



**PHASE I ENVIRONMENTAL SITE ASSESSMENT AND  
LIMITED ASBESTOS AND LEAD-BASED PAINT  
SURVEYS  
MOAPA RESERVATION ADMINISTRATION BUILDING  
1 LINCOLN STREET  
MOAPA RIVER INDIAN RESERVATION  
CLARK COUNTY, NEVADA**

**PROJECT NO. 122783.01**

March 27, 2012

**Only the Client or its designated representatives may use this document and only for the specific project for which this report was prepared.**



March 27, 2012  
File: 122783.01

Mr. David P. Friedman, CEM  
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**Subject: Phase I Environmental Site Assessment and  
Limited Asbestos and Lead-Based Paint Surveys  
Moapa Reservation Administration Building  
1 Lincoln Street  
Moapa River Indian Reservation  
Clark 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. In addition to the submittals provided to NDEP, we are providing two copies to the Moapa Band of Paiutes, 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**

A handwritten signature in black ink, appearing to read "Joshua P. Fortmann".

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PJT/DCB  
Enclosures

Copies with attachments to:

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A report prepared for:

Nevada Division of Environmental Protection  
Bureau of Corrective Actions  
901 South Stewart Street, Suite 4001  
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1 Lincoln Street  
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Kleinfelder Project No.: 122783.01

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.\**



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March 27, 2012

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## 1 EXECUTIVE SUMMARY

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A grant application was submitted by the Moapa Band of Paiutes (Moapa Indian Reservation), a Federal Tribal Organization, 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 Moapa Reservation Administration Building (subject site). 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 Survey and Lead-Based Paint (LBP) Survey be submitted by Kleinfelder. The scope was submitted on April 4, 2011 and approved by the NDEP on October 4, 2011, under NDEP Contract 10-008.

A Phase I ESA was performed for NDEP (Client) for property located on the Moapa Indian Reservation, in Clark County, Nevada (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 site consists of an approximately 6,800 square foot single story structure located at the northwest corner of Lincoln Street and South Reservation Road on the Moapa Paiute Reservation in Moapa, Nevada. The subject site is known as the Moapa Reservation Administration Building.

An historical profile of the subject site 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 site was listed in the Tribal Lands database.

There were no *recognized environmental conditions* (RECs, as defined in Section 2.1) noted.

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

### Asbestos

Based on our observations and a review of the laboratory analytical reports, the following estimated quantity of asbestos-containing material (ACM) was reported to be present:

- Approximately 25 square feet of black roof sealant (samples ACM-11A and ACM 11C), containing 5-10% chrysotile asbestos.

Due to the location (exterior roofing) and observed condition of the ACM, it does not appear to pose a significant risk to building occupants. However, the presence of ACM roof penetration sealant should be made known to anyone who repairs and/or maintains the roof system and/or the roof mounted equipment. Such persons should be trained in Class III work. Class III workers must adhere to Federal Occupational Safety & Health Administration (OSHA), Asbestos Standard for the Construction Industry requirements.

If removal of roof penetration is to occur in the future, a State of Nevada asbestos contractor should be contracted to perform the work as Class II work. Class II workers should implement appropriate work practices in accordance with applicable Federal and Nevada worker exposure regulations.

### Lead Based Paint

The interior painted surfaces were intact, and in good condition. Therefore, in accordance with the NDEP approved work plan, these surfaces were not sampled. The interior painted surfaces should be maintained in good condition. Samples were



collected from interior damaged tile glazing and interior window caulking, but lead was not detected above the laboratory reporting limit.

None of the exterior damaged materials sampled are considered to be LBP and do not need to be addressed through abatement or interim controls. However, Federal OSHA and Nevada OSHA consider the white window caulking (sample LBP-04) and the brown exterior paint (sample LBP-06) to be lead containing LBP is paint containing greater than 0.5 percent lead by weight. Lead-containing paint is paint that contains lead at less than 0.5 percent by weight. While these do not appear to pose a significant health risk to building occupants, any operations which disturb these two surfaces should be done under the appropriate 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

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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 site. 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 site), 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 site location, legal description (if provided), current and proposed use of the subject site, 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 site; 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 site (including the client) are included in Section 7.

- Section 5, **History of the Site**, summarizes the history of the subject site and adjoining properties. This site 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. This section also presents the results of the limited asbestos and lead-based paint surveys.
- 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 subject 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 site is included in appendices of this report.

### 2.3. ADDITIONAL SERVICES

The scope of work for this Phase I ESA included limited asbestos and LBP surveys. 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 site.

### 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 our limited asbestos and LBP surveys, 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 Moapa Band of Paiutes 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

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The site description is presented in this section and describes the condition of the subject site at the time of the Phase I ESA. The subject site location is shown on Plate 1, and an aerial view of the subject site is shown on Plate 2. Tables 3-1 through 3-5 summarize the physical characteristics of the subject 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 site. 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	1 Lincoln Street, Moapa, Nevada 89025 (Northwest corner of South Reservation Road and Lincoln Street)
LOCATION	USA Moapa Indian Reservation, Unincorporated Clark County
SECTION, TOWNSHIP & RANGE	Section 31, Township 14 South, Range 66 East
ASSESSOR'S PARCEL NO.	A portion of 030-36-000-006
LEGAL DESCRIPTION	The site is a portion of SEC 31 TWP 14 RNG 66, of the Clark County Assessors Legal description for the Reservation, recorded as PT SECS 25,26,35,36 14 65 & SEC 31 14 66 & SEC 01 15 65 & SEC 06 15 66
ACRES/ SQUARE FOOTAGE	The parcel assessed is approximately 1.3 acres in size. The Moapa Reservation Administration Building is approximately 6,800 square feet in size.
ZONING	Rural Open Land [.5 Units per Acre] (R-U)

### 3.2. CURRENT/PROPOSED USE OF THE PROPERTY

At the time of Kleinfelder’s assessment the land use for the subject site was the Moapa Reservation Administration Building for the Moapa Band of Paiutes. Current and proposed uses are described in Table 3-2.

**TABLE 3-2  
CURRENT/PROPOSED USES**

<b>Parameter</b>	<b>General Observations</b>
<b>CURRENT USE</b>	Moapa Reservation Administration Building
<b>PROPOSED USE</b>	Moapa Reservation Administration Building

### 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**

<b>Parameter</b>	<b>General Observations</b>
<b>STRUCTURES</b>	Single story building
<b>IMPROVEMENTS</b>	Paved parking and landscaping.

### 3.4. CURRENT USES OF ADJOINING PROPERTIES

Kleinfelder performed a brief drive-by survey of the properties immediately adjoining to the subject site on March 7, 2012. A summary of the surrounding properties is presented in Table 3-4.



**TABLE 3-4  
ADJOINING PROPERTIES**

Direction	Land Use Description
NORTH	Moapa Band of Paiutes Boys and Girls Club
EAST	Single story building (separated from the subject site by South Reservation Road) housing the Tribal Police, the Tribal Court, and the Moapa Indian Reservation Environmental Protection's Water Quality Group.
SOUTH	Playground and ball field area and tribal residential housing.
WEST	Tribal residential housing.

There were no underground storage tanks (USTs) or other environmental conditions visible, from either the subject site boundary or public right-of-way view, on the adjoining properties at the time of Kleinfelder's site reconnaissance. Based on our observations, the adjoining properties do not appear likely to adversely affect the subject site.

## 4 RECORDS REVIEW

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### 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 site 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, Environmental Data Resources (EDR) to perform the government database search for listings within the appropriate US Environmental Protection Agency (EPA) All Appropriate Inquiry (AAI) minimum search distance of the subject site. EDR refers to their reports as the EDR Radius Map Report. 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 Radius Map Report. The Radius Map Report 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

EDR 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 subject site, or nearby properties, have been included in the noted databases and lists. The Radius Map Report includes radius maps that show the locations of the listed properties with respect to the subject 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 site, 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 Radius Map Report.

## 4.2. RESULTS OF DATABASE SEARCH

The following sections contain information on the results of EDR's record search. Listed search distances are those specified in the ASTM Standard:

Moapa Band of Paiutes, 1 Lincoln Street, Moapa, NV- The subject site was listed as a RCRA-NonGen (non-generator), with an address of 1 Lincoln Street, Moapa, Nevada. A request for files from the NDEP and the Southern Nevada Health District (SNHD) did not produce a file for this listing. None of the interviewed contacts (Section 7) had knowledge of a reason for the RCRA NLR listing. The Moapa Paiute Reservation may have been given a RCRA generator ID number during cleanup of the herbicides and pesticides discussed below, or due to occasional disposal of large amounts of household chemicals and wastes. However, no evidence that herbicides, pesticides, or other household chemicals or wastes were stored on site was revealed during our assessment. Based on the available information, the RCRA NLR listing does not appear to represent a risk of environmental impairment to the subject site.

Off site, two geocoded listings were found:

Moapa Pesticide Emergency Response, Moapa River Indian Reservation, Moapa, NV- This site, listed in the CERCLIS database, is located approximately 0.26 miles to the northwest of the subject site. Based on an interview with a Moapa Tribe representative (Mr. Ian Zabarte, Section 7.3), herbicides and pesticides were previously stored in a shed near the Paiute Farm workshop. The condition of storage bags and containers were deteriorating and some of the pesticides and herbicides may have been in contact with soil. Mr. Zabarte requested that the USEPA remove the herbicides and pesticides in 2009. Since the location of this listing is 0.26 miles away, it is unlikely to pose a risk to the subject site.

Moapa River Indian Reservation- This listing only identifies that the subject site is located on the Moapa River Indian Reservation.

Sites not plotted by EDR due to poor or inadequate address information are nongeocoded and are referred to as orphan sites. There were twenty orphan sites. However, based on our research none appear to be in the vicinity of the subject site.

#### 4.3. OTHER RECORDS REVIEWED/AGENCIES CONTACTED

Kleinfelder previously contacted Mr. Charles Moses, Environmental Scientist with the Nevada Department of Agriculture, to inquire about pesticide and/or herbicide use on or near the subject site. Mr. Moses indicated that the state does not maintain records or application on tribal land unless it is performed by a licensed applicator. No records are available at the tribal offices so it is not possible to determine whether a commercial applicator performed work at the subject site.

#### 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
<b>USGS TOPOGRAPHIC QUADRANGLE</b>	Moapa West Quadrangle, 7.5 Minute Series (Topographic), 1967, (photo-revised 1983).	The subject site is located at an approximate elevation of 1640 feet above mean sea level (msl) and the topographic relief slopes to the south and southeast. A structure is depicted on the subject site, and several other smaller structures and roads are shown in the immediate vicinity of the subject site.
<b>SOIL TYPE</b>	USDA-Natural Resources Conservation Service, Web Soil Survey ( <a href="http://websoilsurvey.nrcs.usda.gov">http://websoilsurvey.nrcs.usda.gov</a> ), accessed November 7, 2011.	Soils are classified as "Badland". The USDA Map Unit Symbol is "BD", described as Landform: Fan remnants, Downslope shape: linear, Across slope shape: convex.
<b>OIL AND GAS FIELDS</b>	NBMG, Bulletin 104 (Garr, et. al) and NBMG, Open-File Report 04-1 (Hess, et. al)	There were no oil and gas fields reported in the site vicinity. There were no oil or gas wells depicted within a 1-mile radius of the subject site.

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 site.

**TABLE 4-3  
REGIONAL GEOLOGY AND HYDROGEOLOGY**

Physical Parameter	INFORMATION/COMMENTS
<b>REGIONAL GEOLOGY (Source: Preliminary geologic map of the Moapa West Quadrangle, Clark County, Nevada, [Schmidt, Dwight L.; Page, William R.; Workman, Jeremiah B., USGS Open-File Report 96-521])</b>	The subject site is underlain by Quaternary (Qr) age, recent terrace alluvium (Holocene). Mostly tan silt and sand, but includes sparse gray gravel in upper reach of Muddy River and mostly tan sandy gravel in side stream terraces.
<b>DEPTH TO REGIONAL GROUNDWATER (Source: Nevada Bureau of Water Resources)</b>	Based on the NDWR well log database, there are no wells within Township 14S, Range 66E, Section 31 (the Section in which the subject site lies). Within the adjacent Section to the west (Township 14S, Range 65E, Section 36), there are two irrigation wells listed, with the approximate depth to groundwater listed as being 12 feet below ground surface (bgs). Several more wells are also located within the adjacent Section to the south (Township 14 S, Range 66E, Section 06), consisting mostly of monitoring wells with depth to groundwater ranging between approximately 8 feet to 20 feet bgs.
<b>DIRECTION OF ANTICIPATED FLOW <sup>1</sup> (Source: general local knowledge)</b>	The inferred direction of regional groundwater flow is to the south and southeast towards the Muddy River.
<b>REGIONAL GROUNDWATER QUALITY PROBLEMS</b>	No information on the regional groundwater quality problems is known.
<b>WATER SUPPLY (Source: Nevada Bureau of Water Resources and FirstSearch Report)</b>	A review of the NDWR data well log database and information provided in the Radius Map Report did not reveal the presence of a public drinking water supply well within 1 mile of the subject site.
<b>FLOOD ZONE DESIGNATION (Source: Clark County Regional Flood Control- FloodView Advanced, accessed November 7, 2011))</b>	According to the Clark County Regional Flood Control database, the subject site is located within the 100-year flood zone.

<sup>1</sup> 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
<b>OWNER</b>	Moapa Paiute Indian Reservation
<b>PROPERTY MANAGER</b>	Moapa Band of Paiutes
<b>OCCUPANT</b>	Moapa Band of Paiutes

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 site, 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 site. 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 done for purchase and therefore, this portion of the Phase I ESA does not apply.

#### 4.5.4. Other Information/Documents Provided

Other than information discussed in Section 7, no other documentation was provided by the Client.

## 5 HISTORY OF THE SITE

The history of the subject 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 site, the earliest readily ascertainable historical reference available was 1938. Table 5-1 summarizes the availability of information reviewed during this assessment.

**TABLE 5-1  
HISTORICAL SOURCES**

	<b>Years reviewed</b>	<b>Availability</b>
<b>AERIAL PHOTOGRAPHS</b>	1938, 1967, 1973, 1978, 1981, 1990, 1994, 2006, 2010	Available, EDR, FirstSearch, and Clark County Info Mapper Website
<b>SANBORN FIRE INSURANCE MAPS</b>	Not Applicable	No Coverage
<b>LOCAL STREET DIRECTORIES</b>	None available	No Coverage
<b>HISTORICAL TOPOGRAPHIC MAPS</b>	1886, 1965, 1983	Available, EDR
<b>BUILDING DEPARTMENT</b>	None	None
<b>PREVIOUS ASSESSMENT(S)</b>	Previous Phase I ESA	Available- Kleinfelder archives
<b>OTHER</b>	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 EDR. Some aerial photographs provided by FirstSearch for a nearby Phase I were also reviewed to supplement photographs provided by EDR. Aerial photographs covering the years between 1938 and 2006 were available during the timeframe that

this report was being prepared. The Clark County Info Mapper Website was reviewed for a current (Spring 2010) aerial photo review and is used for Plate 2. A tabulation of the aerial photographs reviewed is presented in Table 5-2. Copies of the photographs provided by EDR are provided in Appendix C.

**TABLE 5-2  
HISTORICAL AERIAL PHOTOGRAPHS REVIEWED**

Date	Approximate Scale	Type	Source	Quality
1938	1 inch = 750 feet	Black and White Monoscopic	FirstSearch	Poor
1967	1 inch = 750 feet	Black and White Monoscopic	FirstSearch	Fair
1973	1 inch = 1,000 feet	Black and White Monoscopic	EDR, FirstSearch	Poor
1978	1 inch = 750 feet	Black and White Monoscopic	EDR	Poor
1981	1 inch = 1,000 feet	Color Monoscopic	EDR, FirstSearch	Poor
1990	1 inch = 750 feet	Black and White Monoscopic	EDR	Poor
1994	1 inch = 500 feet	Black and White Monoscopic	EDR	Good
2006	1 inch = 500 feet	Color Monoscopic	EDR	Excellent
2010	Varies	Color Monoscopic	Clark County InfoMapper	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 site

The 1938 aerial photograph shows the subject site as undeveloped, but the photograph is very dark and features are hard to discern. The 1967 aerial photograph also appears to show the subject site as undeveloped, but again the darkness and poor quality of the

photograph make features difficult to discern. In the 1973 photographs, it appears that the structure is visible on the subject site. In the 1978 and 1981 photographs, the subject site is again visible, although details are difficult to discern. Other than the presence of the structure on the subject site, no details are discernable until the 1994 photograph, in which the structure on the subject site is clearly visible and appears to be in the same configuration as observed during this Phase I ESA. No other changes are apparent in the 2006 and 2010 photographs, with the exception of additional paved parking and landscaped areas on the subject site.

### 5.1.2. Surrounding Areas

The 1938 aerial photograph is very dark and features are hard to discern, but it appears that some of the surrounding areas are used for agriculture. The 1967 photograph appears to show some development along Lincoln Street, in the general vicinity of the subject site. The 1973 aerial photograph clearly shows the presence of small structures adjacent to the south and west of the subject site. No details are discernable until the 1994 photograph, in which the south and west adjacent properties appear to be developed with the currently existing playground area and tribal residential housing. In the 2006 photograph, the north adjacent property is developed with the currently existing Boys and Girls Club. The 2010 aerial photograph shows that the Tribal Police Station adjacent to the east has been constructed.

The aerial photographs did not reveal evidence of RECs for the subject site.

## 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, AST, USTs; and also often identify site uses and features not ordinarily available from other sources.

Kleinfelder requested a search of Fire Insurance Map Coverage by EDR, but coverage was not available for the subject site. A letter of no coverage is provided in Appendix C.

### 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. Kleinfelder requested a search of City Directories by EDR, but coverage was not available for the subject site.

### 5.4. HISTORICAL TOPOGRAPHIC MAP REVIEW

Kleinfelder obtained information regarding historical topographic maps of the subject site vicinity from EDR 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
1886	Moapa, NV	15 minute	1:250,000
1965	Moapa, NV	15 minute	1:62,500
1983	Moapa West, Nevada	7.5 minute	1:24,000

#### 5.4.1. Subject site

The 1886 and 1965 topographic maps do not show details on the subject site. The 1983 topographic map shows a small structure on the subject site, approximately the shape of the currently existing structure.

#### 5.4.2. Surrounding Areas

The 1886 topographic map shows no details in the immediate vicinity of the subject site, with the exception of a road, aligned approximately with the currently existing Lincoln Road. The 1965 historical topographic map shows the presence of roads (including Lincoln Street and Reservation Road) near the subject site. A few small structures are also depicted to the south and west of the subject site. Railroad tracks are also visible approximately 1.5 miles to the southeast of the subject site. The 1983 topographic map shows several additional structures along Lincoln Street and reservation road. "Sewage disposal ponds" are also shown approximately 0.5 miles to the south.

#### 5.5. BUILDING DEPARTMENT RECORDS

No Building Department records were reviewed.

#### 5.6. PREVIOUS ASSESSMENTS

There have been no previous assessments on the subject site. A previous assessment had been conducted on the nearby Tribal Senior Center. This assessment is summarized below.

*Phase I Environmental Site Assessment and Limited Asbestos and Lead-Based Paint Surveys, Moapa Senior Center, Moapa River Indian Reservation, Clark County, Nevada, dated June 28, 2011:*

Kleinfelder previously prepared this Phase I ESA for the Moapa Senior Center, located directly southeast of the subject site at the intersection of Lincoln Street and Paqaroosy Street. One REC was identified for this site, consisting of unlabeled 55-gallon drums with unknown contents stored outside the building. Other environmental concerns included a drum of isopropyl alcohol and buckets of hydraulic oil and paint stored outside the building. The limited asbestos survey revealed the presence of black mastic and vinyl floor tile ACM within the building, and the limited lead-based paint survey identified LBP applied to wood

trim outside the building. The REC, environmental concerns, and presence of ACM and LBP at the Moapa Senior Center do not represent a risk to the subject site.

## 6 SITE RECONNAISSANCE

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

### 6.1. METHODOLOGY AND LIMITING CONDITIONS

On March 7, 2012, Mr. Daniel Burns, a Kleinfelder employed State of Nevada Certified Environmental Manager (CEM), performed a site reconnaissance of the subject site and adjacent properties. During the visit, the weather was cloudy and windy. There were no site access restrictions.

The site reconnaissance included a visual inspection of the subject 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 subject 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 site consists of an approximately 6,800 square foot single story, block wall, built-up roof building, located at 1 Lincoln Street, on the Moapa River Indian Reservation, in Moapa, Nevada. Paved parking and landscaped areas are located outside the building. The subject site is referred to by the Moapa Band of Paiutes as the Moapa Reservation Administration 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 site	Moapa Reservation Administration Building, including a store, and meeting hall	X	
Current use of subject site likely to indicate RECs			X
Past use of subject site			X
Past use of subject site likely to indicate RECs			X
Current use of adjoining properties	<p><u>North</u> – Moapa Band of Paiutes Boys and Girls Club.</p> <p><u>East</u> – Single story building (separated from the subject site by Lincoln Street) housing the Tribal Police, and the Tribe’s Environmental Protection Water Quality Group.</p> <p><u>South</u> – Playground area, ball field and tribal residential housing.</p> <p><u>West</u> – Tribal residential housing, with medical center, beyond</p>	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

**TABLE 6-1 (Continued)  
SITE OBSERVATIONS**

GENERAL OBSERVATIONS	REMARKS	OBSERVED	NOT OBSERVED
Topography of subject site and surrounding area	Flat and sloping slightly to the south / southeast.	X	
Structures	Moapa Reservation Administration Building	X	
Roads	Adjacent on South and West	X	
Potable Water Supply			X
Sewage Disposal System	A septic system is reportedly used for sewage disposal.		X
<b>Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.</b>		<b>OBSERVED</b>	<b>NOT OBSERVED</b>
AST			X
Air emissions			X
Asbestos and lead	Refer to Sections 6.5 (limited asbestos survey) and 6.6 (limited lead paint survey)	X	
Below grade vaults			X
Burned or buried debris			X
Chemical storage	Janitorial cleaning supplies, in 1-gallon or less containers	X	
Chemical mixing areas			X
Discolored soil or water			X
Ditches, streams			X
Drains and piping (e.g. floor drains, floor trenches, bay drains, sand traps, grease traps)			X
Drums			X

**TABLE 6-1 (Continued)  
SITE OBSERVATIONS**

<b>Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.</b>		<b>OBSERVED</b>	<b>NOT OBSERVED</b>
Electrical or hydraulic equipment (polychlorinated biphenyls [PCBs])	Aboveground, pole mounted electrical service was observed. Refer to Section 7.3	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 <i>known</i> use.			X
Hazardous chemical and petroleum products in connection with <i>unknown</i> use.			X
Non-hazardous containers with contents	Janitorial cleaning supplies, all are in 1-gallon or less containers	X	
Hazardous waste storage			X
Heating and cooling system and fuel source	All conditioned space heating is by electricity. Cooling systems are listed as containing R-22 refrigerant.	X	
Industrial waste treatment equipment			X
Loading and unloading areas			X
Odors			X
Pits, ponds, or lagoons			X
Pools of liquid			X

**TABLE 6-1 (Continued)  
SITE 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
Process waste water			X
Septic system (e.g. tank and leach fields)	Location not determined		X
Soil piles			X
Solid waste/evidence of Unauthorized Dumping			X
Stained pavement, soil or concrete	Localized, stained pavement in vehicle parking spaces	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			
Waste water discharge			X
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

The structure on the subject site is a single-story, approximately 6,800-square foot structure, with concrete masonry unit (CMU) exterior walls. The roof is a built up, composition rolled roof construction. At the time of our site reconnaissance, we observed no evidence of RECs. Limited surface staining was observed on the asphalt pavement in parking designated spaces. The staining can be attributed to typical minor leakage from parked vehicles.

A janitorial supply closet, located in the hallway leading from the main entry foyer to the store contains less than 5 gallons of commercially available cleaning supplies. Another supply closet is located in the office hallway, which also contains less than 5 gallons of commercially available cleaning supplies.

The site perimeter was walked and adjacent properties observed (as viewable from the subject site and public rights of way). No RECs or other environmental concerns were noted on adjacent properties.

#### 6.5. LIMITED ASBESTOS SURVEY

On March 7, 2012, a limited asbestos survey was conducted at the same time as the Phase I ESA site reconnaissance. The survey was performed by a State of Nevada Licensed Asbestos Abatement Consultant accredited under the Asbestos Hazards Emergency Response Act (AHERA).

It is Kleinfelder's understanding that the purpose of this survey was to evaluate the interior and roof areas, 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 any interior remodeling/renovations. Appendix D provides an asbestos regulatory overview.

Mr. Daniel Burns, Nevada Asbestos Consultant-Inspector (I-0971) performed the limited asbestos survey. All asbestos bulk samples were submitted to Fiberquant Analytical

Services (Fiberquant) located in Phoenix, Arizona. Fiberquant is certified under the United States Environmental Protection Agency's National Voluntary Laboratory Accreditation Program (NVLAP).

Kleinfelder collected a total of 39 bulk samples of suspect ACMs during the survey. Most bulk samples contained various layers (up to six layers). Based on our observations and a review of the laboratory analytical reports, the following estimated quantities of ACMs are present:

- Roof penetration sealant (Samples ACM-11A and ACM-11C) is asbestos containing (5 to 10% chrysotile asbestos). The estimated 25 square feet of roof penetration sealant 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. Repair and maintenance operations of the roof penetration sealant would be considered Class III asbestos work.

A summary of Kleinfelder's asbestos survey analytical results for the Moapa Reservation Administration Building is provided in Table 6-3. The asbestos sample location maps (interior and exterior) are provided as Plates 6A and 6B, respectively. A summary of the asbestos regulations are provided in Appendix D. Copies of the asbestos analytical laboratory report and chain-of-custody forms are provided in Appendix E.

