



**PHASE I ENVIRONMENTAL
SITE ASSESSMENT
Parcel 3, Bullfrog Mine
Barrick Bullfrog Inc.
Highway 374 West, Beatty, Nevada**

Prepared for:
Barrick Bullfrog Inc.
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Figure 1	Site Vicinity Map
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APPENDICES

Appendix A	Site Photographs
Appendix B	Environmental Data Resources, Inc. (EDR) Report
Appendix C	Historic Reports and Information (under separate cover)

This report presents the results of a Phase I Environmental Site Assessment (ESA) for the property identified as Parcel 3 located at the Bullfrog Mine on Highway 374 West located west of Beatty, Nevada. This parcel had four buildings located on it at the time this ESA was conducted. These buildings included the former Truck Shop (BEDC1), Warehouse (BEDC2), Mill Maintenance Shop (BEDC3), and Switch Gear House (BEDC4). A site vicinity map for the site is shown on Figure 1 and the site plan is shown on Figure 2. A map of the building locations on Parcel 3 is provided in the historical information in the Appendix. The ESA objectives, scope, and limitations are presented in the following sections.

URS understands that on October 2, 2000, a land exchange occurred between Barrick Bullfrog Inc. and the U.S. Bureau of Land Management (BLM) giving Barrick Tract 37 (Parcel 1) located south of Highway 374 and Parcels 2 and 3 located north of Highway 374 for property owned by Barrick in the ghost town of Rhyolite. Currently Barrick Bullfrog Inc. owns Parcels 1, 2 and 3. Barrick Bullfrog Inc. hired URS to conduct this Phase I ESA of Parcel 3 to satisfy a commitment Barrick made to the State of Nevada and the Beatty Economic Development Corporation (BEDC) regarding clean closure of the site in preparation for donating Parcel 3 to the BEDC.

1.1 OBJECTIVE

The objective of the ESA was to evaluate whether current or historical activities on or adjacent to the subject property may have resulted in significant contamination by hazardous materials or wastes, which is subsequently referred to in this report as a "Recognized Environmental Condition." A Recognized Environmental Condition (REC) is defined by ASTM as:

"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, groundwater 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 material risk of harm to public 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."

1.2 PURPOSE AND SCOPE OF SERVICES

This ESA was conducted in general conformance with the methods and procedures described in the American Society for Testing and Materials (ASTM) "*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*" (Standard Designation E 1527-00), published June 2000 and in accordance with URS Corporation's (URS) proposal to Mr. Dan Kump, Senior Project Engineer with Barrick Bullfrog Inc. dated May 8, 2002. Our approach is designed to satisfy one portion of the due diligence provision associated with the "innocent purchaser" defense, as set out in the 1986 Superfund Amendments and Re-authorization Act (SARA), 40 USC 9601 (35).

The ESA includes the main components and several secondary components of the *ASTM Standards in Environmental Site Assessments* (E 1527-00). A summary of our scope of services includes the following tasks:

- Review recent lists compiled by federal and state agencies that identify sites with known or suspected contamination, and facilities which handle hazardous substances or wastes.
- Perform a site reconnaissance of the property and surrounding areas, including (if possible) interviews with designated personnel knowledgeable about the property. (Photographs from the site reconnaissance can be found in Appendix A.)
- Evaluate environmental conditions at the site, if warranted, by reviewing relevant public records and permits that might be available from agencies such as the Nevada Division of Environmental Protection (NDEP), County Health Department, and possibly other government offices. Review of documentation provided by Barrick Bullfrog Inc.
- Prepare a written report, including a discussion of findings, site vicinity map (Figure 1), site plan (Figure 2), site photographs (Appendix A), historical data (Appendix B), regulatory search data (EDR Report, Appendix C), and conclusions as appropriate. The report is to be signed by a Nevada Certified Environmental Manager.

1.3 LIMITING CONDITIONS

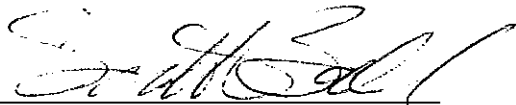
Information about historical land use for the subject property and the surrounding area is obtained primarily from review and interpretation of available historic aerial photographs and archival United States Geological Survey (USGS) topographic maps. The parcel was developed for mining in late 1988 and the mine was opened for processing gold ore in 1989. Prior to this the site was undeveloped native desert land. Historic data such as topographical maps and aerial

photographs are only available back to mid 1980s. Therefore these records for the subject site are reasonably ascertainable (as defined in the ASTM Standard) dating back to mid 1980s. The Standard states that it is still necessary to confirm that the property was undeveloped desert land back to 1940. Historic information for the property beyond the mid 1980s is not reasonably ascertainable. Based on our knowledge the area of the subject property was initially owned by the U.S. Government and managed by the BLM. Much of the surrounding land is still managed by the BLM. In our professional opinion, historic information from the mid 1980s to 1940 for the subject property is not reasonably ascertainable nor would it impact or findings or conclusions. Historic city directory listings, and county assessor records for the property are not available and therefore not reasonably ascertainable.

1.4 CERTIFIED ENVIRONMENTAL MANAGER STATEMENT

The following statement is required by NDEP for Environmental Managers who practice in Nevada:

I, Scott Ball, 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.



Scott Ball

Certified Environmental Manager No. 1316

(Expires October 15, 2003)

2.0 PHYSICAL ENVIRONMENTAL SETTING

2.1 TOPOGRAPHIC SETTING

The subject site is located in Township 12 South, Range 46 East, in Nye County, Nevada (Figure 1), latitude 36° 53', and longitude 116° 49'. Topographic map coverage for this area is provided by the U.S. Geological Survey's Beatty map (USGS, 1987). The property is located west of Beatty, Nevada along Highway 374 at an elevation of approximately 3,360 feet above mean sea level. There is little topographic relief on the parcel but there are mountains located north of the site. The ground surface slopes to the south.

2.2 CLIMATE

Southern Nevada is characterized by a dry climate with hot summers and cool winters. Prevailing winds are from the southwest. The climate ranges from arid on the valley floors to semi-arid in the higher mountains. Rainfall generally occurs during low-intensity, regional-scale storms in the winter and in brief, locally intense summer thunderstorms. Historical records indicate that precipitation in the Beatty area averages only about 4.6 inches per year (National Oceanic and Atmospheric Administration, 1999). The rate of evapotranspiration at the site is approximately 122 inches per year which far exceeds precipitation in southern Nevada. The average snow fall in the area is approximately 3.3 inches which generally occurs in January (NOAA, 1999)..

2.3 GEOLOGIC SETTING

The Bullfrog Mine is located within the Basin and Range Tectonic Province. The southern Bullfrog Hills are mainly composed of a thick sequence of Tertiary volcanic rocks erupted from several calderas near Timber Mountain, to the east of the Bullfrog Hills, between 15.2 and 11.5 million years ago. North striking, west-dipping normal faults have tilted and rotated much of the Tertiary volcanic section to as much as 40-90 degrees in a series of east facing blocks. These Tertiary volcanic rocks overlie lower Paleozoic sedimentary and upper Proterozoic metamorphic basement rocks.

The available information indicates that local geologic formations are not a source of radon gas. Based on a data file search (Environmental Data Resources, Inc.) a Federal EPA radon survey found that structures sampled in Nye County did not exceed the EPA action level of 4 pCi/L. These data suggest that radon is not a significant environmental issue in the Beatty area.

2.4 HYDROGEOLOGIC SETTING

Groundwater occurs in hydraulically distinct fractured bedrock and basin-fill alluvial aquifers within the upper Amargosa Desert hydrographic basin, in which the Bullfrog Mine is located. Bedrock

aquifers include Tertiary volcanic and Paleozoic to Precambrian metasedimentary formations. Fractured rock flow systems, which allow inter-basin groundwater flow to occur, are structurally juxtaposed against the Amargosa Desert alluvial aquifer, which is characterized by intra-basin flow. Groundwater in the vicinity of the site ranges from 200-600 feet below ground surface. Groundwater flow gradients in the bedrock and alluvial aquifers are generally to the southeast (Barrick Bullfrog, 2000)

3.0 CURRENT SITE CONDITIONS

3.1 INTRODUCTION

URS Las Vegas office performed a reconnaissance of the subject property on August 20, 2002. The visit included a walking inspection of the property and buildings located on Parcel 3 of the former Mine. Photographs taken during the reconnaissance are presented in Appendix A. URS met with Mr. Dan Kump, Senior Project Engineer with Barrick Mining Inc. who also accompanied URS on the site reconnaissance. Mr. Kump provided URS with reports and other documentation that is discussed in this section and Section 5.0.

At the time of the site reconnaissance a total of four buildings were present on Parcel 3. These buildings include the former Truck Shop (BEDC1), Warehouse (BEDC2), Mill Maintenance Shop (BEDC3), and Switch Gear House (BEDC4).

3.2 HAZARDOUS SUBSTANCES, PETROLEUM PRODUCTS AND WASTES

URS did not observe any quantities of hydrocarbons, hazardous materials, hazardous chemicals, hazardous wastes, or cleaning products stored on site or in the buildings with the exception of four 55-gallon drums of oil product that was located in the Warehouse (BEDC2). Mr. Kump indicated that this material was ready to be shipped off site and that arrangements were being made. No visible evidence of soil staining or spills was observed.

3.3 UNDERGROUND/ABOVEGROUND STORAGE TANKS

Evidence of aboveground storage tanks for petroleum or other hazardous chemicals was not found during the site reconnaissance. Based on historical information obtained from Barrick, several above ground diesel and gasoline fuel storage tanks (AST) were located on Parcel 3, west of the Truck Shop (BEDC1) during operation of the mine. These AST were removed from the site during 2000.

3.4 PCB-CONTAINING EQUIPMENT

PCB-containing electrical equipment was not observed at the subject property. URS did observe several dry transformers inside and outside the buildings, however, these transformers do not contain PCBs. Documentation for the dry transformers is provided in Appendix C.

3.5 DRAINS AND SUMPS

URS did not find evidence of drains or sumps at the subject property.

3.6 WASTEWATER

A waste septic system below ground vault was observed north of the Truck Shop (BEDC1). Information provided by Mr. Kump indicated that the system was installed some time after mid 1989. This system served the Truck Shop located on Parcel 3. Documentation provided by Mr. Kump indicates that the system had been historically serviced by Joe's Sanitation. This septic system is permitted by the Division of Environmental Protection under the General Discharge Permit No. GNEV9201-40047.

3.7 WELLS

Wells of any type were not identified at the subject property. Based on the EDR report, two wells are located within one mile north of the site and one well is located within one mile south of the site. These three wells were used for supplying water to the mine.

3.8 PITS, PONDS, AND LAGOONS

Pits, ponds, or lagoons were not observed at the site.

3.9 ASBESTOS-CONTAINING MATERIALS

Analysis of asbestos-containing materials (ACMs) at the subject property is not included in the URS scope of work for this Phase I ESA. Barrick Bullfrog Inc had a consultant perform asbestos sampling in the four buildings located on Parcel 3. This information is discussed in section 5.0. Based on the results of these assessments no asbestos materials were identified in buildings on Parcel 3.

3.10 LEAD-BASED PAINT

Approximately two-thirds of the homes and commercial buildings built before 1940 and one-half of the homes built from 1940 to 1960 contain heavily-leaded paint. Some buildings built after 1960 also contain heavily-leaded paint. In 1978, the U.S. Consumer Product Safety Commission lowered the legal maximum lead content in most kinds of paint to 0.06% (a trace amount). Buildings constructed before the 1980s should be tested for lead before renovating or if the paint or underlying surface is deteriorating (<http://www.cpsc.gov/cpsc/pub/pubs/5054.html>). Since Barrick Bullfrog Inc. records indicate that the buildings located at Parcel 3 were constructed after 1988, the potential for lead-based paint in the building is unlikely.

3.11 OTHER UTILITIES

Currently there are no utility services available at Parcel 3 other than the existing septic system located north of building BEDC1 on Parcel 3.

4.0 SURROUNDING LAND USE

The subject site is located at the Bullfrog Mine on Highway 374 West located west of Beatty, Nevada. Parcel 3 is located near the south east corner of the former ore processing area on the north side of the Highway. The four buildings located on the parcel include former Truck Shop (BEDC1), Warehouse (BEDC2), Mill Maintenance Shop (BEDC3), and Switch Gear House (BEDC4). Parcel 3 is currently owned by Barrick Bullfrog Inc. The surrounding land includes patented and unpatented mine claims on BLM administered property. The land use adjacent to the site is as follows:

- **To the East**
Former mine site and then native desert land and Highway 374.

- **To the South**
Parcel 2, Highway 374, Barrick Bullfrog Inc. tailings ponds and reclaim ponds and then native desert land.

- **To the West**
Native desert land.

- **To the North**
Former mine and then native desert land.

5.0 HISTORICAL INFORMATION

Historical information about the Bullfrog Mine and Parcel 3 were obtained primarily from Mr. Dan Kump of Barrick Bullfrog Inc. Mr. Kump provided numerous reports and other documentation regarding the mine, permits, and remedial actions to clean up petroleum contamination at the site over that last several years. This documentation is provided in Appendix B. In addition, URS reviewed and interpreted available aerial photographs and a USGS topographic map for the site. A summary of this information is provided below.

