827- 59	Flooring	Positive Layer? No
Layer # 1	gray	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	off-white	leveling compound	*no asbestos detected*		
Layer # 4	brown	wood	*no asbestos detected*		
Sample # **MR-ACM-003c**			2011-05827- 60	Flooring	Positive Layer? No
Layer # 1	gray	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	off-white	leveling compound	*no asbestos detected*		
Layer # 4	brown	wood	*no asbestos detected*		
Sample # **MR-ACM-004d**			2011-05827- 61	Flooring	Positive Layer? No
Layer # 1	gray	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	off-white	leveling compound	*no asbestos detected*		
Sample # **MR-ACM-005e**			2011-05827- 62	Flooring	Positive Layer? No
Layer # 1	gray	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Layer # 3	off-white	leveling compound	*no asbestos detected*		
Layer # 4	brown	wood	*no asbestos detected*		
Sample # **MR-ACM-006f**			2011-05827- 63	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Sample # **MR-ACM-007g**			2011-05827- 64	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Sample # **MR-ACM-008h**			2011-05827- 65	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Sample # **MR-ACM-009i**			2011-05827- 66	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Sample # **MR-ACM-010j**			2011-05827- 67	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Sample # **MR-ACM-011k**			2011-05827- 68	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **MR-ACM-012l**			2011-05827- 69	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **MR-ACM-013m**			2011-05827- 70	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **MR-ACM-014n**			2011-05827- 71	Acoustical Tile	Positive Layer? No
Layer # 1	brown	acoustical tile	*no asbestos detected*		
Sample # **MR-ACM-015o**			2011-05827- 72	Acoustical Tile	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	brown	acoustical tile	*no asbestos detected*		
Sample # **MR-ACM-016p**			2011-05827- 73	Wall System	Positive Layer? No
Layer # 1	various	paint	*no asbestos detected*		
Layer # 2	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 3	tan	paper/cardboard	*no asbestos detected*		
Layer # 4	white	drywall core	*no asbestos detected*		
Sample # **MR-ACM-017p**			2011-05827- 74	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Sample # **MR-ACM-018r**			2011-05827- 75	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	off-white	texture/joint compound	*<=1% chrysotile asbestos*		

Sample # **MR-ACM-019s**			2011-05827- 76	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	off-white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 3	tan	paper/cardboard	*no asbestos detected*		
Layer # 4	white	drywall core	*no asbestos detected*		
Sample # **MR-ACM-020t**			2011-05827- 77	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	tan	paper/cardboard	*no asbestos detected*		
Layer # 3	white	drywall core	*no asbestos detected*		
Sample # **RMB-ACM-001a**			2011-05827- 78	Flooring	Positive Layer? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **RMB-ACM-002b**			2011-05827- 79	Flooring	Positive Layer? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **RMB-ACM-003c**			2011-05827- 80	Flooring	Positive Layer? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **RMB-ACM-004d**			2011-05827- 81	Acoustical Tile	Positive Layer? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	tan	acoustical tile	*no asbestos detected*		
Sample # **RMB-ACM-005e**			2011-05827- 82	Acoustical Tile	Positive Layer? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	tan	acoustical tile	*no asbestos detected*		
Sample # **RMB-ACM-006f**			2011-05827- 83	Acoustical Tile	Positive Layer? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	tan	acoustical tile	*no asbestos detected*		
Sample # **RMB-ACM-007g**			2011-05827- 84	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	brown	mastic	*no asbestos detected*		
Sample # **RMB-ACM-008h**			2011-05827- 85	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	brown	mastic	*no asbestos detected*		
Sample # **RMB-ACM-009i**			2011-05827- 86	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	brown	mastic	*no asbestos detected*		
Layer # 3	white	mastic	*no asbestos detected*		
Sample # **RMB-ACM-010j**			2011-05827- 87	Wall System	Positive Layer? No
Layer # 1	various	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Layer # 3	tan	paper/cardboard	*no asbestos detected*		
Sample # **RMB-ACM-011k**			2011-05827- 88	Wall System	Positive Layer? No
Layer # 1	various	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Layer # 3	tan	paper/cardboard	*no asbestos detected*		
Sample # **RMB-ACM-012l**			2011-05827- 89	Wall System	Positive Layer? No
Layer # 1	various	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Layer # 3	tan	paper/cardboard	*no asbestos detected*		
Layer # 4	white	drywall core	*no asbestos detected*		
Sample # **RMA-ACM-001a**			2011-05827- 90	Flooring	Positive Layer? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **RMA-ACM-002b**			2011-05827- 91	Flooring	Positive Layer? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **RMA-ACM-003c**			2011-05827- 92	Flooring	Positive Layer? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **RMA-ACM-004d**			2011-05827- 93	Acoustical Tile	Positive Layer? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	off-white	acoustical tile	*no asbestos detected*		
Sample # **RMA-ACM-005e**			2011-05827- 94	Acoustical Tile	Positive Layer? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	off-white	acoustical tile	*no asbestos detected*		
Sample # **RMA-ACM-006f**			2011-05827- 95	Acoustical Tile	Positive Layer? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	off-white	acoustical tile	*no asbestos detected*		
Sample # **RMA-ACM-007g**			2011-05827- 96	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample # **RMA-ACM-008h**			2011-05827- 97	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		

Sample #	**RMA-ACM-009i**		2011-05827- 98	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample #	**RMA-ACM-010j**		2011-05827- 99	Wall System	Positive Layer? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Sample #	**RMA-ACM-011k**		2011-05827- 100	Wall System	Positive Layer? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Sample #	**RMA-ACM-012l**		2011-05827- 101	Wall System	Positive Layer? No
Layer # 1	off-white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Layer # 3	tan	paper/cardboard	*no asbestos detected*		
Layer # 4	white	drywall core	*no asbestos detected*		
Sample #	**BRB-ACM-001a**		2011-05827- 102	Flooring	Positive Layer? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample #	**BRB-ACM-002b**		2011-05827- 103	Flooring	Positive Layer? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample #	**BRB-ACM-003c**		2011-05827- 104	Flooring	Positive Layer? No
Layer # 1	off-white	floor tile	*no asbestos detected*		
Layer # 2	yellow	mastic	*no asbestos detected*		
Sample #	**BRB-ACM-004d**		2011-05827- 105	Wall System	Positive Layer? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*no asbestos detected*		
Sample #	**BRB-ACM-005e**		2011-05827- 106	Wall System	Positive Layer? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 3	tan	paper/cardboard	*no asbestos detected*		
Layer # 4	white	drywall core	*no asbestos detected*		
Sample #	**BRB-ACM-006f**		2011-05827- 107	Wall System	Positive Layer? No
Layer # 1	white	paint	*no asbestos detected*		
Layer # 2	white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 3	off-white	paper/cardboard	*no asbestos detected*		
Layer # 4	white	texture/joint compound	*<=1% chrysotile asbestos*		
Layer # 5	tan	paper/cardboard	*no asbestos detected*		
Layer # 6	white	drywall core	*no asbestos detected*		
Sample #	**BRB-ACM-007g**		2011-05827- 108	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Sample #	**BRB-ACM-008h**		2011-05827- 109	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		
Layer # 3	brown	mastic	*no asbestos detected*		
Sample #	**BRB-ACM-009i**		2011-05827- 110	Miscellaneous	Positive Layer? No
Layer # 1	black	base cove	*no asbestos detected*		
Layer # 2	off-white	mastic	*no asbestos detected*		

* Apparent Sample Types and Apparent Layer Types are as they appeared to the analyst. Since many types of materials appear similar after sampling damage, the apparent type of material may not be the actual type of material.

Sample RF-ACM-001a **Lab Number** 2011-05827- 1 **Sampled:** 6/1/2011 10:42 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid

Homogeneous No **# Layers** 5 **Pos Layer?** No **# Sub-Samples** 10

Non-Fibrous Components (in approx. decreasing order): bitumen, filler, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	3	silver	1	n.d.	n.d.	-	-	-	-
2	roof ply	22	black	1	10-20%	n.d.	-	-	-	-
3	roof ply	15	black	1	10-20%	n.d.	-	-	-	-
4	bitumen	50	black	1	n.d.	n.d.	-	-	-	-
5	roof ply	10	black	1	n.d.	60-70%	-	-	-	-
	Total %	100		**Overall %**	5-10%	5-10%	-	-	-	-
				Fiber Identification:	glass fiber	cellulose fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample RF-ACM-002b **Lab Number** 2011-05827- 2 **Sampled:** 6/1/2011 10:47 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid

Homogeneous No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 8

Non-Fibrous Components (in approx. decreasing order): bitumen, filler, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	off-white	1	n.d.	-	-	-	-	-
2	paint	2	silver	1	n.d.	-	-	-	-	-
3	roof ply	33	black	1	10-20%	-	-	-	-	-
4	bitumen	60	black	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	2-5%	-	-	-	-	-
				Fiber Identification:	glass fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

PLM Analysis Details **Job Number:** **201105827** 031.11.003

Sample RF-ACM-003c **Lab Number** 2011-05827- 3 **Sampled:** 6/1/2011 10:52 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid

Homogeneous No **# Layers** 4 **Pos Layer?** Yes **# Sub-Samples** 8

Non-Fibrous Components (in approx. decreasing order): bitumen, filler, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	6	silver	1	>1-2%	2-5%	n.d.	-	-	-
2	roof ply	32	black	1	n.d.	n.d.	10-20%	-	-	-
3	roof ply	32	black	1	n.d.	n.d.	10-20%	-	-	-
4	bitumen	30	black	1	n.d.	n.d.	n.d.	-	-	-
	Total %	100		**Overall %**	<=1%	<=1%	5-10%	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber	glass fiber			

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3	glass fiber	CL	D	Y									
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample RF-ACM-004d **Lab Number** 2011-05827- 4 **Sampled:** 6/1/2011 10:57 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid

Homogeneous No **# Layers** 5 **Pos Layer?** Yes **# Sub-Samples** 10

Non-Fibrous Components (in approx. decreasing order): bitumen, filler, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	silver	1	>1-2%	n.d.	2-5%	-	-	-
2	roof ply	25	black	1	n.d.	10-20%	n.d.	-	-	-
3	bitumen	20	black	1	n.d.	n.d.	n.d.	-	-	-
4	roof ply	30	black	1	n.d.	n.d.	60-70%	-	-	-
5	bitumen	20	black	1	n.d.	n.d.	n.d.	-	-	-
	Total %	100		**Overall %**	<=1%	2-5%	10-20%	-	-	-
				Fiber Identification:	chrysotile asbestos	glass fiber	cellulose fiber			

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	glass fiber	CL	D	Y									
3	cellulose fiber	W	F	N	N	H	+	U					
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample RF-ACM-005e **Lab Number** 2011-05827- 5 **Sampled:** 6/1/2011 11:02 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid
Homogeneous No **# Layers** 5 **Pos Layer?** Yes **# Sub-Samples** 8
Non-Fibrous Components (in approx. decreasing order): bitumen, filler, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	silver	1	>1-2%	n.d.	2-5%	-	-	-
2	roof ply	25	black	1	n.d.	10-20%	n.d.	-	-	-
3	bitumen	20	black	1	n.d.	n.d.	n.d.	-	-	-
4	roof ply	30	black	1	n.d.	n.d.	60-70%	-	-	-
5	bitumen	20	black	1	n.d.	n.d.	n.d.	-	-	-
	Total %	100		**Overall %**	<=1%	2-5%	10-20%	-	-	-
				Fiber Identification:	chrysotile asbestos	glass fiber	cellulose fiber			