**TABLE 6-3  
SUMMARY OF ASBESTOS BULK SAMPLE RESULTS**

<b>Sample No.</b>	<b>Sample Location</b>	<b>Sample Description</b>	<b>Asbestos Content (PLM)</b>	<b>Observed Condition /Friability</b>	<b>Estimated Material Amount</b>
ACM-01A Layer #1	Floor tile – Great Hall store room	Off-white floor tile	ND	NA	NA
ACM-01A Layer #2	Floor tile – Great Hall store room	Yellow mastic	ND	NA	NA

**TABLE 6-3 (Continued)**  
**SUMMARY OF ASBESTOS BULK SAMPLE RESULTS**

<b>Sample No.</b>	<b>Sample Location</b>	<b>Sample Description</b>	<b>Asbestos Content (PLM)</b>	<b>Observed Condition /Friability</b>	<b>Estimated Material Amount</b>
ACM-01B Layer #1	Floor tile – Janitor closet	Off-white flooring tile	ND	NA	NA
ACM-01B Layer #2	Floor tile – Janitor closet	Yellow mastic	ND	NA	NA
ACM-01C Layer #1	Floor tile – kitchen	Off-white floor tile	ND	NA	NA
ACM-01C Layer #2	Floor tile – kitchen	Yellow mastic	ND	NA	NA
ACM-02A Layer #1	Floor tile – Great Hall	White caulk	ND	NA	NA
ACM-02A Layer #2	Floor tile – Great Hall	Brown floor tile	ND	NA	NA
ACM-02A Layer #3	Floor tile – Great Hall	Yellow mastic	ND	NA	NA
ACM-02B Layer #1	Floor tile – Great Hall Storage Room	Brown floor tile	ND	NA	NA
ACM-02B Layer #2	Floor tile – Great Hall Storage Room	Clear mastic	ND	NA	NA
ACM-02C Layer #1	Floor tile – Kitchen	Brown floor tile	ND	NA	NA
ACM-02C Layer #2	Floor tile – Kitchen	Clear mastic	ND	NA	NA
ACM-03A Layer #1	Cove/Mastic – Great hall	Brown base cove	ND	NA	NA
ACM-03A Layer #2	Cove/Mastic – Great hall	Yellow mastic	ND	NA	NA
ACM-03A Layer #3	Cove/Mastic – Great hall	Brown mastic	ND	NA	NA
ACM-03B Layer #1	Cove/Mastic – Hallway	Black base cove	ND	NA	NA
ACM-03B Layer #2	Cove/Mastic – Hallway	Off-white mastic	ND	NA	NA
ACM-03C Layer #1	Cove/Mastic – Janitor Closet	Gray base cove	ND	NA	NA
ACM-03C Layer #2	Cove/Mastic – Janitor Closet	Yellow mastic	ND	NA	NA
ACM-04A Layer #1	Ceiling – Great Hall	White paint	ND	NA	NA

**TABLE 6-3 (Continued)**  
**SUMMARY OF ASBESTOS BULK SAMPLE RESULTS**

<b>Sample No.</b>	<b>Sample Location</b>	<b>Sample Description</b>	<b>Asbestos Content (PLM)</b>	<b>Observed Condition /Friability</b>	<b>Estimated Material Amount</b>
ACM-04A Layer #2	Ceiling – Great Hall	Tan acoustical tile	ND	NA	NA
ACM-04B Layer #1	Ceiling – Great Hall	White paint	ND	NA	NA
ACM-04B Layer #2	Ceiling – Great Hall	Tan acoustical tile	ND	NA	NA
ACM-04C Layer #1	Ceiling – Great Hall	White paint	ND	NA	NA
ACM-04C Layer #2	Ceiling – Great Hall	Tan acoustical tile	ND	NA	NA
ACM-05A Layer #1	Wall Paper & Mastic – Hallway	Off-white paint	ND	NA	NA
ACM-05A Layer #2	Wall Paper & Mastic – Office Hallway	White wall covering	ND	NA	NA
ACM-05A Layer #3	Wall Paper & Mastic – Office Hallway	Yellow mastic	ND	NA	NA
ACM-05B Layer #1	Wall Paper & Mastic – Front Office	Off-white paint	ND	NA	NA
ACM-05B Layer #2	Wall Paper & Mastic – Front Office	White wall covering	ND	NA	NA
ACM-05C Layer #1	Wall Paper & Mastic – Hallway to Store	Off-white paint	ND	NA	NA
ACM-05C Layer #2	Wall Paper & Mastic – Hallway to Store	White wall covering	ND	NA	NA
ACM-06A Layer #1	Wall system – Chairman Office	Brown paint	ND	NA	NA
ACM-06A Layer #2	Wall system – Chairman Office	White texture/joint compound	ND	NA	NA



**TABLE 6-3 (Continued)**  
**SUMMARY OF ASBESTOS BULK SAMPLE RESULTS**

Sample No.	Sample Location	Sample Description	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
ACM-06A Layer #3	Wall system – Chairman Office	Off-white paper/cardboard	ND	NA	NA
ACM-06A Layer #4	Wall system – Chairman Office	White texture/joint compound	ND	NA	NA
ACM-06A Layer #5	Wall system – Chairman Office	Tan paper/cardboard	ND	NA	NA
ACM-06A Layer #6	Wall system – Chairman Office	White drywall core	ND	NA	NA
ACM-06B Layer #1	Wall system – Store	Off-white paint	ND	NA	NA
ACM-06B Layer #2	Wall system – Store	White texture/joint compound	<=1% chrysotile asbestos	NA	NA
ACM-06B Layer #3	Wall system – Store	Tan paper/cardboard	ND	NA	NA
ACM-06B Layer #4	Wall system – Store	White drywall core	ND	NA	NA
ACM-06C Layer #1	Wall system – Janitor Closet	Off-white paint	ND	NA	NA
ACM-06C Layer #2	Wall system – Janitor Closet	White texture joint compound	ND	NA	NA
ACM-06C Layer #3	Wall system – Janitor Closet	Tan paper/cardboard	ND	NA	NA
ACM-06C Layer #4	Wall system – Janitor Closet	White drywall core	ND	NA	NA
ACM-07A Layer #1	Attic	Pink insulation	ND	NA	NA
ACM-08A Layer #1	Floor tile Mortar – Office Hallway	Black mortar	ND	NA	NA
ACM-08B Layer #1	Floor tile Mortar – Entry Foyer	Gray coating	ND	NA	NA

**TABLE 6-3 (Continued)**  
**SUMMARY OF ASBESTOS BULK SAMPLE RESULTS**

<b>Sample No.</b>	<b>Sample Location</b>	<b>Sample Description</b>	<b>Asbestos Content (PLM)</b>	<b>Observed Condition /Friability</b>	<b>Estimated Material Amount</b>
ACM-08C Layer #1	Floor tile Mortar – Janitor closet/store hallway threshold	Gray coating	ND	NA	NA
ACM-08C Layer #2	Floor tile Mortar – Janitor closet/store hallway threshold	Black mortar	ND	NA	NA
ACM-09A Layer #1	Exterior Block Wall – Great Hall/Store	Gray block	ND	NA	NA
ACM-09B Layer #1	Exterior Block Wall – Front Entry	Pink paint	ND	NA	NA
ACM-09B Layer #2	Exterior Block Wall – Front Entry	White texture/joint compound	<=1% chrysotile asbestos	NA	NA
ACM-09B Layer #3	Exterior Block Wall – Front Entry	Gray block	ND	NA	NA
ACM-09C Layer #1	Exterior Block Wall – Side Entry to offices	Gray block	ND	NA	NA
ACM-10A Layer #1	Exterior Clay paver – front entry	Red brick	ND	NA	NA
ACM-10A Layer #2	Exterior Clay paver – front entry	Black mortar	ND	NA	NA
ACM-10B Layer #1	Exterior Clay paver – front entry	Red brick	ND	NA	NA
ACM-10C Layer #1	Exterior Clay paver – front entry	Black block	ND	NA	NA
ACM-10C Layer #2	Exterior Clay paver – front entry	Gray mortar	ND	NA	NA

**TABLE 6-3 (Continued)**  
**SUMMARY OF ASBESTOS BULK SAMPLE RESULTS**

Sample No.	Sample Location	Sample Description	Asbestos Content (PLM)	Observed Condition /Friability	Estimated Material Amount
ACM-11A Layer #1	Roof - penetration seal	White sealant	ND	NA	NA
ACM-11A Layer #2	Roof - penetration seal	Black caulk	5-10% chrysotile asbestos	Good / Category II Non friable	25 square feet (total, see text)
ACM-11B Layer #1	Roof - penetration seal	White sealant	ND	NA	NA
ACM-11B Layer #2	Roof - penetration seal	Black caulk	ND	NA	NA
ACM-11C Layer #1	Roof - penetration seal	Black caulk	5-10% chrysotile asbestos	Good / Category II Non friable	25 square feet (total, see text)
ACM-12A Layer #1	Roof – Rolled composite	Black roofing roll/shingle	ND	NA	NA
ACM-12B Layer #1	Roof – Rolled composite	Black roofing roll/shingle	ND	NA	NA
ACM-12B Layer #2	Roof – Rolled composite	Black mastic	ND	NA	NA
ACM-12B Layer #3	Roof – Rolled composite	Black roof ply	ND	NA	NA
ACM-12C Layer #1	Roof – Rolled composite	Silver paint	ND	NA	NA
ACM-12C Layer #2	Roof – Rolled composite	Black roofing roll/shingle	ND	NA	NA
ACM-12C Layer #3	Roof – Rolled composite	Black mastic	ND	NA	NA
ACM-13A Layer #1	Ceiling – Entry Foyer	White spray-on ceiling	ND	NA	NA
ACM-13B Layer #1	Ceiling – Finance Office	White spray-on ceiling	ND	NA	NA
ACM-13C Layer #1	Ceiling – Store	White spray-on ceiling	ND	NA	NA
ACM-14A Layer #1	Floor tile - store	Brown floor tile	ND	NA	NA

**TABLE 6-3 (Continued)  
SUMMARY OF ASBESTOS BULK SAMPLE RESULTS**

<b>Sample No.</b>	<b>Sample Location</b>	<b>Sample Description</b>	<b>Asbestos Content (PLM)</b>	<b>Observed Condition /Friability</b>	<b>Estimated Material Amount</b>
ACM-14A Layer #2	Floor tile - store	Clear mastic	ND	NA	NA
ACM-14A Layer #3	Floor tile - store	White floor tile	ND	NA	NA
ACM-14A Layer #4	Floor tile - store	Yellow mastic	ND	NA	NA
ACM-14B Layer #1	Floor tile - store	Brown floor tile	ND	NA	NA
ACM-14B Layer #2	Floor tile - store	Clear mastic	ND	NA	NA

ND = Not detected

NA = Not applicable

#### 6.5.1. Applicable Regulations- Asbestos

On federal and tribal lands, 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 Occupational Safety and Health Administration (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 D.

### 6.5.2. Recommendations- Asbestos

Due to the location (exterior) and observed condition of the ACM, it does not appear to pose a significant risk to building occupants. However, the presence of ACM roof penetration sealant should be made known to anyone who repairs and/or maintains the roof system and/or the roof mounted equipment. Such persons should be trained in Class III work. Class III workers must adhere to Federal OSHA, Asbestos Standard for the Construction Industry requirements.

If removal of roof penetration is to occur in the future, a State of Nevada asbestos contractor should be contracted to perform the work as Class II work. Class II workers should implement appropriate work practices in accordance with applicable Federal and Nevada worker exposure regulations, which should include:

- Do not cut, abrade, or break the material unless infeasible;
- Wet the material thoroughly with amended water before and during removal;
- Remove the material intact, if possible; and
- Bag or wrap removed ACM immediately or keep it wet until transferred to a closed receptacle no later than the end of the work shift.
- Notification should be made to Mr. Bob Trotter, the USEPA NESHAP coordinator, located in San Francisco, California about the renovation project at least 10 working days prior to the beginning of the project.

### 6.6. LEAD-BASED PAINT SURVEY

On March 7, 2012, Kleinfelder personnel conducted a surface-by-surface visual inspection of interior and exterior painted surfaces throughout accessible areas of the Moapa Reservation Administration Building. Mr. Daniel Burns, who holds USEPA Lead Paint Risk Assessor certification for Region 9 Tribal Lands (T9-R-11723-2) performed the survey.

Paint chip samples were collected from tile surfacing (tile glaze), from painted surfaces and window caulking that was visually observed to be damaged (cracked, chipped, peeling, and/or delaminating). During the limited LBP survey, glazing and some of the

floor tile in the main entry foyer and the hallways was observed to be in poor condition. One sample of the tile surfacing glaze was collected. Accessible interior painted surfaces were observed to be in good condition. Therefore, in accordance with the NDEP approved scope of work plan, none of the interior painted surface samples were collected. Some interior painted window caulking was observed to be cracking and was considered damaged. The damaged interior window caulking was sampled. Damaged exterior paint and window caulking as a result of moisture, wear, heat, and/or age was observed. Exterior painted surfaces on wood substrate were observed to be in poor condition. Overall, the exterior painted surfaces on concrete masonry block substrate was observed to be in fair condition.

One paint chip sample was collected from each color of the exterior damaged paint. Samples were also collected from the damaged (interior and exterior) window caulking. Samples were submitted to Fiberquant for LBP analyses. The paint samples were submitted 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 Environmental Protection Agency's (EPA) National Lead Laboratory Accreditation Program (NLLAP).

The limited lead paint survey consisted of sample collection from the following specific media:

- a. One chip samples was collected from tile glaze that was visually observed to be damaged (LBP-01).
- b. Three samples were collected from window caulking that was visually observed to be damaged. One was from an interior location (LBP-02) and two were from exterior locations (LBP-03 and LBP-04).
- c. Three paint chip samples were collected from exterior paint that was visually observed to be damaged and of a different color (LBP-05 through LBP-07).

The chip sample collected from the damage floor tile glaze (LBP-01) was reported to be less than 15 ppm or 0.0015% by weight. This is not considered to be lead containing.

For the three chip samples collected from the window caulking (LBP-02, LBP-03 and LBP-04), the chip sample (LBP-04) collected from the exterior white painted caulking was reported to contain lead at a concentration of 670 ppm or 0.067% by weight. The analytical results indicate this window caulking is not considered LBP, but it does contain lead. The two other window caulking samples were below their respective laboratory reporting limits of 15 and 16 ppm.

Of the three paint chip samples collected (LBP-05, LBP-06 and LBP-07), sample LBP-06, collected from the exterior brown painted caulking, was reported to contain lead at a concentration of 49 ppm or 0.0049% by weight. The analytical results indicate this paint is not considered LBP, but it does contain lead. The two other paint chip samples were below their respective laboratory reporting limits of 13 and 15 ppm.

A summary of Kleinfelder's Limited LBP Survey analytical results is provided in Table 6-4. The paint sample location map is provided as Plate 7. A summary of the LBP regulations are provided in Appendix F. Copies of the lead sample analytical laboratory report and chain-of-custody forms are provided in Appendix G.

**TABLE 6-4  
SUMMARY OF LEAD SAMPLE RESULTS**

<b>Sample No.</b>	<b>Sample Location and Description</b>	<b>Lead Content (ppm)</b>
LBP-01	Black tile glaze adhered to clay type floor tile	<15
LBP-02	Grey interior window caulk – finance office	<15
LBP-03	Black exterior window caulk – south	<16
LBP-04	White exterior window caulk- west	670
LBP-05	White exterior paint (wood substrate)	<13
LBP-06	Brown exterior paint (wood substrate)	49
LBP-07	Green exterior paint (wood substrate)	<15

< = less than

#### 6.6.1. Applicable Regulations- LBP

The EPA and US Department of Housing and Urban Development (HUD) define LBP as paints containing greater than 0.5 percent 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. Federal and Nevada OSHA are primarily concerned with worker protection, and regulate any amount of lead contained within painted building components. A more detailed summary of LBP regulations is presented as Appendix F.

#### 6.6.2. Recommendations- LBP

None of the damaged materials sampled are considered to be LBP and do not need to be addressed through abatement or interim controls. However, Federal OSHA and Nevada OSHA consider the white window caulking (LBP-04) and the brown exterior paint (LBP-06) to be lead containing. While these do not appear to pose a significant health risk to building occupants, any operations which disturb these two surfaces should be done under the appropriate OSHA regulations.



## 7 INTERVIEWS

---

### 7.1. INTERVIEW WITH OWNER REPRESENTATIVE AND KEY SITE MANAGER

Kleinfelder conducted an interview with the owner representative, Tribal Chairman Anderson, during the site reconnaissance portion of this Phase I ESA. Chairman Anderson also serves as Key Site Manager for the subject site.

Chairman Anderson indicated the building had been used as the Moapa Reservation Administration Building as long as he could remember, that the Great Hall and the tribal convenience store were newer additions and that he had no knowledge of any environmental concerns, but that the Tribe was concerned about ACM and LBP, due to the age of the building.

### 7.2. INTERVIEW WITH OTHERS

Kleinfelder previously contacted Mr. Ian Zabarte, Environmental Coordinator, Moapa Band of Paiutes, Department of Environmental Protection, to conduct an interview regarding the CERCLIS listing for the pesticide emergency response. That interview is summarized in Section 4.2 of this report.

## 8 EVALUATION

---

Kleinfelder performed this ESA of the subject site 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 subject site. Findings include RECs, historical RECs, and notation of de minimis quantities, as applicable to the site. Business environmental risk issues are discussed in Section 8.3, Deviations. In summary, Kleinfelder's assessment revealed the following information about the subject site:

### 8.1. BACKGROUND

The subject site consists of an approximately 1.3-acre area, developed with an approximately 6,800-square foot, single story structure located at the southwest corner of Lincoln Street and Paqaroonsy Street on the Moapa Paiute Reservation in Moapa, Nevada. The subject site is referred to as the Moapa Reservation Administration Building.

### 8.2. FINDINGS AND OPINIONS

An historical profile of the subject site 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 site does not appear on federal, state, and/or local environmental databases reviewed, except for Tribal Land listings.

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

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

### Limited Asbestos Survey

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

- Approximately 25 square feet of black roof sealant (samples ACM-11A and ACM 11C), containing 5-10% chrysotile asbestos.

### Lead-Based Paint Survey

Kleinfelder observed no damaged paint on the accessible interior areas of the structure. The interior painted surfaces were in good condition and were not sampled. Samples were collected from interior damaged tile glazing and interior window caulking, but lead was not detected above the laboratory reporting limit. Samples were collected from exterior paints and window caulking that were observed to be damaged. Based on the laboratory analytical reports, no LBP is present. However, the sampled white window caulking (LBP-04) and brown exterior paint (LBP-06) were lead containing (containing lead at less than 0.5 percent by weight).

## 8.3. DEVIATIONS AND ADDITIONAL SERVICES

An evaluation of business environmental risk associated with the parcel(s) was not included in Kleinfelder's scope of services, with the exception of limited asbestos and LBP surveys. The ESA does not incorporate non-scope considerations, such as radon, lead in drinking water testing, 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 a portion of Clark County Assessor Parcel 030-36-000-006. The subject site is located at the northwest corner of Lincoln Street and South Reservation Road on the Moapa Paiute Reservation in Moapa, Nevada. It is referred to as the Moapa Reservation Administration Building. Any exceptions to, or deviations from, this practice are described in Section 8.3 of this report.

This assessment revealed the no RECs in connection with the subject site. However, the following environmental concerns may warrant consideration:

##### Asbestos

Due to the observed condition and location (exterior roofing), the ACM does not appear to pose a significant risk to building occupants. However, the presence of ACM roof penetration sealant should be made known to anyone who repairs and/or maintains the roof system and/or the roof mounted equipment. Such persons should be trained in Class III work. Class III workers must adhere to Federal OSHA, Asbestos Standard for the Construction Industry requirements.

If removal of roof penetration is to occur in the future, a State of Nevada asbestos contractor should be contracted to perform the work as Class II work. Class II workers should implement appropriate work practices in accordance with applicable Federal and Nevada worker exposure regulations.

##### Lead-Based Paint

Kleinfelder observed no damaged paint on the accessible interior areas of the structure. The interior painted surfaces should be maintained in good condition. Samples were collected from interior damaged tile glazing and interior window caulking, but lead was not detected above the laboratory reporting limit. None of the damaged materials (exterior) sampled are considered to be LBP and do not need to be addressed through

abatement or interim controls. However, Federal OSHA and Nevada OSHA consider the white window caulking (sample LBP-04) and the brown exterior paint (sample LBP-06) to be lead containing. While these do not appear to pose a significant health risk to building occupants, any operations which disturb these two surfaces should be done under the appropriate OSHA regulations.

#### 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.

Clark County Regional Flood Control District. *FloodZone*. Accessed November 7, 2011. <http://breccia.ccrfcd.org/website/floodex>.

Division of Water Resources, Department of Conservation & Natural Resources, State of Nevada. *Well Log Database Query Tool*. Accessed November 5, 2011. <http://water.nv.gov/Engineering/wlog/wlog.cfm>

Federal Occupational Safety & Health Administration, Asbestos Standard for the Construction Industry, OSHA 3096, 2002 (Revised)

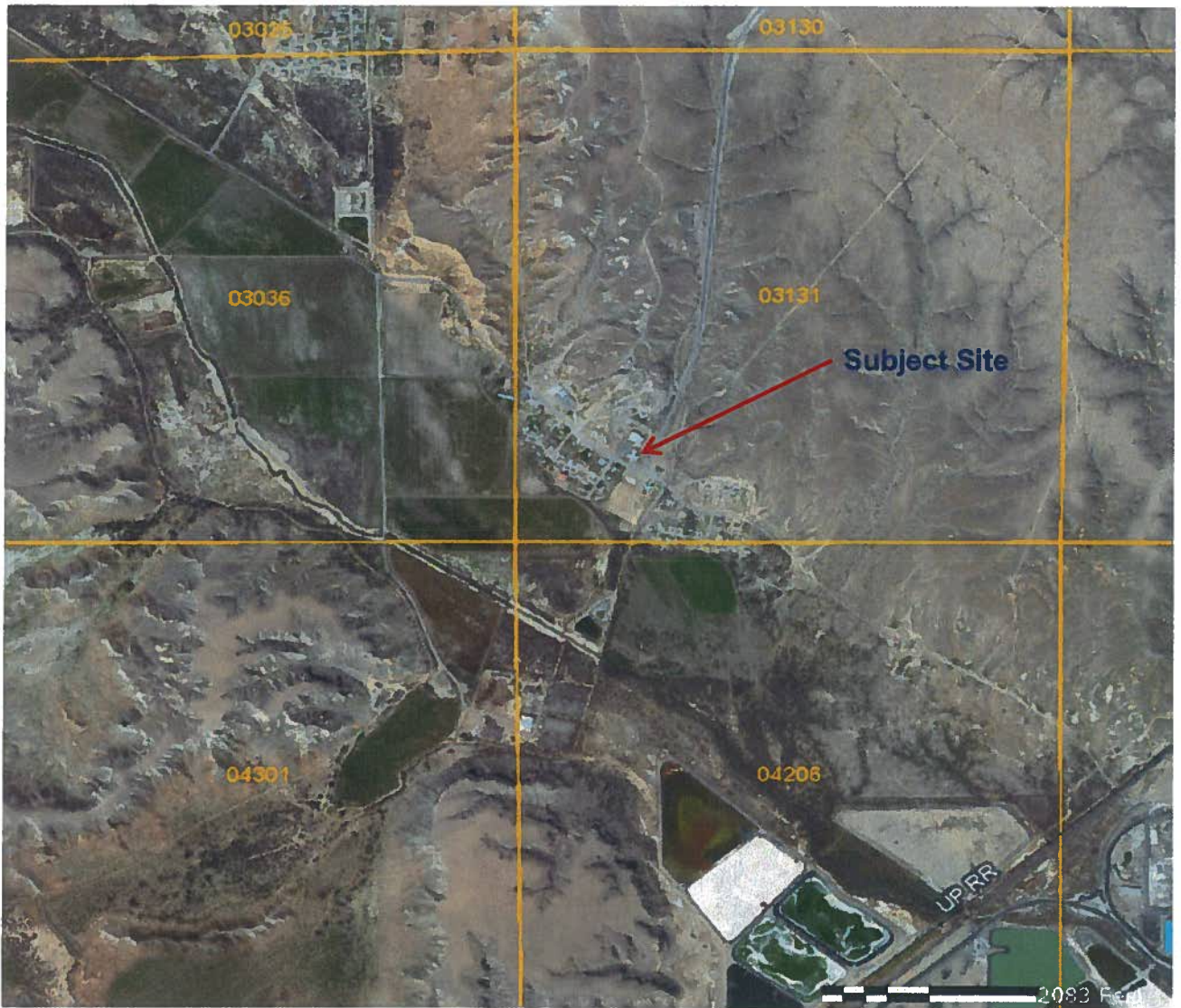
Garside, L.J., R.H. Hess, K.L. Fleming and B.S. Weimer, 1988. *Oil and Gas Developments in Nevada*, Nevada Bureau of Mines and Geology Bulletin 104.

Hess, R.H., S.P. Fitch, and S.N. Warren, 2004. *Nevada Oil and Gas Well Database (NVOILWEL)*. Nevada Bureau of Mines and Geology Open-File Report 04-1. June 1.

Environmental Data Resources, Inquiry Number 03199391.2r, November 1, 2011.

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

# PLATES



Not to Scale



*Original in Color*

Map Source:  
Clark County, Nevada County  
Assessor's Office OpenWeb Info Mapper



**SUBJECT SITE AND VICINITY MAP**

Administration Building  
Moapa River Indian Reservation  
1 Lincoln Street  
Moapa, Clark County, Nevada

PLATE

**1**

Drawn by: PJT | Checked by: JPF | Date: 11-4-11 | PROJECT NO.: 122783.01





Subject Property

Not to Scale



Map Source:  
Clark County, Nevada  
County Assessor's Office  
OpenWeb Info Mapper  
Assessor's Map and Aerial Photograph  
Fall 2011

*Original in Color*



**AERIAL VIEW OF SUBJECT SITE**

Administration Building  
Moapa River Indian Reservation  
1 Lincoln Street  
Moapa, Clark County, Nevada

PLATE

**2**

Drawn by: PJT | Checked by: DCB | Date: 11-4-11

PROJECT NO.: 122783.01



Main Entry Foyer



Hallway to Store



Hallway to Administration Offices



Center's Great Hall



Storage Room for Great Hall

*Original in Color*



**SITE PHOTOGRAPHS**

Administration Building  
 Moapa River Indian Reservation  
 1 Lincoln Street  
 Moapa, Clark County, Nevada

PLATE

**3**

Drawn by: DCB | Checked by: PJT | Date: 03/7/12

PROJECT NO.: 122783.01



Store Office and Supply Room



Store Cooler



Janitorial Supply Closet



Office Supply Closet

Original in Color



**SITE PHOTOGRAPHS**

Administration Building  
 Moapa River Indian Reservation  
 1 Lincoln Street  
 Moapa, Clark County, Nevada

PLATE

**4**



Looking towards the southerly adjacent property (playground and ballpark)



Looking towards the southerly adjacent property (Residential)



Looking towards the westerly adjacent property (residential)



Looking towards the easterly adjacent property (Police and Tribal court building)



Overexposed photograph is looking towards the northerly adjacent property (Girls and Boys Club Recreation Center )

*Original in Color*



**SITE PHOTOGRAPHS**

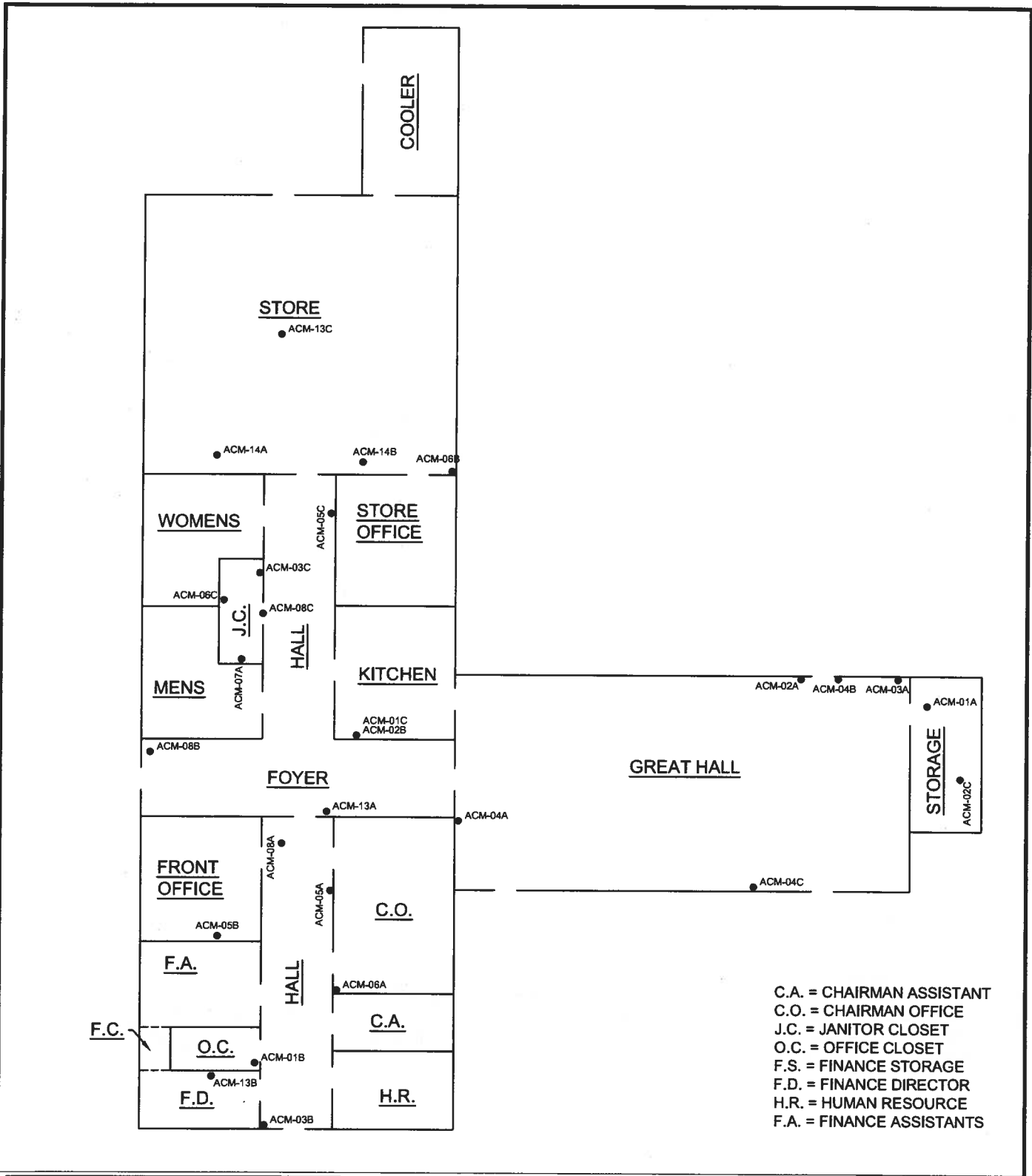
Administration Building  
 Moapa River Indian Reservation  
 1 Lincoln Street  
 Moapa, Clark County, Nevada