5.1 CURRENT AND PRIOR OWNERSH

Based on information provided by Barrick Bullfrog Inc. the subject parcel was initially owned by the U.S. Government and managed by the BLM. On October 2, 2000, a land exchange occurred between Barrick Bullfrog Inc. and the BLM giving Barrick Tract 37 (Parcel 1) located south of Highway 374 and Parcels 2 and 3 located north of Highway 374 for property owned by Barrick in the ghost town of Rhyolite. Currently Barrick Bullfrog Inc. owns Parcels 1, 2 and 3.

5.2 HISTORICAL REFERENCES REVIEW

The 1987 edition of the Beatty, Nevada USGS 7.5-minute quadrangle map provided the earliest topographic map coverage for the site. This map shows the Parcel 3 as undeveloped. The map shows a road to the west of the site and several buildings located at the historic ghost town of Rhyolite northwest of Parcel 3. URS did not request or review a fifty-year chain of title for the property, nor were city directory, county or fire department records reviewed. Based on the site location and the primary regulatory agencies involved these records would not have provided any useful information.

5.3 INFORMATION PROVIDED BY BARRICK AND INTERVIEWS

Barrick Bullfrog Inc. provided several topographic maps dated January 2000 and October 2001. These maps show the location of buildings on Parcel 1 (tailings ponds south of Highway 374), Parcel 2 (adjacent to the south nearer the Highway), Parcel 3 (subject site), as well as contours, open pit mine area, mine waste areas, patented claims, roads, and drainages. Based on this information several buildings were present on Parcel 3 in the recent past. The location of these buildings appears to be consistent with information provided by Barrick Bullfrog Inc.

URS reviewed one aerial photo taken prior to 1988 and one taken in October 2001. The earlier photo did not show any operations on Parcel 3 but did show historic mine workings located north of the site. The photo also showed the Highway 374 south of the site, a dirt road to the west and buildings located

in the ghost town of Rhyolite. The October 2001 photo showed the open pit mine and waste rock north of the site, the buildings located on both Parcels 2 and 3, Highway 374, several dirt roads, and the mine tailings ponds located south of Highway 374.

The reports listed below were provided to URS by Barrick Bullfrog Inc. Some of these reports cover activities conducted only on Parcels 2 or 3. A few cover activities performed on both parcels. URS has included all these reports in this section so that all the reports provided by Barrick are listed and a summary provided.

Barrick Bullfrog Mine Final Permanent Closure Plan, October 25, 1999.: This is the final permanent closure plan for the mine. This plan discusses closure of the open pit areas, underground workings, tailings facilities and reclaim ponds, infiltration basins, overburden areas, processing facilities, ore stockpiles, ancillary facilities, and closure reporting.

Broadbent & Associates, Inc., January 10, 2000. Asbestos-Containing Building Material Survey, Barrick Bullfrog Mine, Beatty, Nevada.: Broadbent collected 66 samples of building materials from Strip Circuit, Metallurgical Lab, mill lunch room, primary crusher control room, and control room 3. Based on analytical results no asbestos was detected in any of the samples collected.

Broadbent and Associates, October 2000. Soil Characterization Report, Barrick Bullfrog Mine.: Twenty three soil borings were drilled on Parcel 3 to approximately 5- to 15-feet below ground surface to evaluate the depth and lateral extent of petroleum hydrocarbon and heavy metals contamination. Hydrocarbon contaminated soil was detected inside of the Truck Shop (Building BEDC1, Parcel 3) and at several location outside the building. Broadbent indicated that excavation of the contaminated soil was scheduled to be performed under the direction of Barrick Bullfrog Inc. personnel.

Broadbent and Associates, May, 2001. Soil Remediation Report, Barrick/Bullfrog Mine.: This report discusses remedial activities at the locations identified in Broadbent's October 2000 report. Approximately 8,504 cubic yards of hydrocarbon contaminated soil was excavated from two fueling bays areas at the former above ground storage tanks located west of the Truck Shop on Parcel 3, the lube bay area located south of the Truck Shop, and the north and south ready line areas located to the northeast and southwest, respectively, of the Truck Shop. Confirmation sampling indicated that hydrocarbon contaminated soil had been removed. Contaminated soil was stock piled on the tailings pond area located south of Highway 374.

Broadbent and Associates, July 2001. Additional Soil Remediation Report Truck Maintenance Shop, Barrick Bullfrog Mine.: This report presents the results of the excavation of approximately 1,515

cubic yards of hydrocarbon contaminated soil from inside the Truck Shop (Building BEDC1, Parcel 3). Confirmation sampling indicated that hydrocarbon contaminated soil had been removed. Hydrocarbon contaminated soil was stock piled on the tailings pond area located south of Highway 374.

Broadbent and Associates, April 2002. Administration and Employee Parking Lot Soil Excavation Barrick Bullfrog Mine Report.: This report presents the findings of soil remediation activities conducted on Parcel 2. Approximately 1,802 cubic yards of hydrocarbon contaminated soil was excavated from the Administration building (Building NPS3) parking area, the employee parking area on Parcels 2 and 3, around the Guard Shack (Building NPS1), and other localized areas. As previously, confirmation sampling indicated that hydrocarbon contaminated soil had been removed. This soil was stock piled on the tailings pond area located south of Highway 374.

Broadbent and Associates, April 2002. Warehouse and Mill Maintenance Shop Soil Excavation Report.: This report presents the findings of soil remediation activities conducted at the Warehouse (Building BEDC2) loading dock and the Mill Maintenance Shop (Building BEDC3) located on Parcel 3. Approximately 1,140 cubic yards of hydrocarbon contaminated soil was excavated. Confirmation sampling indicated that hydrocarbon contaminated soil had been removed. The soil was stock piled on the tailings pond area located south of Highway 374.

Broadbent and Associates, May 20, 2002. Final Barrick Bullfrog Mine Excavation Report, Barrick/Bullfrog Mine.: This report summarizes all the remedial activities conducted for clean up of hydrocarbon contaminated soil from Parcels 2 and 3 and discusses where and how the soil was stock piled on the tailings pond area south of Highway 374.

Broadbent & Associates, Inc., August 19, 2002. Asbestos-Containing Building Material Survey, on the Truck Shop, Warehouse Building, Mill Maintenance Building, and the Electrical Substation, Barrick Bullfrog Mine, Beatty, Nevada.: Broadbent collected 56 samples of building materials from these four Parcel 3 buildings. Based on analytical results no asbestos was detected in any of the samples collected.

Based upon on the reports reviewed by URS and upon or experience, it appears that remedial activities conducted by Broadbent for the assessment and removal of hydrocarbon contaminated soil on Parcels 2 and 3 were conducted in an manor meeting an acceptable standard of care for an environmental consulting firm.

URS interviewed Mr. Dan Kump, Senior Project Engineer with Barrick Bullfrog Inc. on August 20, 2000 and in subsequent phone calls. Mr. Kump indicated that Barrick held a Water Pollution Control

permit (NEV88023) for the mine that was issued by the NDEP. He also provided a copy of documentation for a Septic Tank General Permit (GNEV9201-40047) and Surface Area Disturbance Air Quality Operating (No. AP1629-0028) permits for the mine site, both of which were issued by the NDEP.

Mr. Kump told URS that Bond Gold of Australia began removal of overburden at the mine in mid 1988. Bond Gold opened the mine in 1989 and the first gold was recovered in July of that year. In December 1990, LAC Minerals from Canada purchased Bond Gold. Barrick subsequently purchased LAC Minerals in September 1994. Barrick continued to operate the mine until late October of 1999 when the final ore was mined. The mills grinding circuit was halted on November 11, 1999, and the final gold was removed from the leachate in February 2000. Atlas started demolition activities of the mill located on Parcel 3 in February 2000. LAC Minerals began and Barrick continued concurrent reclamation activities of the tailings and overburden piles. Mr. Kump indicated that demolition of the mill, including the primary, secondary, and tertiary crushers, screens, conveyors, grinders, leaching, adsorption, stripping, electrowinning, and electrorefining facilities were completed in December 2000. Former buildings on Parcel 2 for the surface work crews, the exploration department at the mine, and an assay lab were removed from the site during early 2000.

Mr. Kump told URS that several areas within Parcel 2 and Parcel 3 were investigated for petroleum hydrocarbon contamination and remediation of these areas was completed by early 2001. The main areas included the Mill Maintenance Shop (Building BEDC3), inside and outside of the Truck Shop (Building BEDC1), the former AST location west of the Truck Shop, truck ready lines east and west of the Truck Shop, and parking lot areas on Parcels 2 and 3. Removal of the electric substation on Parcel 3 was completed in July 2002.

5.4 SUMMARY OF HISTORICAL FINDINGS

Based on the review of information dating back to approximately 1987, the subject property was undeveloped until removal of overburden at the mine began that year. Prior to this time the site was undeveloped native desert land. Historic activities were identified that created REC at Parcel 3. However, historical information was reviewed that documented remedial actions for clean up of these RECs.

6.0 REGULATORY AGENCY REVIEW

URS researched readily available records from regulatory agencies to evaluate the subject property regarding potential environmental concerns and to assess whether adjacent sites have been identified as having Recognized Environmental Conditions. Our regulatory review utilized the services of EDR Information Solutions, Inc. (EDR), a firm that specializes in maintaining databases of federal and state hazardous waste sites and related information. The EDR report is presented in Appendix C. The following table summarizes the primary databases reviewed and the number of sites identified within the search radii. The search radii meet or exceed ASTM guidelines. The subject property was not cited on any of the databases.

TYPE OF DATABASE	DESCRIPTION OF DATABASE & EFFECTIVE DATE	SEARCH RADIUS	NUMBER OF SITES IDENTIFIED
NPL	The National Priorities List identifies major uncontrolled or abandoned hazardous waste sites. To appear on the NPL, sites must have met or surpassed a predetermined hazard ranking system score, pose a significant health or environmental threat, or be a site where the EPA has determined that remedial action is a priority. Effective Date – 07/02	1 mile	0
CERCLIS	The Comprehensive Environmental Response, Compensation, and Liability Information System database identifies hazardous waste sites that EPA is investigating for possible remedial action to mitigate potential negative impacts to human health or the environment. Effective Date – 05/02	0.5 miles	0
RCRA TSDs	Resource Conservation and Recovery Act-regulated Treatment, Storage, or Disposal sites Effective Date – 05/02	0.5 mile	0

TYPE OF DATABASE	DESCRIPTION OF DATABASE & EFFECTIVE DATE	SEARCH RADIUS	NUMBER OF SITES IDENTIFIED
CORRACTS	RCRA TSD facilities ordered to implement corrective actions Effective Date – 05/02	1 mile	0
RCRA Generators	RCRA-regulated hazardous waste generators; both Large and Small Quantity Generators are included in this list Effective Date – 05/02	0.125 mile	0
ERNS	EPA's Emergency Response Notification System list is a record of reported spills of oil and hazardous substances Effective Date – 12/01	0.125 mile	0
SCL	State Corrective Action Sites list Effective Date – 07/02	1.0 mile	0
SWLF	State inventory of Solid Waste Landfill sites Effective Date – 06/02	0.5 miles	0
LUST	State list of Leaking Underground Storage Tank cases Effective Date – 07/02	0.5 miles	0
UST	State list of Underground Storage Tank sites Effective Date –07/02	0.125 mile	0

6.1 FEDERAL RECORDS

The National Priorities List (NPL) is the U.S. Environmental Protection Agency's (EPA) database of major hazardous waste sites identified for priority remedial action under the Superfund program. There are no NPL sites within a one-mile radius of the subject property.

The CERCLIS list is a compilation of sites that the EPA is currently investigating or has previously investigated for a suspected or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). EDR reported that there are no sites listed within a one-half mile radius of the subject property.

The EPA maintains a database of facilities which, due to the generation, treatment, storage, or disposal of hazardous wastes, must obtain an EPA identification number and comply with the Resource Conservation and Recovery Act (RCRA). EDR's report on the RCRA database indicates that there are no treatment, storage, or disposal facilities within a one-half mile radius of the subject property. EPA Corrective Action (CORRACTS) sites were not identified within one mile of the subject property. A review of the RCRIS-SQG list has revealed that there are no small quantity generators located within ¼ mile of the subject property.

The Emergency Response Notification System (ERNS) is a national database for spills and unauthorized releases of petroleum products and hazardous substances. EDR's search of the ERNS database revealed no known incidents at the subject property.

6.2 STATE RECORDS

State law requires that owners of most types of underground petroleum storage tanks (USTs) register with the NDEP. NDEP does not maintain a registry for above ground storage tanks. The UST Owners List was reference checked by EDR to ascertain whether the subject property or any adjoining properties were referenced. EDR reported no UST listed within one-quarter mile of the subject property.

The NDEP maintains a list of current and past leaking underground storage tank (LUST) cases in the State of Nevada. EDR reported no LUST sites within a one-half mile radius of the subject property.