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	glass fiber	CL	D	Y									
3	cellulose fiber	W	F	N	N	H	+	U					
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample RF-ACM-006f **Lab Number** 2011-05827- 6 **Sampled:** 6/1/2011 11:07 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** Yes **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): bitumen, filler, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	10	silver	1	>1-2%	2-5%	n.d.	-	-	-
2	roof ply	50	black	1	n.d.	n.d.	10-20%	-	-	-
3	bitumen	40	black	1	n.d.	n.d.	n.d.	-	-	-
	Total %	100		**Overall %**	<=1%	<=1%	5-10%	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber	glass fiber			

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3	glass fiber	CL	D	Y									
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample RF-ACM-007g **Lab Number** 2011-05827- 7 **Sampled:** 6/1/2011 11:12 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid

Homogeneous No **# Layers** 4 **Pos Layer?** Yes **# Sub-Samples** 8

Non-Fibrous Components (in approx. decreasing order): bitumen, filler, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	silver	1	>1-2%	2-5%	n.d.	-	-	-
2	bitumen	10	black	1	n.d.	n.d.	n.d.	-	-	-
3	roof ply	55	black	1	n.d.	n.d.	10-20%	-	-	-
4	bitumen	30	black	1	n.d.	n.d.	n.d.	-	-	-
	Total %	100		**Overall %**	<=1%	<=1%	5-10%	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber	glass fiber			

	Fibers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3	glass fiber	CL	D	Y									
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample RF-ACM-008h **Lab Number** 2011-05827- 8 **Sampled:** 6/1/2011 11:16 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid

Homogeneous No **# Layers** 2 **Pos Layer?** Yes **# Sub-Samples** 4

Non-Fibrous Components (in approx. decreasing order): bitumen, filler, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	silver	1	>1-2%	-	-	-	-	-
2	caulk	95	black	1	10-20%	-	-	-	-	-
	Total %	100		**Overall %**	10-20%	-	-	-	-	-
				Fiber Identification:	chrysotile asbestos					

	Fibers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample RF-ACM-009i **Lab Number** 2011-05827- 9 **Sampled:** 6/1/2011 11:20 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Roofing Fibrous Solid
Homogeneous No **# Layers** 5 **Pos Layer?** Yes **# Sub-Samples** 10
Non-Fibrous Components (in approx. decreasing order): bitumen, filler, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	silver	1	>1-2%	n.d.	n.d.	-	-	-
2	caulk	10	black	1	n.d.	10-20%	n.d.	-	-	-
3	roof ply	30	black	1	n.d.	n.d.	10-20%	-	-	-
4	bitumen	20	black	1	n.d.	n.d.	n.d.	-	-	-
5	roofing roll/shingle	35	white	1	n.d.	n.d.	5-10%	-	-	-
	Total %	100		**Overall %**	<=1%	>1-2%	5-10%	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber	glass fiber			

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3	glass fiber	CL	D	Y									
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of bitumen matrix using solvent.

Sample SR-ACM-001a **Lab Number** 2011-05827- 10 **Sampled:** 6/1/2011 11:24 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid
Homogeneous No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 12
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	3	off-white	1	n.d.	n.d.	n.d.	-	-	-
2	texture/joint compound	7	white	3	<=1%	n.d.	n.d.	-	-	-
3	paper/cardboard	15	tan	2	n.d.	90-100%	n.d.	-	-	-
4	drywall core	75	white	3	n.d.	<=1%	<=1%	-	-	-
	Total %	100		**Overall %**	<=1%	10-20%	<=1%	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber	glass fiber			

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3	glass fiber	CL	D	Y									
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid. Point Count: Layer Number 2; 0 asbestos counts per 400 total counts = Trace percent.

Sample SR-ACM-002b **Lab Number** 2011-05827- 11 **Sampled:** 6/1/2011 11:28 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	3	off-white	1	n.d.	n.d.	-	-	-	-
2	paper/cardboard	7	tan	2	90-100%	n.d.	-	-	-	-
3	drywall core	90	white	3	>1-2%	<=1%	-	-	-	-
	Total %	100		**Overall %**	5-10%	<=1%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

	Fibers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample SR-ACM-003c **Lab Number** 2011-05827- 12 **Sampled:** 6/1/2011 11:33 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	20	off-white	1	n.d.	n.d.	-	-	-	-
2	paper/cardboard	65	tan	2	90-100%	n.d.	-	-	-	-
3	drywall core	15	white	3	>1-2%	<=1%	-	-	-	-
	Total %	100		**Overall %**	60-70%	<=1%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

	Fibers	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample SR-ACM-004d **Lab Number** 2011-05827- 13 **Sampled:** 6/1/2011 11:35 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid

Homogeneous No **# Layers** 3 **Pos Layer?** Yes **# Sub-Samples** 6

Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability
1	floor tile	45	off-white	1
2	mastic	5	yellow	2
3	leveling compound	50	white	3
	Total %	100	**Overall %**	

Percents of Each Fiber

Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
5-10%	n.d.	-	-	-	-
n.d.	n.d.	-	-	-	-
n.d.	>1-2%	-	-	-	-
2-5%	<=1%	-	-	-	-
Fiber Identification:	chrysotile asbestos	cellulose fiber			

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	chrysotile asbestos	W	A	N	N	L	+	P
2	cellulose fiber	W	F	N	N	H	+	U
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per
1.550	vb/g	sb/o	1.556	1.553

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent. Procedure: dissolution of matrix using dilute HCl acid.

Sample SR-ACM-005e **Lab Number** 2011-05827- 14 **Sampled:** 6/1/2011 11:37 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid

Homogeneous No **# Layers** 4 **Pos Layer?** Yes **# Sub-Samples** 8

Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability
1	floor tile	30	off-white	1
2	mastic	2	yellow	2
3	floor tile	66	off-White	1
4	mastic	2	yellow	2
	Total %	100	**Overall %**	

Percents of Each Fiber

Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
5-10%	-	-	-	-	-
n.d.	-	-	-	-	-
2-5%	-	-	-	-	-
n.d.	-	-	-	-	-
5-10%	-	-	-	-	-
Fiber Identification:	chrysotile asbestos				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	chrysotile asbestos	W	A	N	N	L	+	P
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per
1.550	vb/g	sb/o	1.556	1.553

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample SR-ACM-006f **Lab Number** 2011-05827- 15 **Sampled:** 6/1/2011 11:40 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid

Homogeneous No **# Layers** 3 **Pos Layer?** Yes **# Sub-Samples** 6

Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	60	off-white	1	5-10%	n.d.	-	-	-	-
2	mastic	10	yellow	2	n.d.	n.d.	-	-	-	-
3	leveling compound	30	off-white	3	n.d.	>1-2%	-	-	-	-
	Total %	100		**Overall %**	5-10%	<=1%	-	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent. Procedure: dissolution of matrix using dilute HCl acid.

Sample SR-ACM-007g **Lab Number** 2011-05827- 16 **Sampled:** 6/1/2011 11:42 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Ceiling System Fibrous Solid

Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6

Non-Fibrous Components (in approx. decreasing order): filler, polymer foam, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	spray-on ceiling	60	white	3	n.d.	-	-	-	-	-
2	paper/cardboard	25	tan	2	90-100%	-	-	-	-	-
3	drywall core	15	white	3	>1-2%	-	-	-	-	-
	Total %	100		**Overall %**	20-30%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of sprayed material using acid.

Sample SR-ACM-008h **Lab Number** 2011-05827- 17 **Sampled:** 6/1/2011 11:46 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Ceiling System Fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, polymer foam, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	spray-on ceiling	30	white	3	n.d.	-	-	-	-	-
2	paper/cardboard	60	tan	2	90-100%	-	-	-	-	-
3	drywall core	10	white	3	>1-2%	-	-	-	-	-
	Total %	100		**Overall %**	50-60%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of sprayed material using acid.

Sample SR-ACM-009i **Lab Number** 2011-05827- 18 **Sampled:** 6/1/2011 11:48 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Ceiling System Fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, polymer foam, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	spray-on ceiling	60	white	3	n.d.	-	-	-	-	-
2	paper/cardboard	20	tan	2	90-100%	-	-	-	-	-
3	drywall core	20	white	3	>1-2%	-	-	-	-	-
	Total %	100		**Overall %**	10-20%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of sprayed material using acid.

Sample ENT-ACM-001a **Lab Number** 2011-05827- 19 **Sampled:** 6/1/2011 12:05 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability
1	paint	20	off-white	1
2	acoustical tile	80	brown	3
	Total %	100	**Overall %**	

Percents of Each Fiber

	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	-	-	-	-	-
	90-100%	-	-	-	-	-
	70-80%	-	-	-	-	-
Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample ENT-ACM-002b **Lab Number** 2011-05827- 20 **Sampled:** 6/1/2011 12:08 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability
1	paint	5	off-white	1
2	acoustical tile	95	brown	3
	Total %	100	**Overall %**	

Percents of Each Fiber

	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	-	-	-	-	-
	90-100%	-	-	-	-	-
	90-100%	-	-	-	-	-
Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample ENT-ACM-003c **Lab Number** 2011-05827- 21 **Sampled:** 6/1/2011 12:10 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability
1	acoustical tile	100	brown	3
	Total %	100	**Overall %**	

Percents of Each Fiber

	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	90-100%	-	-	-	-	-
	90-100%	-	-	-	-	-
Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample ENT-ACM-004d **Lab Number** 2011-05827- 22 **Sampled:** 6/1/2011 12:14 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** Yes **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
					Percents of Each Fiber					
1	floor tile	95	gray	1	2-5%	>1-2%	-	-	-	-
2	mastic	5	brown	1	n.d.	2-5%	-	-	-	-
	Total %	100		Overall %	2-5%	2-5%	-	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample ENT-ACM-005e **Lab Number** 2011-05827- 23 **Sampled:** 6/1/2011 12:18 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** Yes **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
					Percents of Each Fiber					
1	floor tile	90	gray	1	2-5%	>1-2%	-	-	-	-
2	mastic	10	brown	1	n.d.	2-5%	-	-	-	-
	Total %	100		Overall %	2-5%	2-5%	-	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample ENT-ACM-006f **Lab Number** 2011-05827- 24 **Sampled:** 6/1/2011 12:21 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** Yes **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
					Percents of Each Fiber					
1	floor tile	60	gray	1	2-5%	>1-2%	-	-	-	-
2	miscellaneous	40	gray	2	n.d.	>1-2%	-	-	-	-
	Total %	100		Overall %	>1-2%	>1-2%	-	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample BRF-ACM-001a **Lab Number** 2011-05827- 25 **Sampled:** 6/1/2011 12:25 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability
1	base cove	97	gray	1
2	mastic	3	off-white	1
	Total %	100	**Overall %**	

Percents of Each Fiber

Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
n.d.	-	-	-	-	-
<=1%	-	-	-	-	-
<=1%	-	-	-	-	-
Fiber Identification: cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bl	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample BRF-ACM-002b **Lab Number** 2011-05827- 26 **Sampled:** 6/1/2011 12:26 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability
1	base cove	95	gray	1
2	mastic	5	off-white	1
	Total %	100	**Overall %**	

Percents of Each Fiber

Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
n.d.	-	-	-	-	-
<=1%	-	-	-	-	-
<=1%	-	-	-	-	-
Fiber Identification: cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bl	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample BRF-ACM-003c **Lab Number** 2011-05827- 27 **Sampled:** 6/1/2011 12:28 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery

Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base cove	98	gray	1	n.d.	-	-	-	-	-
2	mastic	2	off-white	1	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample BRF-ACM-004d **Lab Number** 2011-05827- 28 **Sampled:** 6/1/2011 12:30 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 12

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	15	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	25	white	3	n.d.	-	-	-	-	-
3	paint	25	off-white	1	n.d.	-	-	-	-	-
4	texture/joint compound	35	off-white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	chrysotile asbestos					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid. Point Count: Layer Number 4; 0 asbestos counts per 400 total counts = Trace percent.