PLATE


**5**


Drawn by: DCB | Checked by: PJT | Date: 03/7/12

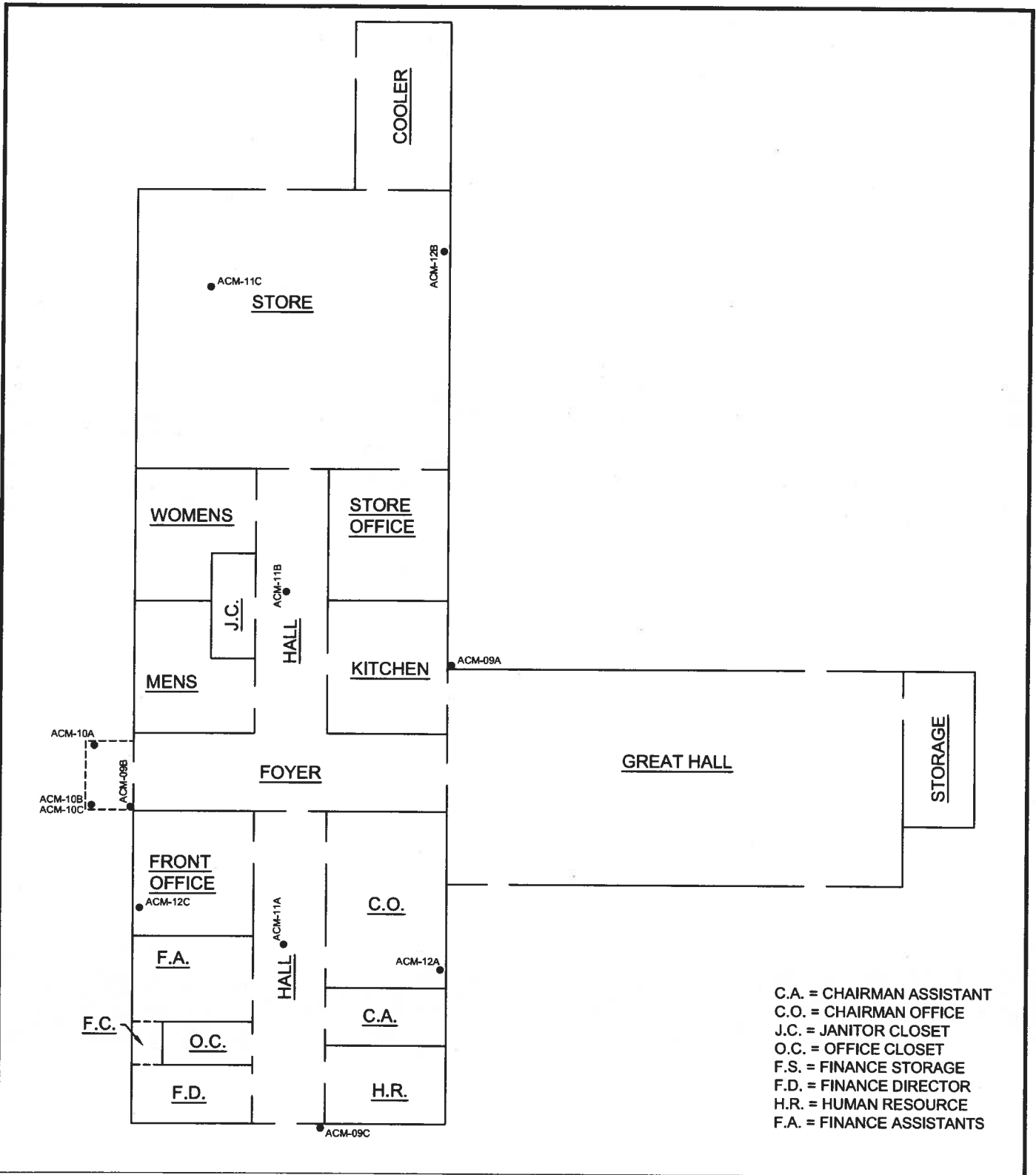
PROJECT NO.: 122783.01



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 DRAWING NOT TO SCALE

	<b>PROJECT NO.</b> 122783.01 <b>DRAWN:</b> 03/15/2012 <b>DRAWN BY:</b> DFR <b>CHECKED BY:</b> DB	<b>ASBESTOS SAMPLE LOCATIONS INTERIOR</b>  Moapa Administration Building 1 Lincoln Street Moapa River Indian Reservation Moapa, Nevada	<b>PLATE</b>  <b>6A</b>
	6380 South Polaris Avenue Las Vegas, Nevada 89118 (P) 702-738-2938 (F) 702-381-9094		



- C.A. = CHAIRMAN ASSISTANT
- C.O. = CHAIRMAN OFFICE
- J.C. = JANITOR CLOSET
- O.C. = OFFICE CLOSET
- F.S. = FINANCE STORAGE
- F.D. = FINANCE DIRECTOR
- H.R. = HUMAN RESOURCE
- F.A. = FINANCE ASSISTANTS

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**LEGEND**

● ACM-04C - Approximate Bulk Sample Location

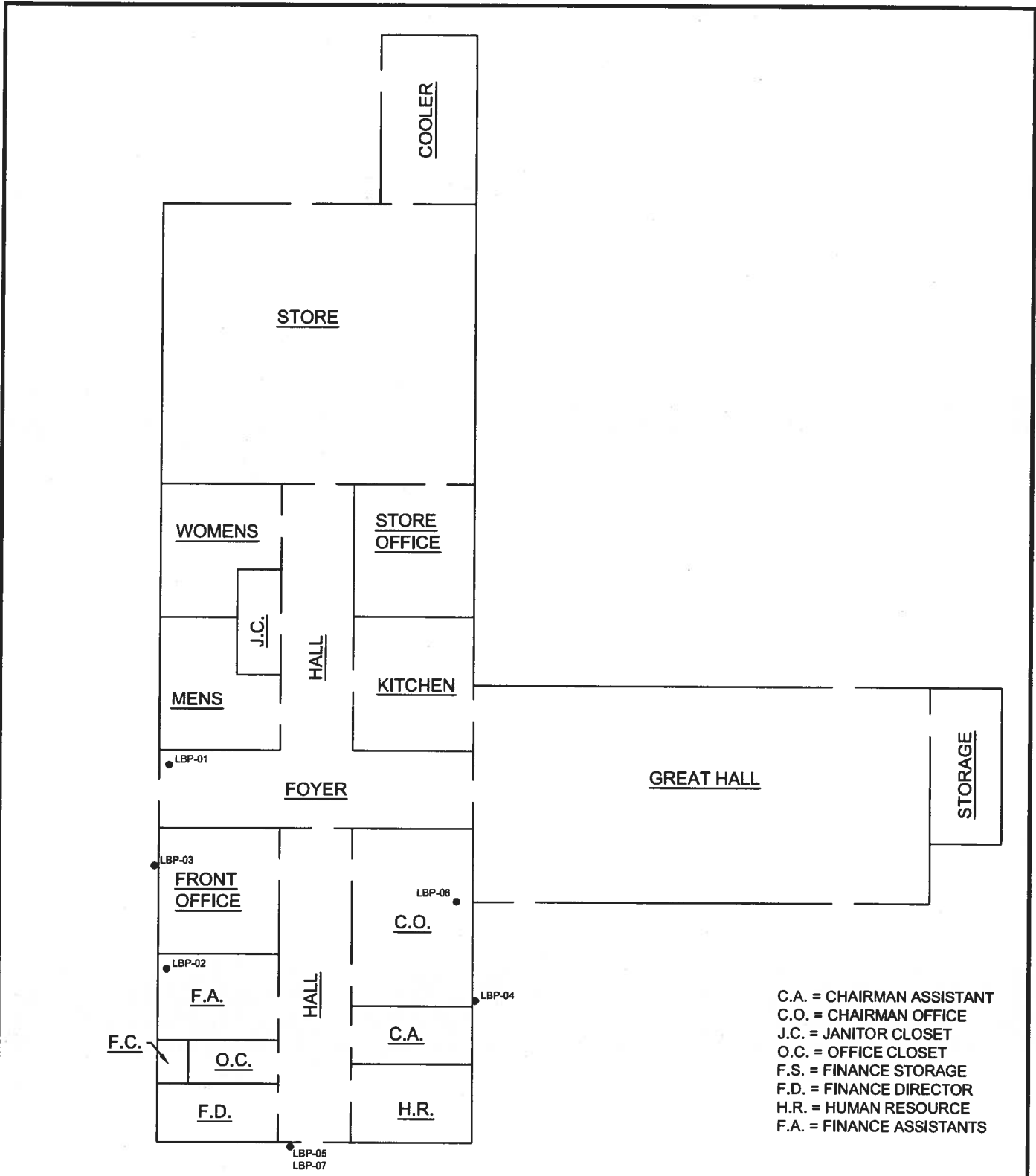


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DRAWN:	03/15/2012
DRAWN BY:	DFR
CHECKED BY:	DB
6380 South Polaris Avenue Las Vegas, Nevada 89118 (P) 702-736-2936 (F) 702-361-8094	

**ASBESTOS SAMPLE LOCATIONS EXTERIOR**

Moapa Administration Building  
1 Lincoln Street  
Moapa River Indian Reservation  
Moapa, Nevada

PLATE  
**6B**



- C.A. = CHAIRMAN ASSISTANT
- C.O. = CHAIRMAN OFFICE
- J.C. = JANITOR CLOSET
- O.C. = OFFICE CLOSET
- F.S. = FINANCE STORAGE
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**LEGEND**

● LBP-01 - Approximate Sample Location

  
DRAWING NOT TO SCALE



PROJECT NO.	122783.01
DRAWN:	03/15/2012
DRAWN BY:	DFR
CHECKED BY:	DB
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**LEAD PAINT SAMPLE LOCATIONS**

Moapa Administration Building  
1 Lincoln Street  
Moapa River Indian Reservation  
Moapa, Nevada

PLATE  
**7**

# **APPENDIX A**

## **QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS**



## 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 site. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in CFR Part 312.



---

Phil J. Tousignant, CEM  
Environmental Scientist



---

Daniel C. Burns, CEM  
Project Geologist



---

Pamela A. Wee  
Environmental Group Manager

## Employee Bios:

### **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.

### **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.



**Pamela A. Wee**  
**Environmental Group Manager**

Dr. Wee offers 30 years of experience conducting and managing site remediation and restoration projects, health risk assessments, and Phase I site assessments. Dr. Wee has provided engineering support for Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) investigations at private and federal CERCLA sites. She managed the Sacramento Army Depot Installation Restoration Program, which was a \$25 million federal facility CERCLA project. In addition, she has provided air quality modeling and health risk assessments in support of regulatory and permitting activities for facilities regulated under the Resource Conservation and Recovery Act (RCRA).

**APPENDIX B**

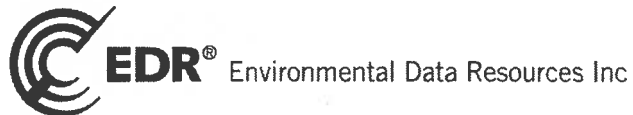
**EDR RADIUS MAP REPORT**

**Moapa Reservation Administration Building**

1 Lincoln Street  
Moapa, NV 89040

Inquiry Number: 03199391.2r  
November 01, 2011

**The EDR Radius Map™ Report with GeoCheck®**



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

1 LINCOLN STREET  
MOAPA, NV 89040

#### COORDINATES

Latitude (North): 36.670100 - 36° 40' 12.4"  
Longitude (West): 114.653300 - 114° 39' 11.9"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 709720.8  
UTM Y (Meters): 4060640.0  
Elevation: 1635 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 36114-F6 MOAPA WEST, NV  
Most Recent Revision: 1983

#### AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2010  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
MOAPA BAND OF PAIUTES 1 LINCOLN ST MOAPA, NV 89025	RCRA-NonGen FINDS	NVR000001198

## EXECUTIVE SUMMARY

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

#### ***Federal CERCLIS list***

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System  
FEDERAL FACILITY..... Federal Facility Site Information listing

#### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

#### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

#### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity Generators  
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

#### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

#### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

#### ***State- and tribal - equivalent CERCLIS***

SHWS..... Sites Database



## EXECUTIVE SUMMARY

### **State and tribal landfill and/or solid waste disposal site lists**

SWF/LF..... Landfill List

### **State and tribal leaking storage tank lists**

LUST..... Sites Database

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### **State and tribal registered storage tank lists**

UST..... Underground Storage Tank List

AST..... Aboveground Storage Tank List

INDIAN UST..... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

### **State and tribal voluntary cleanup sites**

VCP..... Voluntary Cleanup Program Sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

### **State and tribal Brownfields sites**

BROWNFIELDS..... Project Tracking Database

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Brownfield lists**

US BROWNFIELDS..... A Listing of Brownfields Sites

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

SWRCY..... Recycling Information Listing

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

#### **Local Lists of Hazardous waste / Contaminated Sites**

US CDL..... Clandestine Drug Labs

US HIST CDL..... National Clandestine Laboratory Register

#### **Local Land Records**

LIENS 2..... CERCLA Lien Information

LUCIS..... Land Use Control Information System

#### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System

#### **Other Ascertainable Records**

DOT OPS..... Incident and Accident Data

## EXECUTIVE SUMMARY

DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
RAATS.....	RCRA Administrative Action Tracking System
NPDES.....	Permitted Facility Listing
AIRS.....	Permitted Airs Facility Listing
HMRI.....	Hazardous Materials Repository Information Data
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH DOE.....	Sleam-Electric Plan Operation Data
COAL ASH.....	Coal Ash Disposal Sites
FINANCIAL ASSURANCE.....	Financial Assurance Information Listing

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

Manufactured Gas Plants.....	EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations..	EDR Proprietary Historic Gas Stations
EDR Historical Cleaners.....	EDR Proprietary Historic Dry Cleaners

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in *bold italics* are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### ADDITIONAL ENVIRONMENTAL RECORDS

#### *Other Ascertainable Records*

## EXECUTIVE SUMMARY

**INDIAN RESERV:** This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

A review of the INDIAN RESERV list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 INDIAN RESERV site within approximately 1 mile of the target property.

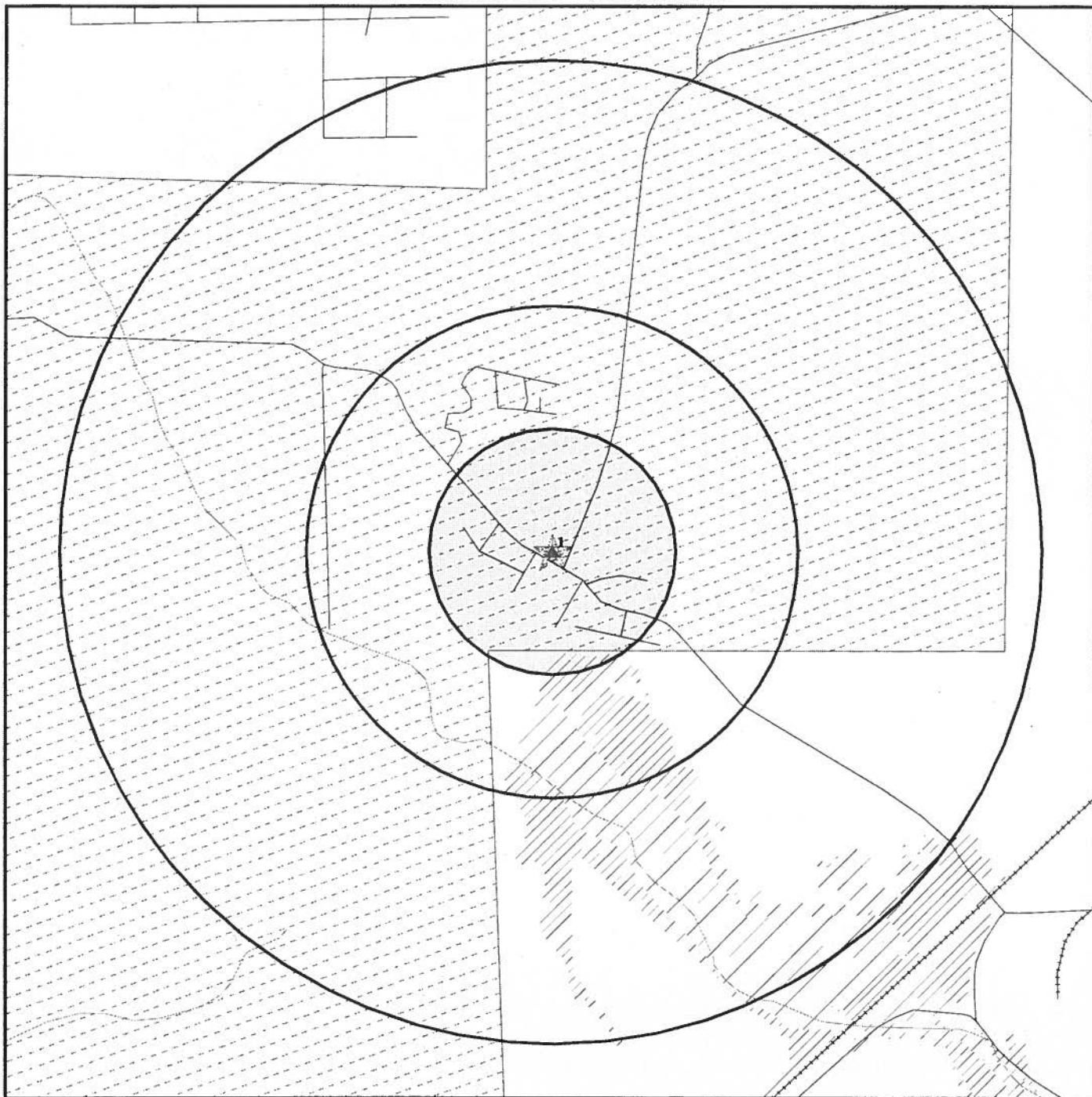
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MOAPA RIVER INDIAN RESERVATION		0 - 1/8 (0.000 mi.)	0	8

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 33 records.

<u>Site Name</u>	<u>Database(s)</u>
UNION PACIFIC RAILROAD COMPANY	SHWS, BROWNFIELDS
SIERRA RANCH COMPANY MOBILE SOURCE	SHWS
BEKINS VAN LINES	SHWS
QUE WEST TRANSPORT	SHWS
DONCO CARRIERS	SHWS
LYNN TRANSPORTATION	SHWS
INTERPOINT TRANSPORTATION MOBILE S	SHWS
NEVADA CO-GENERATION	SHWS
NELLIS AIR FORCE BASE	SHWS
INDIAN SPRINGS AIR FORCE BASE	SHWS
NELLIS AIR FORCE BASE	SHWS
NELLIS AIR FORCE BASE	SHWS
SOUTHERN CALIFORNIA EDISON COMPANY	SHWS
AMERICAN SAFETY INSTITUTE	SHWS
TRUCK SPILL	SHWS
NELLIS AIR FORCE BASE	SHWS
U.S. BUREAU OF LAND MANAGEMENT	SHWS
U.S. BUREAU OF LAND MANAGEMENT	SHWS
NELLIS AIR FORCE BASE	SHWS
FREHNER CONSTRUCTION	SHWS
TDI/SAHARA CENTER: PASTOR/FOXYS	SHWS
STUART RANCH , APN 006-00-001-001	SHWS
RINKER MATERIALS CORPORATION MOBIL	SHWS
LASCO BATHWARE	SHWS
UNION PACIFIC RAILROAD COMPANY	SHWS
PARDEE HOMES OF NEVADA , APN =009-	SHWS
GEORGIA-PACIFIC CORPORATION	SHWS
VALLEY OF FIRE STATE PARK	SHWS
MOAPA VALLEY JR/SR HIGH SCHOOL	SHWS
ECHO BAY RESORT	UST
SIMPLOT SILICA PRODUCTS	UST
PACIFIC COAST BUILDING PRODUCTS IN	MINES
PABCO BUILDING PRODUCTS, LLC.	MINES

OVERVIEW MAP - 03199391.2r



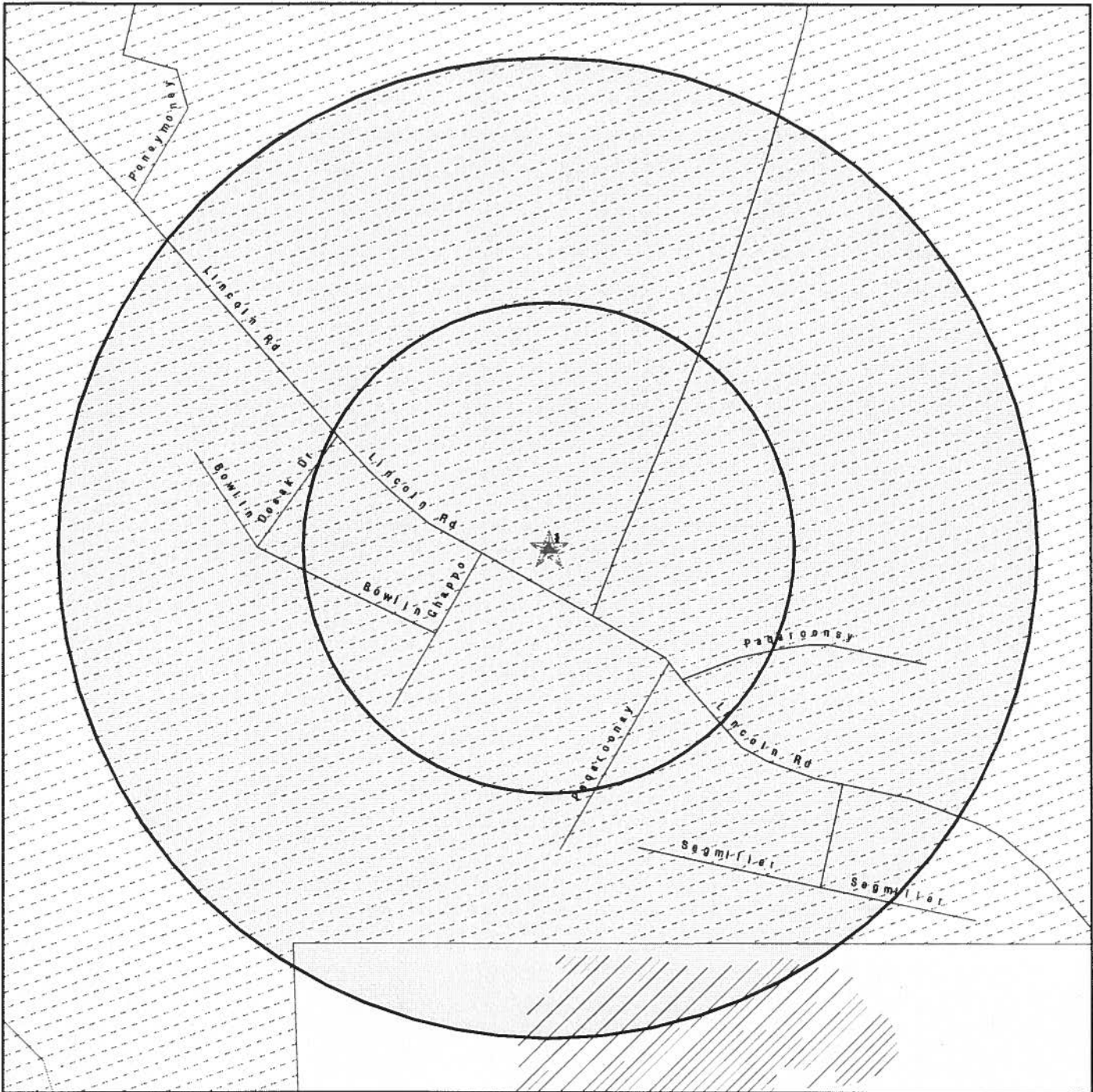
- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Moapa Reservation Administration Building  
 ADDRESS: 1 Lincoln Street  
 Moapa NV 89040  
 LAT/LONG: 36.6701 / 114.6533

CLIENT: Kleinfelder, Inc.  
 CONTACT: Phil Tousignant  
 INQUIRY #: 03199391.2r  
 DATE: November 01, 2011 7:27 pm

DETAIL MAP - 03199391.2r



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ♣ Sensitive Receptors
- ▨ National Priority List Sites
- ▩ Dept. Defense Sites

- ▨ Indian Reservations BIA
- ~ Oil & Gas pipelines from USGS
- ▨ 100-year flood zone
- ▨ 500-year flood zone



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 ADDRESS: 1 Lincoln Street  
 Moapa NV 89040  
 LAT/LONG: 36.6701 / 114.6533

CLIENT: Kleinfelder, Inc.  
 CONTACT: Phil Tousignant  
 INQUIRY #: 03199391.2r  
 DATE: November 01, 2011 7:27 pm

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL		1.000	0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS		0.500	0	0	0	NR	NR	0
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS		1.000	0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	0	0	NR	NR	NR	0
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS		TP	NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS		1.000	0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF		0.500	0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST		0.500	0	0	0	NR	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
UST		0.250	0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
<b><i>State and tribal voluntary cleanup sites</i></b>								
VCP		0.500	0	0	0	NR	NR	0
INDIAN VCP		0.500	0	0	0	NR	NR	0
<b><i>State and tribal Brownfields sites</i></b>								
BROWNFIELDS		0.500	0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
<b><i>Local Land Records</i></b>								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
<b><i>Records of Emergency Release Reports</i></b>								
HMIRS		TP	NR	NR	NR	NR	NR	0
<b><i>Other Ascertainable Records</i></b>								
RCRA-NonGen	X	0.250	0	0	NR	NR	NR	0
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
HMRI		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	1	0	0	0	NR	1
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
COAL ASH		0.500	0	0	0	NR	NR	0
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

Manufactured Gas Plants	1.000	0	0	0	0	NR	NR	0
EDR Historical Auto Stations	0.250	0	0	NR	NR	NR	NR	0
EDR Historical Cleaners	0.250	0	0	NR	NR	NR	NR	0

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

1  
Target  
Property

MOAPA BAND OF PAIUTES  
1 LINCOLN ST  
MOAPA, NV 89025

RCRA-NonGen  
FINDS 1001079574  
NVR000001198

Actual:  
1635 ft.

RCRA-NonGen:

Date form received by agency: 10/18/1995  
Facility name: MOAPA BAND OF PAIUTES  
Facility address: 1 LINCOLN ST  
MOAPA, NV 89025  
EPA ID: NVR000001198  
Mailing address: PO BOX 340  
MOAPA, NV 89025  
Contact: ROGER KNUDSON  
Contact address: PO BOX 340  
MOAPA, NV 89025  
Contact country: US  
Contact telephone: (702) 865-2787  
Contact email: Not reported  
EPA Region: 09  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: MOAPA BAND OF PAIUTES  
Owner/operator address: PO BOX 340  
MOAPA, NV 89025  
Owner/operator country: Not reported  
Owner/operator telephone: (702) 865-2787  
Legal status: Indian  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110004303021

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MOAPA BAND OF PAIUTES (Continued)**

**1001079574**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**IND RES**  
Region

**MOAPA RIVER INDIAN RESERVATION**

**INDIAN RESERV**

**CIND100335**

< 1/8  
1 ft.