The NDEP also maintains a listing of its non-UST corrective action cases (SHWS sites). EDR reported no SHWS sites within a one mile radius of the subject property.

The NDEP also maintains a listing of Solid Waste Landfills (SWLF) in Las Vegas. EDR reported that there are no SWLF sites within a distance of at least one-half mile of the subject property. Records provided by Mr. Kump of Barrick Bullfrog Inc. indicate that one waived Class III landfill (NDEP permit no. SWMI-13-15) is located approximately 1/8 mile north of the site on mine waste material,

which is managed by Barrick Bullfrog Inc. According to information provided by Barrick, this landfill was put into operation on January 10, 2000, when the old landfill was closed. The landfill received construction and other debris from the mining operation. Hazardous materials or chemicals were not disposed of in the waived Class III landfill. According to documentation provided by Barrick, closure of the waived Class III landfill was completed on March 1, 2001 after a landfill cover was constructed.

7.0 CONCLUSIONS AND RECOMMENDATIONS

URS conducted the Phase I ESA in general conformance with the ASTM standard for Parcel 3 located at the Bullfrog Mine on Highway 374 West located west of Beatty, Nevada. Any exceptions to, or deletions from, the Standard are described in Section 8.1 of this report. Based on the site reconnaissance and documentation reviewed, URS finds that there are no RECs or non-ASTM environmental issues identified at the site as of the date of this Phase I ESA. As such, URS does not recommend further investigation of the site at this time.

8.0 LIMITATIONS

URS has performed this ESA within the limits prescribed by our proposal and using the usual degree of care and thoroughness normally employed by the environmental consulting profession at the time and locality in which the study was completed. The conclusions presented in this report are professional opinions based solely upon the data collected, visual observations of the subject property and vicinity, and our interpretation of the available historical information and documents reviewed, as described in this report. They are intended exclusively for the purpose outlined herein and the subject property location and project indicated. This report is intended for the use of Barrick Bullfrog Inc. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said third party.

Historical aerial photographic coverage and applicable historical topographical map coverage were only available back to the mid 1980s. Therefore these records for the subject site are reasonably ascertainable (as defined in the ASTM Standard). In our professional opinion, historic information from the mid 1980s to 1940 for the subject property is not reasonably ascertainable nor would it impact our findings or conclusions. URS did not request a fifty-year chain of title for the property nor was a chain of title provide to URS for review at the time this report was prepared.

The primary State agency, which maintains environmental records for UST, LUST, spill response, environmental investigations and remediation, is the NDEP. As the property is a mining district the BLM and NDEP have jurisdiction. It is our professional opinion that information that other agencies listed in the ASTM Standard may maintain would not impact our findings or conclusions related to environmental issues at this site. Therefore, URS did not contact or request information from these agencies.

It should be recognized that this study was not intended to be a definitive investigation of contamination at the subject property, and the results obtained are not necessarily inclusive of all possible conditions. Given that the scope of services for this Phase I investigation was limited and that exploratory borings and/or groundwater sampling or analytical testing were not undertaken, it is possible that currently unrecognized subsurface contamination may exist at the property.

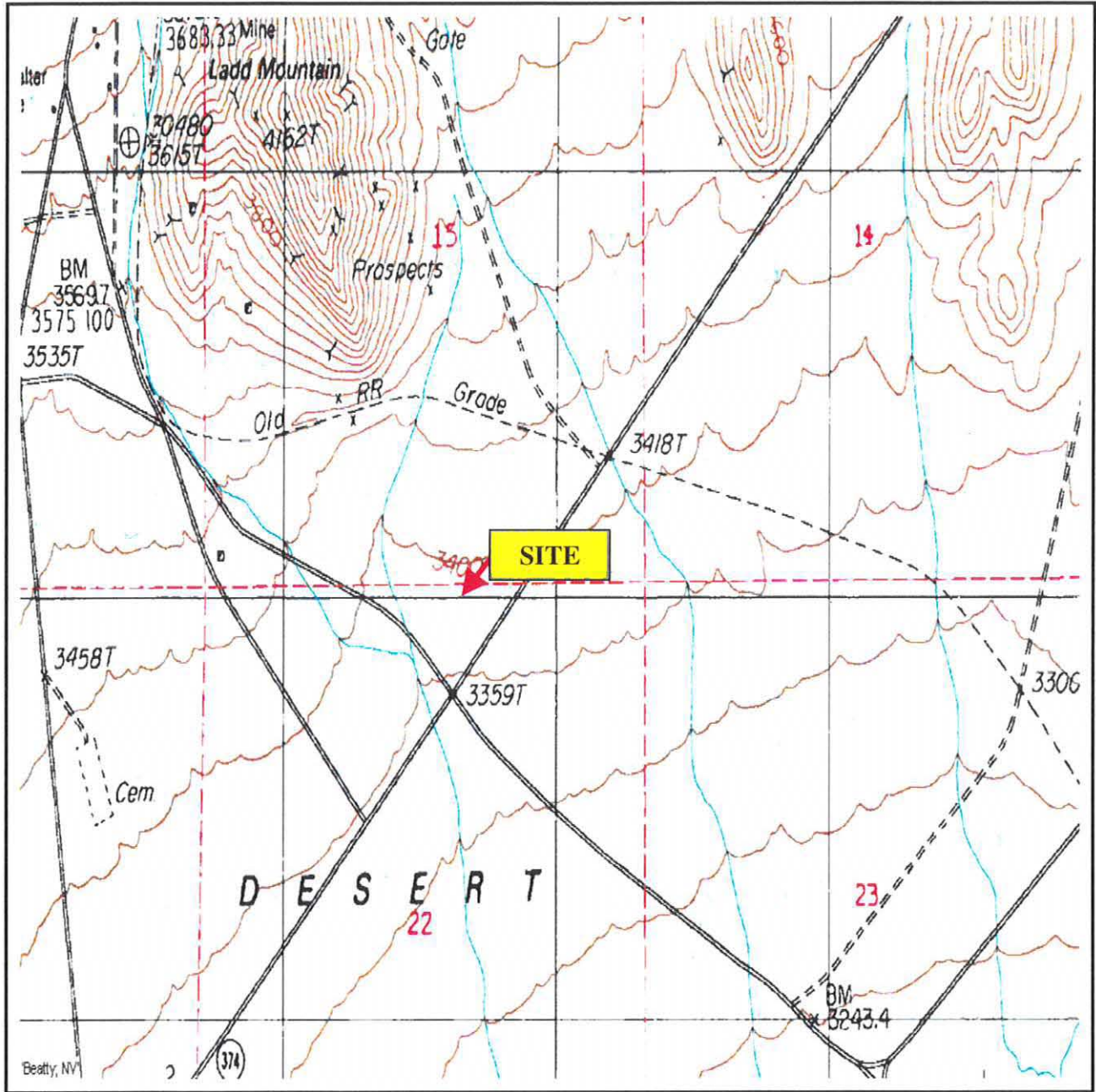
Opinions and recommendations presented herein apply to the conditions that existed at the time of our investigation and cannot necessarily apply to site changes of which URS is unaware and has not had the opportunity to evaluate. Site conditions may be affected by natural processes or by the works of man. Changes in applicable standards and regulations may also occur as a result of legislation or the broadening of knowledge. Consequently, the findings of this report may be invalidated, wholly or in part, by changes that are unforeseen and beyond our control.

With the exception of Barrick Bullfrog Inc., this report shall not be relied upon by any other party without the express written authorization of URS. This report is valid for a period of 180 days from the date of publication. Use of this report after 180 days of publication is subject to the provisions of Section 4.7 of ASTM Standard E 1527-00. The use of, or reliance on this report by any unauthorized party shall be at their sole risk.

9.0 REFERENCES

- Barrick Bullfrog Inc. 1999. Mine Final Permanent Closure Plan, October 25, 1999.
- Broadbent and Associates, 2002. *Asbestos-Containing Building Material Survey on the Administration Building, O/G Dry (safety) Building, Guard Shack, and Electrical Shack, Barrick Bullfrog Mine, Beatty, Nevada.* August 19, 2002.
- Broadbent and Associates, 2000. *Asbestos-Containing Building Material Survey on the Truck Shop, Warehouse Building, and the Electrical Substation, Barrick Bullfrog Mine, Beatty, Nevada.* August 16, 2002.
- Broadbent and Associates, 2002. *Final Barrick Bullfrog Mine Excavation Report, Barrick/Bullfrog Mine,* May 20, 2002.
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- Broadbent and Associates, 2002. *Administration and Employee Parking Lot Soil Excavation Barrick Bullfrog Mine Report,* April 2002.
- Broadbent and Associates, 2001. *Additional Soil Remediation Report Truck Maintenance Shop, Barrick Bullfrog Mine,* July 2001.
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- Broadbent and Associates, 2000. *Soil Characterization Report, Barrick Bullfrog Mine,* October, 2000.
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- National Oceanic and Atmospheric Administration, 1999. Local climatological data, annual summary with comparative data, Las Vegas, Nevada, 1998.
- Rigby, J. G. et al., 1994. Radon in Nevada: Nevada Bureau of Mines and Geology, Bulletin 108.

U.S. Geological Survey, 1987. Las Vegas SW, Nevada topographic quadrangle map, Beatty, Nevada; 1:24,000.



References: Wildflower Productions, © 1998
 Not to scale.

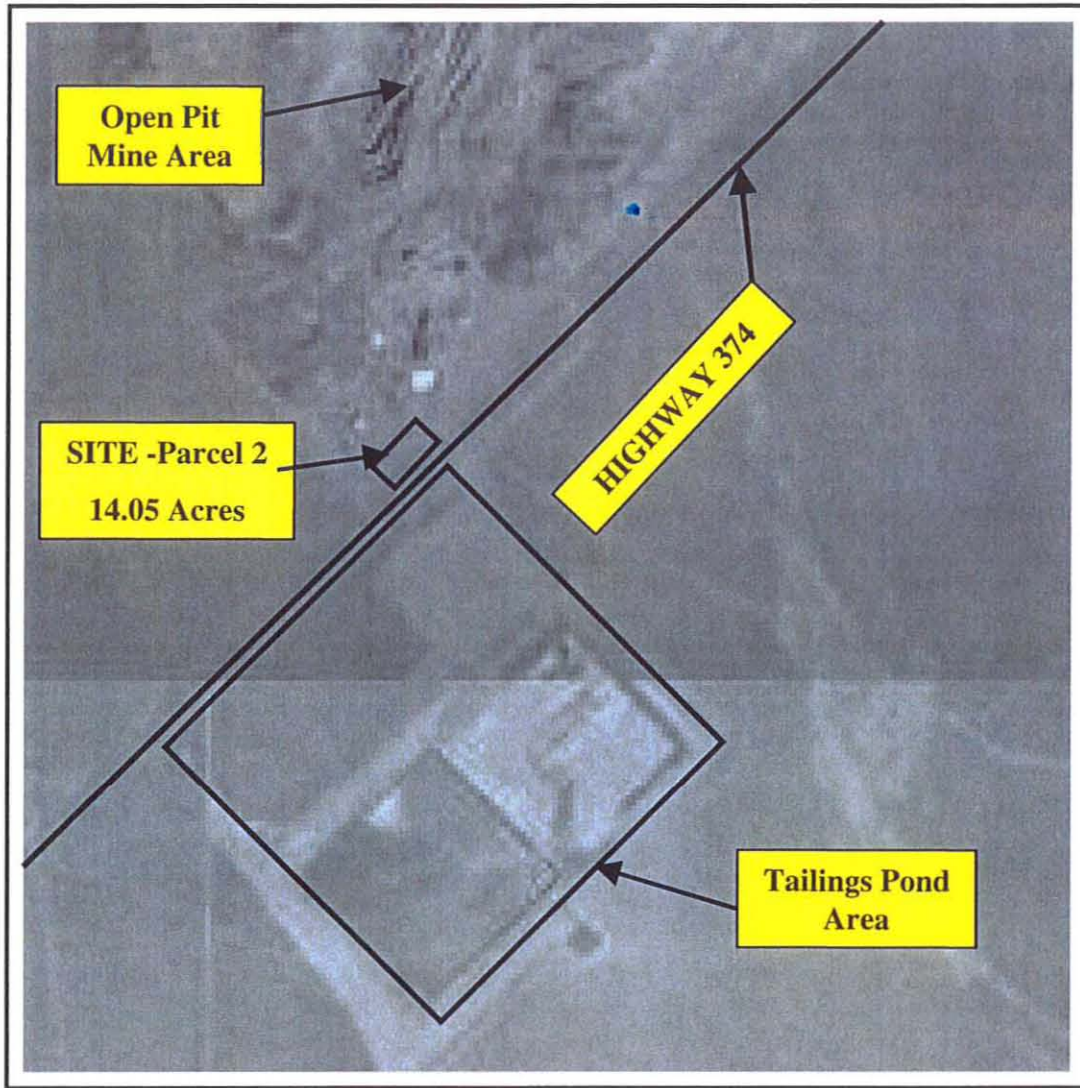
SITE VICINITY MAP

Barrick Bullfrog Inc.
 Bullfrog Mine, Parcel 2
 Phase I Environmental Site Assessment
 Beatty, Nye County, Nevada

October, 2002

FIGURE 1





Aerial Photograph obtained from the USGS Website.
Not to Scale



URS

SITE MAP

Barrick Bullfrog Inc.
Bullfrog Mine, Parcel 2
Phase I Environmental Site Assessment
Beatty, Nye County, Nevada

October, 2002

FIGURE 2

APPENDIX A
SITE PHOTOGRAPHS

Client Name: Barrick Bullfrog, Inc.	Site Location: Bullfrog Mine, Beatty, Nevada	Project No. 26698594.00002
---	--	--------------------------------------

Photo No. 1

View Direction of Photo:

BEDC1- Truck shop.
Facing northwest.

