



**DEPARTMENT OF THE ARMY
KANSAS CITY DISTRICT, CORPS OF ENGINEERS
700 FEDERAL BUILDING
KANSAS CITY, MISSOURI 64106-2896**

August 17, 2010

REPLY TO
ATTENTION OF:

Ms. Emily S. Brown
Chief, Environmental Branch
Directorate of Public Works – Environmental Division
1334 First Street, Building 2101
Fort Leonard Wood, Missouri 65473

Dear Ms. Brown:

Enclosed is the Environmental Baseline Survey for the Enhanced Use Lease 2010, prepared for the U.S. Army Installation Management Command and Fort Leonard Wood. As requested, five copies of the document are enclosed and a compact disc is included with each document.

Thank you for allowing the U.S. Army Corps of Engineers, Kansas City District to assist you in performing this work. If you have any questions regarding this transmittal, please contact me at (816) 389-3142 or Fred Molloy at (816) 389- 3499.

Sincerely,

A handwritten signature in black ink, appearing to read "Alan K. Gehrt".

Alan K. Gehrt
Project Manager

Enclosure

PREPARED FOR:

U.S. ARMY INSTALLATION MANAGEMENT COMMAND AND

FORT LEONARD WOOD



Environmental Baseline Survey Enhanced Use Lease - 2010 U.S. Army Installation Management Command and Fort Leonard Wood



U.S. ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT



Environmental Baseline Survey

Enhanced Use Lease - 2010

U.S. Army Installation Management Command

and

Fort Leonard Wood

Prepared by:

U.S. Army Corps of Engineers

Kansas City District

August 18, 2010

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List of Acronyms

ACM	asbestos-containing material
amsl	above mean sea level
AR	Army Regulation
AST	above-ground storage tank
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
DoD	Department of Defense
EBS	Environmental Baseline Survey
EPA	Environmental Protection Agency
EUL	Enhanced Use Lease
FOSL	Findings of Suitability to Lease
FOST	Findings of Suitability to Transfer
FRDS PWS	Federal Reporting Data System for Public Water Systems
FS	Feasibility Study
ft	feet
IRP	Installation Restoration Program
KVA	Kilovolt-Ampere
MDC	Missouri Department of Conservation
MDNR	Missouri Department of Natural Resources
NRCS	Natural Resources Conservation Service
NWI	National Wetland Inventory
NWIS	National Water Inventory System
pC/L	picocurie per liter
RI	Remedial Investigation
USGS	United States Geological Survey
UXO	unexploded ordnance

Executive Summary

Based on a review of available records, visual and physical site inspections, and interviews with key site personnel, the environmental condition of property area type for the Enhanced Use Lease was determined to be *Type 4* – an area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, and all remedial actions necessary to protect human health and the environment have been taken.

This Environmental Baseline Survey (EBS) was performed to determine the environmental condition and to facilitate the proposed lease of real property and proposed development of the Fort Leonard Wood Enhanced Use Lease. The subject property consists of approximately 60 acres of real property at the U.S. Army Installation Management Command and Fort Leonard Wood, Missouri. Fort Leonard Wood is located approximately 120 miles southwest of St. Louis, Missouri. The real property is bounded by East Fifth Street on the south and an area north of East Second Street on the north, by Replacement Avenue on the west, and Louisiana Avenue on the east (**Figure 2**).

This EBS is based on information obtained through records searches, interviews, and visual and physical inspections conducted in July and August 2010. The following activities were completed during this EBS:

- Visual site inspections (VSIs) of the subject property and adjacent properties, including any buildings, structures, equipment, pipe, pipeline, or other improvements (see photographic log in **Appendix A**)
- A review of environmental data reports (**Appendix B**)
- An evaluation of historical topographic maps (**Appendix C**)
- A review of Sanborn[®] fire insurance maps (**Appendix D**) prepared by Environmental Data Resources, Inc., (EDR)
- An evaluation of aerial photographs (**Appendix E**)
- Interviews with key site personnel involved with or with knowledge of the real property (**Appendix F**)
- A review of reasonably-obtained federal, state, and local government records for adjacent properties where there was a likely release of any hazardous substances or petroleum product, and which is likely to cause or contribute to environmental impacts on the subject property

The information obtained for this EBS describes historical activities, as well as current environmental conditions, at the subject property and adjacent properties. No environmental sampling was performed as a part of this EBS.

A VSI on July 7, 2010, focused on two parcels (Parcel 1 and Parcel 2) that constitute the southern portion of the subject property. *Parcel 1* is bounded by East Fifth Street on the south and East Fourth Street on the north. This parcel is unoccupied and vegetated with a mix of native grasses, wildflowers, poison ivy, and cedar, pine, hickory, and oak trees (**Photo 1**). *Parcel 2* is bounded by Oklahoma Avenue on the north and East Fourth Street on the south. This parcel is primarily unoccupied, heavily vegetated land, consisting of poison ivy and cedar, red bud, hickory, and oak trees (**Photo 2**). A cleared area of approximately four acres in the east-central portion of Parcel 2, along Oklahoma Avenue is occupied by relocatable buildings (Building Group 2097) (**Photo 3**). A photographic log is presented in **Appendix A**)

A VSI on August 6 focused on the northern portion of the subject property and the remaining parcels of land (Parcel 3 and Parcel 4). *Parcel 3* is bounded by East Second Street on the north and Oklahoma Avenue on the south. The majority of this parcel is unoccupied, heavily vegetated land, consisting of poison ivy and cedar, red bud, hickory, and oak trees. This parcel also contains Building Group 2380 (barracks) along Oklahoma Avenue. *Parcel 4* is bounded to the north and east by Louisiana Avenue and to the south by East Second Street. This parcel is primarily an open area with some trees but contains an underground cave for training troops (**Photo 4**).

1.0 Authority and Purpose of the Environmental Baseline Survey

1.1 Introduction

This Environmental Baseline Survey (EBS) was conducted according to the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, Section 120(h), as amended by the Community Environmental Response Facilitation Act of 1992 (CERFA). The information reviewed to prepare this EBS was obtained from standard historical use and environmental records sources, and Army Regulation (AR) 200-1 (2007), Environmental Protection and Enhancement. It meets the American Society for Testing and Materials (ASTM) Standard D 6008-96 (2005), Standard Practice for Conducting Environmental Baseline Surveys; ASTM Standard D 5746-98 (2002), Standard Classification of Environmental Condition of Property Area Types for Defense Base Closure and Realignment Facilities; and ASTM Standard E 1527-05 (2005), Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

The purpose of this EBS is to determine the environmental condition of the property identified as the Fort Leonard Wood Enhanced Use Lease for proposed development. The EBS was based on existing environmental information related to storage for one year or more, release into the environment, treatment or disposal on the property selected for transfer of hazardous substances or petroleum products or their derivatives. This information was used to determine or discover the obviousness of the presence or likely presence of a release or threatened release of any hazardous substance or petroleum product. The EBS also used information from surrounding property to determine its effect on the property selected for transfer.