Sample BRF-ACM-005e **Lab Number** 2011-05827- 29 **Sampled:** 6/1/2011 12:32 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 6 **Pos Layer?** No **# Sub-Samples** 12

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	10	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	40	white	3	n.d.	-	-	-	-	-
3	paint	10	off-white	1	n.d.	-	-	-	-	-
4	texture/joint compound	10	white	3	n.d.	-	-	-	-	-
5	paper/cardboard	20	off-white	2	90-100%	-	-	-	-	-
6	texture/joint compound	10	white	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	10-20%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid.

Sample BRF-ACM-006f **Lab Number** 2011-05827- 30 **Sampled:** 6/1/2011 12:35 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	15	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	80	white	3	n.d.	-	-	-	-	-
3	fabric	5	yellow	2	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	2-5%	-	-	-	-	-
				Fiber Identification:	glass fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	glass fiber	CL	D	Y									
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid.

Sample BRF-ACM-007g **Lab Number** 2011-05827- 31 **Sampled:** 6/1/2011 12:37 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	95	gray	1	n.d.	-	-	-	-	-
2	mastic	5	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample BRF-ACM-008h **Lab Number** 2011-05827- 32 **Sampled:** 6/1/2011 12:38 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	90	gray	1	n.d.	-	-	-	-	-
2	mastic	3	yellow	1	n.d.	-	-	-	-	-
3	wood	7	brown	2	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	5-10%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample BRF-ACM-009i **Lab Number** 2011-05827- 33 **Sampled:** 6/1/2011 12:40 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	98	gray	1	n.d.	-	-	-	-	-
2	mastic	2	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample BRF-ACM-010j **Lab Number** 2011-05827- 34 **Sampled:** 6/1/2011 12:42 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	92	white	1	n.d.	-	-	-	-	-
2	mastic	5	yellow	1	n.d.	-	-	-	-	-
3	leveling compound	3	white	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample BRF-ACM-011k **Lab Number** 2011-05827- 35 **Sampled:** 6/1/2011 12:45 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	95	white	1	n.d.	-	-	-	-	-
2	mastic	5	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample BRF-ACM-012l **Lab Number** 2011-05827- 36 **Sampled:** 6/1/2011 12:47 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	99	white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample TR-ACM-001a **Lab Number** 2011-05827- 37 **Sampled:** 6/1/2011 12:51 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 5 **Pos Layer?** No **# Sub-Samples** 14

Non-Fibrous Components (in approx. decreasing order): powder, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	10	off-white	1	n.d.	n.d.	-	-	-	-
2	texture/joint compound	50	white	3	<=1%	n.d.	-	-	-	-
3	paper/cardboard	15	off-white	2	n.d.	90-100%	-	-	-	-
4	texture/joint compound	5	white	3	<=1%	n.d.	-	-	-	-
5	paper/cardboard	20	tan	2	n.d.	90-100%	-	-	-	-
	Total %	100		**Overall %**	<=1%	30-40%	-	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid. Note: the texture/joint compound layers were identical in appearance and asbestos content. One point count was used to quantify them. Point Count: Layer Number 2,4; 0 asbestos counts per 400 total counts = Trace percent.

Sample TR-ACM-002b **Lab Number** 2011-05827- 38 **Sampled:** 6/1/2011 12:53 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	15	off-white	1	n.d.	n.d.	-	-	-	-
2	paper/cardboard	50	tan	2	90-100%	n.d.	-	-	-	-
3	drywall core	35	white	3	<=1%	<=1%	-	-	-	-
	Total %	100		**Overall %**	40-50%	<=1%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample TR-ACM-003c **Lab Number** 2011-05827- 39 **Sampled:** 6/1/2011 12:56 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid

Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	15	off-white	1	n.d.	n.d.	-	-	-	-
2	paper/cardboard	40	tan	2	90-100%	n.d.	-	-	-	-
3	drywall core	45	white	3	<=1%	<=1%	-	-	-	-
	Total %	100		**Overall %**	30-40%	<=1%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample TR-ACM-004d **Lab Number** 2011-05827- 40 **Sampled:** 6/1/2011 12:59 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid

Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	85	gray	1	n.d.	-	-	-	-	-
2	mastic	3	yellow	2	n.d.	-	-	-	-	-
3	leveling compound	12	off-white	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample TR-ACM-005e **Lab Number** 2011-05827- 41 **Sampled:** 6/1/2011 13:01 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	100	gray	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample TR-ACM-006f **Lab Number** 2011-05827- 42 **Sampled:** 6/1/2011 13:02 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	90	gray	1	n.d.	n.d.	-	-	-	-
2	mastic	7	yellow	1	2-5%	<=1%	-	-	-	-
3	debris	3	gray	3	20-30%	n.d.	-	-	-	-
	Total %	100		**Overall %**	>1-2%	<=1%	-	-	-	-
				Fiber Identification:	synthetic fiber (extr	hair				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	synthetic fiber (extruded)	W	E	N	N	H	+	P					
2	hair	BR	E	N									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample TR-ACM-007g **Lab Number** 2011-05827- 43 **Sampled:** 6/1/2011 13:03 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	off-white	1	n.d.	-	-	-	-	-
2	acoustical tile	95	brown	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	90-100%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample TR-ACM-008h **Lab Number** 2011-05827- 44 **Sampled:** 6/1/2011 13:04 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability
1	paint	5	off-white	1
2	acoustical tile	95	brown	3
	Total %	100	**Overall %**	

Percents of Each Fiber

Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
n.d.	-	-	-	-	-
90-100%	-	-	-	-	-
90-100%	-	-	-	-	-
Fiber Identification:	cellulose fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample TR-ACM-009i **Lab Number** 2011-05827- 45 **Sampled:** 6/1/2011 13:05 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability
1	paint	10	off-white	1
2	acoustical tile	90	brown	3
	Total %	100	**Overall %**	

Percents of Each Fiber

Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
n.d.	-	-	-	-	-
90-100%	-	-	-	-	-
80-90%	-	-	-	-	-
Fiber Identification:	cellulose fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample KT-ACM-001a **Lab Number** 2011-05827- 46 **Sampled:** 6/1/2011 13:10 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability
1	floor tile	90	white	1
2	mastic	10	black	1
	Total %	100	**Overall %**	

Percents of Each Fiber

Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
n.d.	-	-	-	-	-
10-20%	-	-	-	-	-
>1-2%	-	-	-	-	-
Fiber Identification:	cellulose fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample KT-ACM-002b **Lab Number** 2011-05827- 47 **Sampled:** 6/1/2011 13:12 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability
1	floor tile	85	white	1
2	mastic	5	black	1
3	leveling compound	10	off-white	3
	Total %	100	**Overall %**	

Percents of Each Fiber

	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	-	-	-	-	-
	10-20%	-	-	-	-	-
	2-5%	-	-	-	-	-
	>1-2%	-	-	-	-	-
Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample KT-ACM-003c **Lab Number** 2011-05827- 48 **Sampled:** 6/1/2011 13:14 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability
1	floor tile	80	white	1
2	bitumen-paper	20	black	1
	Total %	100	**Overall %**	

Percents of Each Fiber

	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	-	-	-	-	-
	70-80%	-	-	-	-	-
	10-20%	-	-	-	-	-
Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample KT-ACM-004d **Lab Number** 2011-05827- 49 **Sampled:** 6/1/2011 13:17 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	4	off-white	1	n.d.	-	-	-	-	-
2	acoustical tile	96	brown	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	90-100%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample KT-ACM-005e **Lab Number** 2011-05827- 50 **Sampled:** 6/1/2011 13:16 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	4	off-white	1	n.d.	-	-	-	-	-
2	acoustical tile	96	brown	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	90-100%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample KT-ACM-006f **Lab Number** 2011-05827- 51 **Sampled:** 6/1/2011 13:18 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	10	off-white	1	n.d.	-	-	-	-	-
2	acoustical tile	90	brown	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	80-90%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample KT-ACM-007g **Lab Number** 2011-05827- 52 **Sampled:** 6/1/2011 13:23 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	15	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	85	off-white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	chrysotile asbestos					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid. Point Count: Layer Number 2; 0 asbestos counts per 400 total counts = Trace percent.

Sample KT-ACM-008h **Lab Number** 2011-05827- 53 **Sampled:** 6/1/2011 13:26 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	15	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	85	off-white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	chrysotile asbestos					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid. Point Count: Layer Number 2; 0 asbestos counts per 400 total counts = Trace percent.

Sample KT-ACM-009i **Lab Number** 2011-05827- 54 **Sampled:** 6/1/2011 13:30 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	20	off-white	1	n.d.	n.d.	-	-	-	-
2	paper/cardboard	60	tan	2	90-100%	n.d.	-	-	-	-
3	drywall core	20	white	3	<=1%	<=1%	-	-	-	-
	Total %	100		Overall %	50-60%	<=1%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample KT-ACM-010j **Lab Number** 2011-05827- 55 **Sampled:** 6/1/2011 13:33 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): polymer, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base cove	94	black	1	n.d.	-	-	-	-	-
2	mastic	6	brown	1	2-5%	-	-	-	-	-
	Total %	100		Overall %	<=1%	-	-	-	-	-
				Fiber Identification:	wollastonite					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	wollastonite	W	G	N	N	M	B	P					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample KT-ACM-011k **Lab Number** 2011-05827- 56 **Sampled:** 6/1/2011 13:37 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery

Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5

Non-Fibrous Components (in approx. decreasing order): polymer, binder,

Layers

#	Layer Type	%	Color	Friability
1	base cove	98	black	1
2	mastic	2	off-white	1
	Total %	100	**Overall %**	

Percents of Each Fiber	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	-	-	-	-	-
	>1-2%	-	-	-	-	-
	<=1%	-	-	-	-	-
Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations	Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample KT-ACM-012l **Lab Number** 2011-05827- 57 **Sampled:** 6/1/2011 13:40 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery

Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6

Non-Fibrous Components (in approx. decreasing order): polymer, binder,

Layers

#	Layer Type	%	Color	Friability
1	base cove	85	black	1
2	mastic	3	off-white	1
3	mastic	12	brown	1
	Total %	100	**Overall %**	

Percents of Each Fiber	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	n.d.	-	-	-	-
	>1-2%	n.d.	-	-	-	-
	<=1%	2-5%	-	-	-	-
	<=1%	<=1%	-	-	-	-
Fiber Identification:	cellulose fiber	wollastonite				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2	wollastonite	W	G	N	N	M	B	P
3								
4								
5								
6								

Refractive Index Determinations	Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample MR-ACM-001a **Lab Number** 2011-05827- 58 **Sampled:** 6/1/2011 13:50 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability
1	floor tile	97	gray	1
2	mastic	3	yellow	1
	Total %	100	**Overall %**	

Percents of Each Fiber

	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	-	-	-	-	-
	<=1%	-	-	-	-	-
Fiber Identification:	<=1%	-	-	-	-	-
	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample MR-ACM-002b **Lab Number** 2011-05827- 59 **Sampled:** 6/1/2011 13:51 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 8
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability
1	floor tile	87	gray	1
2	mastic	3	yellow	1
3	leveling compound	5	off-white	3
4	wood	5	brown	2
	Total %	100	**Overall %**	

Percents of Each Fiber

	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	-	-	-	-	-
	<=1%	-	-	-	-	-
	>1-2%	-	-	-	-	-
	90-100%	-	-	-	-	-
Fiber Identification:	2-5%	-	-	-	-	-
	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample MR-ACM-003c **Lab Number** 2011-05827- 60 **Sampled:** 6/1/2011 13:52 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 8
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability
1	floor tile	87	gray	1
2	mastic	3	yellow	1
3	leveling compound	5	off-white	3
4	wood	5	brown	2
	Total %	100	**Overall %**	2-5%