Description:

Southeast side of building.

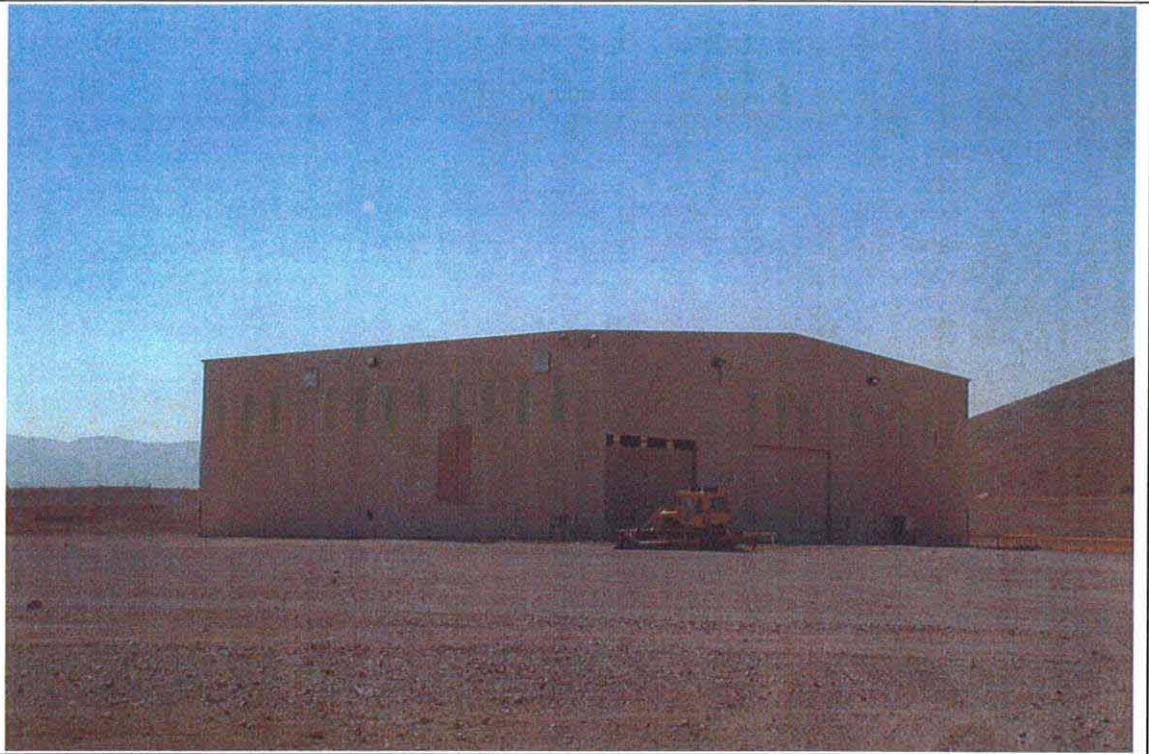


Photo No. 2

Location of Photo:

BEDC1 – Truck shop.

Description:

Second floor of Truck shop showing insulation around heating ducts.



Client Name: Barrick Bullfrog, Inc.	Site Location: Bullfrog Mine, Beatty, Nevada	Project No. 26698594.00002
---	--	--------------------------------------

Photo No. 3

View Direction of Photo:
BEDC1 – Truck shop.

Description:
Dry transformer on first floor of Truck shop.

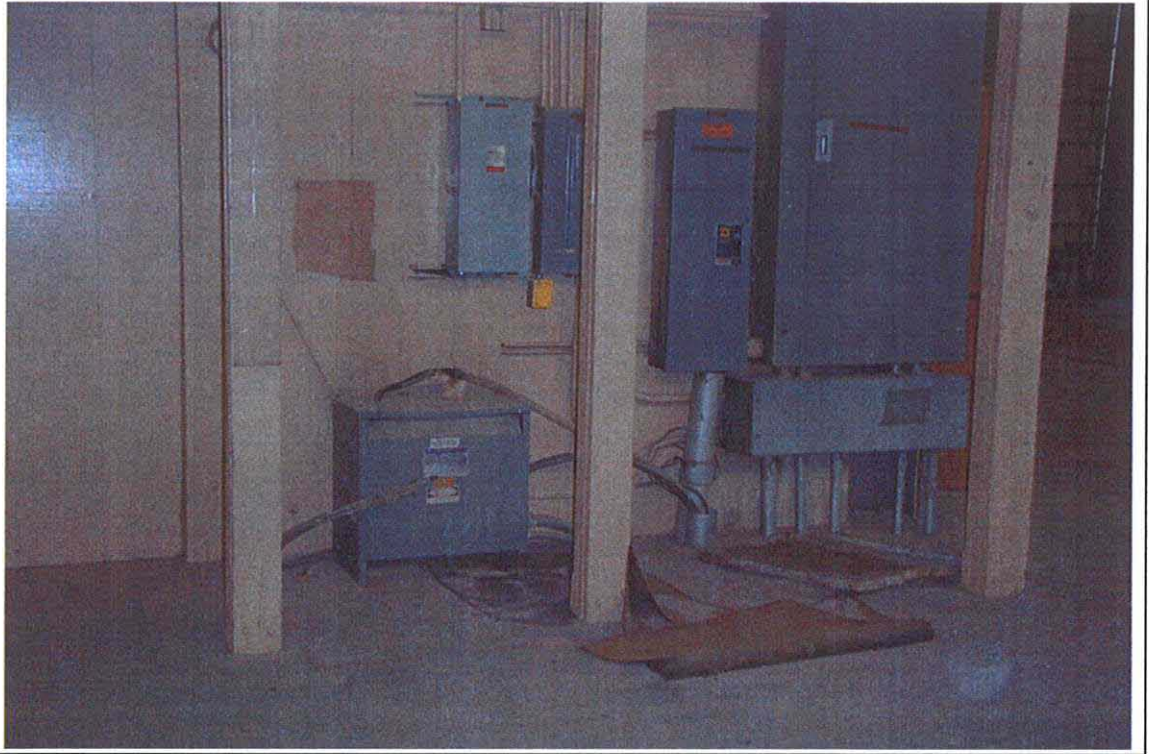
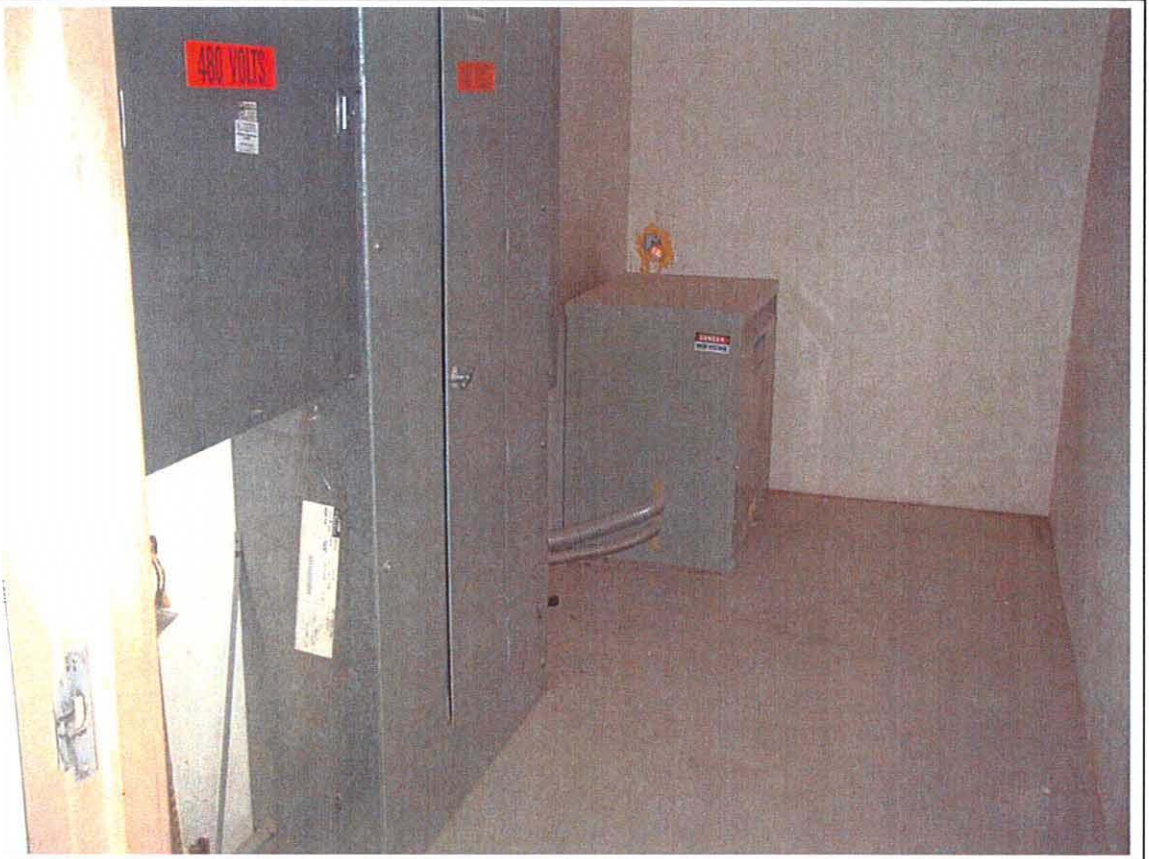


Photo No. 4


View Direction of Photo:
BEDC1 – Truck shop.

Description:
Dry transformer on first floor of Truck shop.



Client Name: Barrick Bullfrog, Inc.	Site Location: Bullfrog Mine, Beatty, Nevada	Project No. 26698594.00002
---	--	--------------------------------------

Photo No. 5	
View Direction of Photo: BEDC2 – Warehouse. Facing south.	
Description: BEDC1 – Warehouse building. East side of building.	

Photo No. 6	
View Direction of Photo: BEDC2 – Warehouse. Facing northeast.	
Description: BEDC1 – Warehouse building. West and south sides of building.	

Client Name: Barrick Bullfrog, Inc.	Site Location: Bullfrog Mine, Beatty, Nevada	Project No. 26698594.00002
---	--	--------------------------------------

Photo No. 7

View Direction of Photo:

BEDC2 - Warehouse.
Facing North.

Description:

Septic system located on south side of BEDC2 – Warehouse building. Looking north.



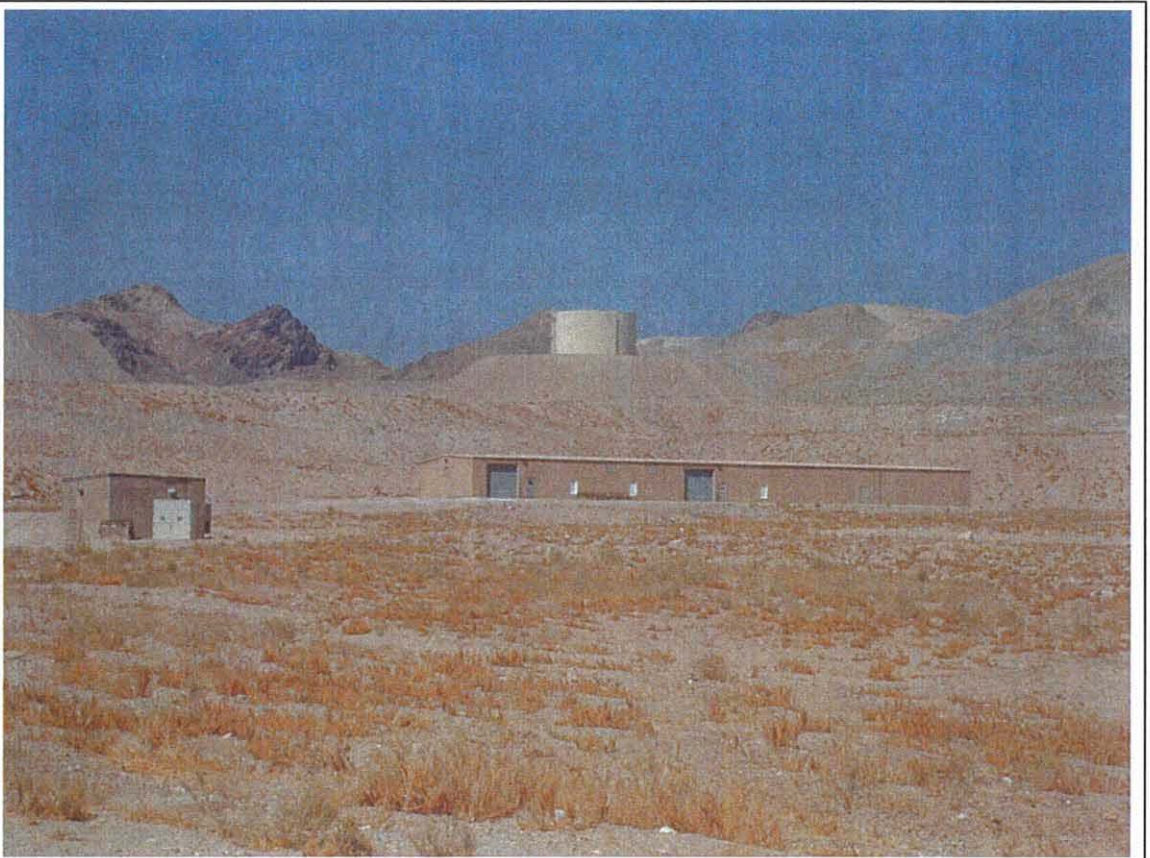
Photo No. 8

View Direction of Photo:

BEDC4 – Switchgear house and BEDC3 – Mill maintenance shop.
Facing North.