**MOAPA RIVER INDIAN RESERV (County), NV**

**N/A**

**INDIAN RESERV:**

Feature: Indian Reservation  
Name: Moapa River Indian Reservation  
Agency: BIA  
State: NV

Count: 33 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CLARK COUNTY	S109521955	SIERRA RANCH COMPANY MOBILE SOURCE	INTERSTATE 15 (8.5 MILES N OF		SHWS
CLARK COUNTY	S109521797	BEKINS VAN LINES	INTERSTATE 15		SHWS
CLARK COUNTY	S109521918	QUE WEST TRANSPORT	INTERSTATE 15 @ MILE MARKER 02		SHWS
CLARK COUNTY	S109521820	DONCO CARRIERS	INTERSTATE 15 NEAR UTE EXIT		SHWS
CLARK COUNTY	S109521879	LYNN TRANSPORTATION	INTERSTATE 15 NEAR MILE MARKER		SHWS
CLARK COUNTY	S109521865	INTERPOINT TRANSPORTATION MOBILE S	INTERSTATE 15 @ EXIT 064		SHWS
CLARK COUNTY	S109521892	NEVADA CO-GENERATION	APEX SITE		SHWS
CLARK COUNTY	S110533601	NELLIS AIR FORCE BASE	AREA 2, TANK 10-322		SHWS
CLARK COUNTY	S109521864	INDIAN SPRINGS AIR FORCE BASE	BOX CANYON		SHWS
CLARK COUNTY	S110533602	NELLIS AIR FORCE BASE	BUILDING #415		SHWS
CLARK COUNTY	S110533603	NELLIS AIR FORCE BASE	CAMP COBRA - AREA 2		SHWS
CLARK COUNTY	S109944013	SOUTHERN CALIFORNIA EDISON COMPANY	EL DORADO SUBSTATION		SHWS
CLARK COUNTY	S109521793	AMERICAN SAFETY INSTITUTE	U.S. HIGHWAY 95 @ U.S. HIGHWAY		SHWS
CLARK COUNTY	S109521968	TRUCK SPILL	LAKE MEAD BOULEVARD NEAR GOLDA		SHWS
CLARK COUNTY	S110533600	NELLIS AIR FORCE BASE	60 MILES EAST OF TONOPAH		SHWS
CLARK COUNTY	S109521969	U.S. BUREAU OF LAND MANAGEMENT	NEXT TO NELLIS AIR FORCE BASE		SHWS
CLARK COUNTY	M300002848	PACIFIC COAST BUILDING PRODUCTS IN	PABCO GYPSUM LAS VEGAS MINE &		MINES
CLARK COUNTY	M300004606	PABCO BUILDING PRODUCTS, LLC.	PABCO PIT		MINES
CLARK COUNTY	S109944014	U.S. BUREAU OF LAND MANAGEMENT	PUBLIC LANDS		SHWS
CLARK COUNTY	S110533604	NELLIS AIR FORCE BASE	REVETMENT AREAS		SHWS
CLARK COUNTY	S109521846	FREHNER CONSTRUCTION	STATE ROUTE 376 @ MILE POST 8		SHWS
MOAPA	S103876981	UNION PACIFIC RAILROAD COMPANY	DOWNTOWN LAS VEGAS		SHWS, BROWNFIELDS
MOAPA	S104736126	TD/SAHARA CENTER, PASTOR/FOXYS	2423 S LAS VEGAS BLVD		SHWS
MOAPA	S109521964	STUART RANCH , APN 006-00-001-001	MEADOW VALLEY RD		SHWS
MOAPA	S109521944	RINKER MATERIALS CORPORATION MOBIL	MEADOW VALLEY RD		SHWS
MOAPA	S103877392	LASCO BATHWARE	201 MEADOW VALLEY RD		SHWS
MOAPA	S108437338	UNION PACIFIC RAILROAD COMPANY	MOAPA RAIL YARD		SHWS
MOAPA	S108250278	PARDEE HOMES OF NEVADA , APN =009-	USHY 93 & STHY 168		SHWS
MOAPA	S106870604	GEORGIA-PACIFIC CORPORATION			SHWS
OVERTON	U004161624	ECHO BAY RESORT	RT 167	89040	UST
OVERTON	U004161504	SIMPLOT SILICA PRODUCTS	MEADS HWY	89040	UST
OVERTON	U003379919	VALLEY OF FIRE STATE PARK	STHY 169	89040	SHWS
OVERTON	S106878321	MOAPA VALLEY JR/SR HIGH SCHOOL		89040	SHWS

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 06/30/2011	Source: EPA
Date Data Arrived at EDR: 07/12/2011	Telephone: N/A
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/12/2011
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/23/2012
	Data Release Frequency: Quarterly

#### NPL Site Boundaries

##### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 06/30/2011	Source: EPA
Date Data Arrived at EDR: 07/12/2011	Telephone: N/A
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/12/2011
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/23/2012
	Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

### **DELISTED NPL: National Priority List Deletions**

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.

Date of Government Version: 06/30/2011	Source: EPA
Date Data Arrived at EDR: 07/12/2011	Telephone: N/A
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/12/2011
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/23/2012
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

### **CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System**

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

### **FEDERAL FACILITY: Federal Facility Site Information listing**

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA's Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/14/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/23/2012
	Data Release Frequency: Varies

## ***Federal CERCLIS NFRAP site List***

### **CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned**

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. 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.

Date of Government Version: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

### **CORRACTS: Corrective Action Report**

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/09/2011  
Date Data Arrived at EDR: 03/15/2011  
Date Made Active in Reports: 06/14/2011  
Number of Days to Update: 91

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: Quarterly

### ***Federal RCRA non-CORRACTS TSD facilities list***

#### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/15/2011  
Date Data Arrived at EDR: 07/07/2011  
Date Made Active in Reports: 08/08/2011  
Number of Days to Update: 32

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 10/05/2011  
Next Scheduled EDR Contact: 01/16/2012  
Data Release Frequency: Quarterly

### ***Federal RCRA generators list***

#### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2011  
Date Data Arrived at EDR: 07/07/2011  
Date Made Active in Reports: 08/08/2011  
Number of Days to Update: 32

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 10/05/2011  
Next Scheduled EDR Contact: 01/16/2012  
Data Release Frequency: Quarterly

#### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/15/2011  
Date Data Arrived at EDR: 07/07/2011  
Date Made Active in Reports: 08/08/2011  
Number of Days to Update: 32

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 10/05/2011  
Next Scheduled EDR Contact: 01/16/2012  
Data Release Frequency: Quarterly

#### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2011  
Date Data Arrived at EDR: 07/07/2011  
Date Made Active in Reports: 08/08/2011  
Number of Days to Update: 32

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 10/05/2011  
Next Scheduled EDR Contact: 01/16/2012  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### *Federal institutional controls / engineering controls registries*

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2011	Telephone: 703-603-0695
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 81	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Varies

#### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2011	Telephone: 703-603-0695
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 81	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Varies

### *Federal ERNS list*

#### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 07/05/2011	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 07/05/2011	Telephone: 202-267-2180
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/04/2011
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/16/2012
	Data Release Frequency: Annually

### *State- and tribal - equivalent CERCLIS*

#### SHWS: Sites Database

A listing of correction action sites.

Date of Government Version: 07/27/2011	Source: Department of Conservation and Natural Resources
Date Data Arrived at EDR: 09/27/2011	Telephone: 775-687-5872
Date Made Active in Reports: 10/12/2011	Last EDR Contact: 09/27/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: Varies

### *State and tribal landfill and/or solid waste disposal site lists*

#### SWF/LF: Landfill List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/08/2010	Source: Department of Conservation and Natural Resources
Date Data Arrived at EDR: 09/09/2010	Telephone: 775-687-5872
Date Made Active in Reports: 10/29/2010	Last EDR Contact: 09/09/2011
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: Annually



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## State and tribal leaking storage tank lists

### LUST: Sites Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 07/27/2011	Source: Department of Conservation and Natural Resources
Date Data Arrived at EDR: 09/27/2011	Telephone: 775-687-5872
Date Made Active in Reports: 10/12/2011	Last EDR Contact: 09/27/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: Varies

### INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/11/2011	Source: EPA Region 4
Date Data Arrived at EDR: 08/12/2011	Telephone: 404-562-8677
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 02/13/2012
	Data Release Frequency: Semi-Annually

### INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/18/2011	Source: EPA Region 8
Date Data Arrived at EDR: 08/19/2011	Telephone: 303-312-6271
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 25	Next Scheduled EDR Contact: 02/13/2012
	Data Release Frequency: Quarterly

### INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/31/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/01/2011	Telephone: 415-972-3372
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 48	Next Scheduled EDR Contact: 02/13/2012
	Data Release Frequency: Quarterly

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/16/2011	Source: EPA Region 7
Date Data Arrived at EDR: 06/02/2011	Telephone: 913-551-7003
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 103	Next Scheduled EDR Contact: 02/13/2012
	Data Release Frequency: Varies

### INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/10/2011	Source: EPA Region 6
Date Data Arrived at EDR: 05/11/2011	Telephone: 214-665-6597
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/13/2012
	Data Release Frequency: Varies

### INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/05/2011  
Date Data Arrived at EDR: 08/02/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 42

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 11/01/2011  
Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Varies

**INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land**  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/04/2011  
Date Data Arrived at EDR: 08/05/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 39

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 10/31/2011  
Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Quarterly

### **State and tribal registered storage tank lists**

**UST: Underground Storage Tank List**

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 07/27/2011  
Date Data Arrived at EDR: 09/27/2011  
Date Made Active in Reports: 10/11/2011  
Number of Days to Update: 14

Source: Department of Conservation and Natural Resources  
Telephone: 775-687-5872  
Last EDR Contact: 09/27/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: Varies

**AST: Aboveground Storage Tank List**

Registered Aboveground Storage Tanks.

Date of Government Version: 01/10/2000  
Date Data Arrived at EDR: 01/11/2000  
Date Made Active in Reports: 02/16/2000  
Number of Days to Update: 36

Source: Department of Conservation and Natural Resources  
Telephone: 775-687-5872  
Last EDR Contact: 09/26/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: Varies

**INDIAN UST R10: Underground Storage Tanks on Indian Land**

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/04/2011  
Date Data Arrived at EDR: 08/05/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 39

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 10/31/2011  
Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Quarterly

**INDIAN UST R9: Underground Storage Tanks on Indian Land**

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/04/2011  
Date Data Arrived at EDR: 08/05/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 39

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 10/31/2011  
Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Quarterly

**INDIAN UST R6: Underground Storage Tanks on Indian Land**

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/10/2011  
Date Data Arrived at EDR: 05/11/2011  
Date Made Active in Reports: 06/14/2011  
Number of Days to Update: 34

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 10/31/2011  
Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Semi-Annually

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 05/05/2011  
Date Data Arrived at EDR: 08/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 36

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 10/31/2011  
Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Varies

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011  
Date Data Arrived at EDR: 08/19/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 25

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 10/31/2011  
Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Quarterly

### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2011  
Date Data Arrived at EDR: 06/01/2011  
Date Made Active in Reports: 06/14/2011  
Number of Days to Update: 13

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 10/31/2011  
Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Varies

### INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 07/01/2011  
Date Data Arrived at EDR: 08/26/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 18

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 10/31/2011  
Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Varies

### INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/11/2011  
Date Data Arrived at EDR: 08/12/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 32

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 10/31/2011  
Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Semi-Annually

### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2010  
Date Data Arrived at EDR: 02/16/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 55

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 10/17/2011  
Next Scheduled EDR Contact: 01/30/2012  
Data Release Frequency: Varies

### ***State and tribal voluntary cleanup sites***

#### **INDIAN VCP R7: Voluntary Cleanup Priority Listing**

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

#### **VCP: Voluntary Cleanup Program Sites**

The Voluntary Cleanup Program provides relief from liability to owners who undertake cleanups of contaminated properties under the oversight of the Nevada Division of Environmental Protection.

Date of Government Version: 08/16/2011  
Date Data Arrived at EDR: 09/27/2011  
Date Made Active in Reports: 10/12/2011  
Number of Days to Update: 15

Source: Department of Conservation & Natural Resources  
Telephone: 775-687-9381  
Last EDR Contact: 09/27/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: Varies

#### **INDIAN VCP R1: Voluntary Cleanup Priority Listing**

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 05/05/2011  
Date Data Arrived at EDR: 07/05/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 70

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 10/04/2011  
Next Scheduled EDR Contact: 01/16/2012  
Data Release Frequency: Varies

### ***State and tribal Brownfields sites***

#### **BROWNFIELDS: Project Tracking Database**

Brownfields sites included in the Project Tracking Database. The term "brownfields" is used to describe abandoned, idled, or underused industrial or commercial properties taken out of productive use because of real or perceived risks from environmental contamination. The State of Nevada has initiated Brownfields, a land-recycling program, to provide an opportunity to redevelop these undesirable properties and revitalize communities.

Date of Government Version: 07/27/2011  
Date Data Arrived at EDR: 09/27/2011  
Date Made Active in Reports: 10/12/2011  
Number of Days to Update: 15

Source: Division of Environmental Protection  
Telephone: 775-687-9384  
Last EDR Contact: 09/27/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: Varies

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities-especially those without EPA Brownfields Assessment Demonstration Pilots-minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/27/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/27/2011	Telephone: 202-566-2777
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 09/28/2011
Number of Days to Update: 78	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: Semi-Annually

### **Local Lists of Landfill / Solid Waste Disposal Sites**

#### **ODI: Open Dump Inventory**

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### **DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations**

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 09/26/2011
Number of Days to Update: 137	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: No Update Planned

#### **SWRCY: Recycling Information Listing**

A listing of recycling facilities in Nevada.

Date of Government Version: 08/01/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/01/2011	Telephone: 775-687-9463
Date Made Active in Reports: 10/31/2011	Last EDR Contact: 08/26/2011
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/05/2011
	Data Release Frequency: Varies

#### **INDIAN ODI: Report on the Status of Open Dumps on Indian Lands**

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 08/08/2011
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/21/2011
	Data Release Frequency: Varies

### **Local Lists of Hazardous waste / Contaminated Sites**

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains 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 Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/08/2011	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 09/16/2011	Telephone: 202-307-1000
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 09/07/2011
Number of Days to Update: 13	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: Quarterly

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains 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 Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/23/2009
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: No Update Planned

### Local Land Records

#### LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 09/09/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/16/2011	Telephone: 202-564-6023
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 13	Next Scheduled EDR Contact: 02/13/2012
	Data Release Frequency: Varies

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/11/2011
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/05/2011
	Data Release Frequency: Varies

### Records of Emergency Release Reports

#### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/05/2011	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/05/2011	Telephone: 202-366-4555
Date Made Active in Reports: 09/30/2011	Last EDR Contact: 10/04/2011
Number of Days to Update: 87	Next Scheduled EDR Contact: 01/16/2012
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Other Ascertainable Records

### RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/15/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/07/2011	Telephone: (415) 495-8895
Date Made Active in Reports: 08/08/2011	Last EDR Contact: 10/05/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/16/2012
	Data Release Frequency: Varies

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2011	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 02/11/2011	Telephone: 202-366-4595
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 08/09/2011
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/21/2011
	Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/20/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/30/2012
	Data Release Frequency: Semi-Annually

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 08/12/2010	Telephone: 202-528-4285
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 09/12/2011
Number of Days to Update: 112	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/01/2011	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 08/19/2011	Telephone: Varies
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/03/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/16/2012
	Data Release Frequency: Varies

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/31/2011	Source: EPA
Date Data Arrived at EDR: 09/14/2011	Telephone: 703-416-0223
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 09/14/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/21/2010	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 08/31/2011
Number of Days to Update: 99	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Varies

### MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/08/2011	Telephone: 303-231-5959
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 09/08/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: Semi-Annually

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/17/2010	Telephone: 202-566-0250
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 94	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Annually

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 09/29/2010	Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 09/27/2011
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: Every 4 Years

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/31/2011
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/31/2011
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 77	Next Scheduled EDR Contact: 02/13/2012
	Data Release Frequency: Annually

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/21/2011	Telephone: 202-564-5088
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 09/26/2011
Number of Days to Update: 59	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010	Source: EPA
Date Data Arrived at EDR: 11/10/2010	Telephone: 202-566-0500
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/19/2011
Number of Days to Update: 98	Next Scheduled EDR Contact: 01/30/2012
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/15/2011	Telephone: 301-415-7169
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Quarterly

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/13/2011	Telephone: 202-343-9775
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/13/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/23/2012
	Data Release Frequency: Quarterly

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010	Source: EPA
Date Data Arrived at EDR: 04/16/2010	Telephone: (415) 947-8000
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 09/13/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Quarterly

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009	Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011	Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Biennially

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### NPDES: Permitted Facility Listing

A listing of permitted wastewater facilities.

Date of Government Version: 04/05/2011  
Date Data Arrived at EDR: 05/24/2011  
Date Made Active in Reports: 06/07/2011  
Number of Days to Update: 14

Source: Department of Environmental Protection  
Telephone: 775-687-9414  
Last EDR Contact: 10/11/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: Varies

### AIRS: Permitted Airs Facility Listing

A listing of permitted air facilities and their associated emissions information.

Date of Government Version: 03/31/2011  
Date Data Arrived at EDR: 03/31/2011  
Date Made Active in Reports: 05/13/2011  
Number of Days to Update: 33

Source: Division of Environmental Protection  
Telephone: 775-687-9359  
Last EDR Contact: 09/26/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: Varies

### HMRI: Hazardous Materials Repository Information Data

Emergency Planning and Community Right-to-Know Act (EPCRA) required facilities which store or manufacture hazardous materials to prepare and submit a chemical inventory report by March 1st of each year to the State Emergency Response Commission (SERC), LEPC and the local fire department. The inventory form must include information on all hazardous chemicals present at the facility during the previous calendar year in amounts that meet or exceed thresholds.

Date of Government Version: 08/05/2008  
Date Data Arrived at EDR: 08/05/2008  
Date Made Active in Reports: 08/13/2008  
Number of Days to Update: 8

Source: State Emergency Response Commission  
Telephone: 775-687-6973  
Last EDR Contact: 08/22/2011  
Next Scheduled EDR Contact: 12/05/2011  
Data Release Frequency: Semi-Annually

### INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 10/20/2011  
Next Scheduled EDR Contact: 01/30/2012  
Data Release Frequency: Semi-Annually

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011  
Date Data Arrived at EDR: 03/09/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 10/24/2011  
Next Scheduled EDR Contact: 02/06/2012  
Data Release Frequency: Varies

### COAL ASH DOE: Steam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 10/18/2011  
Next Scheduled EDR Contact: 01/30/2012  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/20/2011
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/30/2012
	Data Release Frequency: N/A

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/03/2011	Telephone: N/A
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 09/16/2011
Number of Days to Update: 77	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Varies

### FINANCIAL ASSURANCE: Financial Assurance Information Listing

Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/28/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/29/2010	Telephone: 775-687-9465
Date Made Active in Reports: 02/02/2011	Last EDR Contact: 09/26/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2009	Telephone: 202-566-0517
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 10/19/2011
Number of Days to Update: 100	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: Varies

### COAL ASH: Coal Ash Disposal Sites

A listing of coal ash plants.

Date of Government Version: 03/16/2011	Source: Division of Environmental Protection
Date Data Arrived at EDR: 03/18/2011	Telephone: 775-687-9477
Date Made Active in Reports: 05/06/2011	Last EDR Contact: 09/06/2011
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: Varies

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

#### Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

### EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## COUNTY RECORDS

### WASHOE COUNTY:

#### Underground Storage Tank in Washoe County

A listing of underground storage tank sites located in Washoe County.

Date of Government Version: 09/28/2011  
Date Data Arrived at EDR: 10/05/2011  
Date Made Active in Reports: 10/12/2011  
Number of Days to Update: 7

Source: Washoe County Department of Environmental Health  
Telephone: 775-328-2493  
Last EDR Contact: 10/03/2011  
Next Scheduled EDR Contact: 01/16/2012  
Data Release Frequency: Quarterly

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007  
Date Data Arrived at EDR: 08/26/2009  
Date Made Active in Reports: 09/11/2009  
Number of Days to Update: 16

Source: Department of Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 10/28/2011  
Next Scheduled EDR Contact: 12/05/2011  
Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2011  
Date Data Arrived at EDR: 08/09/2011  
Date Made Active in Reports: 09/16/2011  
Number of Days to Update: 38

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 08/09/2011  
Next Scheduled EDR Contact: 11/21/2011  
Data Release Frequency: Annually

**Oil/Gas Pipelines:** This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

### Electric Power Transmission Line Data

Source: Rextag Strategies Corp.  
Telephone: (281) 769-2247  
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health  
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Child Care Facility List

Source: Department of Human Resources  
Telephone: 775-684-1100

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### STREET AND ADDRESS INFORMATION

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## GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

MOAPA RESERVATION ADMINISTRATION BUILDING  
1 LINCOLN STREET  
MOAPA, NV 89040

### TARGET PROPERTY COORDINATES

Latitude (North):	36.67010 - 36° 40' 12.4"
Longitude (West):	114.6533 - 114° 39' 11.9"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	709720.8
UTM Y (Meters):	4060640.0
Elevation:	1635 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	36114-F6 MOAPA WEST, NV
Most Recent Revision:	1983

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.





## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### **FEMA FLOOD ZONE**

Target Property County  
CLARK, NV

FEMA Flood Electronic Data  
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 32003C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

### **NATIONAL WETLAND INVENTORY**

NWI Quad at Target Property  
MOAPA WEST

NWI Electronic Data Coverage  
YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### *Site-Specific Hydrogeological Data\*:*

Search Radius: 1.25 miles  
Status: Not found

### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

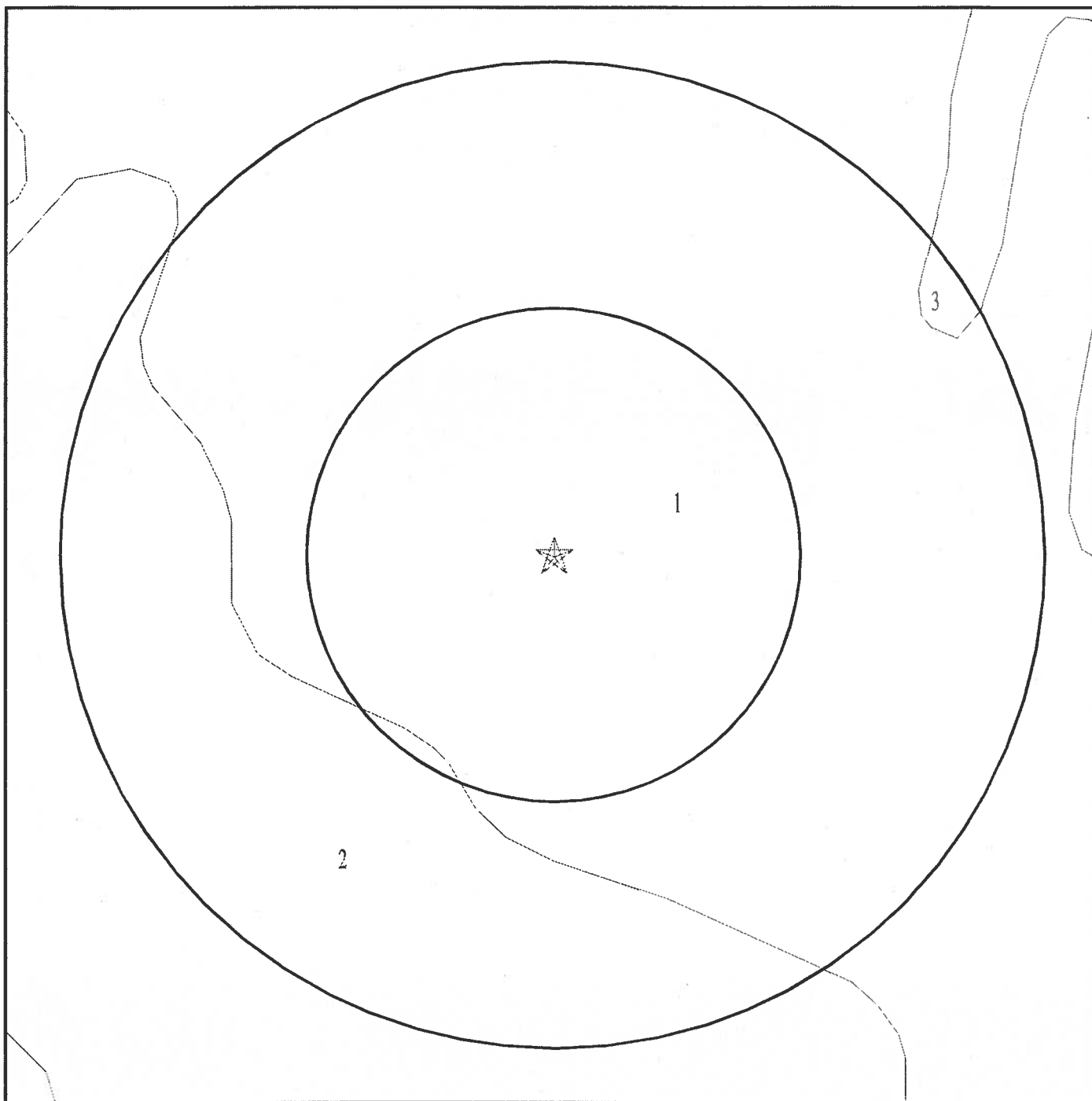
Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tpc ( <i>decoded above as Era, System &amp; Series</i> )

#### **GEOLOGIC AGE IDENTIFICATION**

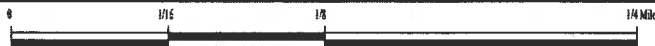
Category: Continental Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 03199391.2r



- \* Target Property
- SSURGO Soil
- Water



SITE NAME: Moapa Reservation Administration Building  
ADDRESS: 1 Lincoln Street  
Moapa NV 89040  
LAT/LONG: 36.6701 / 114.6533

CLIENT: Kleinfelder, Inc.  
CONTACT: Phil Tousignant  
INQUIRY #: 03199391.2r  
DATE: November 01, 2011 7:28 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

#### Soil Map ID: 1

Soil Component Name: Badland

Soil Surface Texture:  
Hydrologic Group: Not reported

Soil Drainage Class:  
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

---

#### Soil Map ID: 2

Soil Component Name: Overton

Soil Surface Texture: silty clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 107 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1 Min: 0	Max: 9 Min: 8.5
2	0 inches	7 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1 Min: 0	Max: 9 Min: 8.5
3	7 inches	25 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1 Min: 0	Max: 9 Min: 8.5
4	7 inches	25 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1 Min: 0	Max: 9 Min: 8.5
5	25 inches	59 inches	stratified loamy fine sand to silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1 Min: 0	Max: 9 Min: 8.5
6	25 inches	59 inches	stratified loamy fine sand to silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1 Min: 0	Max: 9 Min: 8.5

**Soil Map ID: 3**

Soil Component Name: Bard

Soil Surface Texture: gravelly fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: 0 Min: 0	Max: Min:
2	0 inches	5 inches	gravelly fine sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: 0 Min: 0	Max: Min:
3	5 inches	18 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: 0 Min: 0	Max: Min:
4	5 inches	18 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: 0 Min: 0	Max: Min:
5	18 inches	22 inches	indurated	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: 0 Min: 0	Max: Min:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
6	18 inches	22 inches	indurated	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: 0 Min: 0	Max: Min:

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
9	USGS3088447	1/2 - 1 Mile NNW
18	USGS3088446	1/2 - 1 Mile NW

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	NV4000000043442	1/2 - 1 Mile South
A2	NV4000000043443	1/2 - 1 Mile South
A3	NV4000000043444	1/2 - 1 Mile South
4	NV4000000043441	1/2 - 1 Mile SSW
B5	NV4000000043422	1/2 - 1 Mile South
B6	NV4000000043421	1/2 - 1 Mile South
B7	NV4000000043424	1/2 - 1 Mile South
B8	NV4000000043423	1/2 - 1 Mile South
C10	NV4000000043333	1/2 - 1 Mile SSE
C11	NV4000000043332	1/2 - 1 Mile SSE
C12	NV4000000043334	1/2 - 1 Mile SSE
C13	NV4000000043336	1/2 - 1 Mile SSE
C14	NV4000000043335	1/2 - 1 Mile SSE
D15	NV4000000043445	1/2 - 1 Mile SE
D16	NV4000000043446	1/2 - 1 Mile SE
D17	NV4000000043447	1/2 - 1 Mile SE
E19	NV4000000043342	1/2 - 1 Mile SSE
E20	NV4000000043343	1/2 - 1 Mile SSE
E21	NV4000000043344	1/2 - 1 Mile SSE
E22	NV4000000043341	1/2 - 1 Mile SSE
E23	NV4000000043338	1/2 - 1 Mile SSE
E24	NV4000000043337	1/2 - 1 Mile SSE
E25	NV4000000043340	1/2 - 1 Mile SSE
E26	NV4000000043339	1/2 - 1 Mile SSE

**PHYSICAL SETTING SOURCE MAP - 03199391.2r**



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data



**SITE NAME:** Moapa Reservation Administration Building  
**ADDRESS:** 1 Lincoln Street  
 Moapa NV 89040  
**LAT/LONG:** 36.6701 / 114.6533

**CLIENT:** Kleinfelder, Inc.  
**CONTACT:** Phil Tousignant  
**INQUIRY #:** 03199391.2r  
**DATE:** November 01, 2011 7:28 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**A1**  
 South  
 1/2 - 1 Mile  
 Lower

**NV WELLS      NV4000000043442**

Well log:	71206	App:	Not Reported
Notice of :	17135	Waiver no:	Not Reported
Date log r:	05/13/1998	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal rng:	66E
Sec:	06	Sec quarte:	BD
Legal quar:	SE NW	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	T		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	REID GARDNER FACILITY		
Owner no:	KMW-25		
Parcel no:	690-250-031	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	04/21/1998	Date cmplt:	D
Gravel pac:	Y	Depth seal:	4
Depth dril:	25	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	25
Csng diame:	2		
Csng reduc:	0	Top perf:	5
Bottom per:	25	Perf inter:	1
Static wl:	3		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	34699		
Contract 1:	SPECTRUM EXPLORATION INC		
Contract 2:	5015 SHOREHAM PL SAN DIEGO CA 92122		
Contract 3:	0		
Driller li:	2059	Source age:	NV003
User id:	KCOON	Date entry:	05/20/1998
Update use:	Not Reported	Date updat:	06/16/2004
Edit statu:	F	Well start:	04/17/1998
Gravel p 1:	4	Gravel p 2:	25
Utm x:	709717.359334		
Utm y:	4059641.92479		
Site id:	NV4000000043442		