1.2 Area Description

Fort Leonard Wood is located south of Interstate 44, approximately 120 miles southwest of St. Louis, Missouri, and 75 miles northeast of Springfield, Missouri. The installation occupies approximately 63,000 acres of the Ozarks Physiographic Province north of the Salem Plateau, located primarily in Pulaski County, but with small portions located in Texas and Laclede Counties. Most of Fort. Leonard Wood is situated on a broad ridge between the northerly-flowing Big Piney River to the east and the northerly-flowing Roubidoux Creek to the west (Mugel, 2004). Much of the surrounding land is part of the Mark Twain National Forest. The towns of Waynesville and St. Robert are the closest municipalities to the installation. Waynesville is the Pulaski County seat; and the commercial center of St. Robert adjoins the Interstate 44 business spur leading south into the installation. Other towns in the immediate area include; Rolla, Jefferson City, Big Piney, Roby, Plato, Lebanon, Crocker, Dixon, Iberia, Richland, Licking, and Vienna.

1.3 Property Description

The location of Fort Leonard Wood is shown on **Figure 1**. The approximately 60-acre property is comprised of contiguous parcels separated by installation roads and other

features. For the remainder of this document, the real property is described as four distinct parcels, as described below and presented on **Figure 2**.

- **Parcel 1** - located on the east side of Replacement Avenue, bounded by Buildings 2080 and 2081 on the west, Oklahoma Avenue on the east, East Fourth Street on the north, and East Fifth Street on the south.
- **Parcel 2** - located on the east side of Replacement Avenue, bounded by East Fourth Street on the south, and Oklahoma Avenue on the north and east.
- **Parcel 3** – located on the east side of Replacement Avenue, bounded by Oklahoma Avenue on the southwest, East Fourth Street on the south, Louisiana Avenue on the east, East Second Street on the north, and Replacement Avenue and Buildings 2110 and 2113 on the west.
- **Parcel 4** - located on the north side of East Second Street and the west side of Louisiana Avenue.

1.4 Objective

According to Department of Defense (DoD) policy, the objective of an EBS is to determine or discover and to document the obviousness of the presence or likely presence of a release or threatened release of any hazardous substance or petroleum product. An EBS collects all readily-available information about a tract of land and combines it into a single document to assist the Department of the Army in making decisions concerning real property transactions or other changes in land use. Although primarily a management tool, an EBS also assists the Army in meeting its obligations under CERCLA. An EBS is required by DoD before any property can be sold, leased, transferred, or acquired.

This EBS identifies recognized environmental conditions, defined as the presence or likely presence of any hazardous or petroleum substance under conditions that indicate an existing release, a past release, or the material threat of a release on the property or into the soil, groundwater, or surface water of the property. An EBS assists the Army by:

- Documenting the nature, magnitude, and extent of any visible or recorded environmental contamination of property or interests in property considered for acquisition, transfer, lease, sale, or other disposition
- Defining potential environmental contamination liabilities associated with the subject real property transaction
- Developing sufficient information to assess the health and safety risks, and ensure adequate protection of human health and the environment related to proposed future use of the property
- Providing the basis for notice when required under Section 120(h) (1) of CERCLA, 42 United States Code, Section 9620(h) (1), regarding the type, quantity, and time frame of any storage, release, or disposal of a hazardous substance on the property

Based on the analysis of available data, an EBS places properties into one of seven standard environmental condition of property area types as follows:

- Type 1** – Areas where no release or disposal of hazardous substances or petroleum products or their derivatives has occurred (including no migration of these substances from adjacent properties)
- Type 2** – Areas where only the release or disposal of petroleum products or their derivatives has occurred
- Type 3** – Areas where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but at concentrations that do not require a removal or remedial action
- Type 4** – Areas where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, and all remedial actions necessary to protect human health and the environment have been taken
- Type 5** – Areas where release, disposal, or migration or some combination thereof, of hazardous substances has occurred and removal or remedial actions, or both, are under way, but all required actions have not yet been taken
- Type 6** – Areas where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but required response actions have not yet been initiated
- Type 7** – Areas that are unevaluated or require additional evaluation

Areas classified as Types 1 through 4 are suitable for deed transfer to a non-federal recipient. Property lease or acquisition of tracts in the last three categories (Types 5 through 7) may be deferred until remedial actions or further studies have occurred. Specifically, this EBS is used to support a Findings of Suitability to Lease (FOSL) or Findings of Suitability to Transfer (FOST).

2.0 Description of Past and Current Activity on the Subject and Adjacent Properties

2.1 Sources of Information

Historical and current activities on the subject property and adjacent properties were identified by reviewing the following database search records obtained from Environmental Data Resources, Inc. (EDR): historical topographic maps; historical aerial photographs; and Sanborn[®] fire insurance maps. Information was also obtained by reviewing historical maps, previous reports maintained by the Directorate of Public Works (DPW) at Fort Leonard Wood, and by conducting interviews with individuals knowledgeable of the parcels and the installation, and performing VSIs.

The EDR Radius Map[™] Report with GeoCheck[®] includes a search of available federal and state environmental records within a one-mile radius of a point designated at the approximate center of the subject property. The search requirements meet the Environmental Protection Agency's (EPA's) Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), and the ASTM Standard Practice for Environmental Site Assessments (E 1527-05). Results of the records review are discussed in Section 4 of this report. The EDR Historical Topographic Map Report includes a collection of color historical topographic maps, from public and private sources, dating back to the mid 1900s. The EDR Aerial Photo Decade Package provides aerial photographs of the subject property for each decade, beginning in 1976. The Certified Sanborn[®] Map Report provides search results from the complete Sanborn Library collection. The EDR reports used for this EBS are presented in **Appendices B** through **D**.