Description:

BEDC4 – Switch gear house in foreground left. BEDC Mill maintenance shop background center and right. South sides of buildings. Water tank on hill background



Client Name: Barrick Bullfrog, Inc.	Site Location: Bullfrog Mine, Beatty, Nevada	Project No. 26698594.00002
---	--	--------------------------------------

Photo No. 9

View Direction of Photo:

BEDC4 - Switchgear house. Facing north.

Description:

BEDC4 - Switchgear house were main electrical power was received at mine. South side of building.

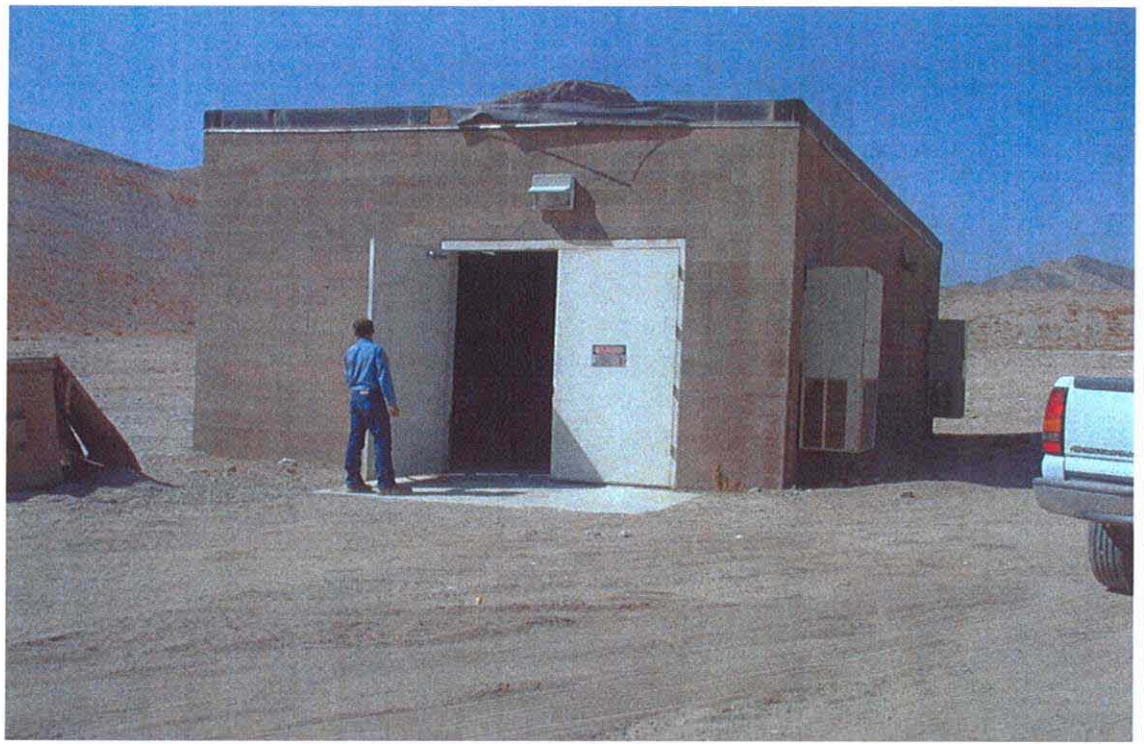


Photo No. 10

View Direction of Photo:

BEDC3 - Mill maintenance building.

Description:

Oil change area inside mill maintenance building at west end. No visible staining.



Client Name: Barrick Bullfrog, Inc.	Site Location: Bullfrog Mine, Beatty, Nevada	Project No. 26698594.00002
---	--	--------------------------------------

Photo No. 11

View Direction of Photo:

BEDC3 – Mill maintenance building.

Description:

Electrical transformers and control boxes located inside BEDC3 – mill maintenance building.

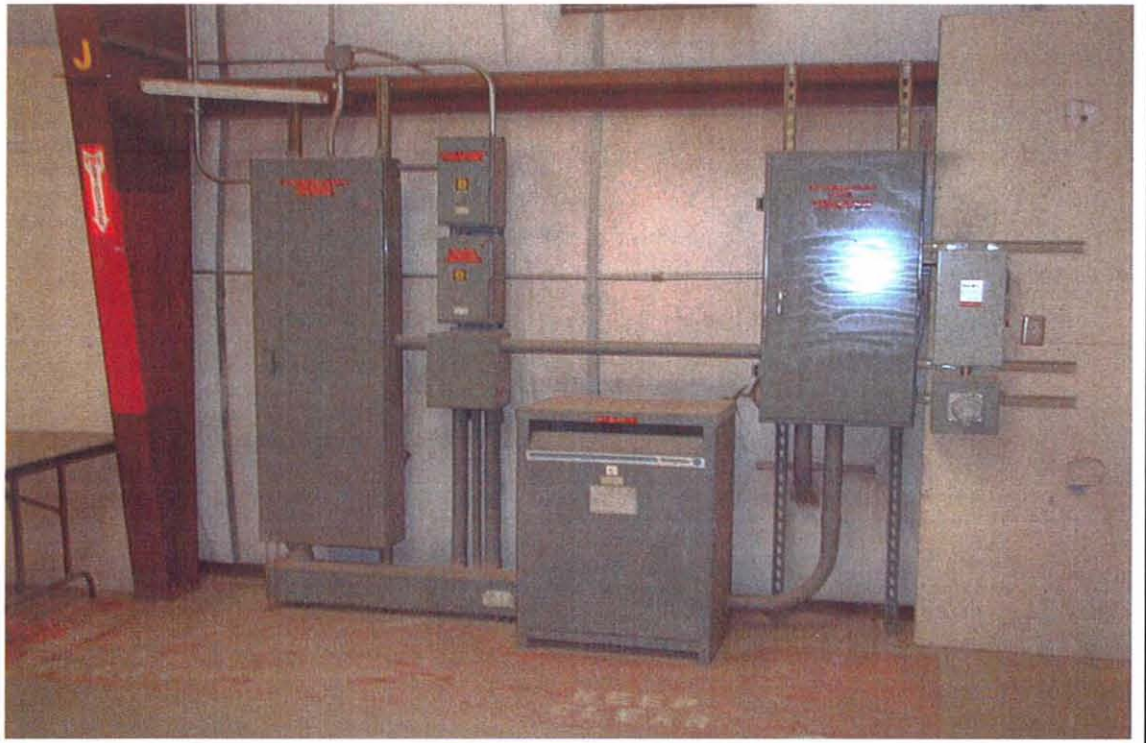


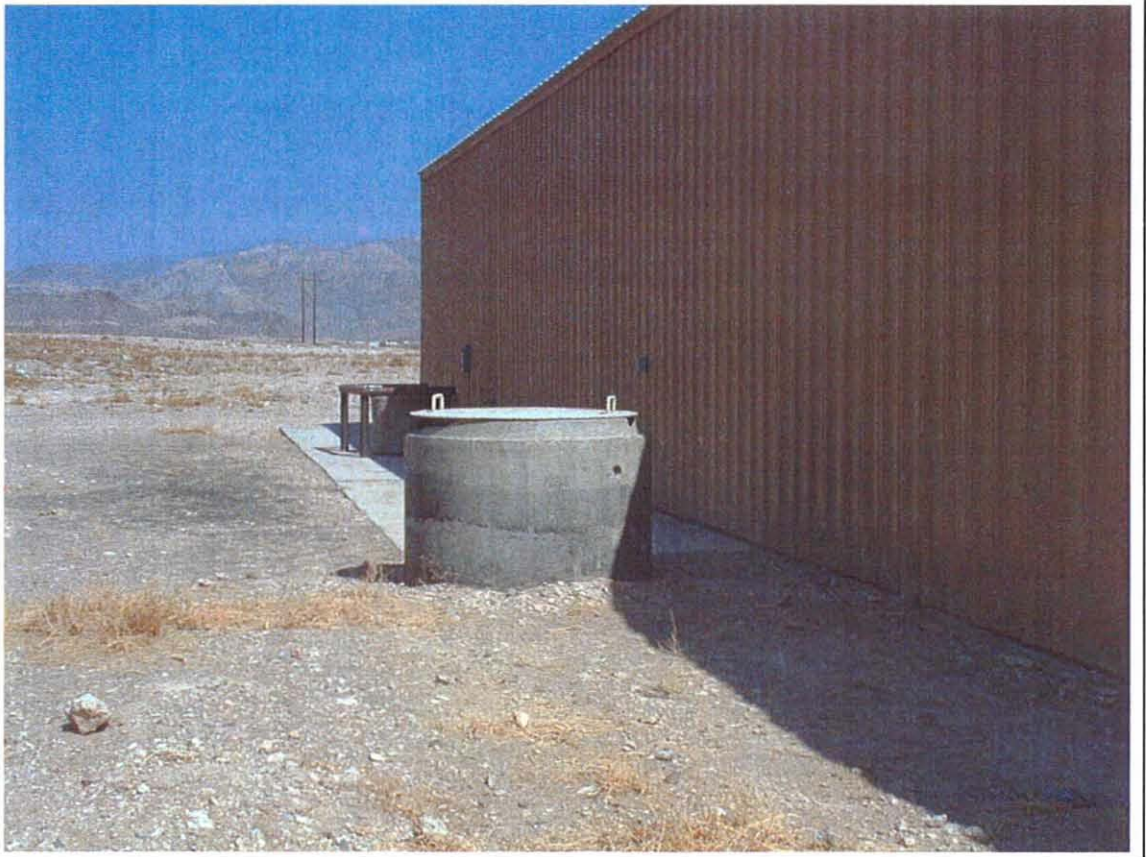
Photo No. 12

View Direction of Photo:

BEDC3 – Mill maintenance building. Facing east.

Description:

Below ground electrical vault located on the north side of the BEDC3 – Mill maintenance building.



APPENDIX B
EDR REPORT



The EDR Radius Map with GeoCheck[®]

**Bullforg Mine
Highway 374
Beatty, NV 89020**

Inquiry Number: 1856478.3p

October 01, 2002

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: 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 meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

HIGHWAY 374
BEATTY, NV 89020

COORDINATES

Latitude (North): 36.887100 - 36° 53' 13.6"
Longitude (West): 116.817100 - 116° 49' 1.6"
Universal Tranverse Mercator: Zone 11
UTM X (Meters): 516298.2
UTM Y (Meters): 4082160.8

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 2436116-H7 BEATTY, NV
Source: USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

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 ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRIS-TSD..... Resource Conservation and Recovery Information System
RCRIS-LQG..... Resource Conservation and Recovery Information System
RCRIS-SQG..... Resource Conservation and Recovery Information System
ERNS..... Emergency Response Notification System

STATE ASTM STANDARD

SHWS..... Sites Database
SWF/LF..... Landfill List
LUST..... Sites Database
UST..... Underground Storage Tank in Washoe County

EXECUTIVE SUMMARY

FEDERAL ASTM SUPPLEMENTAL

CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
Delisted NPL	National Priority List Deletions
FINDS	Facility Index System/Facility Identification Initiative Program Summary Report
HMIRS	Hazardous Materials Information Reporting System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
NPL Liens	Federal Superfund Liens
PADS	PCB Activity Database System
RAATS	RCRA Administrative Action Tracking System
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
SSTS	Section 7 Tracking Systems
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