**A2**  
 South  
 1/2 - 1 Mile  
 Lower

**NV WELLS      NV4000000043443**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well log:	71207	App:	Not Reported
Notice of :	17135	Waiver no:	Not Reported
Date log r:	05/13/1998	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal tw:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	BD
Legal quar:	SE NW	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	T		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	REID GARDNER FACILITY		
Owner no:	KMW-02M		
Parcel no:	690-250-031	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	04/21/1998	Date cmplt:	D
Gravel pac:	Y	Depth seal:	38
Depth dril:	50	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	50
Csng diame:	2		
Csng reduc:	0	Top perf:	40
Bottom per:	50	Perf inter:	1
Static wl:	3		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	34699		
Contract 1:	SPECTRUM EXPLORATION INC		
Contract 2:	5015 SHOREHAM PL SAN DIEGO CA 92122		
Contract 3:	0		
Driller li:	2059	Source age:	NV003
User id:	KCOON	Date entry:	05/20/1998
Update use:	user15	Date updat:	06/03/1998
Edit statu:	F	Well start:	04/17/1998
Gravel p 1:	38	Gravel p 2:	50
Utm x:	709717.359334		
Utm y:	4059641.92479		
Site id:	NV4000000043443		

**A3**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**NV WELLS      NV4000000043444**

Well log:	71208	App:	Not Reported
Notice of :	17135	Waiver no:	Not Reported
Date log r:	05/13/1998	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal tw:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	BD

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Legal quar:	SE NW	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	T		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	REID GARDNER FACILITY		
Owner no:	KMW-02D		
Parcel no:	690-250-031	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	04/21/1998	Date cmplt:	D
Gravel pac:	Y	Depth seal:	62
Depth dril:	74	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	74
Csng diame:	2		
Csng reduc:	0	Top perf:	64
Bottom per:	74	Perf inter:	1
Static wl:	3		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	34699		
Contract 1:	SPECTRUM EXPLORATION INC		
Contract 2:	5015 SHOREHAM PL SAN DIEGO CA 92122		
Contract 3:	0		
Driller li:	2059	Source age:	NV003
User id:	KCOON	Date entry:	05/20/1998
Update use:	user15	Date updat:	06/03/1998
Edit statu:	F	Well start:	04/17/1998
Gravel p 1:	62	Gravel p 2:	74
Utm x:	709717.359334		
Utm y:	4059641.92479		
Site id:	NV4000000043444		

4

SSW

1/2 - 1 Mile

Lower

NV WELLS

NV4000000043441

Well log:	91688	App:	Not Reported
Notice of :	24917	Waiver no:	Not Reported
Date log r:	12/22/2003	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	BC
Legal quar:	SW NW	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	501 WALLY KAY WY		
Owner no:	Not Reported		
Parcel no:	042-06-301-001	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	12/08/2003	Date cmplt:	D
Gravel pac:	Y	Depth seal:	5
Depth dril:	25	Depth bedr:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer de:	Not Reported	Depth case:	25
Csng diame:	4		
Csng reduc:	0	Top perf:	5
Bottom per:	25	Perf inter:	1
Static wl:	15		
Temperatur:	93		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	54931		
Contract 1:	ELITE DRILLING INC		
Contract 2:	5115 S INDUSTRIAL RD #104 LAS VEGAS NV 89118		
Contract 3:	0		
Driller li:	1869	Source age:	NV003
User id:	DBRANTLEY	Date entry:	01/13/2004
Update use:	Not Reported	Date updat:	06/16/2004
Edit statu:	F	Well start:	12/08/2003
Gravel p 1:	5	Gravel p 2:	25
Utm x:	709295.224816		
Utm y:	4059631.60743		
Site id:	NV4000000043441		

**B5**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**NV WELLS      NV4000000043422**

Well log:	1461	App:	Not Reported
Notice of :	0	Waiver no:	Not Reported
Date log r:	10/26/1950	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	I	Drilling m:	C
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	Not Reported
Legal quar:	Not Reported	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	SEARLES, KENNETH		
Owner addr:	2020 W BONANZA RD LAS VEGAS NV		
Owner no:	WELL 02		
Parcel no:	Not Reported	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	09/26/1950	Date cmplt:	D
Gravel pac:	Y	Depth seal:	0
Depth dril:	100	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	100
Csng diame:	20		
Csng reduc:	1	Top perf:	0
Bottom per:	100	Perf inter:	1
Static wl:	1		
Temperatur:	0		
Yield:	400		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	2065		
Contract 1:	S R MCKINNEY & SONS INC		
Contract 2:	1042 S MAIN ST LAS VEGAS NV		
Contract 3:	0		
Driller li:	45	Source age:	NV003
User id:	KCOON	Date entry:	05/02/1997
Update use:	Not Reported	Date updat:	10/19/1998
Edit statu:	F	Well start:	09/19/1950
Gravel p 1:	12	Gravel p 2:	20
Utm x:	709945.37136		
Utm y:	4059462.47666		
Site id:	NV4000000043422		

**B6**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**NV WELLS      NV4000000043421**

Well log:	1460	App:	Not Reported
Notice of :	0	Waiver no:	Not Reported
Date log r:	10/26/1950	Date log 1:	D
Site type:	E	Work type:	P
Work type :	Not Reported		
Proposed u:	U	Drilling m:	C
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal rng:	66E
Sec:	06	Sec quarte:	Not Reported
Legal quar:	Not Reported	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	SEARLES, KENNETH		
Owner addr:	2020 W BONANZA RD LAS VEGAS NV		
Owner no:	WELL 01		
Parcel no:	Not Reported	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	09/16/1950	Date cmpit:	D
Gravel pac:	Not Reported	Depth seal:	0
Depth dril:	50	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	32
Csng diame:	20		
Csng reduc:	0	Top perf:	0
Bottom per:	32	Perf inter:	1
Static wi:	0		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	2065		
Contract 1:	S R MCKINNEY & SONS INC		
Contract 2:	1042 S MAIN ST LAS VEGAS NV		
Contract 3:	0		
Driller li:	45	Source age:	NV003
User id:	KCOON	Date entry:	05/02/1997
Update use:	dsvdavis	Date updat:	10/19/1998
Edit statu:	F	Well start:	09/14/1950
Gravel p 1:	0	Gravel p 2:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Utm x: 709945.37136  
 Utm y: 4059462.47666  
 Site id: NV4000000043421

**B7**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**NV WELLS      NV4000000043424**

Well log:	1463	App:	Not Reported
Notice of :	0	Waiver no:	Not Reported
Date log r:	10/26/1950	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	I	Drilling m:	C
Sc:	32003	Ha:	218
Twn:	S15	Legal tw n:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	Not Reported
Legal quar:	Not Reported	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	SEARLES, KENNETH		
Owner addr:	2020 W BONANZA RD LAS VEGAS NV		
Owner no:	Not Reported		
Parcel no:	Not Reported	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	10/06/1950	Date cmplt:	D
Gravel pac:	Not Reported	Depth seal:	0
Depth dril:	75	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	68
Csng diame:	12		
Csng reduc:	0	Top perf:	0
Bottom per:	68	Perf inter:	1
Static wl:	2		
Temperatur:	0		
Yield:	350		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	2065		
Contract 1:	S R MCKINNEY & SONS INC		
Contract 2:	1042 S MAIN ST LAS VEGAS NV		
Contract 3:	0		
Driller li:	45	Source age:	NV003
User id:	KCOON	Date entry:	05/02/1997
Update use:	Not Reported	Date updat:	10/19/1998
Edit statu:	F	Well start:	10/03/1950
Gravel p 1:	0	Gravel p 2:	0
Utm x:	709945.37136		
Utm y:	4059462.47666		
Site id:	NV4000000043424		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**B8**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**NV WELLS      NV4000000043423**

Well log:	1462	App:	Not Reported
Notice of :	0	Waiver no:	Not Reported
Date log r:	10/26/1950	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	H	Drilling m:	C
Sc:	32003	Ha:	218
Twn:	S15	Legal tw:	15S
Rng:	E66	Legal rng:	66E
Sec:	06	Sec quarte:	Not Reported
Legal quar:	Not Reported	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	SEARLES, KENNETH		
Owner addr:	2020 W BONANZA RD LAS VEGAS NV		
Owner no:	Not Reported		
Parcel no:	Not Reported	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	09/29/1950	Date cmplt:	D
Gravel pac:	Not Reported	Depth seal:	0
Depth dril:	61	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	61
Csng diame:	8		
Csng reduc:	0	Top perf:	30
Bottom per:	61	Perf inter:	1
Static wl:	7		
Temperatur:	0		
Yield:	40		
Drawdown:	0		
Hours pump:	0		
Test metho:	B	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	2065		
Contract 1:	S R MCKINNEY & SONS INC		
Contract 2:	1042 S MAIN ST LAS VEGAS NV		
Contract 3:	0		
Driller li:	45	Source age:	NV003
User id:	KCOON	Date entry:	05/02/1997
Update use:	Not Reported	Date updat:	10/19/1998
Edit statu:	F	Well start:	09/28/1950
Gravel p 1:	0	Gravel p 2:	0
Utm x:	709945.37136		
Utm y:	4059462.47666		
Site id:	NV4000000043423		

9  
 NNW  
 1/2 - 1 Mile  
 Higher

FED USGS      USGS308847

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	364047114393101
Site name:	218 S14 E65 36BA 1	EDR Site id:	USGS3088447
Latitude:	364047	Dec lat:	36.67969338
Longitude:	1143931	Coor meth:	M
Dec lon:	-114.6594364	Latlong datum:	NAD27
Coor accr:	T	District:	32
Dec latlong datum:	NAD83	County:	003
State:	32	Land net:	NENWS36 T14S R65E M
Country:	US	Map scale:	24000
Location map:	MOAPA WEST, NV		
Altitude:	1640.		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Muddy, Nevada. Area = 1750 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19760328
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	139.	Hole depth:	139.
Source of depth data:	Not Reported		
Project number:	NV-79-081		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1976-03-28	Ground water data end date:	1976-03-28
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1976-03-28	12	

**C10**  
**SSE**  
1/2 - 1 Mile  
Lower

**NV WELLS      NV4000000043333**

Well log:	73953	App:	Not Reported
Notice of :	17345	Waiver no:	MO-2765
Date log r:	02/22/1999	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal tw:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	DB

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Legal quar:	NW SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	T		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	REID GARDNER FACILITY		
Owner no:	KMW-15		
Parcel no:	690-250-032	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	02/04/1999	Date cmplt:	D
Gravel pac:	Y	Depth seal:	7
Depth dril:	24	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	24
Csng diame:	2		
Csng reduc:	0	Top perf:	9
Bottom per:	24	Perf inter:	1
Static wl:	12.87		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	34699		
Contract 1:	SPECTRUM EXPLORATION INC		
Contract 2:	5015 SHOREHAM PL SAN DIEGO CA 92122		
Contract 3:	0		
Driller li:	2059	Source age:	NV003
User id:	DBRANTLEY	Date entry:	03/08/1999
Update use:	Not Reported	Date updat:	04/01/2002
Edit statu:	F	Well start:	02/04/1999
Gravel p 1:	7	Gravel p 2:	24
Utm x:	710174.148551		
Utm y:	4059252.21442		
Site id:	NV4000000043333		

**C11**  
**SSE**  
 1/2 - 1 Mile  
 Lower

**NV WELLS    NV4000000043332**

Well log:	70940	App:	Not Reported
Notice of :	17139	Waiver no:	Not Reported
Date log r:	04/01/1998	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal twn:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	DB
Legal quar:	NW SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	T		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	REID GARDNER FACILITY		
Owner no:	KMW-10		
Parcel no:	690-250-032	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	03/18/1998	Date cmplt:	D
Gravel pac:	Y	Depth seal:	43
Depth dril:	55	Depth bedr:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer de:	Not Reported	Depth case:	55
Csng diame:	2	Top perf:	45
Csng reduc:	0	Perf inter:	1
Bottom per:	55		
Static wl:	21.28		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	34699		
Contract 1:	SPECTRUM EXPLORATION INC		
Contract 2:	5015 SHOREHAM PL SAN DIEGO CA 92122		
Contract 3:	0		
Driller li:	2059	Source age:	NV003
User id:	DBRANTLEY	Date entry:	04/29/1998
Update use:	Not Reported	Date updat:	04/01/2002
Edit statu:	F	Well start:	03/16/1998
Gravel p 1:	43	Gravel p 2:	55
Utm x:	710174.148551		
Utm y:	4059252.21442		
Site id:	NV4000000043332		

**C12**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**NV WELLS      NV4000000043334**

Well log:	73954	App:	Not Reported
Notice of :	17345	Waiver no:	MO-2765
Date log r:	02/22/1999	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal tw:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	DB
Legal quar:	NW SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	T		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	REID GARDNER FACILITY		
Owner no:	KMW-14		
Parcel no:	690-250-032	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	02/04/1999	Date cmplt:	D
Gravel pac:	Y	Depth seal:	3
Depth dril:	21	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	21
Csng diame:	2		
Csng reduc:	0	Top perf:	5
Bottom per:	20	Perf inter:	1
Static wl:	4.85		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	34699		
Contract 1:	SPECTRUM EXPLORATION INC		
Contract 2:	5015 SHOREHAM PL SAN DIEGO CA 92122		
Contract 3:	0		
Driller li:	2059	Source age:	NV003
User id:	DBRANTLEY	Date entry:	03/08/1999
Update use:	dsdavis	Date updat:	04/22/1999
Edit statu:	F	Well start:	02/04/1999
Gravel p 1:	3	Gravel p 2:	21
Utm x:	710174.148551		
Utm y:	4059252.21442		
Site id:	NV4000000043334		

**C13**  
**SSE**  
 1/2 - 1 Mile  
 Lower

**NV WELLS      NV4000000043336**

Well log:	91605	App:	Not Reported
Notice of :	24916	Waiver no:	Not Reported
Date log r:	12/22/2003	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	DB
Legal quar:	NW SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	501 WALLY KAY WY MOAPA NV 89025		
Owner no:	Not Reported		
Parcel no:	042-06-701-001	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	12/08/2003	Date cmplt:	D
Gravel pac:	Y	Depth seal:	5
Depth dril:	35	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	35
Csng diame:	4		
Csng reduc:	0	Top perf:	10
Bottom per:	35	Perf inter:	1
Static wl:	15		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	54931		
Contract 1:	ELITE DRILLING INC		
Contract 2:	5115 S INDUSTRIAL RD #104 LAS VEGAS NV 89118		
Contract 3:	0		
Driller li:	1869	Source age:	NV003
User id:	DBRANTLEY	Date entry:	01/09/2004
Update use:	DBRANTLEY	Date updat:	03/05/2004
Edit statu:	F	Well start:	12/08/2003
Gravel p 1:	5	Gravel p 2:	35

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Utm x: 710174.148551  
 Utm y: 4059252.21442  
 Site id: NV4000000043336

**C14**  
**SSE**  
 1/2 - 1 Mile  
 Lower

**NV WELLS    NV4000000043335**

Well log:	91604	App:	Not Reported
Notice of :	24916	Waiver no:	Not Reported
Date log r:	12/22/2003	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	DB
Legal quar:	NW SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	501 WALLY KAY WY MOAPA NV 89025		
Owner no:	Not Reported		
Parcel no:	042-06-701-001	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	12/08/2003	Date cmplt:	D
Gravel pac:	Y	Depth seal:	5
Depth dril:	25	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	25
Csng diame:	4		
Csng reduc:	0	Top perf:	5
Bottom per:	25	Perf inter:	1
Static wl:	18		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	54931		
Contract 1:	ELITE DRILLING INC		
Contract 2:	5115 S INDUSTRIAL RD #104 LAS VEGAS NV 89118		
Contract 3:	0		
Driller li:	1869	Source age:	NV003
User id:	DBRANTLEY	Date entry:	01/09/2004
Update use:	DBRANTLEY	Date updat:	03/05/2004
Edit statu:	F	Well start:	12/08/2003
Gravel p 1:	5	Gravel p 2:	25
Utm x:	710174.148551		
Utm y:	4059252.21442		
Site id:	NV4000000043335		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

D15  
SE  
1/2 - 1 Mile  
Lower

Database      EDR ID Number

NV WELLS      NV4000000043445

Well log:	95884	App:	Not Reported
Notice of :	26908	Waiver no:	Not Reported
Date log r:	04/13/2005	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal tw:	15S
Rng:	E66	Legal mg:	66E
Sec:	05	Sec quarte:	BC
Legal quar:	SW NW	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	Not Reported
Lat long a:	M		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	501 WALLY KAY WY		
Owner no:	Not Reported		
Parcel no:	042-05-201-002	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	02/09/2005	Date cmpit:	D
Gravel pac:	Y	Depth seal:	8
Depth dril:	35	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	35
Csng diame:	4		
Csng reduc:	0	Top perf:	10
Bottom per:	35	Perf inter:	1
Static wl:	25		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	54931		
Contract 1:	ELITE DRILLING INC		
Contract 2:	5115 S INDUSTRIAL RD #104 LAS VEGAS NV 89118		
Contract 3:	0		
Driller li:	1869	Source age:	NV003
User id:	DBRANTLEY	Date entry:	04/13/2005
Update use:	Not Reported	Date updat:	06/03/1998
Edit statu:	F	Well start:	02/09/2005
Gravel p 1:	8	Gravel p 2:	35
Utm x:	710983.765363		
Utm y:	4059673.00178		
Site id:	NV4000000043445		

D16  
SE  
1/2 - 1 Mile  
Lower

NV WELLS      NV4000000043446

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well log:	95885	App:	Not Reported
Notice of :	26908	Waiver no:	Not Reported
Date log r:	04/13/2005	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal mg:	66E
Sec:	05	Sec quarte:	BC
Legal quar:	SW NW	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	Not Reported
Lat long a:	M		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	501 WALLY KAY WY		
Owner no:	Not Reported		
Parcel no:	042-05-201-002	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	02/09/2005	Date cmplt:	D
Gravel pac:	Y	Depth seal:	8
Depth dril:	35	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	35
Csng diame:	4		
Csng reduc:	0	Top perf:	10
Bottom per:	35	Perf inter:	1
Static wl:	25		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	54931		
Contract 1:	ELITE DRILLING INC		
Contract 2:	5115 S INDUSTRIAL RD #104 LAS VEGAS NV 89118		
Contract 3:	0		
Driller li:	1869	Source age:	NV003
User id:	DBRANTLEY	Date entry:	04/13/2005
Update use:	Not Reported	Date updat:	06/03/1998
Edit statu:	F	Well start:	02/09/2005
Gravel p 1:	8	Gravel p 2:	35
Utm x:	710983.765363		
Utm y:	4059673.00178		
Site id:	NV4000000043446		

**D17**  
**SE**  
 1/2 - 1 Mile  
 Lower

**NV WELLS      NV4000000043447**

Well log:	95886	App:	Not Reported
Notice of :	26908	Waiver no:	Not Reported
Date log r:	04/13/2005	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal mg:	66E
Sec:	05	Sec quarte:	BC



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Legal quar:	SW NW	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	Not Reported
Lat long a:	M		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	501 WALLY KAY WY		
Owner no:	Not Reported		
Parcel no:	042-05-201-002	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	02/09/2005	Date cmplt:	D
Gravel pac:	Y	Depth seal:	8
Depth dril:	35	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	35
Csng diame:	4		
Csng reduc:	0	Top perf:	10
Bottom per:	35	Perf inter:	1
Static wl:	25		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	54931		
Contract 1:	ELITE DRILLING INC		
Contract 2:	5115 S INDUSTRIAL RD #104 LAS VEGAS NV 89118		
Contract 3:	0		
Driller li:	1869	Source age:	NV003
User id:	DBRANTLEY	Date entry:	04/13/2005
Update use:	Not Reported	Date updat:	06/03/1998
Edit statu:	F	Well start:	02/09/2005
Gravel p 1:	8	Gravel p 2:	35
Utm x:	710983.765363		
Utm y:	4059673.00178		
Site id:	NV4000000043447		

**18  
NW  
1/2 - 1 Mile  
Higher**

**FED USGS    USGS3088446**

Agency cd:	USGS	Site no:	364044114395801
Site name:	218 S14 E65 36BADA1	EDR Site id:	USGS3088446
Latitude:	364044	Dec lat:	36.67885996
Longitude:	1143958	Coor meth:	M
Dec lon:	-114.66693681	Latlong datum:	NAD27
Coor accr:	S	District:	32
Dec latlong datum:	NAD83	County:	003
State:	32	Land net:	SENEWWS36 T14S R65E M
Country:	US	Map scale:	24000
Location map:	MOAPA WEST, NV		
Altitude:	1637.		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	2		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Muddy, Nevada. Area = 1750 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19741124
Date inventoried:	Not Reported	Mean greenwich time offset:	PST



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Qual lith :	G	Source age:	NV003
Remarks ad:	Not Reported	Date entry:	11/01/2004
Contractor:	12852	Date updat:	01/05/2005
Contract 1:	WATER DEVELOPMENT CORP (THE)	Well start:	10/01/2004
Contract 2:	1202 E KENTUCKY AVE WOODLAND CA 95776	Gravel p 2:	46
Contract 3:	0		
Driller li:	2182		
User id:	DBRANTLEY		
Update use:	DBRANTLEY		
Edit statu:	F		
Gravel p 1:	14		
Utm x:	710596.303677		
Utm y:	4059262.57425		
Site id:	NV4000000043342		

**E20**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**NV WELLS      NV4000000043343**

Well log:	94278	App:	Not Reported
Notice of :	27110	Waiver no:	Not Reported
Date log r:	10/11/2004	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	A
Sc:	32003	Ha:	218
Twn:	S15	Legal tw:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	DA
Legal quar:	NE SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	BENSON, SARGENT N		
Owner addr:	501 WALLY KAY WY		
Owner no:	CMW-01		
Parcel no:	042-06-701-001	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	10/08/2004	Date cmplt:	D
Gravel pac:	Y	Depth seal:	5
Depth dril:	35	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	35
Csng diame:	2.5		
Csng reduc:	0	Top perf:	5
Bottom per:	35	Perf inter:	2
Static wl:	7		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	12852		
Contract 1:	WATER DEVELOPMENT CORP (THE)		
Contract 2:	1202 E KENTUCKY AVE WOODLAND CA 95776		
Contract 3:	0		
Driller li:	2182	Source age:	NV003
User id:	DBRANTLEY	Date entry:	11/01/2004
Update use:	DBRANTLEY	Date updat:	01/05/2005
Edit statu:	F	Well start:	10/07/2004
Gravel p 1:	5	Gravel p 2:	35

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Utm x: 710596.303677  
 Utm y: 4059262.57425  
 Site id: NV4000000043343

**E21**  
**SSE**  
 1/2 - 1 Mile  
 Lower

**NV WELLS      NV4000000043344**

Well log:	94279	App:	Not Reported
Notice of :	27110	Waiver no:	Not Reported
Date log r:	10/11/2004	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	A
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	DA
Legal quar:	NE SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	BENSON, SARGENT N		
Owner addr:	501 WALLY KAY WY		
Owner no:	CMW-07		
Parcel no:	042-06-701-001	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	10/09/2004	Date cmplt:	D
Gravel pac:	Y	Depth seal:	10
Depth dril:	35	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	35
Csng diame:	2.5		
Csng reduc:	0	Top perf:	10
Bottom per:	35	Perf inter:	2
Static wl:	10		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	12852		
Contract 1:	WATER DEVELOPMENT CORP (THE)		
Contract 2:	1202 E KENTUCKY AVE WOODLAND CA 95776		
Contract 3:	0		
Driller li:	2182	Source age:	NV003
User id:	DBRANTLEY	Date entry:	11/01/2004
Update use:	DBRANTLEY	Date updat:	01/05/2005
Edit statu:	F	Well start:	10/08/2004
Gravel p 1:	9	Gravel p 2:	35
Utm x:	710596.303677		
Utm y:	4059262.57425		
Site id:	NV4000000043344		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

**E22**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

Database      EDR ID Number

**NV WELLS      NV4000000043341**

Well log:	94276	App:	Not Reported
Notice of :	27110	Waiver no:	Not Reported
Date log r:	10/11/2004	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	A
Sc:	32003	Ha:	218
Twn:	S15	Legal tw:	15S
Rng:	E66	Legal mng:	66E
Sec:	06	Sec quarte:	DA
Legal quar:	NE SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	BENSON, SARGENT N		
Owner addr:	501 WALLY KAY WY		
Owner no:	CMW-04		
Parcel no:	042-06-701-001	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	10/05/2004	Date cmplt:	D
Gravel pac:	Y	Depth seal:	9
Depth dril:	30	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	30
Csng diame:	2.5		
Csng reduc:	0	Top perf:	10
Bottom per:	30	Perf inter:	2
Static wl:	10		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	12852		
Contract 1:	WATER DEVELOPMENT CORP (THE)		
Contract 2:	1202 E KENTUCKY AVE WOODLAND CA 95776		
Contract 3:	0		
Driller li:	2182	Source age:	NV003
User id:	DBRANTLEY	Date entry:	11/01/2004
Update use:	DBRANTLEY	Date updat:	01/05/2005
Edit statu:	F	Well start:	10/04/2004
Gravel p 1:	9	Gravel p 2:	30
Utm x:	710596.303677		
Utm y:	4059262.57425		
Site id:	NV4000000043341		

**E23**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**NV WELLS      NV4000000043338**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well log:	94206	App:	Not Reported
Notice of :	27110	Waiver no:	Not Reported
Date log r:	10/12/2004	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	A
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal rng:	66E
Sec:	06	Sec quarte:	DA
Legal quar:	NE SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	INTERIOR OF POND 4A		
Owner no:	CMW-03		
Parcel no:	042-06-701-001	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	09/30/2004	Date cmplt:	D
Gravel pac:	Y	Depth seal:	16
Depth dril:	46	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	46
Csng diame:	2.5		
Csng reduc:	0	Top perf:	17
Bottom per:	45	Perf inter:	2
Static wl:	14		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	12852		
Contract 1:	WATER DEVELOPMENT CORP (THE)		
Contract 2:	1202 E KENTUCKY AVE WOODLAND CA 95776		
Contract 3:	0		
Driller li:	2182	Source age:	NV003
User id:	DBRANTLEY	Date entry:	10/27/2004
Update use:	DBRANTLEY	Date updat:	01/04/2005
Edit statu:	F	Well start:	09/28/2004
Gravel p 1:	16	Gravel p 2:	46
Utm x:	710596.303677		
Utm y:	4059262.57425		
Site id:	NV400000043338		

**E24**  
**SSE**  
 1/2 - 1 Mile  
 Lower

NV WELLS      NV400000043337

Well log:	91689	App:	Not Reported
Notice of :	24918	Waiver no:	Not Reported
Date log r:	12/22/2003	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	B
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal rng:	66E
Sec:	06	Sec quarte:	DA

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Legal quar:	NE SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	NEVADA POWER COMPANY		
Owner addr:	501 WALLY KAY WY		
Owner no:	Not Reported		
Parcel no:	042-06-801-001	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	12/09/2003	Date cmplt:	D
Gravel pac:	Y	Depth seal:	5
Depth dril:	25	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	25
Csng diame:	4		
Csng reduc:	0	Top perf:	5
Bottom per:	25	Perf inter:	1
Static wt:	15		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	54931		
Contract 1:	ELITE DRILLING INC		
Contract 2:	5115 S INDUSTRIAL RD #104 LAS VEGAS NV 89118		
Contract 3:	0		
Driller li:	1869	Source age:	NV003
User id:	DBRANTLEY	Date entry:	01/13/2004
Update use:	Not Reported	Date updat:	03/05/2004
Edit statu:	F	Well start:	12/09/2003
Gravel p 1:	5	Gravel p 2:	25
Utm x:	710596.303677		
Utm y:	4059262.57425		
Site id:	NV4000000043337		

**E25**  
**SSE**  
 1/2 - 1 Mile  
 Lower

**NV WELLS      NV4000000043340**

Well log:	94275	App:	Not Reported
Notice of :	27110	Waiver no:	Not Reported
Date log r:	10/11/2004	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	A
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal mg:	66E
Sec:	06	Sec quarte:	DA
Legal quar:	NE SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	BENSON, SARGENT N		
Owner addr:	501 WALLY KAY WY		
Owner no:	CMW-05		
Parcel no:	042-06-701-001	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	10/01/2004	Date cmplt:	D
Gravel pac:	Y	Depth seal:	12
Depth dril:	46	Depth bedr:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer de:	Not Reported	Depth case:	45
Csng diame:	2		
Csng reduc:	0	Top perf:	14
Bottom per:	45	Perf inter:	2
Static wl:	15		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G
Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	12852		
Contract 1:	WATER DEVELOPMENT CORP (THE)		
Contract 2:	1202 E KENTUCKY AVE WOODLAND CA 95776		
Contract 3:	0		
Driller li:	2182	Source age:	NV003
User id:	DBRANTLEY	Date entry:	11/01/2004
Update use:	DBRANTLEY	Date updat:	01/05/2005
Edit statu:	F	Well start:	09/30/2004
Gravel p 1:	13	Gravel p 2:	45
Utm x:	710596.303677		
Utm y:	4059262.57425		
Site id:	NV4000000043340		

**E26**  
**SSE**  
 1/2 - 1 Mile  
 Lower

**NV WELLS      NV4000000043339**

Well log:	94274	App:	Not Reported
Notice of :	27110	Waiver no:	Not Reported
Date log r:	10/11/2004	Date log 1:	D
Site type:	N	Work type:	N
Work type :	Not Reported		
Proposed u:	G	Drilling m:	A
Sc:	32003	Ha:	218
Twn:	S15	Legal twm:	15S
Rng:	E66	Legal rng:	66E
Sec:	06	Sec quarte:	DA
Legal quar:	NE SE	Quarters s:	Not Reported
Ref:	MD	Latitude:	36
Longitude:	114	Lat long s:	NV003
Lat long a:	M		
Owner curr:	BENSON, SARGENT N		
Owner addr:	501 WALLY KAY WY		
Owner no:	CMW02 POND 4A		
Parcel no:	042-06-701-001	Subdivisio:	Not Reported
Lot no:	Not Reported	Block no:	Not Reported
Well finis:	10/07/2004	Date cmplt:	D
Gravel pac:	Y	Depth seal:	5
Depth dril:	35	Depth bedr:	0
Aquifer de:	Not Reported	Depth case:	35
Csng diame:	2.5		
Csng reduc:	0	Top perf:	5
Bottom per:	35	Perf inter:	2
Static wl:	1		
Temperatur:	0		
Yield:	0		
Drawdown:	0		
Hours pump:	0		
Test metho:	Not Reported	Qual const:	G



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Qual lith :	G		
Remarks ad:	Not Reported		
Contractor:	12852		
Contract 1:	WATER DEVELOPMENT CORP (THE)		
Contract 2:	1202 E KENTUCKY AVE WOODLAND CA 95776		
Contract 3:	0		
Driller li:	2182	Source age:	NV003
User id:	DBRANTLEY	Date entry:	11/01/2004
Update use:	DBRANTLEY	Date updat:	01/05/2005
Edit statu:	F	Well start:	10/07/2004
Gravel p 1:	5	Gravel p 2:	35
Utm x:	710596.303677		
Utm y:	4059262.57425		
Site id:	NV4000000043339		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: NV Radon

### Radon Test Results

# Tests	# < 4 pCi/L	# > 4 pCi/L	% > 4 pCi/L	Average	Max
2	2	0	0	1.4	2.3

Federal EPA Radon Zone for CLARK County: 3

Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 89040

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	-0.067 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Nevada Well Log Database

Source: Dept of Conservation and Natural Resources, Division of Water Resources

Telephone: 775-687-4380

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Database

Source: Nevada Bureau of Mines and Geology

Telephone: 775-784-6691

Oil and gas well location in the state of Nevada.