Percents of Each Fiber

Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
n.d.	-	-	-	-	-
<=1%	-	-	-	-	-
>1-2%	-	-	-	-	-
90-100%	-	-	-	-	-
2-5%	-	-	-	-	-
Fiber Identification: cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample MR-ACM-004d **Lab Number** 2011-05827- 61 **Sampled:** 6/1/2011 13:53 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability
1	floor tile	87	gray	1
2	mastic	3	yellow	1
3	leveling compound	10	off-white	3
	Total %	100	**Overall %**	<=1%

Percents of Each Fiber

Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
n.d.	-	-	-	-	-
<=1%	-	-	-	-	-
>1-2%	-	-	-	-	-
<=1%	-	-	-	-	-
Fiber Identification: cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample MR-ACM-005e **Lab Number** 2011-05827- 62 **Sampled:** 6/1/2011 13:55 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid

Homogeneous No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 8

Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability
1	floor tile	87	gray	1
2	mastic	1	yellow	1
3	leveling compound	2	off-white	3
4	wood	10	brown	2
	Total %	100	**Overall %**	

Percents of Each Fiber

Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
n.d.	-	-	-	-	-
<=1%	-	-	-	-	-
>1-2%	-	-	-	-	-
90-100%	-	-	-	-	-
5-10%	-	-	-	-	-
Fiber Identification: cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample MR-ACM-006f **Lab Number** 2011-05827- 63 **Sampled:** 6/1/2011 13:57 **Condition:** acceptable

Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery

Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5

Non-Fibrous Components (in approx. decreasing order): polymer, binder,

Layers

#	Layer Type	%	Color	Friability
1	base cove	90	black	1
2	mastic	10	off-white	1
	Total %	100	**Overall %**	

Percents of Each Fiber

Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
n.d.	-	-	-	-	-
<=1%	-	-	-	-	-
<=1%	-	-	-	-	-
Fiber Identification: cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext
1	cellulose fiber	W	F	N	N	H	+	U
2								
3								
4								
5								
6								

Refractive Index Determinations

Oil	Col Par	Col Per	RI Par	RI Per

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample MR-ACM-007g **Lab Number** 2011-05827- 64 **Sampled:** 6/1/2011 13:59 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): polymer, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base cove	95	black	1	n.d.	-	-	-	-	-
2	mastic	5	off-white	1	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample MR-ACM-008h **Lab Number** 2011-05827- 65 **Sampled:** 6/1/2011 14:02 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): polymer, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base cove	80	black	1	n.d.	-	-	-	-	-
2	mastic	20	off-white	1	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample MR-ACM-009i **Lab Number** 2011-05827- 66 **Sampled:** 6/1/2011 14:06 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): polymer, binder,

Layers

#	Layer Type	%	Color	Friability
1	base cove	95	black	1
2	mastic	5	off-white	1
	Total %	100		

Percents of Each Fiber	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	-	-	-	-	-
	<=1%	-	-	-	-	-
Overall %	<=1%	-	-	-	-	-
Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample MR-ACM-010j **Lab Number** 2011-05827- 67 **Sampled:** 6/1/2011 14:07 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): polymer, binder,

Layers

#	Layer Type	%	Color	Friability
1	base cove	95	black	1
2	mastic	5	off-white	1
	Total %	100		

Percents of Each Fiber	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	-	-	-	-	-
	<=1%	-	-	-	-	-
Overall %	<=1%	-	-	-	-	-
Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample MR-ACM-011k **Lab Number** 2011-05827- 68 **Sampled:** 6/1/2011 14:11 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	10	off-white	1	n.d.	-	-	-	-	-
2	acoustical tile	90	brown	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	80-90%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample MR-ACM-012l **Lab Number** 2011-05827- 69 **Sampled:** 6/1/2011 14:14 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	8	off-white	1	n.d.	-	-	-	-	-
2	acoustical tile	92	brown	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	80-90%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample MR-ACM-013m **Lab Number** 2011-05827- 70 **Sampled:** 6/1/2011 14:17 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	5	off-white	1	n.d.	-	-	-	-	-
2	acoustical tile	95	brown	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	90-100%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample MR-ACM-014n **Lab Number** 2011-05827- 71 **Sampled:** 6/1/2011 14:19 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	acoustical tile	100	brown	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	90-100%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample MR-ACM-015o **Lab Number** 2011-05827- 72 **Sampled:** 6/1/2011 14:23 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	10	off-white	1	n.d.	-	-	-	-	-
2	acoustical tile	90	brown	3	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	80-90%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample MR-ACM-016p **Lab Number** 2011-05827- 73 **Sampled:** 6/1/2011 14:30 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid
Homogeneous No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 12
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	20	various	1	n.d.	n.d.	-	-	-	-
2	texture/joint compound	40	off-white	3	<=1%	n.d.	-	-	-	-
3	paper/cardboard	30	tan	2	n.d.	90-100%	-	-	-	-
4	drywall core	10	white	3	n.d.	>1-2%	-	-	-	-
	Total %	100		**Overall %**	<=1%	20-30%	-	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid. Point Count: Layer Number 2; 0 asbestos counts per 400 total counts = Trace percent.

Sample MR-ACM-017p **Lab Number** 2011-05827- 74 **Sampled:** 6/1/2011 14:35 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	85	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	15	off-white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	chrysotile asbestos					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid. Point Count: Layer Number 2; 0 asbestos counts per 400 total counts = Trace percent.

Sample MR-ACM-018r **Lab Number** 2011-05827- 75 **Sampled:** 6/1/2011 14:39 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	50	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	50	off-white	3	<=1%	-	-	-	-	-
	Total %	100		**Overall %**	<=1%	-	-	-	-	-
				Fiber Identification:	chrysotile asbestos					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid. Point Count: Layer Number 2; 0 asbestos counts per 400 total counts = Trace percent.

Sample MR-ACM-019s **Lab Number** 2011-05827- 76 **Sampled:** 6/1/2011 14:42 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 12
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	20	off-white	1	n.d.	n.d.	n.d.	-	-	-
2	texture/joint compound	40	off-white	3	<=1%	n.d.	n.d.	-	-	-
3	paper/cardboard	20	tan	2	n.d.	90-100%	n.d.	-	-	-
4	drywall core	20	white	3	n.d.	<=1%	<=1%	-	-	-
	Total %	100		**Overall %**	<=1%	10-20%	<=1%	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber	glass fiber			

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3	glass fiber	CL	D	Y									
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of joint compound/texture matrix using acid. Point Count: Layer Number 2; 0 asbestos counts per 400 total counts = Trace percent.

Sample MR-ACM-020t **Lab Number** 2011-05827- 77 **Sampled:** 6/1/2011 14:45 **Condition:** acceptable
Analyzed By US 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, binder,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	20	off-white	1	n.d.	n.d.	-	-	-	-
2	paper/cardboard	40	tan	2	90-100%	n.d.	-	-	-	-
3	drywall core	40	white	3	<=1%	<=1%	-	-	-	-
	Total %	100		**Overall %**	30-40%	<=1%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent.

Sample RMB-ACM-001a **Lab Number** 2011-05827- 78 **Sampled:** 6/1/2011 15:21 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample RMB-ACM-002b **Lab Number** 2011-05827- 79 **Sampled:** 6/1/2011 15:24 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample RMB-ACM-003c **Lab Number** 2011-05827- 80 **Sampled:** 6/1/2011 15:27 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample RMB-ACM-004d **Lab Number** 2011-05827- 81 **Sampled:** 6/1/2011 15:30 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4
Non-Fibrous Components (in approx. decreasing order): perlite, powder, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	n.d.	-	-	-	-
2	acoustical tile	98	tan	3	20-30%	2-5%	-	-	-	-
	Total %	100		**Overall %**	20-30%	2-5%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample RMB-ACM-005e **Lab Number** 2011-05827- 82 **Sampled:** 6/1/2011 15:32 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4
Non-Fibrous Components (in approx. decreasing order): perlite, powder, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	n.d.	-	-	-	-
2	acoustical tile	98	tan	3	20-30%	2-5%	-	-	-	-
	Total %	100		**Overall %**	20-30%	2-5%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample RMB-ACM-006f **Lab Number** 2011-05827- 83 **Sampled:** 6/1/2011 15:34 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4
Non-Fibrous Components (in approx. decreasing order): perlite, powder, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	n.d.	-	-	-	-
2	acoustical tile	98	tan	3	20-30%	2-5%	-	-	-	-
	Total %	100		**Overall %**	20-30%	2-5%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample RMB-ACM-007g **Lab Number** 2011-05827- 84 **Sampled:** 6/1/2011 15:36 **Condition:** acceptable

Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery

Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base cove	98	black	1	n.d.	-	-	-	-	-
2	mastic	2	brown	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample RMB-ACM-008h **Lab Number** 2011-05827- 85 **Sampled:** 6/1/2011 15:38 **Condition:** acceptable

Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery

Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4

Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base cove	98	black	1	n.d.	-	-	-	-	-
2	mastic	2	brown	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note

Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample RMB-ACM-009i **Lab Number** 2011-05827- 86 **Sampled:** 6/1/2011 15:39 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base cove	97	black	1	n.d.	-	-	-	-	-
2	mastic	2	brown	1	n.d.	-	-	-	-	-
3	mastic	1	white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample RMB-ACM-010j **Lab Number** 2011-05827- 87 **Sampled:** 6/1/2011 15:40 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): powder, ,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	various	1	n.d.	-	-	-	-	-
2	texture/joint compound	95	white	3	n.d.	-	-	-	-	-
3	paper/cardboard	3	tan	2	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	2-5%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Procedure: dissolution of matrix using dilute HCl acid.

Sample RMB-ACM-011k **Lab Number** 2011-05827- 88 **Sampled:** 6/1/2011 15:43 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): powder, ,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	various	1	n.d.	-	-	-	-	-
2	texture/joint compound	95	white	3	n.d.	-	-	-	-	-
3	paper/cardboard	3	tan	2	90-100%	-	-	-	-	-
	Total %	100		**Overall %**	2-5%	-	-	-	-	-
				Fiber Identification:	cellulose fiber					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Procedure: dissolution of matrix using dilute HCl acid.

Sample RMB-ACM-012l **Lab Number** 2011-05827- 89 **Sampled:** 6/1/2011 15:45 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 9
Non-Fibrous Components (in approx. decreasing order): powder, ,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	various	1	n.d.	n.d.	-	-	-	-
2	texture/joint compound	5	white	3	n.d.	n.d.	-	-	-	-
3	paper/cardboard	3	tan	2	90-100%	n.d.	-	-	-	-
4	drywall core	90	white	3	<=1%	<=1%	-	-	-	-
	Total %	100		**Overall %**	2-5%	<=1%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Procedure: dissolution of matrix using dilute HCl acid.