AST..... Aboveground Storage Tanks List

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

SURROUNDING SITES: SEARCH RESULTS

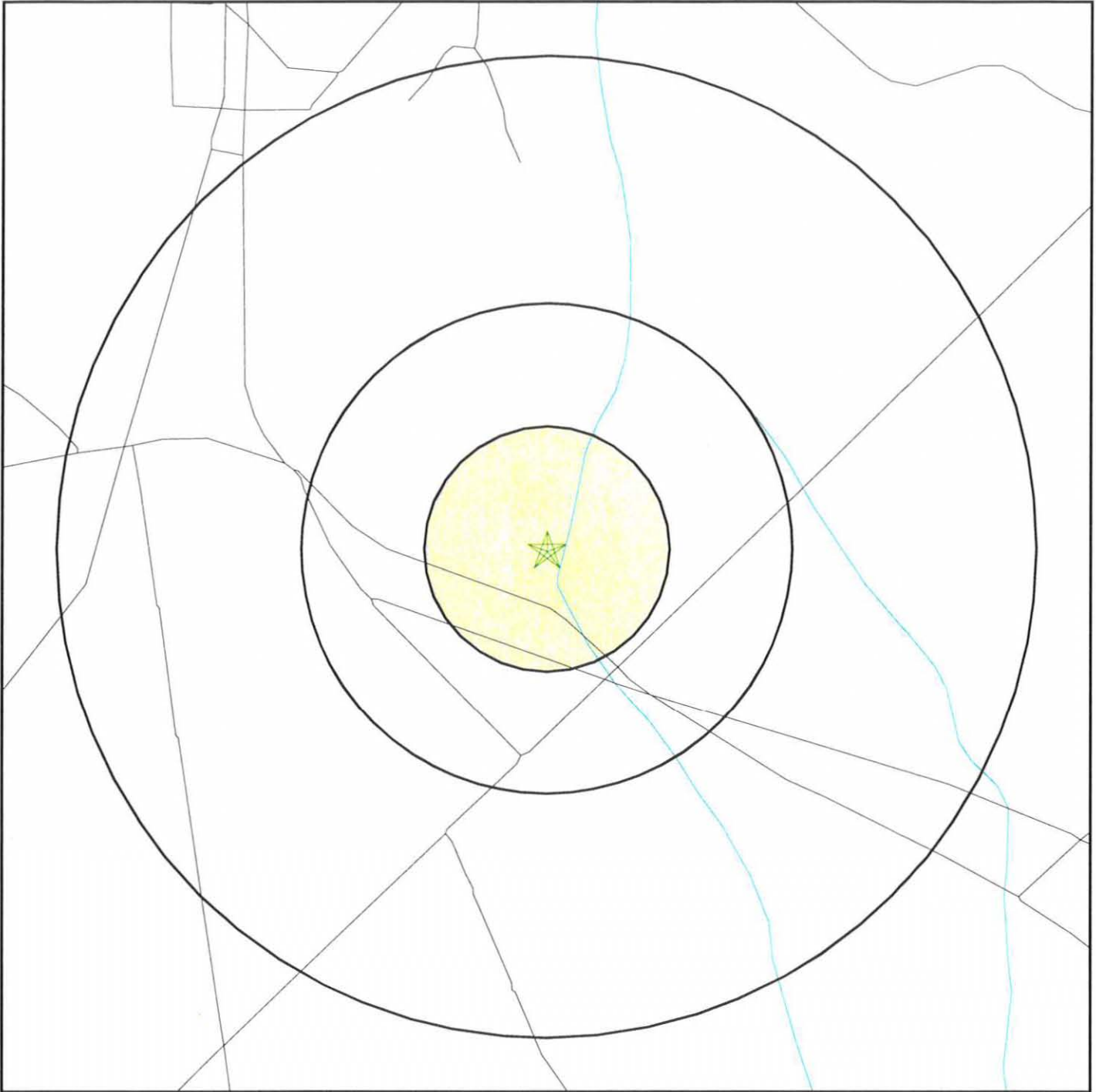
Surrounding sites were not identified.

EXECUTIVE SUMMARY



Due to poor or inadequate address information, the following sites were not mapped:

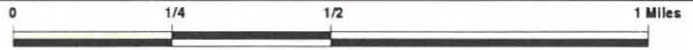
<u>Site Name</u>	<u>Database(s)</u>
ISLAND ENVIRONMENTAL SERVICES	SHWS
LEWIS DANSBY	SHWS
REEVERTS ENTERPRISES	SHWS
SHEAR FORCE DEMOLITION ACCIDEN	SHWS
BEATTY GENERAL STORE	SHWS
NEVADA DEPARTMENT OF TRANSPORT	SHWS
AT&T - BARE MT.	SHWS
PETROSOURCE DRAYCUTT LEASE ARE	SHWS
U.S.F.S. HUMBOLDT NAT. FOREST	SHWS
UNITED STATES AIR FORCE	SHWS
BLM RAILROAD VALLEY OILFIELD P	SHWS
RIVERBEND EXPRESS TRUCKING COM	SHWS
LOBO, INC. ACCIDENT	SHWS
SONNENBURG ACCIDENT	SHWS
U.S. BUREAU OF LAND MANAGEMENT	SHWS
UNITED STATES AIR FORCE	SHWS
PETROSOURCE EAGLE SPRINGS	SHWS
NELLIS AIR FORCE BASE	SHWS
AMERICAN BORATE CO	CERC-NFRAP
AMARGOSA VALLEY SALOON	LUST
AMARGOSA CLUB	LUST
MOMS PLACE	UST
AMARGOSA VALLEY SALOON	UST
FORMER SERVICE STATION	UST
EXXON	UST
NEVADA JOES SHELL / AMARGOSA VALLEY RESORTS	UST
I M V DIVISION OF FLORIDIN COMPANY	RCRIS-SQG, FINDS
AMERICAN BORATE COMPANY	RCRIS-SQG, FINDS
MINE LEACH FACILITY	ERNS

OVERVIEW MAP - 1856478.3p - URS Corporation



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- National Priority List Sites
- Landfill Sites

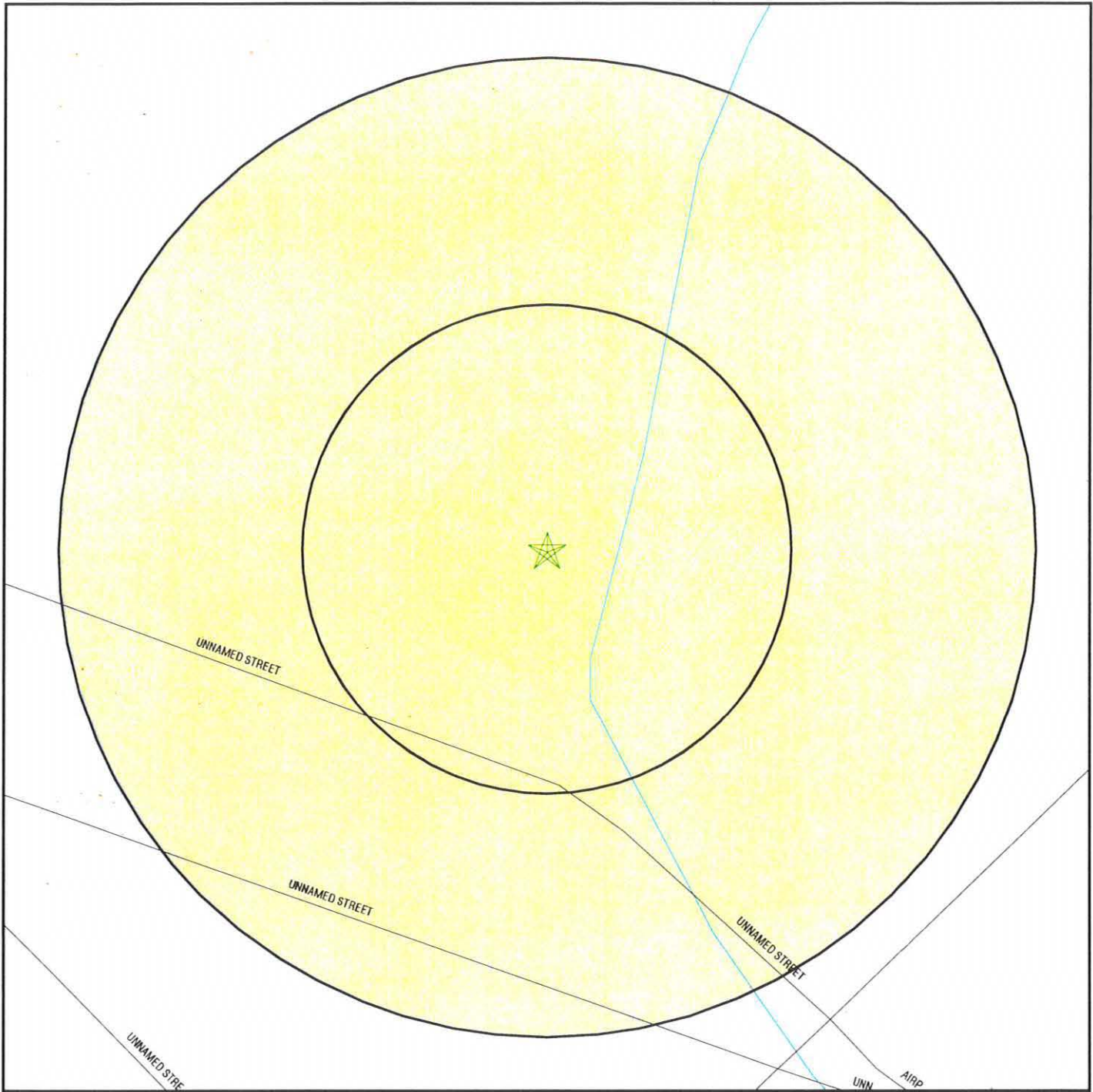
 Power transmission lines
 Oil & Gas pipelines





TARGET PROPERTY: Bullforg Mine
ADDRESS: Highway 374
CITY/STATE/ZIP: Beatty NV 89020
LAT/LONG: 36.8871 / 116.8171

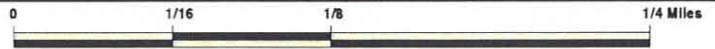
CUSTOMER: URS Corporation
CONTACT: Eric Willoughby
INQUIRY #: 1856478.3p
DATE: October 01, 2002 1:36 pm

DETAIL MAP - 1856478.3p - URS Corporation



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ⚡ Sensitive Receptors
- ☒ National Priority List Sites
- ☒ Landfill Sites

-  Power transmission lines
-  Oil & Gas pipelines



TARGET PROPERTY: Bullforg Mine
 ADDRESS: Highway 374
 CITY/STATE/ZIP: Beatty NV 89020
 LAT/LONG: 36.8871 / 116.8171

CUSTOMER: URS Corporation
 CONTACT: Eric Willoughby
 INQUIRY #: 1856478.3p
 DATE: October 01, 2002 1:36 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
<u>FEDERAL ASTM STANDARD</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
<u>STATE ASTM STANDARD</u>								
State Haz. Waste		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
AST		TP	NR	NR	NR	NR	NR	0
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>								
Coal Gas		1.000	0	0	0	0	NR	0
AQUIFLOW - see EDR Physical Setting Source Addendum								

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site Database(s) EDR ID Number
EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

NO SITES FOUND

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AMARGOSA	S104178869	AMARGOSA VALLEY SALOON	U.S. HIGHWAY 95	89020	LUST
AMARGOSA	S104178928	AMARGOSA CLUB	MECCA ROAD AND HIGHWAY 73	89020	LUST
AMARGOSA VALLEY	U003383272	MOMS PLACE	HWY 373 AT STATELINE	89020	UST
AMARGOSA VALLEY	S105488574	ISLAND ENVIRONMENTAL SERVICES	HIGHWAY 373 @ MILE MARKER 11	89020	SHWS
AMARGOSA VALLEY	U003379532	AMARGOSA VALLEY SALOON	DEATH VALLEY JUNCTION HWY 95 & 373, LATHROP WELL	89020	UST
AMARGOSA VALLEY	U003379526	FORMER SERVICE STATION	DEATH VALLEY JUNCTION HWY 95 & 373, LATHROP WELL	89020	UST
AMARGOSA VALLEY	S103876766	LEWIS DANSBY	HCR 69, BOX 498	89020	SHWS
AMARGOSA VALLEY	U003696839	EXXON	2626 E HWY 95	89020	UST
AMARGOSA VALLEY	U003652887	NEVADA JOES SHELL / AMARGOSA VALLEY RESORTS	JCT HWY 95 & HWY 373	89020	UST
AMARGOSA VALLEY	1001488873	I M V DIVISION OF FLORIDIN COMPANY	STAR RTE 15 14 M W OF AMARG VA	89020	RCRIS-SQG, FINDS
AMARGOSA VALLEY	1003879170	AMERICAN BORATE CO	E OF HWY 373,2MI N CA ST LINE	89020	CERC-NFRAP
BEATTY	S104179051	REEVERTS ENTERPRISES	BEACH AND RIEBEL		SHWS
BEATTY	S105488577	SHEAR FORCE DEMOLITION ACCIDEN	U.S. HIGHWAY 95 @ MILE MARKER		SHWS
BEATTY	92297863	MINE LEACH FACILITY	MINE LEACH FACILITY		ERNS
BEATTY	S103876808	BEATTY GENERAL STORE	SECOND AND WATSON-HIGHWAY 95		SHWS
LATHROP WELLS	1001488865	AMERICAN BORATE COMPANY	STAR ROUTE 15 BOX 610	89020	RCRIS-SQG, FINDS
NYE COUNTY	S103876812	NEVADA DEPARTMENT OF TRANSPORT	U.S. 95/6 MILES SOUTH OF BEATT		SHWS
NYE COUNTY	S103875690	AT&T - BARE MT.	BARE MT		SHWS
NYE COUNTY	S103876788	PETROSOURCE DRAYCUTT LEASE ARE	DRAYCUTT LEASE AREA		SHWS
NYE COUNTY	S103876794	U.S.F.S. HUMBOLDT NAT. FOREST	ELY RANGER DISTRICT (HWY 6, MM		SHWS
NYE COUNTY	S103876792	UNITED STATES AIR FORCE	GOLD MOUNTAIN, TONOPAH TEST RA		SHWS
NYE COUNTY	S103876784	BLM RAILROAD VALLEY OILFIELD P	GRANTS CANYON ROAD VICINITY		SHWS
NYE COUNTY	S103876782	RIVERBEND EXPRESS TRUCKING COM	U.S. HIGHWAY 6/GRANTS CANYON		SHWS
NYE COUNTY	S103876778	LOBO, INC. ACCIDENT	U.S. HIGHWAY 95 NEAR MILE MARK		SHWS
NYE COUNTY	S103876777	SONNENBURG ACCIDENT	U.S. HIGHWAY 95 NEAR MILE MARK		SHWS
NYE COUNTY	S103876779	U.S. BUREAU OF LAND MANAGEMENT	SOUTH OF GABBS		SHWS
NYE COUNTY	S103876793	UNITED STATES AIR FORCE	RAGGED RIDGE		SHWS
NYE COUNTY	S103876780	PETROSOURCE EAGLE SPRINGS	RAILROAD VALLEY		SHWS
NYE COUNTY	S103876806	NELLIS AIR FORCE BASE	TONOPAH TEST RANGE, B-293		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.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