2.2 Visual Site Inspection

The subject property was visually and physically inspected and photographed. VSIs were conducted on July 7, 2010, and August 6, 2010, to document current site conditions and hazardous substance use and storage. The July 7, 2010, VSI focused on two parcels (Parcel 1 and Parcel 2) that constitute the southern portion of the subject property. *Parcel 1* is bounded by East Fifth Street on the south, East Fourth Street on the north, Oklahoma Avenue on the east, and the University of Missouri Business and Technology Park complex to the west. This parcel is unoccupied, sparsely to moderately vegetated land, consisting of native grasses, cedar, hickory, pine, and oak trees. *Parcel 2* is bounded by Oklahoma Avenue on the north and east, East Fourth Street on the south, and Replacement Avenue on the west. This parcel is primarily unoccupied, heavily vegetated land, consisting of cedar, hickory, and oak trees. A cleared area of approximately four acres in the east central portion of Parcel 2, along Oklahoma Avenue is occupied by relocatable buildings (Building Group 2097) (**Photo 3**).

A VSI on August 6, 2010, focused on the northern portion of the subject property and the remaining parcels of land (Parcel 3 and Parcel 4). *Parcel 3* is bounded by East Second Street on the north and Oklahoma Avenue on the south. The majority of this parcel is unoccupied, heavily vegetated land, consisting of poison ivy and cedar, red bud, hickory,

and oak trees. This parcel also contains Building Group 2380 (barracks) along Oklahoma Avenue. *Parcel 4* is bounded to the north and east by Louisiana Avenue and to the south by East Second Street. This parcel is primarily an open area with some trees but contains an underground cave for training troops (**Photo 4**).

Parcel 1 – this property is unoccupied and vegetated with a mixture of native grasses, wildflowers, poison ivy, and cedar, pine, hickory, and oak trees (**Photo 1**). The northern portion of this parcel is a mix of native grasses, low-lying bushes, and trees sporadically located throughout. The southern portion of the parcel also contains native grasses and low-lying bushes but has a higher concentration of trees. Intermittent, unnamed drainages were present on the southern, wooded portion of the parcel and the general slope of the parcel is from east to west. Small debris piles were scattered throughout the property consisting of concrete rubble (pieces of cinder blocks), landscaping debris (wood mulch, black polypropylene fabric matting), clear polyethylene plastic sheeting, styrofoam packing sheets, paper trash, and asphalt rubble.

Two stonework structures were observed in the southeastern portion of Parcel 1. The first was a two-tiered, semi-circular structure approximately 22 feet (ft) wide by 33 ft long constructed of native stone and concrete surrounding a depressed area filled with random, volunteer plants and grasses (**Photo 5**). A fire pit, a stone bench and the base for a second bench were situated around the depressed area (**Photos 6 and 7**). An opening in the concrete on the west end of the depressed area contained a small-diameter galvanized steel pipe leading underground and away from the structure. The pipe was likely a drain pipe for what appeared to be a reflecting pond or patio and garden [as described in the *Finding of Suitability to Lease, Phase I of the Proposed Technology Park* (Tech Park FOSL) (BHE, 2000)]. The concrete opening is visible on the right side of **Photo 5** behind the stone cover with the handle.

The second structure was observed near the southwestern edge of the parcel. It consisted of a three-tiered amphitheater constructed of native stone at the head of an intermittent drainage. Based on a review of historical records, it is likely that both stonework structures were constructed by World War II prisoners of war (BHE, 2000).

According to the *Environmental Baseline Survey, Phase I of the Proposed Technology Park at Fort Leonard Wood, Missouri* (Tech Park EBS) (BHE, 2000), apparent fill or vent pipes associated with underground storage tanks were observed. These pipes could not be located during the July 7, 2010, VSI.

Parcel 2 – this property is heavily wooded, consisting of a mix of poison ivy and cedar, red bud, hickory, and oak trees (**Photo 2**). An intermittent, unnamed drainage was present in the center of the property and the general slope of the parcel is from east to west. Two areas, however, are cleared of vegetation. The first is a grassy area cleared for power lines and running parallel to Replacement Avenue along the northwest edge of the parcel. The second is an area of approximately four acres on the east central portion of the parcel abutting Oklahoma Avenue (**Figure 3**). This area is occupied by Building Group 2097 and is covered by a thick layer of three-inch limestone gravel. In addition to the structures, this

portion of the parcel also included one fire hydrant (**Photo 8**), four fire mains (with two manhole covers), one 25-KVA (Kilovolt-Ampere) transformer, one 150-KVA transformer, and four 500-KVA transformers. Another possible 25-KVA transformer was located on the southeast side of Building 2097 but was not marked.

Parcel 3 – this property is primarily heavily wooded, consisting of poison ivy and cedar, hickory, and oak trees. An intermittent, unnamed drainage was present in the center of the property the general slope of the parcel is from southeast to northwest. The southwest portion of this parcel also contains Building Group 2380 (barracks) along Oklahoma Avenue. The Tech Park EBS (Figure 2-2) identified a staging area in this area, however, it appears that the staging area has been covered by Building Group 2380 and associated parking lots.

A brick electrical substation and two, 1,000-gallon above-ground storage tanks (ASTs) were observed in the westernmost portion of the parcel off of Replacement Avenue. The ASTs appeared to be new and were situated on the south side of the electrical substation. The area is crossed by a natural gas pipeline with a northwest to southeast orientation and electrical lines with a southwest to northeast orientation. The power lines form the northern boundary of Parcel 4. Also in this area were the remnants of a swimming pool. Portions of the concrete floor (**Photo 9**) were observed during the VSI. The Tech Park EBS identified small-diameter steel pipes, similar to UST fill pipes or vent pipes, extending out of the ground in the area of the former swimming pool. No evidence of fill or vent pipes was observed during the VSI, however, small-diameter steel rebar (**Photo 10**) was observed and appeared to form the border of the former swimming pool. The shallow and deep ends of the swimming pool were still discernable.

Parcel 4 – this property is primarily an open area with some trees but contains an underground cave for training troops (**Photo 4**). Two entrances to the cave are covered by metal garage doors. The doors were locked and appear to be electronically controlled. Outside the cave entrance was six empty, rusted, 55-gallon metal drums apparently used in training exercises from the markings “TRNG USE” posted on the sides. A small, intermittent drainage bisects the parcel in a northeast to southwest orientation. Power lines form the boundary with the Chemical, Biological, Radiological, and Nuclear Responders Training Facility to the north and northwest. A power control box, a 25-KVA transformer, a water hydrant and drinking fountain (not working), a portable toilet, and a sanitary sewer manhole were observed in this parcel. Additional sanitary sewer manholes were also observed on the adjacent property between Building 2136 to the north and the Chemical, Biological, Radiological, and Nuclear Responders Training Facility to the northwest.