Sample RMA-ACM-001a **Lab Number** 2011-05827- 90 **Sampled:** 6/1/2011 15:48 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample RMA-ACM-002b **Lab Number** 2011-05827- 91 **Sampled:** 6/1/2011 15:50 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample RMA-ACM-003c **Lab Number** 2011-05827- 92 **Sampled:** 6/1/2011 15:53 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample RMA-ACM-004d **Lab Number** 2011-05827- 93 **Sampled:** 6/1/2011 15:55 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4
Non-Fibrous Components (in approx. decreasing order): perlite, powder, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	n.d.	-	-	-	-
2	acoustical tile	98	off-white	3	20-30%	2-5%	-	-	-	-
	Total %	100		**Overall %**	20-30%	2-5%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers

		Color	Mrph	Iso	Pleo	BI	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample RMA-ACM-005e **Lab Number** 2011-05827- 94 **Sampled:** 6/1/2011 15:56 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4
Non-Fibrous Components (in approx. decreasing order): perlite, powder, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	n.d.	-	-	-	-
2	acoustical tile	98	off-white	3	20-30%	2-5%	-	-	-	-
	Total %	100		**Overall %**	20-30%	2-5%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers

		Color	Mrph	Iso	Pleo	BI	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample RMA-ACM-006f **Lab Number** 2011-05827- 95 **Sampled:** 6/1/2011 15:58 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Acoustical Tile Fibrous Mat
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4
Non-Fibrous Components (in approx. decreasing order): perlite, powder, binder

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	n.d.	-	-	-	-
2	acoustical tile	98	off-white	3	20-30%	2-5%	-	-	-	-
	Total %	100		**Overall %**	20-30%	2-5%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers

		Color	Mrph	Iso	Pleo	BI	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of paint matrix using solvent. Procedure: dissolution of acoustical tile using acid.

Sample RMA-ACM-007g **Lab Number** 2011-05827- 96 **Sampled:** 6/1/2011 16:00 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4
Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability
1	base cove	98	black	1
2	mastic	2	yellow	1
	Total %	100	**Overall %**	

Percents of Each Fiber					
Fib 1	**Fib 2**	**Fib 3**	**Fib 4**	**Fib 5**	**Fib 6**
n.d.	-	-	-	-	-
n.d.	-	-	-	-	-
n.d.	-	-	-	-	-
Fiber Identification:	none				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample RMA-ACM-008h **Lab Number** 2011-05827- 97 **Sampled:** 6/1/2011 16:02 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4
Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability
1	base cove	98	black	1
2	mastic	2	off-white	1
	Total %	100	**Overall %**	

Percents of Each Fiber					
Fib 1	**Fib 2**	**Fib 3**	**Fib 4**	**Fib 5**	**Fib 6**
n.d.	-	-	-	-	-
n.d.	-	-	-	-	-
n.d.	-	-	-	-	-
Fiber Identification:	none				

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample RMA-ACM-009i **Lab Number** 2011-05827- 98 **Sampled:** 6/1/2011 16:05 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4
Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base cove	98	black	1	n.d.	-	-	-	-	-
2	mastic	2	yellow	1	n.d.	-	-	-	-	-
	Total %	100		Overall %	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample RMA-ACM-010j **Lab Number** 2011-05827- 99 **Sampled:** 6/1/2011 16:08 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): powder, ,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	-	-	-	-	-
2	texture/joint compound	98	white	3	n.d.	-	-	-	-	-
	Total %	100		Overall %	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Procedure: dissolution of matrix using dilute HCl acid.

PLM Analysis Details **Job Number:** **201105827** 031.11.003

Sample RMA-ACM-011k **Lab Number** 2011-05827- 100 **Sampled:** 6/1/2011 16:11 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): powder, ,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	-	-	-	-	-
2	texture/joint compound	98	white	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Procedure: dissolution of matrix using dilute HCl acid.

Sample RMA-ACM-012l **Lab Number** 2011-05827- 101 **Sampled:** 6/1/2011 16:15 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 9
Non-Fibrous Components (in approx. decreasing order): powder, ,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	off-white	1	n.d.	n.d.	-	-	-	-
2	texture/joint compound	48	white	3	n.d.	n.d.	-	-	-	-
3	paper/cardboard	5	tan	2	90-100%	n.d.	-	-	-	-
4	drywall core	45	white	3	<=1%	<=1%	-	-	-	-
	Total %	100		**Overall %**	2-5%	<=1%	-	-	-	-
				Fiber Identification:	cellulose fiber	glass fiber				

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Procedure: dissolution of matrix using dilute HCl acid.

Sample BRB-ACM-001a **Lab Number** 2011-05827- 102 **Sampled:** 6/1/2011 16:20 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
	Total %	100		Overall %	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample BRB-ACM-002b **Lab Number** 2011-05827- 103 **Sampled:** 6/1/2011 16:22 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
	Total %	100		Overall %	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample BRB-ACM-003c **Lab Number** 2011-05827- 104 **Sampled:** 6/1/2011 16:27 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Flooring Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): filler, polymer,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber: Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	99	off-white	1	n.d.	-	-	-	-	-
2	mastic	1	yellow	1	n.d.	-	-	-	-	-
	Total %	100		Overall %	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of floor tile matrix and mastic using solvent.

Sample BRB-ACM-004d **Lab Number** 2011-05827- 105 **Sampled:** 6/1/2011 16:30 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): powder, ,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	-	-	-	-	-
2	texture/joint compound	98	white	3	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Procedure: dissolution of matrix using dilute HCl acid.

Sample BRB-ACM-005e **Lab Number** 2011-05827- 106 **Sampled:** 6/1/2011 16:33 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 12
Non-Fibrous Components (in approx. decreasing order): powder, ,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	n.d.	n.d.	-	-	-
2	texture/joint compound	8	white	3	<=1%	n.d.	n.d.	-	-	-
3	paper/cardboard	5	tan	2	n.d.	90-100%	n.d.	-	-	-
4	drywall core	85	white	3	n.d.	<=1%	<=1%	-	-	-
	Total %	100		**Overall %**	<=1%	5-10%	<=1%	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber	glass fiber			

Fibers		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3	glass fiber	CL	D	Y									
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Procedure: dissolution of matrix using dilute HCl acid.Point Count: Layer Number 2; 0 asbestos counts per 400 total counts = Trace percent.

Sample BRB-ACM-006f **Lab Number** 2011-05827- 107 **Sampled:** 6/1/2011 16:38 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Wall System Non-fibrous Solid
Homogeneous No **# Layers** 6 **Pos Layer?** No **# Sub-Samples** 19
Non-Fibrous Components (in approx. decreasing order): powder, ,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	2	white	1	n.d.	n.d.	n.d.	-	-	-
2	texture/joint compound	2	white	3	<=1%	n.d.	n.d.	-	-	-
3	paper/cardboard	5	off-white	2	n.d.	90-100%	n.d.	-	-	-
4	texture/joint compound	8	white	3	<=1%	n.d.	n.d.	-	-	-
5	paper/cardboard	5	tan	2	n.d.	90-100%	n.d.	-	-	-
6	drywall core	78	white	3	n.d.	<=1%	<=1%	-	-	-
	Total %	100		**Overall %**	<=1%	5-10%	<=1%	-	-	-
				Fiber Identification:	chrysotile asbestos	cellulose fiber	glass fiber			

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	sb/o	1.556	1.553
2	cellulose fiber	W	F	N	N	H	+	U					
3	glass fiber	CL	D	Y									
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of matrix using solvent. Procedure: dissolution of matrix using dilute HCl acid.Point Count: Layer Number 2,4; 0 asbestos counts per 400 total counts = Trace percent. Note: the texture/joint compound layers were identical in appearance and asbestos content. One point count was used to quantify them.

Sample BRB-ACM-007g **Lab Number** 2011-05827- 108 **Sampled:** 6/1/2011 16:42 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5
Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability	Percents of Each Fiber					
					Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base cove	98	black	1	n.d.	-	-	-	-	-
2	mastic	2	off-white	1	n.d.	-	-	-	-	-
	Total %	100		**Overall %**	n.d.	-	-	-	-	-
				Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations				
									Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample BRB-ACM-008h **Lab Number** 2011-05827- 109 **Sampled:** 6/1/2011 16:45 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 6
Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability
1	base cove	97	black	1
2	mastic	2	off-white	1
3	mastic	1	brown	1
	Total %	100	**Overall %**	

Percents of Each Fiber	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	-	-	-	-	-
	n.d.	-	-	-	-	-
	n.d.	-	-	-	-	-
	n.d.	-	-	-	-	-
Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Sample BRB-ACM-009i **Lab Number** 2011-05827- 110 **Sampled:** 6/1/2011 16:48 **Condition:** acceptable
Analyzed By GV 6/16/2011 **An?** OK **Apparent Smp Type** Miscellaneous Rubbery
Homogeneous No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 4
Non-Fibrous Components (in approx. decreasing order): polymer, filler,

Layers

#	Layer Type	%	Color	Friability
1	base cove	97	black	1
2	mastic	3	off-white	1
	Total %	100	**Overall %**	

Percents of Each Fiber	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
	n.d.	-	-	-	-	-
	n.d.	-	-	-	-	-
	n.d.	-	-	-	-	-
Fiber Identification:	none					

Fibers

		Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Refractive Index Determinations: Oil	Col Par	Col Per	RI Par	RI Per
1	none												
2													
3													
4													
5													
6													

Sample Analytical Note
Procedure: tweased apart using forceps. Procedure: dissolution of polymer matrix using solvent. Minor adhering wall paint and/or texture, etc. not analyzed.

Fr=Friability: 1=very non-friable; 2= non-friable; 3=friable; 4=highly friable
Colors: B=black;BL=blue;BR=brown;CL=clear;G=Green;GY=gray;OR=orange;OW=off-white;PN=pink;PU=purple;R=red;TN=tan;W=white;Y=yellow;V=various
Fiber Morphology: A=fine fibers/bundles, white, sinewy, flexible; B=fine fibers/bundles, w-br, straight, broomed ends; C=fine fibers/bundles, blue, straight, broomed ends; D=fine to coarse fibers, CL-B, brittle; E=coarse fibers,CL or dyed, striated; F=coarse fibers or splinters, W-BR, ribbon-like; G=lath-like or shards, low aspect ratio, may taper
Iso=isotropism - may be yes or no; Pleo=pleochroism - may be yes or no; Bi=birefringence - may be None, Low, Medium or High
Elg=sign of elongation - may be +, - or B (both); Ext=extinction - may be Parallel, Oblique, None or Undulating; Oil=medium used to for dispersion staining
Col Par=dispersion staining colors parallel to the fiber (fiber/halo): b/w=black/white; dg/py=dark gray/pale yellow; vg/y=violet gray/yellow; db/ly=dark blue/lemon yellow; vb/g= vivid blue/gold; sb/o=sky blue/orange; pb/r=pale blue/red; gb/dr=gray blue/dark red; w/b=white/black. Col Perp=same only perpendicular to fiber.
RI Par=refractive index parallel to fiber; RI Perp=refractive index perpendicular to fiber

Analyst: UWE .. STEIMLE

Printed: 16-Jun-11

Original Print Date: 16-Jun-11

Larry S. Pierce, Approved Accreditation Signatory

FIBERQUANT ANALYTICAL SERVICES

Fiberquant Analytical Services 5025 S. 33rd St.
Phoenix, AZ 85040; Phone: 602-276-6139; FAX: 602 276-4558;
info@fiberquant.com

Analysis Request/Chain-of-Custody Form

Submitted by (Company)	BEC Environmental Inc
Address	7660 W. Sahara Ave, #150
City, State, Zip Code	Las Vegas NV 89117
Phone	702-304-9830
FAX	702-304-9839
Email	brian@becnv.com

Invoice to (Company)	Same as above
Address	
City, State, Zip Code	
Phone	
FAX	

Contact (print)	Brian Loffman
Sampled by (signature)	
Job Number or Project Name	031.11.003
PO Number	