### RADON

#### State Database: NV Radon

Source: State Health Division

Telephone: 775-687-7531

Radon Test Results By Zip Code

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

# **APPENDIX C**

## **HISTORICAL RESEARCH DOCUMENTATION**



**Moapa Reservation Administration Building**

1 Lincoln Street

Moapa, NV 89025

Inquiry Number: 3199391.5

November 03, 2011



## The EDR Aerial Photo Decade Package



440 Wheelers Farms Road  
Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

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*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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**Date EDR Searched Historical Sources:**

Aerial Photography November 03, 2011

**Target Property:**

1 Lincoln Street

Moapa, NV 89025


<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1973	Aerial Photograph. Scale: 1"=1000'	Panel #: 36114-F6, Moapa West, NV;/Flight Date: October 28, 1973	EDR
1978	Aerial Photograph. Scale: 1"=750'	Panel #: 36114-F6, Moapa West, NV;/Flight Date: June 16, 1978	EDR
1981	Aerial Photograph. Scale: 1"=1000'	Panel #: 36114-F6, Moapa West, NV;/Flight Date: June 21, 1981	EDR
1990	Aerial Photograph. Scale: 1"=750'	Panel #: 36114-F6, Moapa West, NV;/Flight Date: May 04, 1990	EDR
1994	Aerial Photograph. Scale: 1"=500'	Panel #: 36114-F6, Moapa West, NV;/Composite DOQQ - acquisition dates: September 11, 1994	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 36114-F6, Moapa West, NV;/Flight Year: 2006	EDR



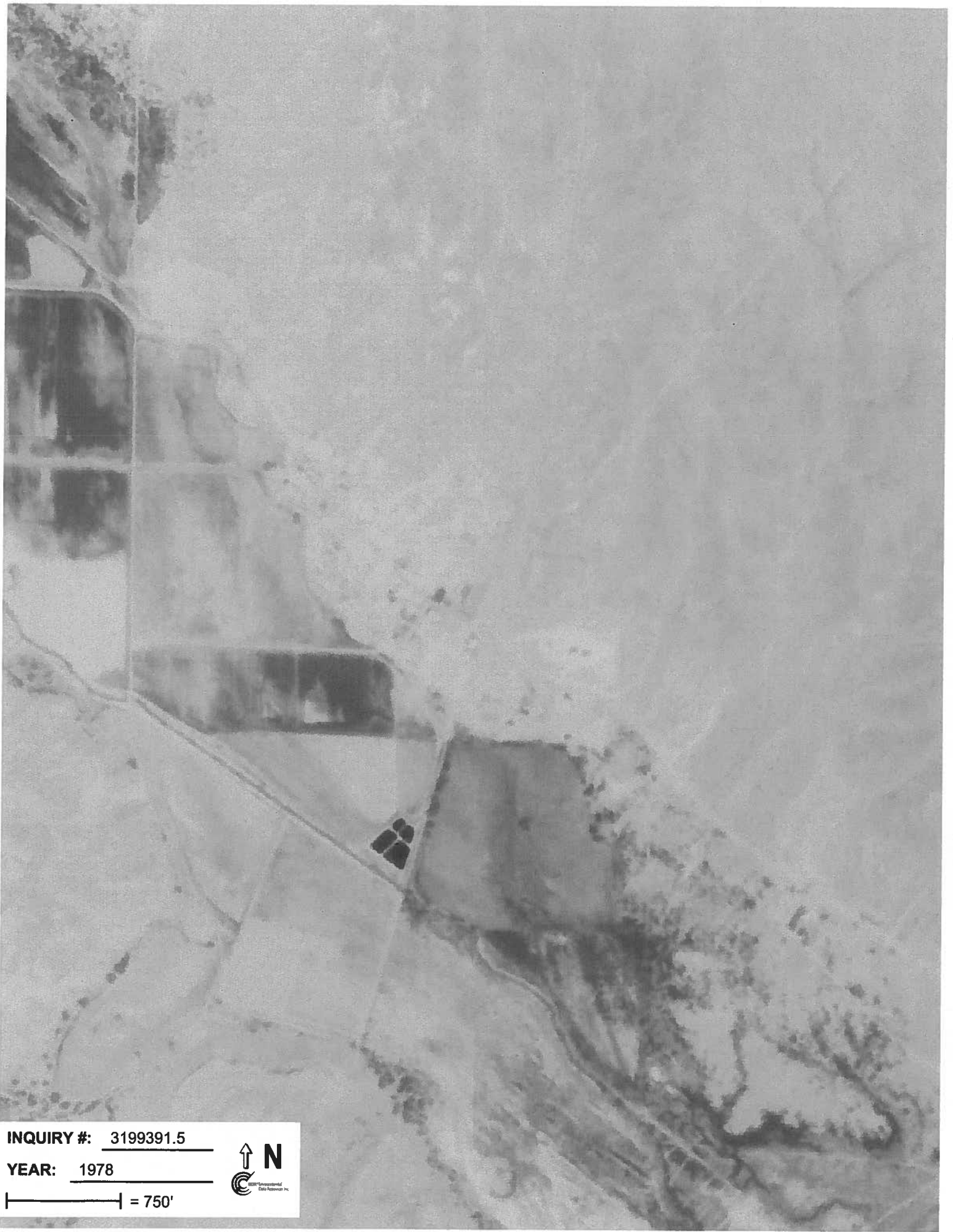


INQUIRY #: 3199391.5

YEAR: 1973

 = 1000'



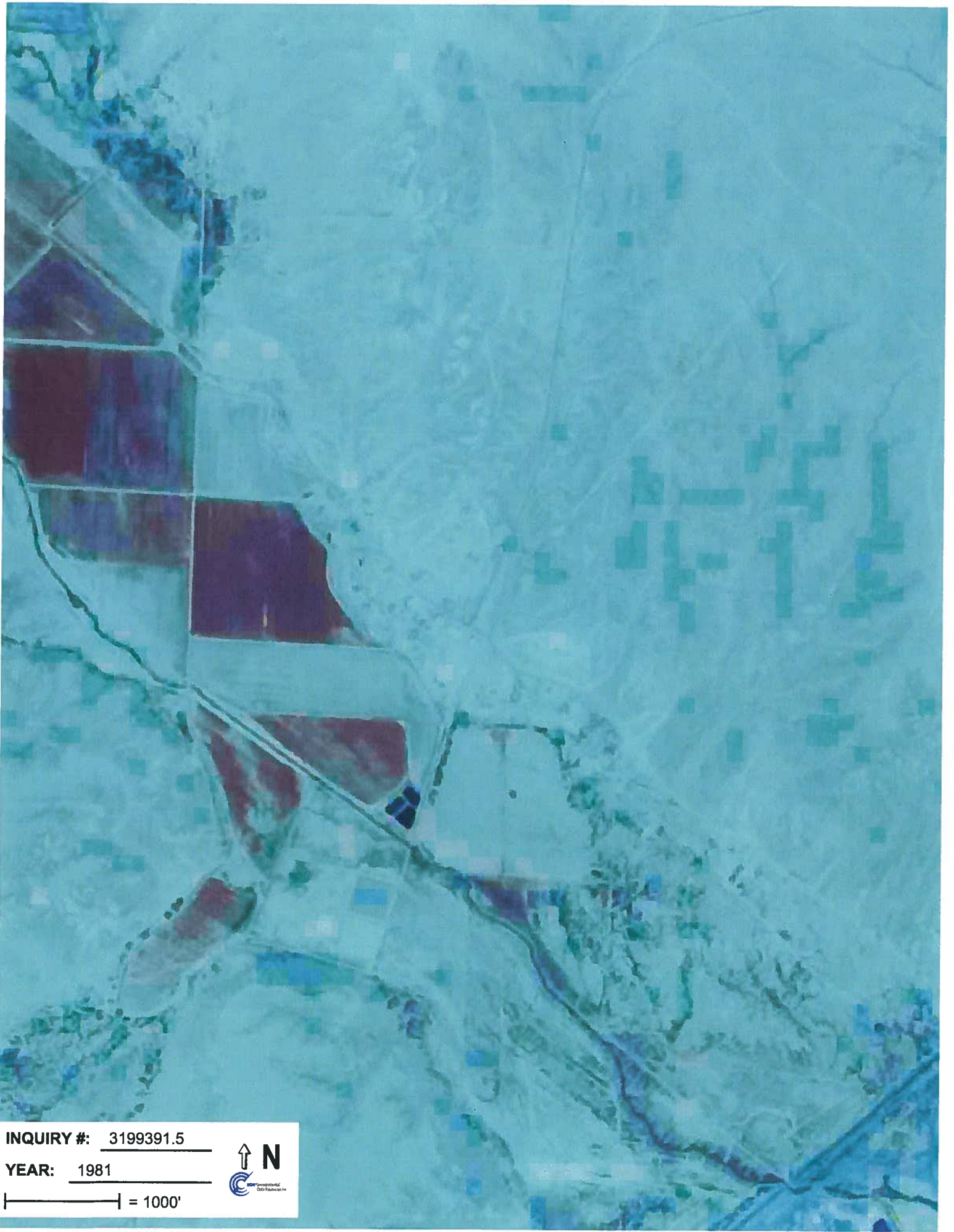


INQUIRY #: 3199391.5

YEAR: 1978

 = 750'





**INQUIRY #:** 3199391.5

**YEAR:** 1981

**|—————| = 1000'**





**INQUIRY #:** 3199391.5

**YEAR:** 1990

**Scale:** 1" = 750'





INQUIRY #: 3199391.5

YEAR: 1994

 = 500'





INQUIRY #: 3199391.5

YEAR: 2006

 = 500'





Historical Aerial Photo  
1938

**MOAPA, NV 89025**

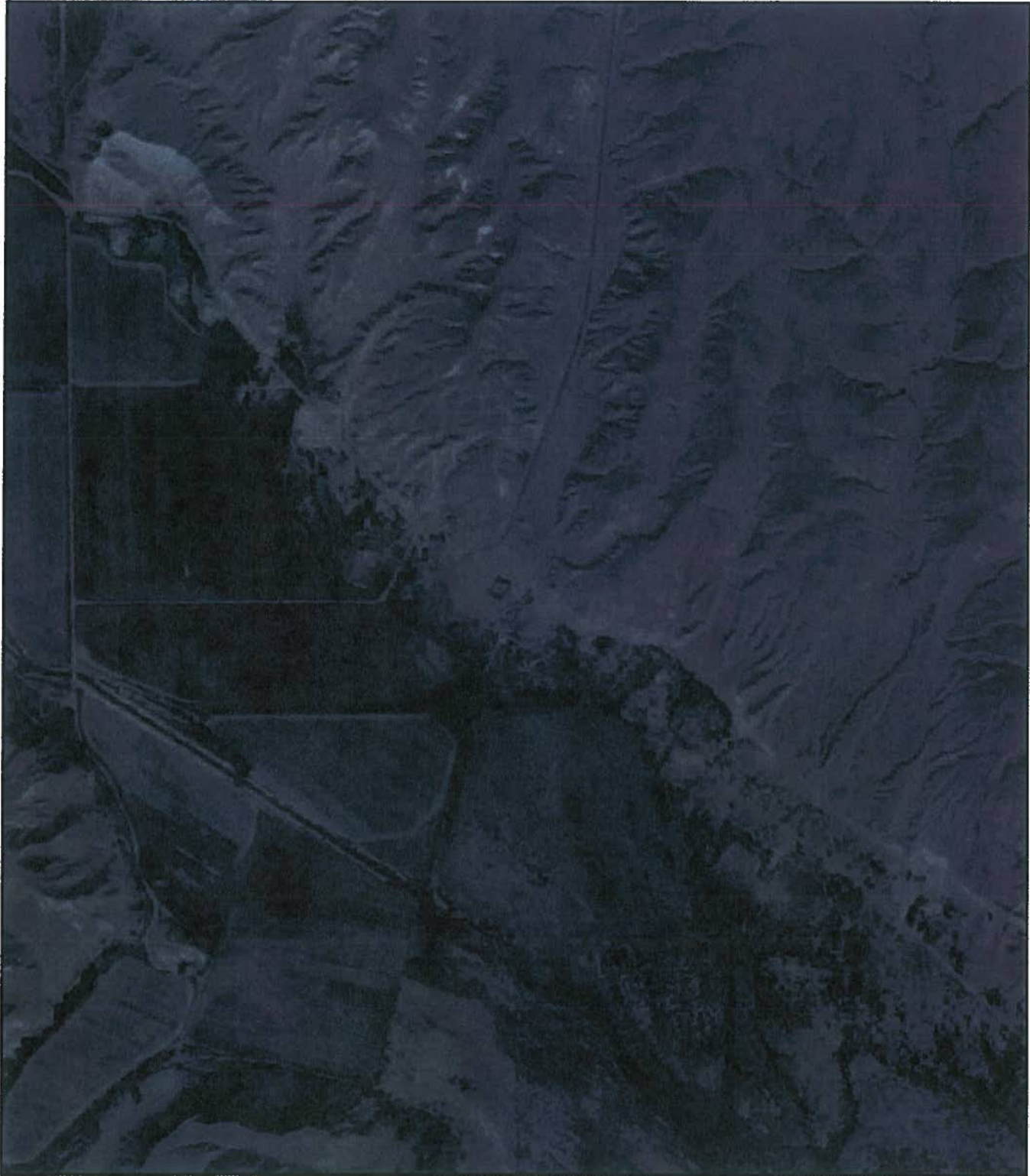
Target Site: 36.669243 -114.65273; Job Number: 117225\_02



1 inch equals 750 feet



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Historical Aerial Photo  
1967

**MOAPA, NV 89025**

Target Site: 36.669243 -114.65273; Job Number: 117225\_02



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Historical Aerial Photo  
1973

**MOAPA, NV 89025**

Target Site: 36.669243 -114.65273; Job Number: 117225\_02



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Historical Aerial Photo  
1981

**MOAPA, NV 89025**

Target Site: 36.669243 -114.65273; Job Number: 117225\_02



1 inch equals 750 feet





Historical Aerial Photo  
1994

**MOAPA, NV 89025**

Target Site: 36.669243 -114.65273; Job Number: 117225\_02



1 inch equals 750 feet



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Historical Aerial Photo  
2006

**MOAPA, NV 89025**

Target Site: 36.669243 -114.65273; Job Number: 117225\_02



1 inch equals 750 feet



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**Moapa Reservation Administration Building**

1 Lincoln Street

Moapa, NV 89025

Inquiry Number: 3199391.3

November 01, 2011



**Certified Sanborn® Map Report**

## Certified Sanborn® Map Report

11/01/11

**Site Name:**

Moapa Reservation  
1 Lincoln Street  
Moapa, NV 89025

**Client Name:**

Kleinfelder, Inc.  
4835 Longley Lane  
Reno, NV 89502



EDR Inquiry # 3199391.3

Contact: Phil Tousignant

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Kleinfelder, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

### Certified Sanborn Results:

**Site Name:** Moapa Reservation Administration Building  
**Address:** 1 Lincoln Street  
**City, State, Zip:** Moapa, NV 89025  
**Cross Street:**  
**P.O. #** NA  
**Project:** Moapa Administration Building  
**Certification #** 9D7C-4E7F-A960



Sanborn® Library search results  
Certification # 9D7C-4E7F-A960

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- Library of Congress
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**Moapa Reservation Administration Building**

1 Lincoln Street

Moapa, NV 89025

Inquiry Number: 3199391.4

November 02, 2011



## EDR Historical Topographic Map Report

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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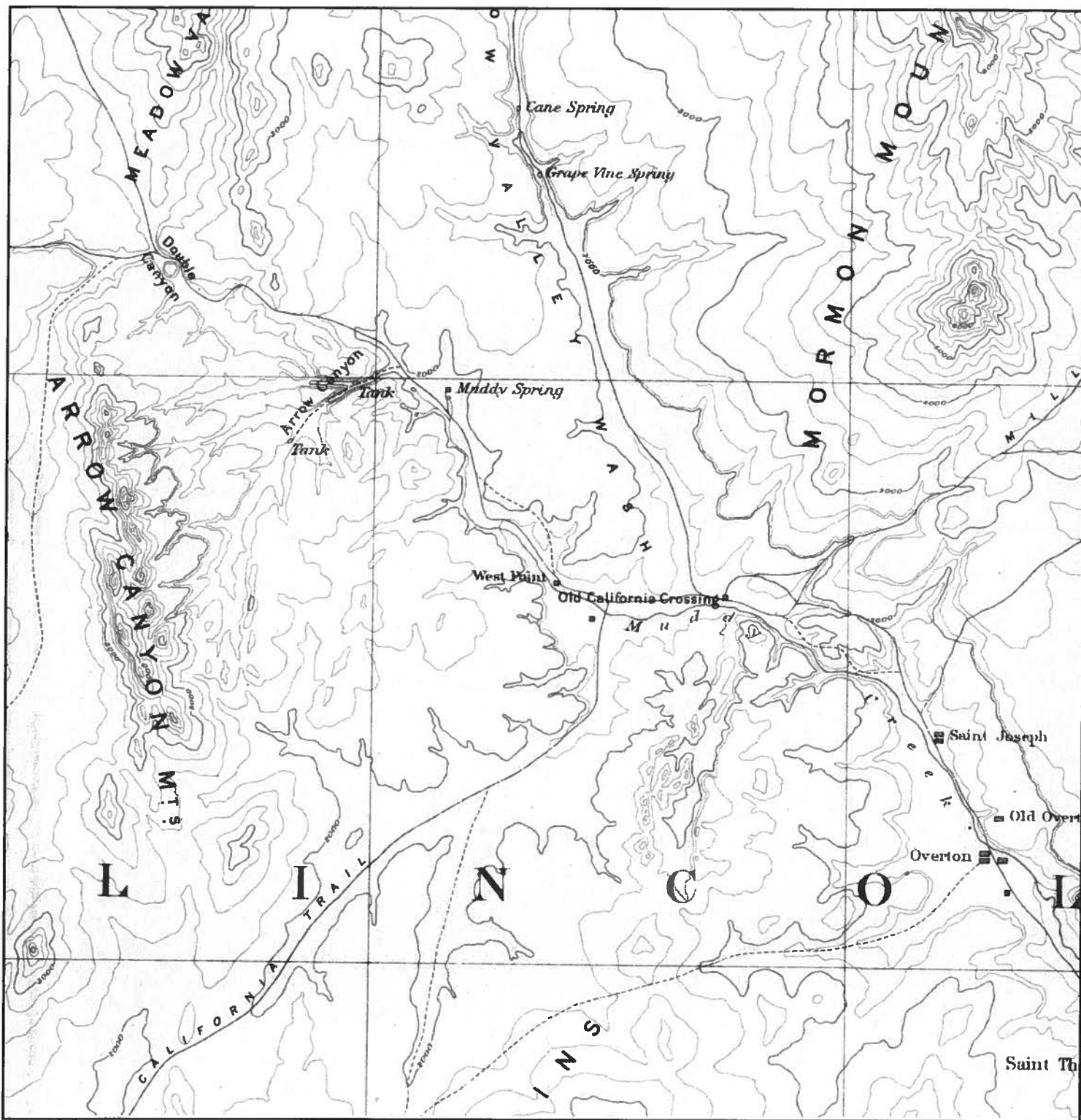
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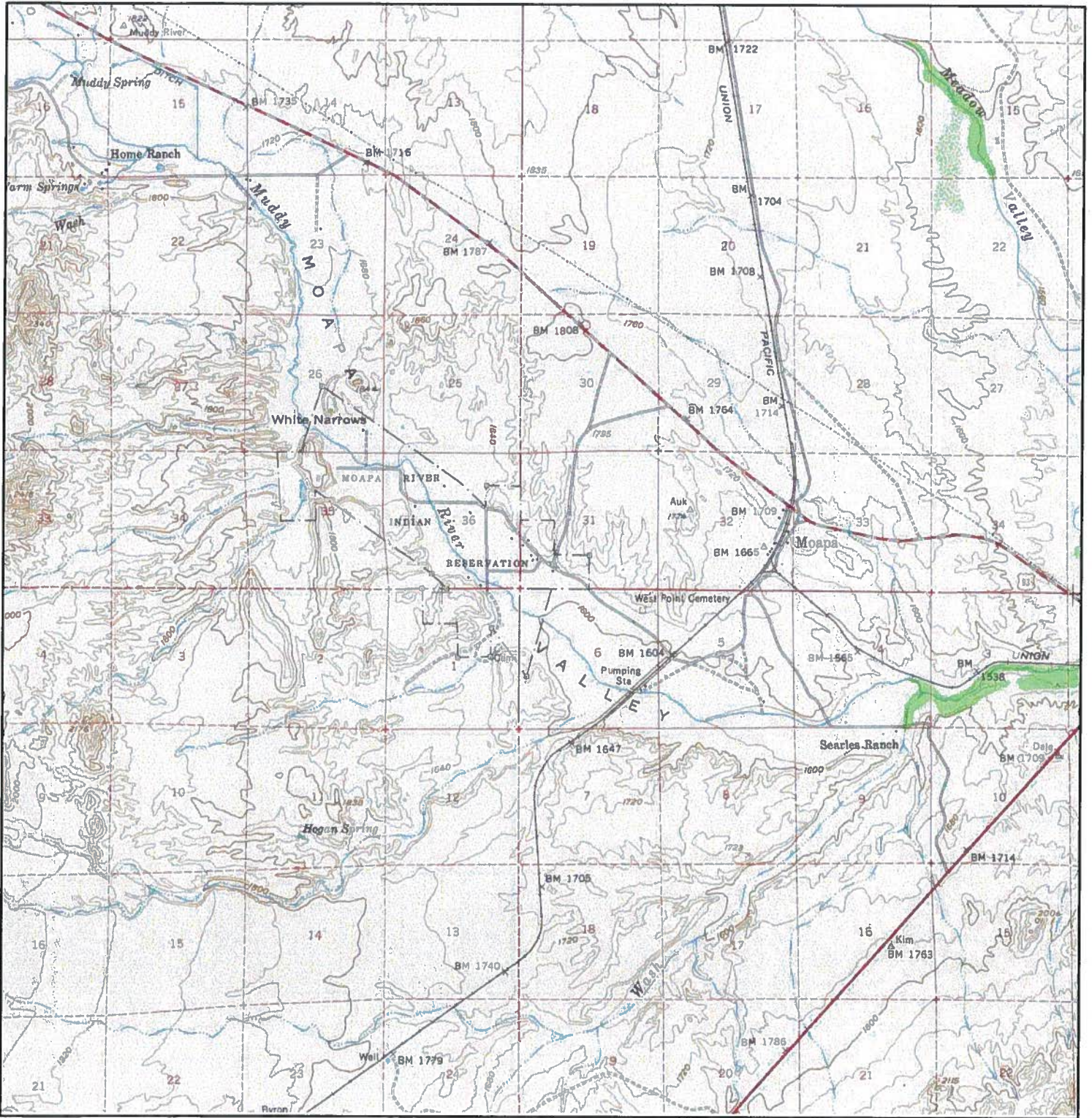



# Historical Topographic Map



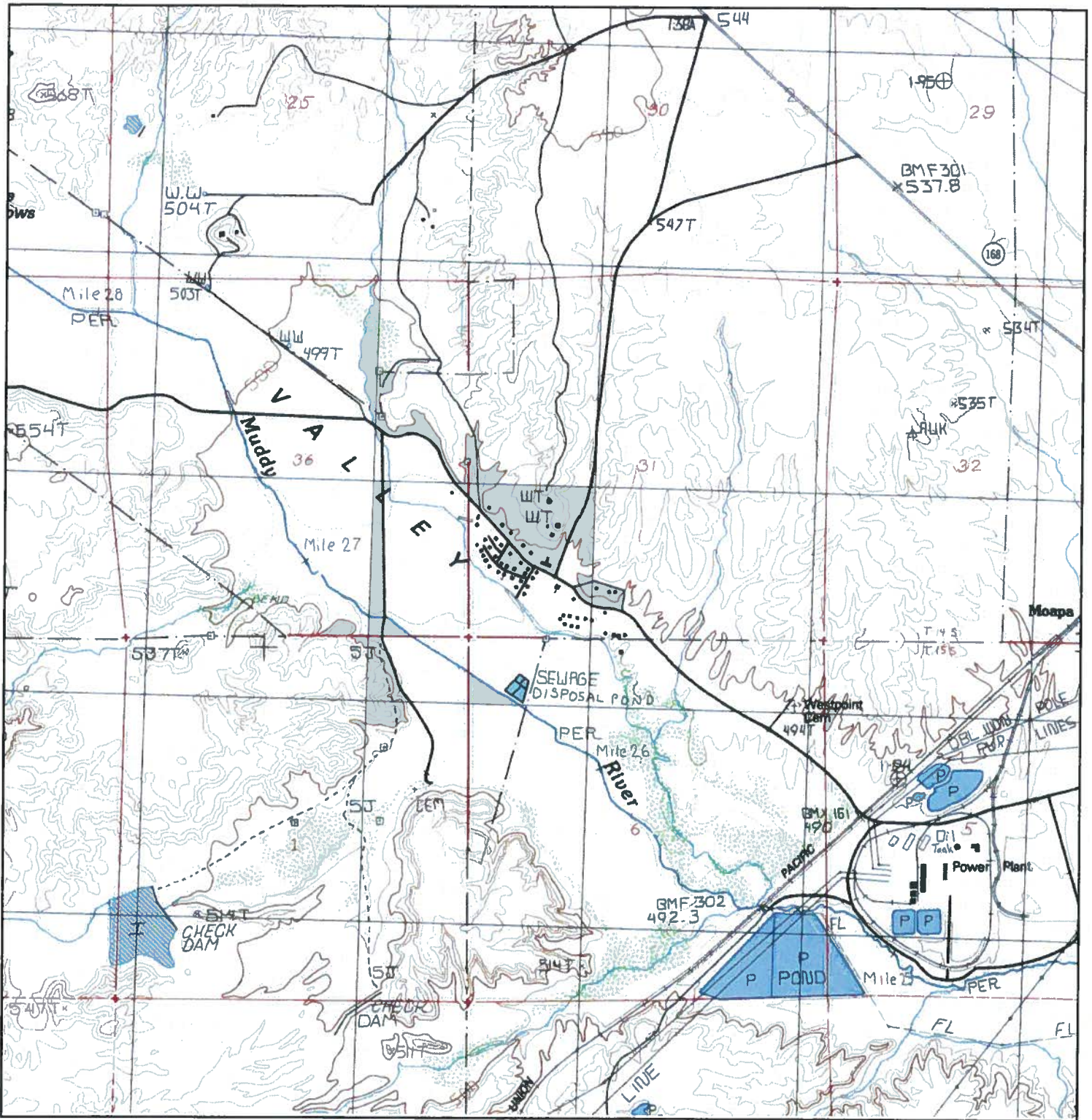
	TARGET QUAD	SITE NAME:	Moapa Reservation Administration	CLIENT:	Kleinfelder, Inc.
	NAME: SAINT THOMAS	ADDRESS:	1 Lincoln Street	CONTACT:	Phil Tousignant
	MAP YEAR: 1886	LAT/LONG:	Moapa, NV 89025	INQUIRY#:	3199391.4
	SERIES: 60		36.6701 / -114.6533	RESEARCH DATE:	11/02/2011
	SCALE: 1:250000				


# Historical Topographic Map



<b>N</b> 	<b>TARGET QUAD</b>	<b>SITE NAME:</b>	<b>CLIENT:</b>
	<b>NAME:</b> MOAPA	Moapa Reservation Administration	Kleinfelder, Inc.
	<b>MAP YEAR:</b> 1965	<b>ADDRESS:</b> 1 Lincoln Street	<b>CONTACT:</b> Phil Tousignant
	<b>REVISED:</b> 1958	Moapa, NV 89025	<b>INQUIRY#:</b> 3199391.4
	<b>SERIES:</b> 15	<b>LAT/LONG:</b> 36.6701 / -114.6533	<b>RESEARCH DATE:</b> 11/02/2011
	<b>SCALE:</b> 1:62500		

# Historical Topographic Map



<b>N</b> 	<b>TARGET QUAD</b>	<b>SITE NAME:</b>	Moapa Reservation Administration	<b>CLIENT:</b>	Kleinfelder, Inc.	
	<b>NAME:</b>	MOAPA WEST	<b>ADDRESS:</b>	1 Lincoln Street	<b>CONTACT:</b>	Phil Tousignant
	<b>MAP YEAR:</b>	1983	<b>LAT/LONG:</b>	Moapa, NV 89025	<b>INQUIRY#:</b>	3199391.4
	<b>PROVISIONAL</b>				<b>RESEARCH DATE:</b>	11/02/2011
	<b>SERIES:</b>	7.5				
	<b>SCALE:</b>	1:24000				

**APPENDIX D**

**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: 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.

### **AHERA**

AHERA (40 CFR part 763), as implemented by the EPA, primarily pertains to the assessment and management of ACMs in Kindergarten (K) through 12<sup>th</sup> 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.