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: 07/18/02

Date Made Active at EDR: 09/20/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/01/02

Elapsed ASTM days: 50

Date of Last EDR Contact: 08/01/02

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 3

Telephone 215-814-5418

EPA Region 4

Telephone 404-562-8033

EPA Region 6

Telephone: 214-655-6659

EPA Region 8

Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 05/29/02

Date Made Active at EDR: 09/20/02

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/01/02

Elapsed ASTM days: 50

Date of Last EDR Contact: 08/01/02

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

Source: EPA

Telephone: 703-413-0223

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: 05/15/02

Date Made Active at EDR: 08/08/02

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/24/02

Elapsed ASTM days: 45

Date of Last EDR Contact: 06/24/02

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/15/02
Date Made Active at EDR: 08/08/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 06/24/02
Elapsed ASTM days: 45
Date of Last EDR Contact: 06/24/02

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 05/02/02
Date Made Active at EDR: 07/15/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/06/02
Elapsed ASTM days: 70
Date of Last EDR Contact: 09/09/02

RCRIS: Resource Conservation and Recovery Information System

Source: EPA/NTIS

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS 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).

Date of Government Version: 07/10/02
Date Made Active at EDR: 09/20/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/26/02
Elapsed ASTM days: 56
Date of Last EDR Contact: 06/20/02

ERNS: Emergency Response Notification System

Source: EPA/NTIS

Telephone: 202-260-2342

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

Date of Government Version: 12/31/01
Date Made Active at EDR: 07/15/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 07/02/02
Elapsed ASTM days: 13
Date of Last EDR Contact: 07/24/02

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

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: 12/31/99
Database Release Frequency: Biennially

Date of Last EDR Contact: 09/16/02
Date of Next Scheduled EDR Contact: 12/16/02

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

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: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision

Source: EPA

Telephone: 703-416-0223

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/21/01
Database Release Frequency: Annually

Date of Last EDR Contact: 07/09/02
Date of Next Scheduled EDR Contact: 10/07/02

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: N/A

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: 07/18/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/01/02
Date of Next Scheduled EDR Contact: 11/04/02

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA
Telephone: N/A

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: 03/21/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

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

Date of Government Version: 05/31/02
Database Release Frequency: Annually

Date of Last EDR Contact: 07/22/02
Date of Next Scheduled EDR Contact: 10/21/02

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

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: 04/12/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/08/02
Date of Next Scheduled EDR Contact: 10/07/02

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 06/05/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/01/02
Date of Next Scheduled EDR Contact: 09/30/02

NPL LIENS: Federal Superfund Liens

Source: EPA
Telephone: 205-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (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 receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 08/26/02
Date of Next Scheduled EDR Contact: 11/25/02

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-564-3887

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: 03/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 08/02/02
Date of Next Scheduled EDR Contact: 11/11/02

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

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: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 09/10/02
Date of Next Scheduled EDR Contact: 12/09/02

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-260-1531

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: 12/31/00
Database Release Frequency: Annually

Date of Last EDR Contact: 06/24/02
Date of Next Scheduled EDR Contact: 09/23/02

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

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: 12/31/98
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 09/09/02
Date of Next Scheduled EDR Contact: 12/09/02

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

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 04/25/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/03/02
Date of Next Scheduled EDR Contact: 09/23/02

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-5008

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: 12/31/00
Database Release Frequency: Annually

Date of Last EDR Contact: 07/19/02
Date of Next Scheduled EDR Contact: 10/21/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

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: 04/25/02
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/03/02
Date of Next Scheduled EDR Contact: 09/23/02

STATE OF NEVADA ASTM STANDARD RECORDS

SHWS: Sites Database

Source: Department of Conservation and Natural Resources

Telephone: 775-687-5872

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 07/01/02
Date Made Active at EDR: 08/01/02
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 07/22/02
Elapsed ASTM days: 10
Date of Last EDR Contact: 07/22/02

SWF/LF: Landfill List

Source: Department of Conservation and Natural Resources

Telephone: 775-687-5872

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: 06/01/02
Date Made Active at EDR: 07/18/02
Database Release Frequency: Annually

Date of Data Arrival at EDR: 07/02/02
Elapsed ASTM days: 16
Date of Last EDR Contact: 07/01/02

LUST: Sites Database

Source: Department of Conservation and Natural Resources

Telephone: 775-687-5872

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: 07/01/02
Date Made Active at EDR: 08/01/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 07/22/02
Elapsed ASTM days: 10
Date of Last EDR Contact: 07/22/02

UST: Underground Storage Tank List

Source: Department of Conservation and Natural Resources

Telephone: 775-687-5872

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: 07/01/02
Date Made Active at EDR: 08/09/02
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 07/22/02
Elapsed ASTM days: 18
Date of Last EDR Contact: 07/22/02

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF NEVADA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Storage Tanks List

Source: Department of Conservation and Natural Resources

Telephone: 775-687-5872

Registered Aboveground Storage Tanks.

Date of Government Version: 01/10/00

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/19/02

Date of Next Scheduled EDR Contact: 10/21/02

LOCAL RECORDS

WASHOE COUNTY:

Underground Storage Tank in Washoe County

Source: Washoe County Department of Environmental Health

Telephone: 775-328-2493

Date of Government Version: 07/01/02

Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/01/02

Date of Next Scheduled EDR Contact: 09/30/02

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

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.

Oil/Gas Pipelines/Electrical Transmission Lines: 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 and electrical transmission lines.

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.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 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 from the U.S. Fish and Wildlife Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BULLFORG MINE
HIGHWAY 374
BEATTY, NV 89020

TARGET PROPERTY COORDINATES

Latitude (North): 36.887100 - 36° 53' 13.6"
Longitude (West): 116.817101 - 116° 49' 1.6"
Universal Transverse Mercator: Zone 11
UTM X (Meters): 516298.2
UTM Y (Meters): 4082160.8

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

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. 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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This 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.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2436116-H7 BEATTY, NV
Source: USGS 7.5 min quad index

GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property: General South

Source: General Topographic Gradient has been determined from the USGS 1 Degree 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.

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

<u>Target Property County</u>	<u>FEMA Flood Electronic Data</u>
NYE, NV	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
NOT AVAILABLE	Not Available

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Site-Specific Hydrogeological Data*:

Search Radius: 2.0 miles
Status: Not found

AQUIFLOW®

Search Radius: 2.000 Miles.

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		

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

GEOLOGIC AGE IDENTIFICATION

Era:	Cenozoic	Category:	Volcanic Rocks
System:	Tertiary		
Series:	Pliocene felsic volcanic rocks		
Code:	Tpf (decoded above as Era, System & Series)		

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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Component Name: ARIZO

Soil Surface Texture: very gravelly - sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively. Soils have very high and high hydraulic conductivity and low water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	8 inches	very gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COURSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 6.00 Min: 2.00	Max: 9.00 Min: 7.40
2	8 inches	60 inches	stratified	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COURSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COURSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 20.00 Min: 20.00	Max: 9.00 Min: 7.40

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: very gravelly - loamy sand
 very gravelly - fine sandy loam
 gravelly - sandy loam
 gravelly - fine sandy loam
 gravelly - sandy clay loam
 extremely gravelly - sandy loam
 fine sand
 loamy fine sand

Surficial Soil Types: very gravelly - loamy sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

very gravelly - fine sandy loam
 gravelly - sandy loam
 gravelly - fine sandy loam
 gravelly - sandy clay loam
 extremely gravelly - sandy loam
 fine sand
 loamy fine sand

Shallow Soil Types: indurated
 gravelly - sandy loam
 very gravelly - sandy loam
 very gravelly - sandy clay loam
 gravelly - silt loam
 extremely gravelly - sandy clay loam
 gravelly - fine sandy loam
 gravelly - clay
 very gravelly - sandy clay
 gravelly - sandy clay

Deeper Soil Types: extremely gravelly - coarse sandy loam
 extremely gravelly - coarse sand
 indurated
 very gravelly - coarse sandy loam
 cemented
 weathered bedrock
 sand

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater 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>
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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

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

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

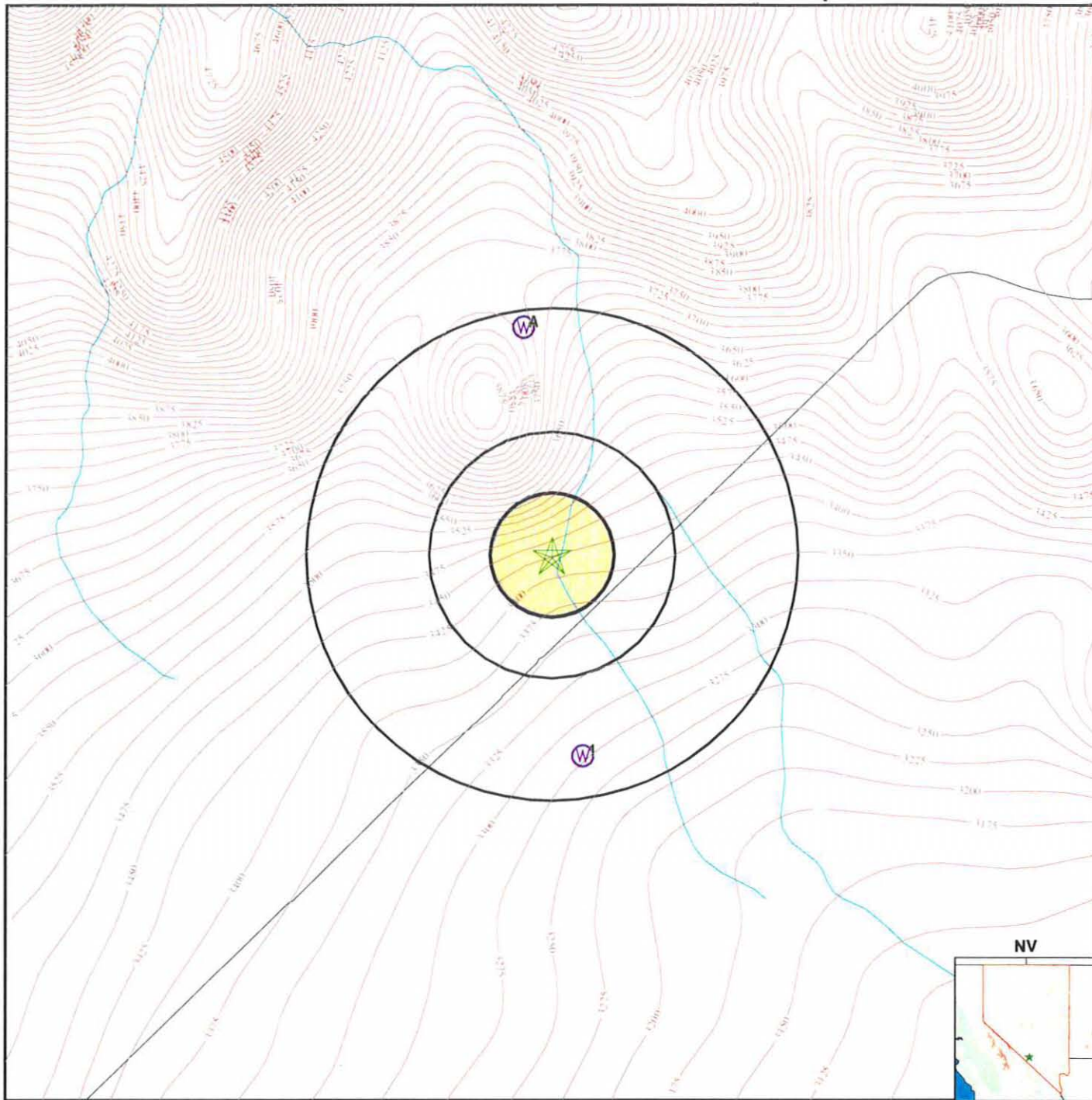
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