Analysis Method Requested ONLY ONE METHOD per COC		Turn-around-time (circle one) Rush		Norma	Ext.
Asbestos by PLM	Improved Interim Analyte: (AF) ATPF If ATPF then by: Layer or Sample Single Layer Protocol: Yes No	Urg Rush <3 hrs	<6 hrs	1-3 days	15-30 days
Fibers by PCM	7400(Area) ORM (Personal)	<4 hrs		24 hrs	-
Asbestos by TEM	AIR: AHERA Mod. AHERA	<8 hrs		24 hrs	3-5 days
	Water: Water Sludge	1-2 days		3-5 days	N/A
	Annex2 Chatfield Ful				
	Vacuum Dust (ASTM)	3-5 days		5-10 days	N/A
Metals by FLAA	Analyte: Pb Other Matrix: Filter: MCE FG Paint: by Area by Weight Soil Wipe Initial here certifying wipes used are ASTM E1792 compliant	<6 hrs		2-3 days	N/A
Fungi	Air Sample: Zef Aller Other ID/Count: Bulk Swab Tape: Qualitative (1") Tape Quantitative (cm2)	<8 hrs		1-2 days	N/A
Dust	NIOSH 500	<4 hrs		24 hrs	N/A
Other		Call		Call	

Sample Number	Description/Location	Sample Date	Sample Time	Vol/Area
1) RF-ACM-001a	Roofing material - asphaltic	6-1-2011	1042	≈5,000 ml
2) RF-ACM-002b			1047	
3) RF-ACM-003c			1052	
4) RF-ACM-004d			1057	
5) RF-ACM-005e			1102	
6) RF-ACM-006f			1107	
7) RF-ACM-007g			1112	
8) RF-ACM-008h			1116	
9) RF-ACM-009i			1120	
10) SR-ACM-001a	Storage Room - textured wall board		1124	≈1000 ml
11) SR-ACM-002b			1128	
12) SR-ACM-003c			1133	
13) SR-ACM-004d	White/beige Vinyl tile (12") - mastic		1135	
14) SR-ACM-005e			1137	
15) SR-ACM-006f			1140	
16) SR-ACM-007g	Ceiling acoustical texture - white		1142	
17) SR-ACM-008h			1146	
18) SR-ACM-009i			1148	
19) ENT-ACM-001a	2'x2' white ceiling tile		1205	≈1000 ml
20) ENT-ACM-002b			1208	"

1)Relinquished by: Brian Loffman	Date: 6-9-11	Time: 1145	3)Relinquished by:	Date:	Time:
2)Received by:	Date: 6-10-11	Time: 10AM	4)Received by:	Date:	Time:
* TEM Water: Sampler's name Required by State of Arizona	Print Name	FIX			

Review of Analysis Request (Initials) _____

20110527

Note: Data completed by client (including number and identity of samples) is assumed to be correct until it is verified at time of sample preparation.

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FIBERQUANT ANALYTICAL SERVICES

Fiberquant Analytical Services 5025 S. 33rd St.; Phoenix, AZ 85040; Phone: 602-276-6139; FAX: 602-276-4558; info@fiberquant.com

Analysis Request/Chain-of-Custody Form

Submitted by (Company)	BEC Environmental, Inc
Address	7660 W. Sahara Ave #150
City, State, Zip Code	Las Vegas, NV 89117
Phone	702-304-9830 FAX 702-304-9839
Email	brian@becnv.com
Invoice to (Company)	Same as above
Address	
City, State, Zip Code	
Phone / FAX	
Contact (print)	Brian Loffman
Sampled by (signature)	
Job Number or Project Name	031.11.003
PO Number	

Analysis Method Requested ONLY ONE METHOD per COC			Turn-around-time (circle one) Rush		Norm	Ext.
Asbestos by PLM	Improved Interim		Urg. Rush <3 hrs	<6 hrs	1-3 days	15-30 days
	Analyze: (All) ATPF					
	If ATPF then by: Layer or Sample					
	Single Layer Protocol Yes No					
Fibers by PCM	7400(Area) ORM (Personal)		<4 hrs		24 hrs	-
Asbestos by TEM	AIR AHERA Mod. AHERA		<6 hrs		24 hrs	3-5 days
	Water Water Sludge		1-2 days		3-5 days	N/A
	Annex2 Chatfield Full					
	Vacuum Dust (ASTM)		3-5 days		5-10 days	N/A
Metals by FLAA	Analyte Pb Other		<6 hrs		2-3 days	N/A
	Matrix Filter MCE PG					
	Paint: by Area / by Weight					
	Soil					
	Wipe					
	Initial here certifying wipes used are ASTM E1792 compliant					
Fungi	Air Sample: Zef Allet Other		<6 hrs		1-2 days	N/A
	ID/Count: Bulk Swab					
	Tape: Qualitative (ea)					
	Tape:Quantitative (cm2)					
Dust	NIOSH 500		<4 hrs		24 hrs	N/A
Other			Call		Call	

Sample Number	Description/Location	Sample Date	Sample Time	Vol/Area
1) ENT-ACM-003 c	2'x2' white ceiling tile	6-1-2011	1210	< 1000 cm
2) ENT-ACM-004 d	12" beige Vinyl tile & brown mastic		1214	
3) ENT-ACM-005 e	↓		1218	
4) ENT-ACM-006 f	↓		1221	↓
5) BRF-ACM-001 a	Grey Cove base + brown mastic		1225	< 1000 cm
6) BRF-ACM-002 b	↓		1226	
7) BRF-ACM-003 c	↓		1229	
8) BRF-ACM-004 d	Wallboard + white texture		1230	
9) BRF-ACM-005 e	↓		1232	
10) BRF-ACM-006 f	↓		1235	
11) BRF-ACM-007 g	12" Vinyl tile (Blue) + brown mastic		1237	
12) BRF-ACM-008 h	↓		1238	
13) BRF-ACM-009 i	↓		1240	
14) BRF-ACM-010 j	12" white Vinyl tile + brown mastic		1242	
15) BRF-ACM-011 k	↓		1245	
16) BRF-ACM-012 l	↓		1247	↓
17) TR-ACM-001 a	Wallboard + white smooth texture		1251	< 1000 cm
18) TR-ACM-002 b	↓		1253	
19) TR-ACM-003 c	↓		1256	
20) TR-ACM-004 d	12" Grey Vinyl tile + brown mastic		1259	↓

1)Relinquished by: Brian Loffman	Date: 6-9-11	Time: 1145	3)Relinquished by:	Date:	Time:
2)Received by:	Date: 6-10-11	Time: 1040	4)Received by:	Date:	Time:
* TEN Water: Sampler's name Required by State of Arizona	Print Name	FLK			

Review of Analysis Request (Initials) _____

20110582 7

Note: Data completed by client (including number and identity of samples) is assumed to be correct until it is verified at time of sample preparation.

FIBERQUANT ANALYTICAL SERVICES

Fiberquant Analytical Services 5025 S. 33rd St.
Phoenix, AZ 85040; Phone: 602-276-6139; FAX: 602 276-4858;
info@fiberquant.com

Analysis Request/Chain-of-Custody Form

Submitted by (Company)	BEC Environmental Inc
Address	7660 W. Sahara Ave #150
City, State, Zip Code	LV, NV 89117
Phone	702-304-9830
FAX	702-304 9839
Email	brian@becnv.com

Invoice to (Company)	Same as above
Address	
City, State, Zip Code	
Phone	
FAX	

Contact (print)	Brian Loffman
Sampled by (signature)	
Job Number or Project Name	031.11.003
PO Number	

Analysis Method Requested ONLY ONE METHOD per COC		Turn-around-time (circle one) Rush		Norm	Ext.
Asbestos by PLM	Interim	Urg Rush <3 hrs	<6 hrs	1-3 days	15-30 days
	Analyze (AI) ATPF # ATPF then by Layer or Sample				
	Single Layer Protocol Yes No				
Fibers by PCM	7400(Area) OHM (Personal)	<4 hrs		24 hrs	-
Asbestos by TEM	AIR AHERA Mod AHERA	<6 hrs		24 hrs	3-5 days
	Water Water Sludge	1-2 days		3-5 days	N/A
	Annex2 Charles) F-3				
	Vacuum Dust (ASTM)	3-5 days		5-10 days	N/A
Metals by FLAA	Analyte Pb Other	<5 hrs		2-3 days	N/A
	Matrix Filter UCE FG				
	Paint by Area by Weight				
	Soil				
	Wipe				
	Initial here certifying wipes used are ASTM E1728 compliant				
Fungi	Air Sample Zef Alter Other	<6 hrs		1-2 days	N/A
	ID Count Bulk Swab				
	Tape Qualitative (in)				
	Tape Quantitative (cm2)				
Dust	NIOSH 500	<4 hrs		24 hrs	N/A
Other		Call		Call	

Sample Number	Description/Location	Sample Date	Sample Time	Vol/Area
1) TR-ACM-005 e	Grey 12" Vinyl tile + Brown Mastic	6-1-2011	1301	<1000 ft
2) TR-ACM-006 F	↓		1302	
3) TR-ACM-007 g	2'x2' White Ceiling tile		1303	
4) TR-ACM-008 h	↓		1304	
5) TR-ACM-009 i	↓		1305	↓
6) KT-ACM-001 a	12" White Vinyl tile + Mastic		1310	<1000 ft
7) KT-ACM-002 b	↓		1312	
8) KT-ACM-003 c	↓		1314	
9) KT-ACM-004 d	2'x2' White Ceiling tile		1317	
10) KT-ACM-005 e	↓		1316	
11) KT-ACM-006 F	↓		1318	
12) KT-ACM-007 g	Wallboard + texture		1323	
13) KT-ACM-008 h	↓		1326	
14) KT-ACM-009 i	↓		1330	
15) KT-ACM-010 j	black cove base + brown Mastic		1333	
16) KT-ACM-011 k	↓		1337	
17) KT-ACM-012 L	↓		1340	↓
18) MR-ACM-001 a	12" White Vinyl tile + brown Mastic		1350	<5000 ft
19) MR-ACM-002 b	↓		1351	↓
20) MR-ACM-003 c	↓		1352	↓

1)Relinquished by: Brian Loffman	Date: 6-9-11	Time: 1145	3)Relinquished by:	Date:	Time:
2)Received by:	Date: 6-10-11	Time: 10:50	4)Received by:	Date:	Time:
* TEM Water: Sampler's name Required by State of Arizona	Print Name: F/x				

Review of Analysis Request (Initials) _____

201105827

Note: Data completed by client (including number and identity of samples) is assumed to be correct until it is verified at time of sample preparation.