### **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 E**

**ASBESTOS**

**ANALYTICAL LABORATORY REPORT**





**Polarized Light Microscope (PLM) Analysis for Asbestos in Bulk Sample**

**Job Number:** 201202433

**Client:**

**KLEINFELDER INC**

6380 S POLARIS AVE

LAS VEGAS, NV 89118-3821

Office Phone: (702) 736-2936

FAX: (702) 361-9094

# Samples: 39 PLM Rec: 3/9/2012 Method: EPA 600/R-93/116

The "New" Method; see below

Client Job: 122783 / Moapa Admin Building

PO Number: 122783

Report Date: 3/12/2012 Date Analyzed: 3/12/2012

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  $\leq 1\%$  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 identification and quantitation is the "Standard Operating Procedures for the Analysis of Asbestos in Bulk Samples using Polarized Light Microscopy", Chapter 7 of the Quality Assurance and Management Manual. This SOP and its associated reporting have been designed to satisfy all requirements in both EPA Method 600/M4-82-020 (The Interim Method) and EPA Method 600/R-93/116 (The New Method). The Interim Method is the required method for AHERA (US EPA 40 CFR Pt. 763), but this method calls for the reporting of composited results of multi-layered samples that is no longer an acceptable reporting practice in most circumstances. Current EPA rules, such as NESHAP (US EPA 40CFR Pt. 61), as well as NVLAP accreditation policies, call for separate reporting for each layer of multi-layered samples. The New Method contains the same procedures for identification and quantification of asbestos as does the Interim Method, except that multi-layered samples are reported to comply with the latest US EPA rule. Fiberquant not only reports the asbestos content of each layer of multi-layered samples separately (satisfying current EPA and NVLAP reporting requirements), but Fiberquant also reports what percentage of the sample each layer comprises. Therefore, the results may be arithmetically composited to satisfy the reporting requirements of the Interim Method. 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  $\leq 1\%$  asbestos are point counted using 400 points. Such point counting is required by NESHAP (National Emission Standards for Hazardous Air Pollutants, Nov. 1990) in order to rely on analytical results that are  $\leq 1\%$ . 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  $\leq 1\%$  as "borderline negative", and results where asbestos was  $> 1\%$  but  $\leq 2\%$  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  $\leq 1\%$ . 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: 201202433 122783 / Moapa Admin Building**

Sample Number	Lab Number	Apparent Sample Type *	Positive Layer Yes or No
Layer Color Apparent Layer Type *	Asbestos Results		
Sample # <b>ACM-01A</b>	2012-02433- 1	Flooring	Positive Layer? No
Layer # 1 off-white floor tile	no asbestos detected		
Layer # 2 yellow mastic	no asbestos detected		
Sample # <b>ACM-01B</b>	2012-02433- 2	Flooring	Positive Layer? No
Layer # 1 off-white floor tile	no asbestos detected		
Layer # 2 yellow mastic	no asbestos detected		
Sample # <b>ACM-01C</b>	2012-02433- 3	Flooring	Positive Layer? No
Layer # 1 off-white floor tile	no asbestos detected		
Layer # 2 yellow mastic	no asbestos detected		
Sample # <b>ACM-02A</b>	2012-02433- 4	Flooring	Positive Layer? No
Layer # 1 white caulk	no asbestos detected		
Layer # 2 brown floor tile	no asbestos detected		
Layer # 3 yellow mastic	no asbestos detected		
Sample # <b>ACM-02B</b>	2012-02433- 5	Flooring	Positive Layer? No
Layer # 1 brown floor tile	no asbestos detected		
Layer # 2 clear mastic	no asbestos detected		
Sample # <b>ACM-02C</b>	2012-02433- 6	Flooring	Positive Layer? No
Layer # 1 brown floor tile	no asbestos detected		
Layer # 2 clear mastic	no asbestos detected		
Sample # <b>ACM-03A</b>	2012-02433- 7	Miscellaneous	Positive Layer? No
Layer # 1 brown base cove	no asbestos detected		
Layer # 2 yellow mastic	no asbestos detected		
Layer # 3 brown mastic	no asbestos detected		
Sample # <b>ACM-03B</b>	2012-02433- 8	Miscellaneous	Positive Layer? No
Layer # 1 black base cove	no asbestos detected		
Layer # 2 off-white mastic	no asbestos detected		
Sample # <b>ACM-03C</b>	2012-02433- 9	Miscellaneous	Positive Layer? No
Layer # 1 gray base cove	no asbestos detected		
Layer # 2 yellow mastic	no asbestos detected		
Sample # <b>ACM-04A</b>	2012-02433- 10	Acoustical Tile	Positive Layer? No
Layer # 1 white paint	no asbestos detected		
Layer # 2 tan acoustical tile	no asbestos detected		
Sample # <b>ACM-04B</b>	2012-02433- 11	Acoustical Tile	Positive Layer? No
Layer # 1 white paint	no asbestos detected		
Layer # 2 tan acoustical tile	no asbestos detected		
Sample # <b>ACM-04C</b>	2012-02433- 12	Acoustical Tile	Positive Layer? No
Layer # 1 white paint	no asbestos detected		
Layer # 2 tan acoustical tile	no asbestos detected		
Sample # <b>ACM-05A</b>	2012-02433- 13	Miscellaneous	Positive Layer? No
Layer # 1 off-white paint	no asbestos detected		
Layer # 2 white wall covering	no asbestos detected		
Layer # 3 yellow mastic	no asbestos detected		
Sample # <b>ACM-05B</b>	2012-02433- 14	Miscellaneous	Positive Layer? No
Layer # 1 off-white paint	no asbestos detected		
Layer # 2 white wall covering	no asbestos detected		
Sample # <b>ACM-05C</b>	2012-02433- 15	Miscellaneous	Positive Layer? No
Layer # 1 off-white paint	no asbestos detected		
Layer # 2 white wall covering	no asbestos detected		

Sample #	<b>ACM-06A</b>	2012-02433- 16	Wall System	Positive Layer?	No
Layer # 1	brown	paint	<i>no asbestos detected</i>		
Layer # 2	white	texture/joint compound	<i>no asbestos detected</i>		
Layer # 3	off-white	paper/cardboard	<i>no asbestos detected</i>		
Layer # 4	white	texture/joint compound	<i>no asbestos detected</i>		
Layer # 5	tan	paper/cardboard	<i>no asbestos detected</i>		
Layer # 6	white	drywall core	<i>no asbestos detected</i>		
Sample #	<b>ACM-06B</b>	2012-02433- 17	Wall System	Positive Layer?	No
Layer # 1	off-white	paint	<i>no asbestos detected</i>		
Layer # 2	white	texture/joint compound	<i>&lt;=1% chrysotile asbestos</i>		
Layer # 3	tan	paper/cardboard	<i>no asbestos detected</i>		
Layer # 4	white	drywall core	<i>no asbestos detected</i>		
Sample #	<b>ACM-06C</b>	2012-02433- 18	Wall System	Positive Layer?	No
Layer # 1	off-white	paint	<i>no asbestos detected</i>		
Layer # 2	white	texture/joint compound	<i>no asbestos detected</i>		
Layer # 3	tan	paper/cardboard	<i>no asbestos detected</i>		
Layer # 4	white	drywall core	<i>no asbestos detected</i>		
Sample #	<b>ACM-07A</b>	2012-02433- 19	Insulation	Positive Layer?	No
Layer # 1	pink	insulation	<i>no asbestos detected</i>		
Sample #	<b>ACM-08A</b>	2012-02433- 20	Cementitious	Positive Layer?	No
Layer # 1	black	mortar	<i>no asbestos detected</i>		
Sample #	<b>ACM-08B</b>	2012-02433- 21	Miscellaneous	Positive Layer?	No
Layer # 1	gray	coating	<i>no asbestos detected</i>		
Sample #	<b>ACM-08C</b>	2012-02433- 22	Miscellaneous	Positive Layer?	No
Layer # 1	gray	coating	<i>no asbestos detected</i>		
Layer # 2	black	mortar	<i>no asbestos detected</i>		
Sample #	<b>ACM-09A</b>	2012-02433- 23	Cementitious	Positive Layer?	No
Layer # 1	gray	block	<i>no asbestos detected</i>		
Sample #	<b>ACM-09B</b>	2012-02433- 24	Cementitious	Positive Layer?	No
Layer # 1	pink	paint	<i>no asbestos detected</i>		
Layer # 2	white	texture/joint compound	<i>&lt;=1% chrysotile asbestos</i>		
Layer # 3	gray	block	<i>no asbestos detected</i>		
Sample #	<b>ACM-09C</b>	2012-02433- 25	Cementitious	Positive Layer?	No
Layer # 1	gray	block	<i>no asbestos detected</i>		
Sample #	<b>ACM-10A</b>	2012-02433- 26	Miscellaneous	Positive Layer?	No
Layer # 1	red	brick	<i>no asbestos detected</i>		
Layer # 2	black	mortar	<i>no asbestos detected</i>		
Sample #	<b>ACM-10B</b>	2012-02433- 27	Miscellaneous	Positive Layer?	No
Layer # 1	red	brick	<i>no asbestos detected</i>		
Sample #	<b>ACM-10C</b>	2012-02433- 28	Miscellaneous	Positive Layer?	No
Layer # 1	black	block	<i>no asbestos detected</i>		
Layer # 2	gray	mortar	<i>no asbestos detected</i>		
Sample #	<b>ACM-11A</b>	2012-02433- 29	Adhesive/caulk	Positive Layer?	Yes
Layer # 1	white	sealant	<i>no asbestos detected</i>		
Layer # 2	black	caulk	<i>5-10% chrysotile asbestos</i>		
Sample #	<b>ACM-11B</b>	2012-02433- 30	Adhesive/caulk	Positive Layer?	No
Layer # 1	white	sealant	<i>no asbestos detected</i>		
Layer # 2	black	caulk	<i>no asbestos detected</i>		
Sample #	<b>ACM-11C</b>	2012-02433- 31	Adhesive/caulk	Positive Layer?	Yes
Layer # 1	black	caulk	<i>5-10% chrysotile asbestos</i>		
Sample #	<b>ACM-12A</b>	2012-02433- 32	Roofing	Positive Layer?	No
Layer # 1	black	roofing roll/shingle	<i>no asbestos detected</i>		
Sample #	<b>ACM-12B</b>	2012-02433- 33	Roofing	Positive Layer?	No
Layer # 1	black	roofing roll/shingle	<i>no asbestos detected</i>		
Layer # 2	black	mastic	<i>no asbestos detected</i>		
Layer # 3	black	roof ply	<i>no asbestos detected</i>		
Sample #	<b>ACM-12C</b>	2012-02433- 34	Roofing	Positive Layer?	No
Layer # 1	silver	paint	<i>no asbestos detected</i>		
Layer # 2	black	roofing roll/shingle	<i>no asbestos detected</i>		
Layer # 3	black	mastic	<i>no asbestos detected</i>		
Sample #	<b>ACM-13A</b>	2012-02433- 35	Sprayed Material	Positive Layer?	No
Layer # 1	white	spray-on ceiling	<i>no asbestos detected</i>		
Sample #	<b>ACM-13B</b>	2012-02433- 36	Sprayed Material	Positive Layer?	No
Layer # 1	white	spray-on ceiling	<i>no asbestos detected</i>		
Sample #	<b>ACM-13C</b>	2012-02433- 37	Sprayed Material	Positive Layer?	No
Layer # 1	white	spray-on ceiling	<i>no asbestos detected</i>		
Sample #	<b>ACM-14A</b>	2012-02433- 38	Flooring	Positive Layer?	No
Layer # 1	brown	floor tile	<i>no asbestos detected</i>		
Layer # 2	clear	mastic	<i>no asbestos detected</i>		
Layer # 3	white	floor tile	<i>no asbestos detected</i>		
Layer # 4	yellow	mastic	<i>no asbestos detected</i>		
Sample #	<b>ACM-14B</b>	2012-02433- 39	Flooring	Positive Layer?	No
Layer # 1	brown	floor tile	<i>no asbestos detected</i>		
Layer # 2	clear	mastic	<i>no asbestos detected</i>		

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\* 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.

**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-01A **Lab Number** 2012-02433- 1 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **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					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	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.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-

Fiber Identification: none

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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** ACM-01B **Lab Number** 2012-02433- 2 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **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					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	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.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-

Fiber Identification: none

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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** ACM-01C **Lab Number** 2012-02433- 3 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **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					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	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.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-

Fiber Identification: none

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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.

**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-02A      **Lab Number** 2012-02433- 4      **Sampled:** 3/7/2012      **Condition:** acceptable  
**Analyzed By** DMS    3/12/2012      **An?** OK      **Apparent Smp Type** Flooring      **Non-fibrous Solid**  
**Homogeneous** No      **# Layers** 3      **Pos Layer?** No      **# Sub-Samples** 9  
**Non-Fibrous Components (in approx. decreasing order):** filler, polymer,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	caulk	9	white	1	n.d.	-	-	-	-	-
2	floor tile	90	brown	1	n.d.	-	-	-	-	-
3	mastic	1	yellow	1	n.d.	-	-	-	-	-
<b>Total %</b>		100	<b>Overall %</b>		n.d.	-	-	-	-	-
<b>Fiber Identification:</b> none										

Fibers								Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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** ACM-02B      **Lab Number** 2012-02433- 5      **Sampled:** 3/7/2012      **Condition:** acceptable  
**Analyzed By** DMS    3/12/2012      **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					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	98	brown	1	n.d.	-	-	-	-	-
2	mastic	2	clear	1	n.d.	-	-	-	-	-
<b>Total %</b>		100	<b>Overall %</b>		n.d.	-	-	-	-	-
<b>Fiber Identification:</b> none										

Fibers								Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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.

**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-02C      **Lab Number** 2012-02433- 6      **Sampled:** 3/7/2012      **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012      **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					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	95	brown	1	n.d.	-	-	-	-	-
2	mastic	5	clear	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-
<b>Fiber Identification:</b>					none					

Fibers								Refractive Index Determinations				
#	Color	Mirph	Iso	Pleo	Bl	Elg	Ext	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** ACM-03A      **Lab Number** 2012-02433- 7      **Sampled:** 3/7/2012      **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012      **An?** OK      **Apparent Smp Type** Miscellaneous      **Rubbery**  
**Homogeneous** No      **# Layers** 3      **Pos Layer?** No      **# Sub-Samples** 8  
**Non-Fibrous Components (in approx. decreasing order):** polymer, filler,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base cove	90	brown	1	n.d.	-	-	-	-	-
2	mastic	8	yellow	1	n.d.	-	-	-	-	-
3	mastic	2	brown	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-
<b>Fiber Identification:</b>					none					

Fibers								Refractive Index Determinations				
#	Color	Mirph	Iso	Pleo	Bl	Elg	Ext	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.

**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-03B      **Lab Number** 2012-02433- 8      **Sampled:** 3/7/2012      **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012      **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					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base covc	99	black	1	n.d.	-	-	-	-	-
2	mastic	1	off-white	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-

**Fiber Identification:** none

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	BI	Elg	Ext	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** ACM-03C      **Lab Number** 2012-02433- 9      **Sampled:** 3/7/2012      **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012      **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					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	base covc	98	gray	1	n.d.	-	-	-	-	-
2	mastic	2	yellow	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-

**Fiber Identification:** none

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	BI	Elg	Ext	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.



**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-04A **Lab Number** 2012-02433- 10 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **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					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	white	1	n.d.	-	-	-	-	-
2	acoustical tile	99	tan	3	90-100%	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		<b>90-100%</b>	-	-	-	-	-

**Fiber Identification:** cellulose fiber

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext		Oil	Col Par	Col Per	RI Par	RI Per
1	W	F	N	N	H	+	U	cellulose fiber					
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** ACM-04B **Lab Number** 2012-02433- 11 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **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					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	white	1	n.d.	-	-	-	-	-
2	acoustical tile	99	tan	3	90-100%	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		<b>90-100%</b>	-	-	-	-	-

**Fiber Identification:** cellulose fiber

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext		Oil	Col Par	Col Per	RI Par	RI Per
1	W	F	N	N	H	+	U	cellulose fiber					
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** ACM-04C **Lab Number** 2012-02433- 12 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **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					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	white	1	n.d.	-	-	-	-	-
2	acoustical tile	99	tan	3	90-100%	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		<b>90-100%</b>	-	-	-	-	-

**Fiber Identification:** cellulose fiber

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext		Oil	Col Par	Col Per	RI Par	RI Per
1	W	F	N	N	H	+	U	cellulose fiber					
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.

**PLM Analysis Details**

**Job Number: 201202433** 122783 / Moapa Admin Building

**Sample** ACM-05A **Lab Number** 2012-02433- 13 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Miscellaneous **Fibrous Solid**  
**Homogeneous** No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 8  
**Non-Fibrous Components (in approx. decreasing order):** binder, ,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	off-white	1	n.d.	-	-	-	-	-
2	wall covering	97	white	2	90-100%	-	-	-	-	-
3	mastic	2	yellow	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		<b>90-100%</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Fiber Identification:** cellulose fiber

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext		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: teased apart using forceps.

**Sample** ACM-05B **Lab Number** 2012-02433- 14 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Miscellaneous **Fibrous Solid**  
**Homogeneous** No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5  
**Non-Fibrous Components (in approx. decreasing order):** binder, ,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	3	off-white	1	n.d.	-	-	-	-	-
2	wall covering	97	white	2	90-100%	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		<b>90-100%</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Fiber Identification:** cellulose fiber

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext		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: teased apart using forceps.

**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-05C **Lab Number** 2012-02433- 15 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Miscellaneous **Fibrous Solid**  
**Homogeneous** No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 5  
**Non-Fibrous Components (in approx. decreasing order):** binder, ,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	3	off-white	1	n.d.	-	-	-	-	-
2	wall covering	97	white	2	90-100%	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		90-100%	-	-	-	-	-

Fiber Identification: cellulose fiber

Fibers								Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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.

**Sample** ACM-06A **Lab Number** 2012-02433- 16 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Wall System **Fibrous Solid**  
**Homogeneous** No **# Layers** 6 **Pos Layer?** No **# Sub-Samples** 13  
**Non-Fibrous Components (in approx. decreasing order):** powder, binder,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	brown	1	n.d.	n.d.	-	-	-	-
2	texture/joint compound	1	white	3	n.d.	n.d.	-	-	-	-
3	paper/cardboard	3	off-white	2	90-100%	n.d.	-	-	-	-
4	texture/joint compound	1	white	3	n.d.	n.d.	-	-	-	-
5	paper/cardboard	4	tan	2	90-100%	n.d.	-	-	-	-
6	drywall core	90	white	3	<=1%	<=1%	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		5-10%	<=1%	-	-	-	-

Fiber Identification: cellulose fiber glass fiber

Fibers								Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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 joint compound/texture matrix using acid.

**PLM Analysis Details**

**Job Number: 201202433** 122783 / Moapa Admin Building

**Sample** ACM-06B **Lab Number** 2012-02433- 17 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Wall System **Fibrous Solid**  
**Homogeneous** No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 9  
**Non-Fibrous Components (in approx. decreasing order):** powder, binder,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	off-white	1	n.d.	n.d.	n.d.	-	-	-
2	texture/joint compound	1	white	3	<=1%	n.d.	n.d.	-	-	-
3	paper/cardboard	3	tan	2	n.d.	90-100%	n.d.	-	-	-
4	drywall core	95	white	3	n.d.	<=1%	<=1%	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		<=1%	2-5%	<=1%	-	-	-
<b>Fiber Identification:</b>					chrysotile asbestos	cellulose fiber	glass fiber			

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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	1.549
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. Note: sample size of texture was too small - analysis may not be representative of whole. Not enough texture to point-count.

**Sample** ACM-06C **Lab Number** 2012-02433- 18 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Wall System **Fibrous Solid**  
**Homogeneous** No **# Layers** 4 **Pos Layer?** No **# Sub-Samples** 9  
**Non-Fibrous Components (in approx. decreasing order):** powder, binder,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1.5	off-white	1	n.d.	-	-	-	-	-
2	texture/joint compound	0.5	white	3	n.d.	-	-	-	-	-
3	paper/cardboard	3	tan	2	90-100%	-	-	-	-	-
4	drywall core	95	white	3	<=1%	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		2-5%	-	-	-	-	-
<b>Fiber Identification:</b>					cellulose fiber					

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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. Note: sample size of texture was too small - analysis may not be representative of whole.

**PLM Analysis Details**

**Job Number: 201202433** 122783 / Moapa Admin Building

**Sample** ACM-07A **Lab Number** 2012-02433- 19 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Insulation **Fibrous Mat**  
**Homogeneous** Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3  
**Non-Fibrous Components (in approx. decreasing order):** binder, ,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	insulation	100	pink	4	90-100%	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		90-100%	-	-	-	-	-
<b>Fiber Identification:</b>					glass fiber					

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

**Sample Analytical Note**  
 Procedure: tweased apart using forceps.

**Sample** ACM-08A **Lab Number** 2012-02433- 20 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Cementitious **Non-fibrous Solid**  
**Homogeneous** Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3  
**Non-Fibrous Components (in approx. decreasing order):** powder, rock,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	mortar	100	black	2	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-
<b>Fiber Identification:</b>					none					

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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 dilute HCl acid.

**Sample** ACM-08B **Lab Number** 2012-02433- 21 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Miscellaneous **Fibrous Solid**  
**Homogeneous** Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3  
**Non-Fibrous Components (in approx. decreasing order):** polymer, filler,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	coating	100	gray	2	<=1%	<=1%	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		<=1%	<=1%	-	-	-	-
<b>Fiber Identification:</b>					synthetic fiber (extr cellulose fiber					

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per	
1	synthetic fiber (extruded)	W	E	N	N	H	+	P					
2	cellulose fiber	W	F	N	N	H	+	U					
3													
4													
5													
6													

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

**PLM Analysis Details**

**Job Number: 201202433** 122783 / Moapa Admin Building

**Sample** ACM-08C **Lab Number** 2012-02433- 22 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Miscellaneous **Fibrous Solid**  
**Homogeneous** Yes **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 6  
**Non-Fibrous Components (in approx. decreasing order):** powder, rock, polymer

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	coating	1	gray	2	2-5%	-	-	-	-	-
2	mortar	99	black	2	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		<b>&lt;=1%</b>	-	-	-	-	-
<b>Fiber Identification:</b>					cellulose fiber					

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext		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 dilute HCl acid. Procedure: dissolution of matrix using solvent.

**Sample** ACM-09A **Lab Number** 2012-02433- 23 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Cementitious **Non-fibrous Solid**  
**Homogeneous** Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3  
**Non-Fibrous Components (in approx. decreasing order):** powder, rock,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	block	100	gray	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		<b>n.d.</b>	-	-	-	-	-
<b>Fiber Identification:</b>					none					

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext		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 dilute HCl acid.

**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-09B **Lab Number** 2012-02433- 24 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Cementitious **Non-fibrous Solid**  
**Homogeneous** Yes **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 9  
**Non-Fibrous Components (in approx. decreasing order):** powder, rock,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1.5	pink	1	n.d.	-	-	-	-	-
2	texture/joint compound	0.5	white	3	<=1%	-	-	-	-	-
3	block	98	gray	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		<=1%	-	-	-	-	-
<b>Fiber Identification:</b>					chrysotile asbestos					

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per	
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	pb/r	1.556 1.549	
2													
3													
4													
5													
6													

**Sample Analytical Note**  
 Procedure: teased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid. Note: sample size of texture was too small - analysis may not be representative of whole. Not enough texture to point-count.

**Sample** ACM-09C **Lab Number** 2012-02433- 25 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Cementitious **Non-fibrous Solid**  
**Homogeneous** Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3  
**Non-Fibrous Components (in approx. decreasing order):** powder, rock,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	block	100	gray	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-
<b>Fiber Identification:</b>					none					

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

**Sample Analytical Note**  
 Procedure: teased apart using forceps. Procedure: dissolution of matrix using dilute HCl acid.

**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-10A **Lab Number** 2012-02433- 26 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Miscellaneous **Non-fibrous Solid**  
**Homogeneous** No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 6  
**Non-Fibrous Components (in approx. decreasing order):** powder, rock,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	brick	10	red	1	n.d.	-	-	-	-	-
2	mortar	90	black	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-

**Fiber Identification:** none

Fibers								Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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 cementitious components using acid.

**Sample** ACM-10B **Lab Number** 2012-02433- 27 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Miscellaneous **Non-fibrous Solid**  
**Homogeneous** Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3  
**Non-Fibrous Components (in approx. decreasing order):** powder, rock,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	brick	100	red	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-

**Fiber Identification:** none

Fibers								Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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 cementitious components using acid.

**Sample** ACM-10C **Lab Number** 2012-02433- 28 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Miscellaneous **Non-fibrous Solid**  
**Homogeneous** No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 6  
**Non-Fibrous Components (in approx. decreasing order):** powder, rock,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	block	65	black	1	n.d.	-	-	-	-	-
2	mortar	35	gray	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-

**Fiber Identification:** none

Fibers								Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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 cementitious components using acid.