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>
1	NV00017229	1/2 - 1 Mile South
A2	NV00017191	1/2 - 1 Mile North
A3	NV00005286	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 1856478.3p



- Major Roads
- Contour Lines
- Water Wells
- Public Water Supply Wells
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Cluster of Multiple Icons

- Earthquake epicenter, Richter 5 or greater
- Closest Hydrogeological Data

TARGET PROPERTY: Bullforg Mine
 ADDRESS: Highway 374
 CITY/STATE/ZIP: Beatty NV 89020
 LAT/LONG: 36.8871 / 116.8171

CUSTOMER: URS Corporation
 CONTACT: Eric Willoughby
 INQUIRY #: 1856478.3p
 DATE: October 01, 2002 1:36 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
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1 South 1/2 - 1 Mile Lower	NV WELLS	NV00017229
--	----------	------------

Application Number:	Not Reported	
Owner's Name:	BONO GOLD	
Owner's Address:	BEATY NV	
Depth Drilled:	Not Reported	
County:	Nye	Well Use: other
Latitude:	365231	Longitude: 1164850

A2 North 1/2 - 1 Mile Higher	NV WELLS	NV00017191
--	----------	------------

Application Number:	51841	
Owner's Name:	LAC MINERALS	
Owner's Address:	HWY 374 W BEATTY NV	
Depth Drilled:	Not Reported	
County:	Nye	Well Use: public supply
Latitude:	365402	Longitude: 1164906

A3 North 1/2 - 1 Mile Higher	NV WELLS	NV00005286
--	----------	------------

Application Number:	51841	
Owner's Name:	LAC MINERALS	
Owner's Address:	HWY 374 BEATTY NV	
Depth Drilled:	Not Reported	
County:	Clark	Well Use: public supply
Latitude:	365402	Longitude: 1164906

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for NYE County: 2

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: 89020

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.300 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

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 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 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW[®] 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

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

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: 202-260-2805

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: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. 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 more than 900,000 wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

Nevada Ground Water Site Inventory

Source: Water Resources Division

Telephone: 702-887-7659

RADON

Area Radon Information

Source: EPA

Telephone: 303-236-1525

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: 202-564-9370

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

OTHER

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration



"Linking Technology with Tradition"

Sanborn® Map Report

Ship to: Eric Willoughby

URS Corporation

7180 Pollock Drive

Las Vegas, NV 89119

Order Date: 10/1/2002

Completion Date: 10/02/2002

Inquiry #: 856478.4S

P.O. #: Bullfrog Mine

Site Name: Bullforg Mine

Address: Highway 374

City/State: Beatty, NV 89003

1751179CMK

702-837-1500

Cross Streets:

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client-supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

NO COVERAGE

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The EDR-City Directory
Abstract

**Building 130
11075 Black Marble Way
Redding, CA 96003**

October 01, 2002

Inquiry Number: 854475-8

***The Source*
For Environmental
Risk Management
Data**

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Environmental Data Resources, Inc.

City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources*. *Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

To meet the prior use requirements of ASTM E 1527-00, Section 7.3.4, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-00 requires "*All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful.*" (ASTM E 1527-00, Section 7.3.4, page 12.)

EDR's City Directory Abstract includes a search and abstract of available city directory data.

City Directories

City directories have been published for cities and towns across the U.S. since the 1700s. Originally a list of residents, the city directory developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Twentieth century directories are generally divided into three sections: a business index, a list of resident names and addresses, and a street index. With each address, the directory lists the name of the resident or, if a business is operated from this address, the name and type of business (if unclear from the name). While city directory coverage is comprehensive for major cities, it may be spotty for rural areas and small towns. ASTM E 1527-00 specifies that a "*review of city directories (standard historical sources) at less than approximately five year intervals is not required by this practice.*" (ASTM E 1527-00, Section 7.3.4, page 12.)

Please call EDR Nationwide Customer Service at
1-800-352-0050 (8am-8pm EST)

with questions or comments about your report.

Thank you for your business!

Disclaimer

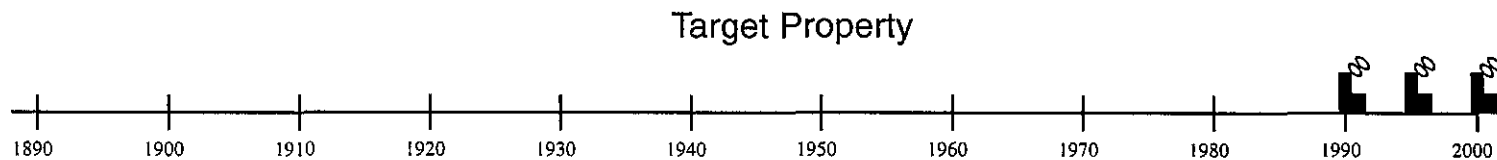
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Prior Use Report® Timeline



Legend:



= Historical Topographic Map (HT)



= National Wetland Inventory Map (WT) *

Superscript number corresponds to graph ID in text

**Displayed on timeline when aerial photos, flood prone, FEMA, wetland maps, or Aerial Research Summary are purchased.*



= Flood Prone/FEMA Maps (FP/FR) *



= Aerial Photos Included (P) *



= Aerial Photos Available *



= Residential (R)



= Commercial or Industrial (C)

Target Property: Building 130
Address: 11075 Black Marble Way
City/State/Zip: Redding, CA 96003

Customer: URS Corporation
Contact: Eric Willoughby
Inquiry #: 854475-8
Date: 10/1/2002

4. SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1959 through 2001. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources:
 City Directories Oct 01, 2002

Target Property:
 11075 Black Marble Way
 Redding, CA 96003

<u>PUR ID</u> <u>Year</u>	<u>Uses</u>	<u>Portion-Findings</u> <u>(FIM Information Only)</u>	<u>Source</u>
-- 1959	-Street not listed in research source		Polk City Directory
-- 1966	-Street not listed in research source		Polk City Directory
-- 1971	-Street not listed in research source		Polk City Directory
-- 1976	-Street not listed in research source		Polk City Directory
-- 1981	-Street not listed in research source		Polk City Directory
-- 1986	-Street not listed in research source		Polk City Directory
-- 1991	US Geological Survey		Polk City Directory
-- 1996	US Geological Survey		Polk City Directory
-- 2001	US Gov't Water Resources Div Shasta Dam & Power House		Polk City Directory

Adjoining Properties

SURROUNDING
 Multiple Addresses
 Redding, CA 96003

<u>PUR ID</u> <u>Year</u>	<u>Uses</u>	<u>Portion-Findings</u> <u>(FIM Information Only)</u>	<u>Source</u>
1959	**BLACK MARBLE WAY** -Street not listed in research source **BOULDER DR** -Street not listed in research source		Polk City Directory
1966	**BLACK MARBLE WAY** -Street not listed in research source **BOULDER DR**		Polk City Directory

PUR ID
Year Uses

Portion-Findings
(FIM Information Only)

Source

1966 (continued)

-Street not listed in research source

1971 ****BLACK MARBLE WAY****

Polk City Directory

-Street not listed in research source

****BOULDER DR****

Address not listed in research source (18623)

1976 ****BLACK MARBLE WAY****

Polk City Directory

-Street not listed in research source

****BOULDER DR****

Address not listed in research source (18623)

1981 ****BLACK MARBLE WAY****

Polk City Directory

-Street not listed in research source

****BOULDER DR****

Address not listed in research source (18623)

1986 ****BLACK MARBLE WAY****

Polk City Directory

-Street not listed in research source

****BOULDER DR****

Address not listed in research source (18623)

1991 ****BLACK MARBLE WAY****

Polk City Directory

Shasta Lanes (11093)

Sec-Clear Pools (11113)

Quicky's Food & Fuel (11113)

-No other addresses within range

****BOULDER DR****

Address not listed in research source (18623)

1996 ****BLACK MARBLE WAY****

Polk City Directory

Shasta Lanes (11093)

Dapper Dog (pet grooming) (11113)

Quicky's Food & Fuel (11113)

-No other addresses within range

****BOULDER DR****

J & K Muffler (18623)

2001 ****BLACK MARBLE WAY****

Polk City Directory

Churn Creek Auto/Truck Sales (11093)

<i><u>PUR ID</u></i>	<i><u>Uses</u></i>	<i><u>Portion-Findings</u></i> <i><u>(FIM Information Only)</u></i>	<i><u>Source</u></i>
2001 (continued)	Shasta Lanes (11093)		
	Grooming Unltd (pets) (11113)		
	Quicky's (produce market) (11113)		
	-No other addresses within range		
	<u>**BOULDER DR**</u>		
	J & K Muffler (18623)		

Glossary of Terms

A.A.A.

Aerial photograph flyer: Agriculture Adjustment Administration (Federal).

A.S.C.S

Aerial photograph flyer: Agricultural Stabilization and Conservation Service (Federal)

Address in Research Source

Indicates that a property is listed at a different address than the one provided by the user. Generally occurs when a property is located on a corner or, when the physical address of a property is different than its mailing address.

Address Not Listed in Research Source

Occurs when a specific site address is not listed in city directories and/or fire insurance maps.

Adjoining

Any property that is contiguous, or a property that would be contiguous if not for a public thoroughfare, to the target property. *To differentiate from each adjoining property, stand at the target property's "front door" facing the street.*

Adjoining Back

Property directly to the rear of the target property. (Applies only to fire insurance map data.)

Adjoining Front

Property directly in front of the target property. (Applies only to fire insurance map data.)

Adjoining Left

Property directly to the left of the target property. (Applies only to fire insurance map data.)

Adjoining Right

Property directly to the right of the target property. (Applies only to fire insurance map data.)

Adjoining Surrounding Area

Property that may adjoin the target property but due to lack of specific map information cannot be located precisely. This situation typically occurs when city directory information, but not fire insurance map information, is available.

C.A.S

Aerial photograph flyer: Chicago Aerial Survey (private).

C.S.S.

Aerial photograph flyer: Commodity Stabilization Service (Federal).

Cartwright

Aerial photograph flyer: Cartwright (private)

CD

City Directory

National Wetland Inventory Maps

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a division of the U.S. Department of the Interior. Wetland and deepwater habitat information is identified on a 7.5 minute U.S.G.S. topographic map. The classification system used categorizes these habitats into five systems: marine, estuarine, riverine, lacustrine and palustrine.

No Return

Indicates that site owner was unavailable at time of surveyor's contact. (*Applies only to city directories.*)

No Structure Identified on Parcel

Used when site boundaries and/or site address is indicated on a fire insurance map; no structure details exist.

Other

Occurs when the site's classification is different than EDR's standard categories. Examples may include undeveloped land and buildings with no specified function.

P.M.A.

Aerial photograph flyer: Production and Marketing Administration (Federal).

Pacific Aerial

Aerial photograph flyer: Pacific Aerial (private)

Portion

Refers to the fire insurance map information identified on the four quadrants of a target or adjoining property. The portions are referred to as *Frontright*, *Frontleft*, *Backright*, and *Backleft* and are determined as if one were standing at the front door, facing the street.

Property Not Defined

Used when property is not clearly demarcated on a fire insurance map.

Residential

Any property having fewer than five dwelling units used exclusively for residential purposes.

Residential with Commercial Uses (a.k.a. Multiple Purpose Address)

A business (firm) and residence at the same address. Examples include a doctor, attorney, etc. working out of his/her home.

Sidwell

Aerial photograph flyer: Sidwell (private).

Site Not Mapped

Occurs when an adjoining property has not been mapped by fire insurance map surveyors. (*Applies only to fire insurance map data.*)

Teledyne

Aerial photograph flyer: Teledyne (private)

Topographic Maps

Topographic maps are produced by the United States Geological Survey (USGS). These maps are color coded line and symbol representations of natural and selected artificial features plotted to scale.

Turnbow

Aerial photograph flyer: Michael Turnbow (private)

U.S.D.A.

Aerial photograph flyer: United States Department of Agriculture (Federal).

U.S.D.I.

Aerial photograph flyer: United States Department of the Interior (Federal).

U.S.G.S.

Aerial photograph flyer: United States Geological Survey (Federal).

Vacant

May refer to an unoccupied structure or land. *Used only when fire insurance map or city directory specifies 'vacant.'*

W.P.A.

Aerial photograph flyer: Works Progress Administration (Federal).

WALLACE

Aerial photograph flyer: Wallace (private).

APPENDIX C
HISTORIC REPORTS AND INFORMATION (UNDER SEPARATE COVER)