2.3 Historical Topographic Maps

United States Geological Survey (USGS) topographic maps were reviewed for the Waynesville and Devils Elbow Quadrangles. Topographic maps were reviewed from 1944, 1954, 1976, 1985, and 2004. Following is a summary of the topographic maps reviewed for the subject property and surrounding area:

- 1944, Waynesville Quad, Scale 1:62500: The subject property and vicinity are developed and identified as Fort Leonard Wood. Numerous buildings are located along East Fifth Street, East Fourth Street, and Oklahoma Avenue. Railroad tracks and buildings are shown along the east side of Louisiana Avenue. There are also numerous buildings shown northwest of the subject property along Replacement and East Second Street. Numerous buildings are also shown south of the subject property.
- 1954, Devils Elbow Quad, Scale 1:24000 and Waynesville Quad, Scale 1:62500: The subject property and vicinity appear to be relatively unchanged from the 1944 topographic map.
- 1976, Devils Elbow Quad, Scale 1:24000: The subject property and vicinity appear to be relatively unchanged from the 1944 topographic map.
- 1985, Devils Elbow Quad, Scale 1:24000: The subject property and vicinity appear to be relatively unchanged from the 1944 topographic map.
- 2004, Devils Elbow Quad, Scale 1:24000: The numerous buildings along East Fifth Street and East Fourth Street are no longer visible and a new structure has been built off of Replacement Avenue between East Fifth Street and East Fourth Street. Also, buildings previously shown along Oklahoma Avenue have been removed, with the exception of one building. Two of the buildings along Replacement Avenue between Oklahoma Avenue and East Second Street have been removed.

The number and location of structures on the subject property varied between 1944 and 2004. This number appeared to decrease with time, with the fewest number of structures being noted on the 2004 topographic map.

2.4 Sanborn[®] Fire Insurance Map Research

Sanborn[®] Maps were not available for the subject property as indicated in the certification provided by EDR in **Appendix D**.

2.5 Aerial Photograph Research

Aerial photos of the subject property and surrounding area were obtained from EDR for the following years: 1976, 1983, 1991, 1995, 2005, and 2006. Copies of the aerial photographs are included in **Appendix E**. The following observations were made during a review of the photographs:

- 1976 Aerial Photograph, Scale 1 inch = 1000 feet: The subject property and vicinity are a mix of developed and undeveloped land. There are numerous buildings present along East Fifth Street and East Fourth Street and a few buildings present along Oklahoma Avenue. Railroad tracks and buildings adjacent to the east side of the site are visible. A few buildings are visible along East Second Street and numerous buildings are visible outside the northwest portion of the subject property along

Replacement and East Second Street The majority of the subject property appears to be wooded (Parcels 2 and 3). The area to the west of the property appears to be heavily wooded with cleared areas adjacent to Replacement Avenue and East Fourth Street. A few buildings are visible along the north side of Oklahoma Avenue.

- 1983 Aerial Photograph, Scale 1 inch = 1000 feet: The subject property and vicinity appear much the same as in the 1976 photograph.
- 1991 Aerial Photograph, Scale 1 inch = 750 feet: The subject property and vicinity appear much the same as in the 1976 and 1983 photographs.
- 1995 Aerial Photograph, Scale 1 inch = 750 feet: Buildings along East Fourth Street and East Fifth Street are no longer visible. It also appears as though several buildings along the north side of East Second Street have been removed.
- 2005 Aerial Photograph, Scale 1 inch = 604 feet: Two new buildings are present on the south side of East Fourth Street. Multiple structures are visible in the cleared area along the southwest side of Oklahoma Avenue (Parcel 2). The majority of the buildings along the northwest side of the subject property have been removed. Much of the site still appears to be heavily wooded, as it has appeared since the 1976 photograph.
- 2006 Aerial Photograph, Scale 1 inch = 604 feet: No structures are visible in the cleared area along the southwest side of Oklahoma Avenue (Parcel 2). It appears as though vegetation has been cleared north of the intersection of East Second Street and Louisiana Avenue. Northwest of the subject property, in the area encompassed by the intersections of Army Avenue, East Second Street, and Replacement Avenue, a large area has been cleared of vegetation and a new structure is visible.

The number and location of structures on the subject property varied between 1976 and 2006. This number appeared to decrease with time. A marked decrease in structures was noted between 1995 and 2006, with the fewest number of structures noted on the 2005 aerial photograph. No evidence of any historical releases of hazardous substances or petroleum products was noted from an evaluation of the aerial photographs.

2.6 Historic Properties

According to information provided in the Tech Park FOSL (BHE, 2000), several stonework features constructed by World War II German prisoners-of-war are present in the area of the subject property. The majority of these stonework features are located south of the subject property and include amphitheatres, culverts, a series of check dams, and a patio and garden. Identified within the subject property were two amphitheatres located in the block bordered by Oklahoma Avenue, East Fourth Street, and Replacement Avenue (Parcel 2). No amphitheatres were observed in Parcel 2 during the July 7 or August 6, 2010, VSIs.

However, one amphitheater was observed during the July 7, 2010, VSI in the southeast corner of Parcel 1 near the intersection of Oklahoma Avenue and East Fifth Street.

The remaining stonework feature identified in the subject area by the Tech Park FOSL was a patio and garden located near Oklahoma Avenue and East Fourth Street. During the July 7, 2010, VSI a stonework feature was observed in the southeast corner of Parcel 1 near the intersection of Oklahoma Avenue and East Fifth Street. Based on the presence of an apparent drain pipe observed during the July 7, 2010, VSI, this feature is described in this report as a reflecting pond.

There was no evidence of any historical or current releases of hazardous substances or petroleum products related to these historic properties.

3.0 Description of Hazardous Substances and Petroleum Products Management Practices

This section presents findings of the records search, VSI, and interviews performed for the subject property. Information obtained from the records search is summarized below and provided in **Appendix B**.

The subject property does not appear to have been the site of either authorized or unauthorized disposal of hazardous waste. Based on the records search, VSI, and interviews, there is no evidence that hazardous materials, hazardous wastes, or petroleum substances are currently used or stored at the subject property, with the exceptions described in Section 3.8 (Storage Tanks), below. There were no current or historical hazardous substance operations (mapped sites) found in the EDR Radius Map™ Report with GeoCheck® involving the subject property or adjoining properties. According to this report, there is no evidence of any historical releases of hazardous substances or spills. Sources for the environmental records evaluated in this report are identified in the Executive Summary of the report provided in **Appendix B**.