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FIBERQUANT ANALYTICAL SERVICES

Fiberquant Analytical Services 5025 S. 33rd St.; Phoenix, AZ 85040; Phone: 602-276-6139; FAX: 602-276-4558; info@fiberquant.com

Analysis Request/Chain-of-Custody Form

Submitted by (Company)	BEC Environmental Inc
Address	7660 W. Sahara Ave # 150
City, State, Zip Code	LV, NV 89117
Phone	702-304-9830 FAX 702-304-9839
Email	brian@becnv.com
Invoice to (Company)	Same as above
Address	
City, State, Zip Code	
Phone / FAX	
Contact (print)	Brian Loffman
Sampled by (signature)	
Job Number or Project Name	031.11.003
PO Number	

Analysis Method Requested ONLY ONE METHOD per COC		Turn-around-time (circle one) Rush		Norm	Ext.
Asbestos by PLM	Received Interim Analyze: (All) ATPF If ATPF then by Layer or Sample Single Layer Protocol Yes No	Urg Rush <3 hrs	<6 hrs	1-3 days	15-30 days
Fibers by PCM	7400(Area) ORM (Personal)	<4 hrs		24 hrs	
Asbestos by TEM	Air: AHERA Mod. AHERA	<6 hrs		24 hrs	3-5 days
	Water* Water Sludge	1-2 days		3-5 days	N/A
	Area2 Chatfield Full				
	Vacuum Dust (ASTM)	3-5 days		5-10 days	N/A
Metals by FLAA	Analyte: Pb Other Matrix: Filter MCE FG Paint: by Area / by Weight Soil Wipe Initial here certifying wipes used are ASTM E1792 compliant	<6 hrs		2-3 days	N/A
Fungi	Air Sample: Zef Alter Other ID Count: Bulk Swab Tape: Qualitative (%) Tape Quantitative (cm2)	<6 hrs		1-2 days	N/A
Dust	NIOSH 500	<4 hrs		24 hrs	N/A
Other		Call		Call	

Sample Number	Description/Location	Sample Date	Sample Time	Vol/Area
1) MR-ACM-004 d	12" white Vinyl tile + mastic	6-1-2011	1353	7000 < 5000 ϕ
2) MR-ACM-005 e	↓	↓	1355	↓
3) MR-ACM-006 F	black cove base + brown mastic		1357	
4) MR-ACM-007 g	↓		1359	
5) MR-ACM-008 h			1402	
6) MR-ACM-009 i			1406	
7) MR-ACM-010 j	↓		1407	
8) MR-ACM-011 k	2'x2' white ceiling tile		1411	
9) MR-ACM-012 L	↓		1414	
10) MR-ACM-013 m			1417	
11) MR-ACM-014 n			1419	
12) MR-ACM-015 o	↓		1423	
13) MR-ACM-016 P	Wallboard + surface texture		1430	
14) MR-ACM-017 q	↓		1435	
15) MR-ACM-018 r			1439	
16) MR-ACM-019 s			1442	
17) MR-ACM-020 t	↓		1445	↓
18) RMB-ACM-001 a	12" white Vinyl tile + mastic		1521	< 1000 ϕ
19) RMB-ACM-002 b	↓		1524	↓
20) RMB-ACM-003 c	↓	↓	1527	↓

1) Relinquished by: Brian Loffman	Date: 6-9-11	Time: 1145	3) Relinquished by:	Date:	Time:
2) Received by:	Date: 6-10-11	Time: 1040	4) Received by:	Date:	Time:
* TEM Water: Sampler's name Required by State of Arizona	Print Name:				

Review of Analysis Request (Initials) _____

20110582 7

Note: Data completed by client (including number and identity of samples) is assumed to be correct until it is verified at time of sample preparation.

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FIBERQUANT ANALYTICAL SERVICES

Fiberquant Analytical Services 5025 S. 43rd St.; Phoenix, AZ 85040; Phone: 602-276-6139; FAX: 602-276-1658; info@fiberquant.com

Analysis Request/Chain-of-Custody Form

Submitted by (Company)	BEC Environmental
Address	7660 W. Sahara Ave #150
City, State, Zip Code	LV, NV 89117
Phone 702-304-9830	FAX 702-304-9839
Email	brian@becnv.com

Invoice to (Company)	Same as above
Address	
City, State, Zip Code	
Phone	FAX

Contact (print)	Brian Loffman
Sampled by (signature)	
Job Number or Project Name	031.11.003
PO Number	

Analysis Method Requested ONLY ONE METHOD per COC		Turn-around-time (circle one) Rush		Norm	Ext.
Asbestos by PLM	Approved Interim	Urg Rush <3 hrs	<6 hrs	1-2 days	15-30 days
	Analyze (All) ATPF if ATPF then by Layer or Sample				
	Single Layer Protocol Yes No				
Fibers by PCM	7400(Area) ORM (Personal)	<4 hrs		24 hrs	-
Asbestos by TEM	AHI AHERA Mod. AHERA	<6 hrs		24 hrs	3-5 days
	Water: Water Sludge	1-2 days		3-5 days	N/A
	Anions2 Chlorine Fuel				
	Vacuum Dust (ASTM)	3-5 days		5-10 days	N/A
Metals by FLAA	Analyte: Pb Other:	<6 hrs		2-3 days	N/A
	Matrix: Filter: MCE FG				
	Paint: by Area by Weight				
	Soil				
	Wipe				
	Initial here certifying wipes used are ASTM E1792 compliant				
Fungi	Air Sample: Zef Ale Other	<6 hrs		1-2 days	N/A
	ID/Count: Bulk Swab				
	Tape: Qualitative (1"):				
	Tape:Quantitative (cm2):				
Dust	NIOSH 500	<4 hrs		24 hrs	N/A
Other		Call		Call	

Sample Number	Description/Location	Sample Date	Sample Time	Vol/Area
1) RMB-ACM-004 d	2'x2' white ceiling tile	6-1-2011	1530	2 LCCO#3
2) RMB-ACM-005 e	↓		1532	↓
3) RMB-ACM-006 f	↓		1534	↓
4) RMB-ACM-007 g	Black Cove base + brown Mastic		1536	↓
5) RMB-ACM-008 h	↓		1538	↓
6) RMB-ACM-009 i	↓		1539	↓
7) RMB-ACM-010 j	Wallboard + Surface texture		1540	↓
8) RMB-ACM-011 k	↓		1543	↓
9) RMB-ACM-012 L	↓		1545	↓
10) RMA-ACM-001 a	white 12" Vinyl tile + brown Mastic		1548	2 LCCO#4
11) RMA-ACM-002 b	↓		1550	↓
12) RMA-ACM-003 c	↓		1553	↓
13) RMA-ACM-004 d	2x2 ceiling tile white		1555	↓
14) RMA-ACM-005 e	↓		1556	↓
15) RMA-ACM-006 f	↓		1559	↓
16) RMA-ACM-007 g	black Cove base + brown mastic		1600	↓
17) RMA-ACM-008 h	↓		1602	↓
18) RMA-ACM-009 i	↓		1605	↓
19) RMA-ACM-010 j	Wallboard + Surface texture		1609	↓
20) RMA-ACM-011 k	↓		1611	↓

1)Relinquished by: Brian Loffman	Date: 6-9-11	Time: 1145	3)Relinquished by:	Date:	Time:
2)Received by:	Date: 6-10-11	Time: 1040	4)Received by:	Date:	Time:
* TEM Water: Sampler's name Required by State of Arizona	Print Name				

Review of Analysis Request (Initials) _____

Note: Data completed by client (including number and identity of samples) is assumed to be correct until it is verified at time of sample preparation.

20110527

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FIBERQUANT ANALYTICAL SERVICES

Fiberquant Analytical Services 5025 S. 43rd St.
Phoenix, AZ 85040; Phone: 602-276-0159; FAX: 602-276-4558;
ajfell@fiberquant.com

Analysis Request/Chain-of-Custody Form

Submitted by (Company)	BEC Environmental, Inc
Address	7660 W. Sahara Ave #150
City, State, Zip Code	LV, NV 89117
Phone	702-304-9830
FAX	702-304-9839
Email	brian@becnv.com
Invoice to (Company)	Same as above
Address	
City, State, Zip Code	
Phone	
FAX	
Contact (print)	Brian Loffman
Sampled by (signature)	
Job Number or Project Name	031.11.003
PO Number	

Analysis Method Requested ONLY ONE METHOD per COC			Turn-around-time (circle one) Rush		Norm	Ext.
Asbestos by PLM	Improved / Interim		Urg Rush <3 hrs	<6 hrs	1-2 days	15-30 days
	Analyze: All / ATPF					
	If ATPF then by: Layer or Sample					
	Single Layer Protocol: Yes / No					
Fibers by PCM	7400(Area)	ORM (Personal)	<4 hrs		24 hrs	
Asbestos by TEM	AHERA	Mod AHERA	<6 hrs		24 hrs	3-5 days
	Water* Water	Sludge	1-2 days		3-5 days	N/A
	Annex2 Chatfield	Full				
	Vacuum Dust (ASTM)		3-5 days		5-10 days	N/A
Metals by FLAA	Analyte: Pb Other		<6 hrs		2-3 days	N/A
	Matrix: Filter MCE FG					
	Paint by Area / by Weight					
	Soil					
	Wipe					
	Initial here certifying wipes used are ASTM E1792 compliant					
Fungi	Air Sample: Zef Aller Other		<6 hrs		1-2 days	N/A
	ID/Count: Bulk Swab					
	Tape, Qualitative (%)					
	Tape,Quantitative (cm2)					
Dust	NIOSH 500		<4 hrs		24 hrs	N/A
Other			Call		Call	

Sample Number	Description/Location	Sample Date	Sample Time	Vol/Area
1) RMA-ACM-012 L	wallboard + Surface texture	6-1-2011	1615	<1000 cm
2) BRB-ACM-001 a	12" Grey Vinyl tile + Mastic		1620	
3) BRB-ACM-002 b	↓		1622	
4) BRB-ACM-003 c	↓		1627	
5) BRB-ACM-004 d	Wallboard + Surface texture		1630	
6) BRB-ACM-005 e	↓		1633	
7) BRB-ACM-006 F	↓		1638	
8) BRB-ACM-007 g	black Carbase + brown mastic		1642	
9) BRB-ACM-008 h	↓		1645	
10) BRB-ACM-009 i	↓		1649	
11) ~~RMA-ACM-010 j~~				
12)				
13)				
14)				
15)				
16)				
17)				
18)				
19)				
20)				

1)Relinquished by: Brian Loffman	Date: 6/9/11	Time: 1145am	3)Relinquished by:	Date:	Time:
2)Received by:	Date: 6-10-11	Time: 1040	4)Received by:	Date:	Time:

* TEM Water: Sampler's name Required by State of Arizona — Print Name

Review of Analysis Request (Initials) _____

201105827

Note: Data completed by client (including number and identity of samples) is assumed to be correct until it is verified at time of sample preparation.

APPENDIX G

LEAD BASED PAINT REGULATORY OVERVIEW

REGULATORY OVERVIEW FOR LEAD BASED PAINT

The USEPA and US Department of Housing and Urban Development (HUD) define lead based paint (LBP) as paints containing greater than 1.0 milligrams per square centimeter (mg/cm^2) lead, or 0.5 percent lead by weight (% by weight), which is equivalent to 5,000 milligrams per kilogram (mg/kg) and 5,000 parts per million (ppm). Federal OSHA and Nevada OSHA regulations (Lead Construction Standard) do not provide a definition for "lead-based paint," but refer to the US EPA and HUD values discussed above. Nevada OSHA is primarily concerned with worker protection, and regulates any amount of lead contained within painted building components.

There are two OSHA lead standards. The OSHA Construction Lead Standard (29 CFR 1926.62) applies to new construction or renovation, demolition or salvage, installation of products that contain lead, and maintenance activities. The General Industry Standard (29 CFR 1910.1025) applies to non-construction activities.

The permissible exposure limit (PEL) for lead is 50 micrograms per cubic meter ($\mu g/m^3$) of air averaged over an 8-hour time period. In addition to the PEL, there is also an action level of 30 $\mu g/m^3$ of air averaged over an 8-hour time period. Employees who work in an area at or above the action level must receive medical surveillance and training on the hazards of working with lead. Therefore, demolition activities that include materials coated with lead paint in any concentration could, under certain circumstances, trigger Federal OSHA and Nevada OSHA regulations. Determination of airborne lead concentrations would require air monitoring by a trained lead professional during building material disturbance.

Results of the LBP survey should be provided to contractors and subcontractors performing work at the Site that may disturb lead-containing components that could generate airborne lead concentrations so that they can determine the OSHA Class category (I, II, or III) they need to plan for. The OSHA Classes are defined as follows.

Class I assumes exposure over the PEL (50 $\mu g/m^3$). Class I tasks include manual scraping or sanding, using a heat gun, and spray painting with lead paint.

Class II assumes exposure is at least ten times the PEL (500 $\mu g/m^3$). Class II tasks include using lead containing mortar, burning lead, rivet busting, power tool cleaning without dust collection systems, and removal of an abrasive blasting enclosure.

Class III assumes exposure is at least fifty times the PEL (2,500 $\mu g/m^3$). Class III tasks include abrasive blasting, cutting, welding, and torch burning.