**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-11A **Lab Number** 2012-02433- 29 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Adhesive/caulk **Non-fibrous Solid**  
**Homogeneous** No **# Layers** 2 **Pos Layer?** Yes **# Sub-Samples** 6  
**Non-Fibrous Components (in approx. decreasing order):** bitumen, filler, polymer

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	10	white	1	n.d.	-	-	-	-	-
2	caulk	90	black	1	5-10%	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		5-10%	-	-	-	-	-

**Fiber Identification:** chrysotile asbestos

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per	
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	pb/r	1.556	1.549
2													
3													
4													
5													
6													

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

**Sample** ACM-11B **Lab Number** 2012-02433- 30 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Adhesive/caulk **Non-fibrous Solid**  
**Homogeneous** No **# Layers** 2 **Pos Layer?** No **# Sub-Samples** 6  
**Non-Fibrous Components (in approx. decreasing order):** bitumen, filler, polymer

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	sealant	10	white	1	n.d.	-	-	-	-	-
2	caulk	90	black	1	5-10%	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		5-10%	-	-	-	-	-

**Fiber Identification:** cellulose fiber

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	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** ACM-11C **Lab Number** 2012-02433- 31 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Adhesive/caulk **Non-fibrous Solid**  
**Homogeneous** Yes **# Layers** 1 **Pos Layer?** Yes **# Sub-Samples** 3  
**Non-Fibrous Components (in approx. decreasing order):** bitumen, filler, polymer

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	caulk	100	black	1	5-10%	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		5-10%	-	-	-	-	-

**Fiber Identification:** chrysotile asbestos

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per	
1	chrysotile asbestos	W	A	N	N	L	+	P	1.550	vb/g	pb/r	1.556	1.549
2													
3													
4													
5													
6													

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

**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-12A **Lab Number** 2012-02433- 32 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Roofing **Fibrous Solid**  
**Homogeneous** Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3  
**Non-Fibrous Components (in approx. decreasing order):** filler, bitumen, rock

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	roofing roll/shingle	100	black	1	5-10%	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		5-10%	-	-	-	-	-
<b>Fiber Identification:</b>					synthetic fiber (extr)					

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per	
1	synthetic fiber (extruded)	W	E	N	N	H	+	P					
2													
3													
4													
5													
6													

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

**Sample** ACM-12B **Lab Number** 2012-02433- 33 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Roofing **Fibrous Solid**  
**Homogeneous** No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 9  
**Non-Fibrous Components (in approx. decreasing order):** filler, bitumen, rock

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	roofing roll/shingle	85	black	1	5-10%	n.d.	-	-	-	-
2	mastic	1	black	1	n.d.	n.d.	-	-	-	-
3	roof ply	14	black	1	n.d.	10-20%	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		5-10%	2-5%	-	-	-	-
<b>Fiber Identification:</b>					synthetic fiber (extr) glass fiber					

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bi	Elg	Ext	Oil	Col Par	Col Per	RI Par	RI Per	
1	synthetic fiber (extruded)	W	E	N	N	H	+	P					
2	glass fiber	CL	D	Y									
3													
4													
5													
6													

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

**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-12C **Lab Number** 2012-02433- 34 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Roofing **Fibrous Solid**  
**Homogeneous** No **# Layers** 3 **Pos Layer?** No **# Sub-Samples** 9  
**Non-Fibrous Components (in approx. decreasing order):** filler, bitumen, rock

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	paint	1	silver	1	2-5%	n.d.	-	-	-	-
2	roofing roll/shingle	97	black	1	n.d.	5-10%	-	-	-	-
3	mastic	2	black	1	n.d.	n.d.	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		<=1%	5-10%	-	-	-	-
<b>Fiber Identification:</b>					cellulose fiber	synthetic fiber (extr)				

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bl	Elg	Ext		Oil	Col Par	Col Per	RI Par	RI Per
1	cellulose fiber	W	F	N	N	H	+	U					
2	synthetic fiber (extruded)	W	E	N	N	H	+	P					
3													
4													
5													
6													

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

**Sample** ACM-13A **Lab Number** 2012-02433- 35 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Sprayed Material **Non-fibrous Solid**  
**Homogeneous** Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3  
**Non-Fibrous Components (in approx. decreasing order):** polymer foam, powder,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	spray-on ceiling	100	white	4	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-
<b>Fiber Identification:</b>					none					

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bl	Elg	Ext		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 dilute HCl acid.

**Sample** ACM-13B **Lab Number** 2012-02433- 36 **Sampled:** 3/7/2012 **Condition:** acceptable  
**Analyzed By** DMS 3/12/2012 **An?** OK **Apparent Smp Type** Sprayed Material **Non-fibrous Solid**  
**Homogeneous** Yes **# Layers** 1 **Pos Layer?** No **# Sub-Samples** 3  
**Non-Fibrous Components (in approx. decreasing order):** polymer foam, powder,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	spray-on ceiling	100	white	4	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>		n.d.	-	-	-	-	-
<b>Fiber Identification:</b>					none					

Fibers									Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bl	Elg	Ext		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 dilute HCl acid.

**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-13C      **Lab Number** 2012-02433- 37      **Sampled:** 3/7/2012      **Condition:** acceptable  
**Analyzed By** DMS    3/12/2012      **An?** OK      **Apparent Smp Type** Sprayed Material      **Non-fibrous Solid**  
**Homogeneous** Yes      **# Layers** 1      **Pos Layer?** No      **# Sub-Samples** 3  
**Non-Fibrous Components (in approx. decreasing order):** polymer foam, powder,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	spray-on ceiling	100	white	4	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>			n.d.	-	-	-	-
<b>Fiber Identification:</b>					none					

Fibers										Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bl	Elg	Ext	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 dilute HCl acid.

**Sample** ACM-14A      **Lab Number** 2012-02433- 38      **Sampled:** 3/7/2012      **Condition:** acceptable  
**Analyzed By** DMS    3/12/2012      **An?** OK      **Apparent Smp Type** Flooring      **Non-fibrous Solid**  
**Homogeneous** No      **# Layers** 4      **Pos Layer?** No      **# Sub-Samples** 12  
**Non-Fibrous Components (in approx. decreasing order):** filler, polymer,

Layers					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	29	brown	1	n.d.	-	-	-	-	-
2	mastic	1	clear	1	n.d.	-	-	-	-	-
3	floor tile	69	white	1	n.d.	-	-	-	-	-
4	mastic	1	yellow	1	n.d.	-	-	-	-	-
<b>Total %</b>		<b>100</b>	<b>Overall %</b>			n.d.	-	-	-	-
<b>Fiber Identification:</b>					none					

Fibers										Refractive Index Determinations				
#	Color	Mrph	Iso	Pleo	Bl	Elg	Ext	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.

**PLM Analysis Details**

**Job Number: 201202433 122783 / Moapa Admin Building**

**Sample** ACM-14B      **Lab Number** 2012-02433- 39      **Sampled:** 3/7/2012      **Condition:** acceptable  
**Analyzed By** DMS    3/12/2012      **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					Percents of Each Fiber					
#	Layer Type	%	Color	Friability	Fib 1	Fib 2	Fib 3	Fib 4	Fib 5	Fib 6
1	floor tile	99	brown	1	n.d.	-	-	-	-	-
2	mastic	1	clear	1	n.d.	-	-	-	-	-
<b>Total %</b>		100	<b>Overall %</b>		n.d.	-	-	-	-	-

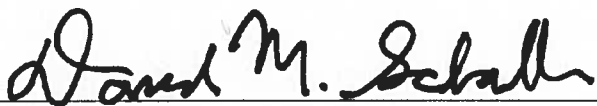
**Fiber Identification:** none

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.

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:** DAVID M. SCHALLER

Printed: 12-Mar-12

Original Print Date: 12-Mar-12



Larry S. Pierce, Approved Accreditation Signatory



**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) <b>Kleinfelder</b>	
Address <b>6380 S. Polaris Avenue</b>	
City, State, Zip Code <b>Las Vegas, NV 89118</b>	
Phone <b>702-736-2936</b>	FAX <b>702-361-9094</b>
Email <b>dburns@kleinfelder.com</b>	

Invoice to (Company) <b>Kleinfelder</b>	
Address <b>6380 S. Polaris Avenue</b>	
City, State, Zip Code <b>Las Vegas, NV 89118</b>	
Phone <b>702-260-5603</b>	FAX <b>702-361-9094</b>

Contact (print) <b>Daniel Burns</b>
Sampled by (signature) <i>Daniel Burns</i>
Job Number or Project Name <b>122783/ Moapa Admin Building</b>
PO Number <b>122783</b>

Asbestos by PLM	Improved <input checked="" type="checkbox"/> Interim <input type="checkbox"/>	< 8 hrs	1-3 days	15-30 days
	Analyze <input checked="" type="checkbox"/> All <input type="checkbox"/> ATPF			
	If so then by Layer <input type="checkbox"/> or Sample <input type="checkbox"/>			
Fibers by PCM	7400(Area) <input type="checkbox"/> ORM (Personal) <input type="checkbox"/>	< 4 hr	24hr	3-5d
Asbestos by TEM	AIR: AHERA <input type="checkbox"/> Mod. AHERA <input type="checkbox"/>	< 8hr	24 hr	3-5d
	Water*: Water <input type="checkbox"/> Sludge <input type="checkbox"/>	1-2d	3-5d	N/A
	Annex2: Chatfield <input type="checkbox"/> Full <input type="checkbox"/>			
	Vacuum Dust (ASTM)	3-5d	5-10d	N/A
Pb by FLAA	Analyte: Pb Other	< 8 hrs	2-3 days	N/A
	Matrix: Filter: MCE <input type="checkbox"/>			
	Paint: by Area <input type="checkbox"/>			
	Soil <input type="checkbox"/>			
	Wipe <input type="checkbox"/>			
Initial here certifying wipes used are ASTM E1782 compliant <input type="checkbox"/>				
Fungi	Air Sample: Zel <input type="checkbox"/> Aller <input type="checkbox"/> Oth <input type="checkbox"/>	< 8 hrs	1-2 days	N/A
	ID/Count: Bulk <input type="checkbox"/> Swab <input type="checkbox"/>			
	Tape: Qual (%) <input type="checkbox"/>			
	Tape: Quant (cm2) <input type="checkbox"/>			
Other				
Dust	NIOSH 500 <input type="checkbox"/>	< 4hr	24h	N/A
Other		Call	Call	

Sample Number	Description/Location	Sample Date	Sample Time	Vol/Area
1) ACM-01A	12"x12" white floor tile / Great hall	3/7/12		
2) ACM-01B	12"x12" white floor tile / Janitor closet			
3) ACM-01C	12"x12" white floor tile / Kitchen			
4) ACM-02A	12"x12" Brown floor tile / Great hall			
5) ACM-02B	12"x12" Brown floor tile / Great hall			
6) ACM-02C	12"x12" Brown floor tile / Kitchen			
7) ACM-03A	Cove mastic / Great hall			
8) ACM-03B	Cove mastic / Hallway			
9) ACM-03C	Cove mastic / Janitor closet			
10) ACM-04A	12"x12" ceiling tile / Great hall			
11) ACM-04B	12"x12" ceiling tile / Great hall			
12) ACM-04C	12"x12" ceiling tile / Great hall			
13) ACM-05A	wall paper & mastic / hallway			
14) ACM-05B	wall paper & mastic / front office			
15) ACM-05C	wall paper & mastic / hallway			
16) ACM-06A	text. wall; int comp; wall; chp/ma office			
17) ACM-06B	text wall; int comp; wall; store			
18) ACM-06C	text wall; int comp; wall; janit. closet	3/7/12		
19)				
20)				

1) Relinquished by <i>Dan Burns</i>	Date <i>3/8/12</i>	Time <i>9:00</i>	3) Relinquished by: <b>UPS Airbill</b>	Date <i>3/9/12</i>	Time:
2) Received by: <b>UPS Airbill</b>	Date <i>3/8/12</i>	Time <i>9:00</i>	4) Received by: <i>Kathy Knowles</i>	Date <i>3-9-12</i>	Time: <i>7:22</i>
* TEM Water Sampler's name Required by State of Arizona		Print Name			

UPS

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.

201202433

# 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) <b>Kleinfelder</b>	
Address <b>6380 S. Polaris Avenue</b>	
City, State, Zip Code <b>Las Vegas, NV 89118</b>	
Phone <b>702-736-2936</b>	FAX <b>702-361-9094</b>
Email <b>dburns@kleinfelder.com</b>	

Invoice to (Company) <b>Kleinfelder</b>	
Address <b>6380 S. Polaris Avenue</b>	
City, State, Zip Code <b>Las Vegas, NV 89118</b>	
Phone <b>702-260-5603</b>	FAX <b>702-361-9094</b>

Contact (print) <b>Daniel Burns</b>	
Sampled by (signature) <i>Daniel Burns</i>	
Job Number or Project Name <b>122783/ Moapa Admin Building</b>	
PO Number <b>122783</b>	

Asbestos by PLM	Improved <input checked="" type="checkbox"/> Interim <input type="checkbox"/>	<6 hrs	1-3 days	15-30 days
	Analyze <input checked="" type="checkbox"/> A) <input type="checkbox"/> ATPF If so then by Layer <input type="checkbox"/> or Sample <input type="checkbox"/> Single Layer Protocol: Yes <input type="checkbox"/> No <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fibers by PCM	7400(Area) <input type="checkbox"/> ORM (Personal) <input type="checkbox"/>	<4 hr	24hr	3-6d
Asbestos by TEM	AIR: AHERA <input type="checkbox"/> Mod. AHERA <input type="checkbox"/>	<8hr	24 hr	3-6d
	Water*: Water <input type="checkbox"/> Sludge <input type="checkbox"/>	1-2d	3-6d	N/A
	Annex2: Chatfield <input type="checkbox"/> Full <input type="checkbox"/>			
	Vacuum Dust (ASTM)	3-5d	5-10d	N/A
Pb by FLAA	Analys: Pb Other	<8 hrs	2-3 days	N/A
	Matrix: Filter: MCE <input type="checkbox"/>			
	Paint: by Area <input type="checkbox"/> by Weight <input type="checkbox"/>			
	Soil <input type="checkbox"/> Wipe <input type="checkbox"/>			
	Initial here certifying wipes used are ASTM E1782 compliant <input type="checkbox"/>			
Fungi	Air Sample: Zef <input type="checkbox"/> Aller <input type="checkbox"/> Oth <input type="checkbox"/>	<6 hrs	1-2 days	N/A
	ID/Count: Bulk <input type="checkbox"/> Swab <input type="checkbox"/>			
	Tape: Qual (%) <input type="checkbox"/>			
	Tape: Quant (cm2) <input type="checkbox"/>			
	Other			
Dust	NIOSH 500 <input type="checkbox"/>	<4hr	24h	N/A
Other		Call	Call	

Sample Number	Description/Location <small>Exclude non-hazardous Data</small>	Sample Date	Sample Time	Vol/Area
19	4) ACM-07A Attic insulation	3/7/12		
20	2) ACM-08A grey tile mortar / office wall			
21	2) ACM-08B grey tile mortar / foyer			
22	4) ACM-08C grey tile mortar / wall threshold			
23	5) ACM-09A exterior Block wall / front entry			
24	5) ACM-09B exterior Block wall / Front entry			
25	7) ACM-09C exterior Block wall / side entry			
26	10) ACM-10A clay paver & grout mortar			
27	10) ACM-10B clay paver			
28	10) ACM-10C clay paver & grout mortar			
29	11) ACM-11A Roof penetration mastic			
30	12) ACM-11B roof penetration mastic			
31	13) ACM-11C roof penetration mastic			
32	20) ACM-12A composite roof & mastic			
33	20) ACM-12B composite roof & mastic			
34	10) ACM-12C composite roof & mastic			
35	17) ACM-13A white spray texture - ceiling / foyer			
36	18) ACM-13B white spray texture - ceiling / office			
37	19) ACM-13C white spray texture - ceiling / store	3/7/12		
20)				

1) Relinquished by: <i>Daniel Burns</i>	Date: <i>3/8/12</i>	Time: <i>00</i>	3) Relinquished by: <b>UPS Airbill</b>	Date: <i>3/8/12</i>	Time: <i>00:00</i>
2) Received by: <b>UPS Airbill</b>	Date: <i>3/8/12</i>	Time: <i>400</i>	4) Received by: <i>Kathy Kinler</i>	Date: <i>3-9-12</i>	Time: <i>1:22</i>
* TEM Water Sampler's name Required by State of Arizona		Print Name			

Review of Analysis Request (Initials) \_\_\_\_\_

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201202433

# FIBERQUANT

## ANALYTICAL SERVICES

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Email <b>dburns@kleinfelder.com</b>	

Invoice to (Company) <b>Kleinfelder</b>	
Address <b>6380 S. Polaris Avenue</b>	
City, State, Zip Code <b>Las Vegas, NV 89118</b>	
Phone <b>702-260-5603</b>	FAX <b>702-361-9094</b>

Contact (print) <b>Daniel Burns</b>	
Sampled by (signature) <i>Daniel Burns</i>	
Job Number or Project Name <b>122783/ Moapa Admin Building</b>	
PO Number <b>122783</b>	

		Asbestos	Fibers	Pb	Fungi	Dust	Other				
Asbestos by PLM	Improved <input checked="" type="checkbox"/> Interim <input type="checkbox"/>	<6 hrs <input type="checkbox"/>	<4 hr <input type="checkbox"/>	<6 hrs <input type="checkbox"/>	<6 hrs <input type="checkbox"/>	<4 hr <input type="checkbox"/>	Call				
	Analyze <input checked="" type="checkbox"/> AD <input type="checkbox"/> ATPF							1-3 days <input checked="" type="checkbox"/>	24hr <input type="checkbox"/>	3-5d <input type="checkbox"/>	15-30 days <input type="checkbox"/>
	If so then by Layer <input type="checkbox"/> or Sample <input type="checkbox"/> Single Layer Protocol: Yes <input type="checkbox"/> No <input type="checkbox"/>										
Fibers by PCM	7400(Area) <input type="checkbox"/> ORM (Person) <input type="checkbox"/>										
Asbestos by TEM	AIR: AHERA <input type="checkbox"/> Mod. AHERA <input type="checkbox"/>	<6hr <input type="checkbox"/>	24hr <input type="checkbox"/>	3-5d <input type="checkbox"/>							
	Water*: Water <input type="checkbox"/> Sludge <input type="checkbox"/>	1-2d <input type="checkbox"/>	3-5d <input type="checkbox"/>	N/A							
	Annex2: Chatfield <input type="checkbox"/> Full <input type="checkbox"/>										
	Vacuum Dust (ASTM)	3-5d <input type="checkbox"/>	5-10d <input type="checkbox"/>	N/A							
Pb by FLAA	Analyst: Pb Other	<6 hrs <input type="checkbox"/>	<6 hrs <input type="checkbox"/>	2-3 days <input type="checkbox"/>	N/A						
	Matrix: Filter: MCE <input type="checkbox"/>										
	Paint: by Area <input type="checkbox"/>										
	by Weight <input type="checkbox"/>										
	Soil <input type="checkbox"/>										
Wipe <input type="checkbox"/>											
Initial here certifying wipes used are ASTM E1782 compliant <input type="checkbox"/>											
Fungi	Air Sample: Zef <input type="checkbox"/> Alter <input type="checkbox"/> Oth <input type="checkbox"/>	<6 hrs <input type="checkbox"/>	1-2 days <input type="checkbox"/>	N/A							
	ID/Count: Bulk <input type="checkbox"/> Swab <input type="checkbox"/>										
	Tape: Qual (%) <input type="checkbox"/>										
	Tape: Quant (cm2) <input type="checkbox"/>										
Other											
Dust	NIOSH 500 <input type="checkbox"/>	<4hr <input type="checkbox"/>	24h <input type="checkbox"/>	N/A							
Other		Call	Call								

Sample Number	Description/Location (include year, building, room, date)	Sample Date	Sample Time	Vol/Area
38 39 TACM-14A	multi colored floor tile w/mastic/stone	3/7/12		
TACM-14B	multi colored floor tile w/mastic/stone	3/7/12		
3)				
4)				
5)				
6)				
7)				
8)				
9)				
10)				
11)				
12)				
13)				
14)				
15)				
16)				
17)				
18)				
19)				
20)				

1) Relinquished by: <i>Daniel Burns</i>	Date: <i>3/8/12</i>	Time: <i>4:00</i>	3) Relinquished by: <b>UPS Airbill</b>	Date: <i>3/8/12</i>	Time: <i>4:00</i>
2) Received by: <b>UPS Airbill</b>	Date: <i>3/8/12</i>	Time: <i>4:00</i>	4) Received by: <i>Kathy Knauer</i>	Date: <i>3-9-12</i>	Time: <i>1:22</i>
* 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.

201202433



# **APPENDIX F**

## **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 ( $\text{mg}/\text{cm}^2$ ) lead, or 0.5 percent lead by weight (% by weight), which is equivalent to 5,000 milligrams per kilogram ( $\text{mg}/\text{kg}$ ) 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 ( $\mu\text{g}/\text{m}^3$ ) of air averaged over an 8-hour time period. In addition to the PEL, there is also an action level of 30  $\mu\text{g}/\text{m}^3$  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  $\mu\text{g}/\text{m}^3$ ). 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 ( $500 \mu\text{g}/\text{m}^3$ ). 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 ( $2,500 \mu\text{g}/\text{m}^3$ ). Class III tasks include abrasive blasting, cutting, welding, and torch burning.

# **APPENDIX G**

## **LEAD BASED PAINT ANALYTICAL LABORATORY REPORTS**



**Atomic Absorption Spectrometer (AAS) Analysis of Paint**

**JobNumber:** 201202434

**Client:** KLEINFELDER INC

6380 S POLARIS AVE

LAS VEGAS, NV 89118-3821

Office Phone: (702) 736-2936

FAX: (702) 361-9094

**# Samples:** 7    **AA Rec:** 3/9/2012    **Method:** Modified SW 846 3050b/7420    **Pb in paint by weight AA Analysis**  
**Client Job:** 122783 / Moapa Admin Building    **PO Number:** 122783  
**Report Date:** 3/14/2012    **Date Analyzed:** 3/14/2012    **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 capped 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**

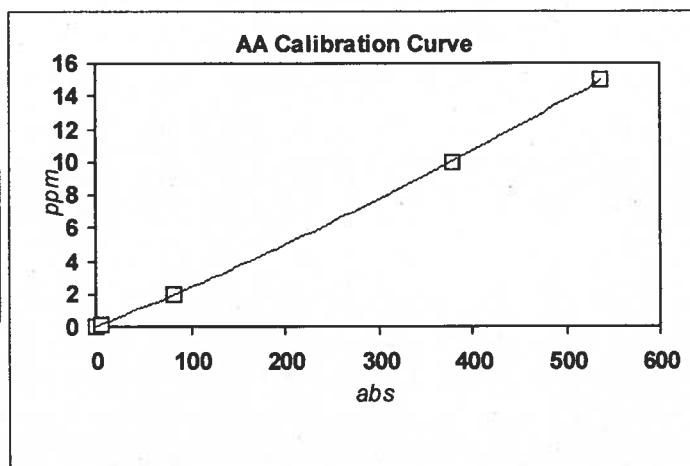
**Run # 8453**

**Instrument: M5**

**3/13/2012**

Standards:	ppm	avg. mAbs.
1	0.13	5
2	2	82
3	10	379
4	15	538

ax2 0.00000902  
 bx 0.02297475  
 c 0.01945234  
 R2 0.99998742



**Analysis Results:**

Job Number: 201202434

AApw

Lab Number	Client Number	Date	Condition	Weight (gm)	ug/ml	ml	Dil	Analyte	wt %	ppm	RL(ppm)
2012-02434- 1	LBP-01	3/7/2012	acceptable	0.2179	0.01945	25	1	Pb	<0.0015	<15	15
2012-02434- 2	LBP-02	3/7/2012	acceptable	0.2107	0.1115	25	1	Pb	<0.0015	<15	15
2012-02434- 3	LBP-03	3/7/2012	acceptable	0.2013	0.04244	25	1	Pb	<0.0016	<16	16
2012-02434- 4	LBP-04	3/7/2012	acceptable	0.2131	5.75369	25	1	Pb	0.067	670	15
2012-02434- 5	LBP-05	3/7/2012	acceptable	0.2562	0.06544	25	1	Pb	<0.0013	<13	13
2012-02434- 6	LBP-06	3/7/2012	acceptable	0.2442	0.48256	25	1	Pb	0.0049	49	13
2012-02434- 7	LBP-07	3/7/2012	acceptable	0.2129	0.01945	25	1	Pb	<0.0015	<15	15

*Martin Esquer*

**Analyst: MARTIN A. ESQUER**

Printed: 14-Mar-12

Original Print Date: 14-Mar-12

*Larry S. Pierce*

Larry S. Pierce, Approved Accreditation Signatory

# FIBERQUANT

## ANALYTICAL SERVICES

**Fiberquant Analytical Services** 5025 S. 33<sup>rd</sup> St.;  
 Phoenix, AZ 85040; Phone: 602-276-6139; FAX: 602-276-4558;  
 info@fiberquant.com

### Analysis Request/Chain-of-Custody Form

Submitted by (Company) <b>Kleinfelder</b>	
Address <b>6380 S. Polaris Avenue</b>	
City, State, Zip Code <b>Las Vegas, NV 89118</b>	
Phone <b>702-736-2936</b>	FAX <b>702-361-9094</b>
Email <b>dburns@kleinfelder.com</b>	
Invoice to (Company) <b>Kleinfelder</b>	
Address <b>6380 S. Polaris Avenue</b>	
City, State, Zip Code <b>Las Vegas, NV 89118</b>	
Phone <b>702-260-5603</b>	FAX <b>702-361-9094</b>
Contact (print) <b>Daniel Burns</b>	
Sampled by (signature) <i>Daniel Burns</i>	
Job Number or Project Name <b>122783/ Moapa Admin Building</b>	
PO Number <b>122783</b>	

<b>Asbestos by PLM</b>	Improved <input type="checkbox"/> Interim <input type="checkbox"/> Analyze <input type="checkbox"/> All <input type="checkbox"/> ATPF If so then by Layer <input type="checkbox"/> or Sample <input type="checkbox"/> Single Layer Protocol: Yes <input type="checkbox"/> No <input type="checkbox"/>	<6 hrs <input type="checkbox"/>	1-3 days <input type="checkbox"/>	15-30 days <input type="checkbox"/>
<b>Fibers by PCM</b>	7400(Area) <input type="checkbox"/> ORM (Personal) <input type="checkbox"/>	<4 hr <input type="checkbox"/>	24hr <input type="checkbox"/>	3-5d <input type="checkbox"/>
<b>Asbestos by TEM</b>	AIR: AHERA <input type="checkbox"/> Mod. AHERA <input type="checkbox"/>	<6hr <input type="checkbox"/>	24 hr <input type="checkbox"/>	3-5d <input type="checkbox"/>
	Water*: Water <input type="checkbox"/> Sludge <input type="checkbox"/>	1-2d <input type="checkbox"/>	3-5d <input type="checkbox"/>	N/A
	Annex 2: Chatfield <input type="checkbox"/> Full <input type="checkbox"/>			
	Vacuum Dust (ASTM)	3-5d <input type="checkbox"/>	5-10d <input type="checkbox"/>	N/A
<b>Pb by FLAA</b>	Analyte: Pb Other <input type="checkbox"/> Matrix: Filter: MCE <input type="checkbox"/> Paint: by Area <input type="checkbox"/> by Weight <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Wipe <input type="checkbox"/> <small>Initial here certifying wipes used are ASTM E1782 compliant <input type="checkbox"/></small>	<6 hrs <input type="checkbox"/>	2-3 days <input checked="" type="checkbox"/>	N/A
<b>Fungi</b>	Air Sample: Zef <input type="checkbox"/> Aher <input type="checkbox"/> Oth <input type="checkbox"/>	<6 hrs <input type="checkbox"/>	1-2 days <input type="checkbox"/>	N/A
	ID/Count: Bulk <input type="checkbox"/> Swab <input type="checkbox"/>			
	Tape: Quant (%) <input type="checkbox"/> Tape: Quant (cm2) <input type="checkbox"/>			
	Other			
<b>Dust</b>	NIOSH 500 <input type="checkbox"/>	<4hr <input type="checkbox"/>	24h <input type="checkbox"/>	N/A
<b>Other</b>		Call <input type="checkbox"/>	Call <input type="checkbox"/>	

Sample Number	Description/Location (include user location when Data)	Sample Date	Sample Time	Vol/Area	
1) LBP-01	Black tile glaze / OFFICE Hall	3/7/2012			
2) LBP-02	grey interior window caulk / <i>Living Room</i>	↓			
3) LBP-03	black exterior window caulk / <i>Office</i>				
4) LBP-04	green painted exterior window caulk				
5) LBP-05	white paint - exterior				
6) LBP-06	Brown paint - exterior				
7) LBP-07	green paint - exterior		3/7/2012		
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					
16)					
17)					
18)					
19)					
20)					

1) Relinquished by: <i>DBurns</i>	Date: 3/8/2012	Time: 1:00	3) Relinquished by: UPS Airbill	Date: 3/8/2012	Time:
2) Received by: UPS Airbill	Date: 3/9/12	Time:	4) Received by: <i>Randy K...</i>	Date: 3-9-12	Time: 1:23
* TEM Water: Sampler's name Required by State of Arizona	Print Name				

UPS

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.

201202434