3.1 Installation Restoration Program Contamination

The *Final FY2008 Fort Leonard Wood Army Defense Environmental Restoration Program Installation Action Plan* (2008 IAP) (Fort Leonard Wood, 2008) and the *FY2010 Fort Leonard Wood Army Defense Environmental Restoration Program Installation Action Plan* (2010 IAP) (Fort Leonard Wood, 2010) were reviewed as part of this EBS. These plans identify environmental cleanup requirements at sites or areas of concern and summarize the results of previous contaminant studies and investigations at the installation. No sites included in the 2008 IAP or 2010 IAP are located on or abutting the subject property. However, three Installation Restoration Program (IRP) sites are located northeast of and within a quarter mile of the subject property. These sites are identified in the IAP as FLW-056, CCFLW-001, and CCFLW-003. FLW-056 is a former dry cleaning and laundry facility (Building 2300); CCFLW-001 is the Army Laundry facility (Building 2352); and CCFLW-003 is the former print shop (Building 2350). Soil excavation and removal is complete at FLW-056 and long-term groundwater monitoring is in place. CCFLW-001 and CCFLW-003 are currently undergoing a Remedial Investigation/Feasibility Study (RI/FS) under the Compliance-related Cleanup program to investigate the release of hazardous substances to the environment.

3.2 Hazardous Substance or Petroleum Product Spills, Leaks, Discharges, Leaching, Injection, or Dumping

No evidence of environmental impacts related to hazardous substance or petroleum product spills, leaks, discharges, leaching, injection, or dumping was observed on the subject property during the VSIs. There were no pools of liquid, no stained soil and no evidence of stressed vegetation, dead or ill wildlife.

According to the Tech Park EBS, Building 2340/2341, adjacent to the subject property, was used to store hazardous materials (including paints, thinners, and solvents) until approximately 1993. Although it is only one structure, 2340 represents the the northern portion of the building and 2341 the southern portion. The building contains office and warehouse space. During the 2000 VSI, staining was observed on the wood floor of the warehousing portion of the building. No pools or accumulated liquids were visible. The staining did not appear sufficient to require cleanup. Building 2340/2341 was not inspected during the July 7 or August 6, 2010, VSIs.

3.3 Abandoned or Discarded Barrels or Containers

Based on the records search and interviews, there is no evidence of abandoned or discarded barrels or containers on the subject property. No abandoned or discarded barrels or containers were observed during the VSIs with one exception. A rusted, partially flattened, metal crate was observed in the northwest corner of Parcel 3 by the former swimming pool.

3.4 Automotive and Industrial Batteries

Based on the records search and interviews, there is no evidence of automotive or industrial batteries on the subject property. No automotive or industrial batteries were observed during the VSIs.

3.5 Pesticides/Herbicides

Based on the records search, VSIs, and interviews, there is no evidence that pesticides or herbicides were stored, manufactured, or disposed of on the subject property.

3.6 Paints or Other Chemicals

Based on the records search and interviews, there is no evidence of paints being stored in containers, cartons, sacks, storage bins, or canisters on the subject property. No evidence of paints or other chemicals was observed during the VSIs. According to the Tech Park EBS, paints, thinners, and solvents were previously stored in adjacent Building 2340/2341 until approximately 1993.

According to an interview with Ms. Emily Brown (DPW), used dry cleaning filter media waste was historically accumulated at the dry cleaning facility (Building 2300) located northeast of the subject property.

3.7 Drums

Based on the records search and interviews, there is no evidence of drums containing hazardous substances or petroleum products being stored at the subject property. Six empty, rusted 55-gallon metal drums were observed in Parcel 4 during the August 6, 2010, VSI, outside the entrance to the training caves. The drums were neatly arranged and had markings (TRNG USE) indicating they were still used for training exercises.

3.8 Storage Tanks

Reports collected by EDR and by DPW did not indicate the presence of any type of storage tank on the subject property. However, an interview with Ms. Emily Brown revealed that non-regulated heating oil tanks were previously located on the subject property.

According to the Tech Park FOSL, Buildings 2340/2341 and 2385, located east of the subject property, used heating oil stored in an AST. It also stated that most of the former buildings on the subject property used heating oil stored in ASTs to fire the boilers. The tanks at Buildings 2340/2341 and 2385 were removed in approximately 1995. The ASTs associated with the former buildings were removed when the buildings were demolished between approximately 1992 and 1997. No information was found regarding the size of the ASTs.

The Tech Park EBS identified small diameter steel pipes extending out of the ground near the northern and eastern boundaries of Parcel 1 and near the northwestern corner of Parcel 3. The pipes were identified as being similar to fill or vent pipes typical of small USTs. These pipes were not observed during the July 7 or August 6, 2010, VSIs. The only small-diameter hollow pipe observed during the VSIs was a single galvanized steel pipe leading underground away from the relecting pond/patio/garden structure near the southeastern corner of Parcel 1.

3.9 Fill Dirt from a Contaminated Site

Based on the records search and interviews, there is no evidence of fill dirt from a contaminated site being used at the subject property. No fill dirt was observed during the VSIs.

3.10 Fill Pipes

According to the Tech Park EBS apparent underground storage tank fill or vent pipes were observed on the northern and eastern boundaries of Parcel 1. A July 14, 2010, interview with Ms. Emily Brown also noted these findings. However, no fill pipes were observed during the July 7 or August 6, 2010, VSIs.

3.11 Polychlorinated Biphenyls

PCB-contaminated electrical equipment is defined in 40 CFR 761.3 as any electrical equipment that contains PCBs at concentrations between 50 and 500 parts per million (ppm) in the contaminating fluid. Electrical equipment with PCB concentrations greater than 500 ppm in the contaminating fluid is defined as PCB Electrical Equipment. Both PCB-contaminated electrical equipment and PCB electrical equipment are regulated for disposal under the Toxic Substances Control Act.

According to an interview with Ms. Emily Brown, electrical distribution at the subject property was privatized to Laclede Electric Cooperative. Laclede Electric Cooperative was

not contacted for this EBS. Additionally, FLW initiated a program to label and/or remove PCB or PCB-contaminated transformers throughout the installation.

Although historic electrical service may have included transformers containing PCB oils, there is no evidence of any releases of oils containing PCBs. According to the Tech Park EBS, Mr. Kim Miko, a representative of the DPW Environmental Office, said that all PCB-contaminated or PCB pole-mounted transformers at the installation were believed to have been removed, disposed of, and replaced with non-PCB transformers. All pad-mounted and vault-enclosed PCB transformers and PCB-contaminated transformers were believed to have been drained, flushed, refilled, and retested according to 40 CFR Section 30(h). Therefore, PCB-containing material is not believed to be present in transformers on the installation. During the August 6, 2010, VSI, one 25 KVA transformer was observed in Parcel 4 with a label stating "Non-PCB mineral oil."