APPENDIX H

LEAD BASED PAINT
ANALYTICAL LABORATORY REPORT

FIBERQUANT ANALYTICAL SERVICES

Atomic Absorption Spectrometer (AAS) Analysis of Paint

JobNumber: 201105540

Client: KLEINFELDER INC

6380 S POLARIS AVE

LAS VEGAS, NV 89118-3821

Office Phone: (702) 736-2936

FAX: (702) 361-9094

 # Samples: 13 AA **Rec:** 6/3/2011 **Method:** Modified SW 846 3050b/7420 Pb in paint by weight AA Analysis

Client Job: 117801/Bob Ruud Community Center **PO Number:** 117801

Report Date: 6/9/2011 **Date Analyzed:** 6/8/2011 **Routing Number:** -

Method and Analysis Information: **Fiberquant Internal SOP:** AApw

The received samples were analyzed for Pb (total) using "Test Methods for Evaluating Solid Waste" (SW 846, December 1996 updates). The extraction/digestion method was SW 3050b. The analytical method is "flame atomic absorption, direct aspiration", SW 7420.. Briefly the procedures are as follows. The incoming paint samples are first homogenized by mixing and crushing. A sub-sample is weighed to 0.0001 gm into a 50ml centrifuge tube. To the run stream are added the quality assurance samples described below. Six mls of concentrated HNO3 and one ml of 30% H2O2 are added to each container. The tubes are caped and heated for 1 hour at 95 deg. C. After cooling, the contents of the centrifuge tube are brought up to exactly 25 mls, completing the digestion/extraction.

The sample and quality assurance extractions are then analyzed on a TJA M5 flame atomic absorption spectrometer. The wavelengths and other instrumental settings are set according to the manufacturer's recommendations, or as otherwise specified in the published method. Absorptions are recorded from sample and standard solutions. A calibration curve is fitted to at least three standard solutions, and the concentrations of the sample extracts are calculated from the curve. The ppm (ug/gm) and weight percent for each sample is calculated from the sub-sample weight, extract volume, and extract concentration.

The results from this analysis is generally compared to either the HUD guidelines, in which a sample is positive if it contains >0.5% (5000 ppm) Pb, or the Consumer Products Safety Commission (CPSC) limit, in which a paint pr surface coating containing greater than 90 ppm is defined as lead-containing. The expected coefficient of variation for this method is approximately 20-30%. The results are reported to two significant figures. The Sample Reporting Limit (RL) listed below is twice the Sample Detection Limit, which is calculated for each sample from the experimentally determined Method Detection Limit. The limit of reliable quantitation is generally regarded as five to ten times the limit of detection. Therefore, samples smaller than 0.1 gm may give results too near the CPSC standard to be reliable. Problems in analysis or other information is provided in the "Analytical Notes" below. Blanks, if analyzed, are treated the same as samples and are not used for correcting non-blank results.

The following on-going quality assurance program was followed to ensure reproducible and dependable results: All analysts are degreed chemists trained extensively in-house for at least six months prior to un-supervised runs. Blank matrix samples are analyzed at a rate of 5% (at least one per run). Reference standards are analyzed at a rate of 5% (at least one per run), and compared to statistical records via control charts. Spiked matrix samples are analyzed at a rate of 5% (at least one per run), and compared to statistical records via control charts. Duplicate samples are analyzed at a rate of 5% (at least one per run), and compared to statistical records via control charts. For each instrumental run, the spectrometer is checked for sensitivity and stability. The calibration standards are made fresh weekly, and checked each run against a calibration verification standard from another source. All calculations are performed twice - once in a calibration spreadsheet, and once during the report generation, and also checked by hand. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. Fiberquant participates in the Environmental Lead Proficiency Analytical Testing (ELPAT) program, is accredited by AIHA-LAP, LLC for environmental lead in paint (Lab # 101593), and is recognized by the National Lead Laboratory Accreditation Program (NLLAP) for the analysis of Pb in paint. Accreditation does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

Calibration Curve:

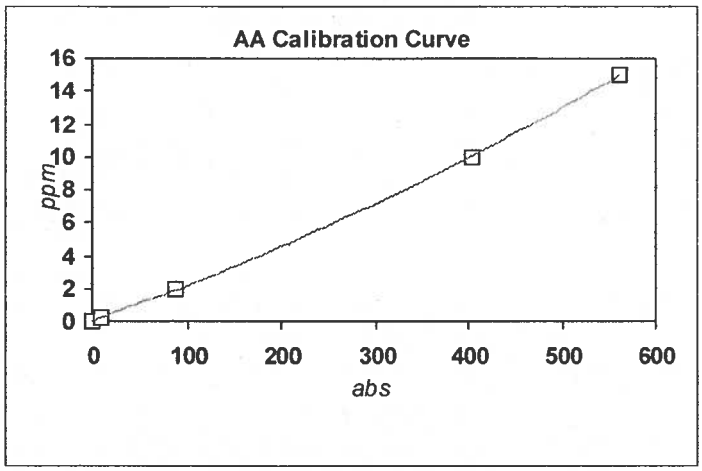
Pb

Run # 7890 ***6/8/2011***

Instrument: M5-2

Standards:	ppm	avg. mAbs.
1	0.2	9
2	2	88
3	10	403
4	15	562

ax2	0.00001089
bx	0.02046599
c	0.03431364
R2	0.9999383



Analysis Results:

Job Number:	201105540

AApw

Lab Number	Client Number	Date	Condition	Weight (gm)	ug/ml	ml	Dil	Analyte	wt %	ppm	RL(ppm)
2011-05540- 1	LBP-01	6/1/2011	acceptable	0.1169	0.03431	25	1	Pb	<0.0043	<43	43
2011-05540- 2	LBP-02	6/1/2011	acceptable	0.1036	0.03431	25	1	Pb	<0.0048	<48	48
2011-05540- 3	LBP-03	6/1/2011	acceptable	0.1005	0.03431	25	1	Pb	<0.005	<50	50
2011-05540- 4	LBP-04	6/1/2011	acceptable	0.1001	0.13692	25	1	Pb	<0.005	<50	50
2011-05540- 5	LBP-05	6/1/2011	acceptable	0.1115	0.03431	25	1	Pb	<0.0045	<45	45
2011-05540- 6	LBP-06	6/1/2011	acceptable	0.1011	0.03431	25	1	Pb	<0.0049	<49	49
2011-05540- 7	LBP-07	6/1/2011	acceptable	0.1026	0.03431	25	1	Pb	<0.0049	<49	49
2011-05540- 8	LBP-08	6/1/2011	acceptable	0.1062	0.09581	25	1	Pb	<0.0047	<47	47
2011-05540- 9	LBP-09	6/1/2011	acceptable	0.1022	0.03431	25	1	Pb	<0.0049	<49	49
2011-05540- 10	LBP-10	6/1/2011	acceptable	0.1083	0.03431	25	1	Pb	<0.0046	<46	46
2011-05540- 11	LBP-11	6/1/2011	acceptable	0.1068	0.05479	25	1	Pb	<0.0047	<47	47
2011-05540- 12	LBP-12	6/1/2011	acceptable	0.1019	0.36456	25	1	Pb	0.0089	89	49
2011-05540- 13	LBP-13	6/1/2011	acceptable	0.15	0.03431	25	1	Pb	<0.0033	<33	33

Martin Esquer

Analyst: MARTIN A. ESQUER

Printed: 09-Jun-2011

Original Print Date: 08-Jun-2011

Larry S. Pierce

Larry S. Pierce, Approved Accreditation Signatory

FIBERQUANT ANALYTICAL SERVICES

Fiberquant Analytical Services 5025 S. 33rd St.; Phoenix, AZ 85040; Phone: 602-276-6139; FAX: 602-276-4558; info@fiberquant.com

Analysis Request/Chain-of-Custody Form

Submitted by (Company)	Kleinfelder
Address	6380 S. Polaris Avenue
City, State, Zip Code	Las Vegas, NV 89118
Phone 702-736-2936	FAX 702-361-9094
Email	dburns@kleinfelder.com

Invoice to (Company)	Kleinfelder
Address	6380 S. Polaris Avenue
City, State, Zip Code	Las Vegas, NV 89118
Phone 702-260-5606	FAX 702-361-9094

Contact (print)	Daniel Burns
Sampled by (signature)	Daniel C Burns
Job Number or Project Name	117801 / Bob Ruud Community Center
PO Number	117801

Analysis Method Requested ONLY ONE METHOD per COC		Turn-around-time (circle one) Rush	Norm	Ext.
Asbestos by **PLM**	Improved ☐ Interim ☐	<6 hrs ☐	1-3 days ☐	15-30 days ☐
	Analyze ☐ All ☐ ATPF If so then by Layer ☐ or Sample ☐			
	Single Layer Protocol: Yes ☐ No ☐			
Fibers by **PCM**	7400(Area) ☐ ORM (Personal) ☐	<4 hr ☐	24hr ☐	3-5d ☐
Asbestos by **TEM**	AIR: AHERA ☐ Mod. AHERA ☐	<6hr ☐	24 hr ☐	3-5d ☐
	Water*: Water ☐ Sludge ☐	1-2d ☐	3-5d ☐	N/A
	Annex2 : Chatfield ☐ Full ☐			
	Vacuum Dust (ASTM)	3-5d ☐	5-10d ☐	N/A
Pb by **FLAA**	Analyte: Pb Other	<6 hrs ☐	2-3 days ☒	N/A
	Matrix: Filter: MCE ☐			
	Paint: by Area ☐ by Weight ☒			
	Soil ☐			
	Wipe ☐			
	Initial here certifying wipes used are ASTM E1792 compliant ☐			
Fungi	Air Sample: Zef ☐ Aller ☐ Oth ☐	<6 hrs ☐	1-2 days ☐	N/A
	ID/Count: Bulk ☐ Swab ☐			
	Tape: Qual (%) ☐			
	Tape:Quant (cm2) ☐			
	Other			
Dust	NIOSH 500 ☐	<4hr ☐	24h ☐	N/A
Other		Call	Call	

Sample Number	Description/Location (include agar tripolmaker(exp. Date)	Sample Date	Sample Time	Vol/Area
1) LBP-01	Interior Stage handrail / Blue	6/1/2011	0910	
2) LBP-02	white, interim wallboard	6/1/2011	0920	
3) LBP-03	white, interior 16"x8" cmu wall	6/1/2011	0935	
4) LBP-04	white, interim 16"x3½" Brick wall	6/1/2011	0945	
5) LBP-05	Tan; exterin roof flashing	6/1/2011	0955	
6) LBP-06	Brown, exterin roof flashing/trim	6/1/2011	1005	
7) LBP-07	tan; exterior Block wall	6/1/2011	1025	
8) LBP-08	Blue; exterin stoop/stairs	6/1/2011	1045	
9) LBP-09	tan; interin window caulk	6/1/2011	1100	
10) LBP-10	white; exterin window caulk	6/1/2011	1110	
11) LBP-11	brown exteiron wood railing	6/1/2011	1130	
12) LBP-12	brown/green, roof cap flashing	6/1/2011	1140	
13) LBP-13	grey, exterin window caulk	6/1/2011	1145	
14)				
15)				
16)				
17)				
18)				
19)				
20)				

1)Relinquished by: Daniel C Burns	Date: 6/2/11	Time: 1000	3)Relinquished by: UPS Airbill	Date: 6/2/11	Time:	
2)Received by: UPS Airbill	Date: 6/3/11	Time:	4)Received by:	Date: 6/3/11	Time: 9:55A	
* TEM Water: Sampler's name Required by State of Arizona	Print Name					

Review of Analysis Request (Initials) _____

20110554O UPS

Note: Data completed by client (including number and identity of samples) is assumed to be correct until it is verified at time of sample preparation.