3.12 Heavy Industrial Equipment

Based on the records search and interviews, there is no evidence of heavy industrial equipment, including hydraulic equipment in storage or use on the subject property. No evidence of heavy industrial equipment storage or use was observed during the VSIs.

3.13 Ditches

Based on the records search and interviews, there is no evidence of ditches subject to contaminated runoff or discharge on the subject property. No evidence of ditches subject to contaminated runoff or discharge was observed during the VSIs.

3.14 Railroad Loading/Unloading Areas

Based on the records search, VSI, and interviews, there is no evidence that railroad loading or unloading occurred on the subject property. However, railroad tracks are located east of Parcels 3 and 4.

3.15 Ordnance

For the Tech Park EBS several unexploded ordnance (UXO) investigation reports were obtained from DPW personnel. These records did not reveal any ranges near the subject property and no records related to the presence of UXO on or near the subject property were identified. The EDR records reviewed for this report do not show any identified ranges or UXO within a one-mile search radius.

3.16 Medical or Biohazardous Waste

Based on the records search and interviews, there is no evidence that medical or biohazardous wastes were stored or disposed of on the subject property. No evidence of medical or biohazardous waste storage or disposal was observed during the VSIs.

3.17 Radioactive Waste

Based on the records search interviews, and the previous EBS, there is no evidence that radioactive materials or wastes were stored or disposed at or adjacent to the subject property.

No evidence that radioactive materials or wastes were stored or disposed of on or adjacent to the subject property was observed during the VSIs.

3.18 Mercury

Based on the records search and interviews, there is no evidence of mercury at the subject property. No evidence of mercury use or disposal on the subject property was observed during the VSIs.

3.19 Solid Waste

Evidence of solid waste dumping was noted during the July 7 and August 6, 2010, VSIs. Small debris piles were scattered throughout Parcel 1. The debris consisted of concrete rubble (pieces of cinder blocks), landscaping debris (wood mulch, black polypropylene fabric matting), clear polyethylene plastic sheeting, styrofoam packing sheets, paper trash, and asphalt rubble. A rusted, partially flattened, metal crate was also observed in the northwest corner of Parcel 3 by the former swimming pool.

3.20 Asbestos

According to an interview with Ms. Emily Brown, buildings formerly located on the subject property were World War II-era wood facilities containing vinyl asbestos flooring, transite siding, and asbestos insulation around the flues and chimneys. Also, the Tech Park EBS, stated that asbestos surveys were conducted on the original buildings at the installation (constructed in 1941). According to this report, an asbestos-containing, fireproof door and insulation, installed around the flues in the ceiling, were identified in Buildings 2340 and 2341, adjacent to Parcel 3.

Asbestos-containing materials (ACMs) may not be used on Fort Leonard Wood. Buildings built in 1980 or after have a minimal chance of containing ACMs (DPW, 2010).

3.21 Radon

The Tech Park EBS noted that no radon testing had been conducted in the installation's buildings associated with the proposed lease. However, the state of Missouri radon database lists the average indoor radon concentration in Pulaski County, Missouri as 0.7 picocuries per liter (pC/L), which is below the EPA-recommended abatement level of 4.0 pC/L.

3.22 Lead-Based Paint

According to the interview with Ms. Emily Brown, buildings formerly located on the subject property were WWII era wood facilities with lead-based paint used on metal surfaces and railings.

According to the Tech Park EBS, lead-based paint surveys identified lead-based paint on and in original structures on the installation (constructed circa 1941). It is possible that lead-based paint was used on all structures built prior to 1978. Based on their age, buildings adjacent to the subject area, on the east side of Louisiana Avenue, may contain lead-based paint.

3.23 Adjacent Properties

Activities on the adjacent properties do not appear to have affected either the soils or vegetation in the subject area, based on records reviewed, personnel interviews, and the VSIs. The former dry cleaning and laundry facility (Building 2300), Army Laundry facility (Building 2352), and former print shop (Building 2350) are located northeast of the subject property. Activities associated with the former dry cleaning and laundry facility (Building 2300) have affected groundwater in the subject area. These facilities are discussed further in Sections 3.1 and 4.6.

4.0 Description of Subject Property and Adjacent Properties

4.1 Land Use

The majority of the subject property is unoccupied and covered by vegetation. Parcel 1 is unoccupied. Building Group 2097 (relocatable buildings) occupies the east-central portion of Parcel 2 and Building 2380 (barracks) occupies the southwest portion of Parcel 3. Parcel 4 is primarily an open area with some trees and contains an underground cave for training troops.

Surrounding the subject property to the south-southwest are office buildings (Buildings 2080 and 2081); to the south-southeast are apartments; to the east are commercial buildings; to the north are training grounds for the Chemical, Biological, Radiological, and Nuclear Responders Training Facility; and to the west are Buildings 2110 and 2113, and wooded areas, primarily along Replacement Avenue.

4.2 Physical Setting

4.2.1 Physiographic Province

Fort Leonard Wood lies within the Ozarks Physiographic Province north of the Salem Plateau. Most of the installation lies on an upland between the valleys of the Big Piney River on the east and Roubidoux Creek on the west. The region is characterized by karst topography with caves and sinkholes common across much of the area.

The elevation of the subject property ranges from approximately 1110 to 1125 ft above mean sea level (amsl). Generally, the subject property is at a higher elevation than most of the surrounding land.

4.2.2 Soil

The soils of the study area consist of coarse to fine-grained material formed on residual limestone and dolomite. The EDR Radius Map™ Report with GeoCheck® identified five soil units within one quarter mile of the intersection of Replacement Avenue and Oklahoma Avenue. These soil types are identified in **Appendix B**. The Natural Resources Conservation Service (NRCS) identified four soil units associated with the subject property. These soil types are presented on **Figure 4** and are described below.

- **Clarksville Unit** - Consists of very gravelly silt loam on 15 to 35 percent (%) slopes. The parent material for these soils is alluvium over residuum weathered from limestone. These soils form on hill slopes, shoulders, and side slopes. They are somewhat excessively drained, have a high capacity for transmitting water, and have a low available water capacity. These soils occupy approximately 56% of the subject property.
- **Viraton Unit** – Consists of silt loam on 3 to 8% slopes. The parent material is loess over pedisidiment over residuum weathered from limestone. These soils form on the

crest and summit of ridges. They are moderately well drained, have a moderately low capacity for transmitting water, and a low available water capacity. These soils occupy approximately 25% of the subject area.

- **Union Unit** – Consists of silt loam on 1 to 3% slopes. The parent material is loess over pedisidiment over residuum weathered from dolomite. These soils form on the crest and summit of interfluves. They are moderately well drained, have a very low to moderately low capacity for transmitting water, and low available water capacity. These soils occupy approximately 11% of the subject area.
- **Clarksville Unit** - Consists of very gravelly silt loam on 8 to 15% slopes. The parent material for these soils is slope alluvium over residuum weathered from limestone. These soils form on the shoulder and side slopes of hills. They are somewhat excessively drained, have a high capacity for transmitting water, and have a low available water capacity. These soils occupy approximately 8% of the subject property.

4.2.3 Geologic Formations

The EDR Radius Map[™] Report with GeoCheck[®] (**Appendix B**) and the generalized geologic map of Missouri (**Figure 5**) identify the bedrock outcropping in Pulaski County as Ordovician in age. Three formations are exposed at Fort Leonard Wood. The thickness of these units beneath the installation are, from youngest to oldest, the Jefferson City Dolomite (pre-erosion thickness of approximately 200 ft), the Roubidoux Formation (pre-erosion thickness of approximately 200 ft and common thickness of less than 120 ft), and the Gasconade Dolomite (200 ft to 350 ft). A description of these units is as follows:

Jefferson City Dolomite - generally described as light-brown to brown, medium to finely-crystalline dolostone and argillaceous (clayey) dolostone with chert. It may be medium to thick bedded and locally contain lenses of orthoquartzite, conglomerate, and shale. A massive pitted bed locally referred to as the Quarry Ledge occurs in the lower portion of the Jefferson City Dolomite approximately 30 ft above the contact with the underlying Roubidoux Formation. The Jefferson City Dolomite occurs near the tops of ridges south of Forney Army Airfield and is not present north of that point due to erosion.

Roubidoux Formation - generally occurs as dolostone to cherty dolostone to sandy dolostone to sandstone. Dolomitic sandstone and quartzose sandstones have also been described. The Roubidoux Formation outcrops across most of the Fort Leonard Wood Military Reservation except the south-central portion which is covered by the Jefferson City Dolomite. The amount of sandstone within the Roubidoux Formation ranges from 10% to 25% throughout most of the installation. The sandstones are composed of fine- to medium-grained quartz sand, characteristically sub-rounded and frosted. The sandstones are gray and brown when weathered, light yellow, tan, or red when slightly weathered at the surface, and are white in the subsurface. The sandstones occur as discontinuous irregular lenticular bodies with limited lateral extent. The dolostone is finely crystalline, light gray to brown, and thick bedded. Individual dolostone beds may contain brown to gray banded oolitic sandy-chert layers. Substantial dissolution of the more dolomitic lower portions of the unit has resulted in the collapse of overlying less soluble sandstone-rich layers and the formation of a pattern

of shallow steep-sided folds in the sandstones. Intense dissolution of dolomitic portions of the Roubidoux Formation has left thick deposits of chert-rich clay and sandstone layers

(relict beds) as insoluble residues. These insoluble residues are important to the design and construction of structures at the installation since they are extremely extensive, very difficult to characterize, and extremely variable in their engineering properties.

A 1949 study (Grohskopf, 1949), stated that the Roubidoux Formation has a brown quartzose oolitic cherty zone, 25 ft to 40 ft thick, near the top of the unit. Below this zone white oolitic smooth chert imbedded in sandstone is prevalent. Sandy chert is also prevalent in the Roubidoux. The report added that the sand zones and sand lenses are discontinuous and their stratigraphic position is difficult to identify locally.

Gasconade Dolomite - predominantly a cherty dolostone. It is light brown-gray with a persistent sandstone near its base (Gunter Sandstone) and a 10-foot to 15-foot thick stromatolitic-chert zone approximately 30 ft to 50 ft below the top of the unit. The upper Gasconade Dolomite is massive bedded, medium to finely-crystalline dolostone, with minor chert and sandstone stringers. The upper portion may contain a 4-foot thick intraformational conglomerate that may represent a zone of greater permeability. Most caves and springs in the area occur in the upper Gasconade Dolomite. The lower Gasconade Dolomite is medium to thin bedded, finely- to coarsely-crystalline dolostone, with greater than or equal to 50% chert by volume.

4.2.4 Groundwater

Regional groundwater flow at Fort Leonard Wood is controlled by a north trending structural bedrock ridge on the base of the Roubidoux Formation, and the upland area between the Big Piney River and Roubidoux Creek valleys. This bedrock high creates a groundwater, as well as a surface water, flow divide resulting in groundwater flow generally east toward the Big Piney River and west toward Roubidoux Creek. The groundwater flow has been described by Mugel and Schumacher (Mugel, 2004) as "...a complex combination of diffuse flow through porous residual material and bedrock and conduit flow through solution enlarged openings along bedding planes and interconnected fractures." Solution-enlarged openings predominantly occur along bedding planes rather than along vertical jointing or fractures, which is the more common condition elsewhere in the state. The permeability of bedrock units in the Fort Leonard Wood vicinity is greatly increased by dissolution of dolomitic carbonate rock. Dissolution of carbonate rock has resulted in well-developed karst features on the installation, including caves, springs, and over 220 identified sinkholes. Due to development of sinkholes, caves, and other solution enlarged openings within the rock, particularly in the Gasconade Dolomite; conduit flow is capable of transmitting large quantities of groundwater. Water-supply wells would, however, have to intersect these interconnected enlarged conduits to produce substantial yields.

The majority of the water supply for Fort Leonard Wood is derived from the Big Piney River rather than from wells. There are numerous low-yielding water supply wells scattered across the installation to supply various training areas. One higher-capacity well is located at Indiana Avenue but provides only a small percentage of the water used by the installation.

The water table at Fort Leonard Wood occurs within the Gasconade Dolomite at varying depths and generally dips to the north. It occurs at approximately 1,100 ft amsl at the extreme southern end of the installation; at approximately 850 ft amsl beneath Forney Army Airfield; and at approximately 800 ft amsl at the extreme northern boundary. The depth to groundwater ranges from approximately 130 ft to more than 300 ft, depending on the location.

4.3 Drinking Water and Well Search Database

The The EDR Radius Map™ Report with GeoCheck® included information regarding the presence of wells and water supply storage tanks within a one-mile radius of the subject property. The USGS National Water Inventory System (NWIS), the Federal Reporting Data System for Public Water Systems (FRDS PWS), and the Missouri Public Drinking Water Wells databases were searched. The USGS NWIS database identified 16 wells within a one-mile radius of the site. Of these wells, 13 are likely monitoring wells while the other three wells are either used to lower the groundwater level or as water supply wells. According to the Missouri Department of Natural Resources (MDNR) 2008 Census of Missouri Public Water Systems, the installation's water system serves a population of 24,000, with 95% of the water collected from surface water, and 5% collected from well water. The installation receives most of its water supply from a surface-water intake in the Big Piney River (Mugel, 2003). The FRDS PWS and the Missouri Public Drinking Water Wells databases did not identify any wells or public water supply systems within a one-mile radius of the site.

4.4 Ecology

The vegetation on Fort Leonard Wood is diverse. Within the Natural Divisions of Missouri, FLW is located in Missouri's Ozark Natural Division, Upper Ozark Section. MDNR and the Missouri Department of Conservation (MDC) developed classifications for the terrestrial natural communities of Missouri based on substrate, moisture and/or dominant plants. Fort Leonard Wood has approximately 40 different natural communities based on this classification. Dominant plant community types include upland forest, bottomland forest, savanna, prairie, marsh, and swamp (Parsons, 2006).

Approximately 75% of the vegetative cover of Fort Leonard Wood is forest. The oak-hickory association is dominant, with the sycamore-elm-soft maple association frequently found along creeks and river bottomlands. The vegetative cover on north facing slopes consists of black, red, and white oaks with an under story of dogwood, shadbush and redbud. As the landform orientation becomes southerly, the plant composition changes to post oak, blackjack oak, and black hickory. Other common species present include black cherry, sugar maple, hawthorn, slippery elm, hackberry, buckeye, and hornbeam. Herbaceous under story is mostly absent on the dry uplands with closed canopies, but may include bush clover, panic grass, Virginia creeper, poverty oat grass, and wood sorrel, when the canopy is more open. Moist bottomland forests have a denser under story that contains pale violet, greenbrier, bellflower, jewelweed, may apple, and golden ragwort. There are several shortleaf pine stands located throughout the installation (Parsons, 2006).

4.5 Wetlands and Floodplains

No wetlands were identified on the subject property using National Wetlands Inventory (NWI) maps, USGS maps, soil survey maps for Pulaski County, and Natural Resources Conservation Service (NRCS) aerial photographs. One small wetland, however, was identified southwest of Parcel 2. This wetland is further described on the NWI website as a freshwater pond. The wetland is located west of Replacement Avenue and north of Michigan Avenue between East Fourth Street and East Fifth Street.

The subject property was not identified as being located within a floodplain.

4.6 Off-Site Findings

EDR performed a database search of federal and state records to assess potential off-site locations within a one-mile radius of a center location (Replacement Avenue/Oklahoma Avenue) to the subject property. The EDR reports are provided in **Appendices B through D**. The only identified site within the subject property was the Fort Leonard Wood installation.

Records were also reviewed for the two IRP sites located northeast of the subject property – the former dry cleaning and laundry facility (Building 2300) (FLW-056) and the Army Laundry facility (Building 2352) (CCFLW-001). Groundwater contamination has migrated from FLW-056 into the subject property, and long-term groundwater monitoring is currently in place to assess groundwater contaminant concentrations over time. Land use controls incorporated into the Base Master Plan will prevent the installation of wells within the area of the groundwater plume (Army, 2006). CCFLW-001 is currently undergoing an RI/FS to investigate the release of hazardous substances to the environment.

4.7 Personnel Interviews

Key Fort Leonard Wood personnel provided information about activities at the subject property and adjacent properties, including hazardous waste and petroleum substances usage or storage. An interview questionnaire, in conformance with ASTM 1528, was used to document the information and to provide consistent questions. The interviewees that contributed information to this EBS are identified below. Follow-up telephone calls were made to interviewees or other knowledgeable Fort Leonard Wood personnel, as necessary. The interview questionnaires are provided in **Appendix F**.

- Emily Brown, DPW, Chief, Environmental Branch
- Shannon Cain, DPW, Physical Scientist, Environmental Division
- Keith Duncan, DPW, Environmental Scientist, Environmental Branch
- Mark Lenox, DPW, Environmental Engineer, Environmental Branch
- Bryan Parker, DPW, Master Planner, Environmental Division
- Angela Rinck, DPW, National Environmental Policy Act, Storm Water, Spill Prevention and Response, Environmental Branch
- Carl Stenger, DPW, Physical Scientist, Environmental Branch

4.8 Other Relevant Information

No other relevant information was obtained regarding potential environmental concerns or the potential viability of the subject property for lease.

5.0 Description of On-going Response Actions On Site and On Adjacent Properties

Based on a review of the EDR reports and other records, personnel interviews, and VSIs, there is no evidence that hazardous substances were stored, released, or disposed of on the subject property, with the exception of the historically used (unregulated) heating oil tanks previously located on the subject property (Brown, 2010). As a result, there are no remediation agreements associated with the subject property and, therefore, no need for any notifications relating to hazardous substance storage, release, or disposal activities.

According to the 2008 IAP and 2010 IAP, three IRP sites are located near the subject property. The former dry cleaning and laundry facility (Building 2300) was approximately one acre in size and was located at the southeast corner of the intersection of East First Street and Louisiana Avenue. The building was demolished in 1987. The soil and groundwater was contaminated with chlorinated solvents. Soil excavation and removal has been completed at the site and long-term groundwater monitoring is currently in place. Land use controls incorporated into the Base Master Plan will prevent the installation of wells within the area of the groundwater plume.

The Army Laundry facility (Building 2352) is located just south of and adjacent to the former dry cleaning facility. The property is currently undergoing an RI/FS under the Compliance-related Cleanup program to investigate the release of hazardous substances to the environment (USACE, 2009). Chlorinated solvents have been detected in the soil and sediment and in drain lines associated with the facility.

The former print shop (Building 2350) is located just south of and adjacent to the Army Laundry facility. The property is currently undergoing an RI/FS under the Compliance-related Cleanup program to investigate the release of hazardous substances to the environment.

6.0 Recommended Course of Action and Environmental Condition of Property

One environmental concern was identified during this study. Groundwater contamination from an adjacent property [former dry cleaning and laundry facility (Building 2300)] has migrated into the subject property. Based on this finding, a review of available records, visual and physical site inspections, and interviews with key site personnel, the environmental condition of property area type for the subject property was determined to be *Type 4* – an area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, and all remedial actions necessary to protect human health and the environment have been taken. As such, the subject property is suitable for lease within the federal government.

As stated earlier, the Tech Park EBS identified small diameter steel pipes, similar to fill or vent pipes typical of small USTs, in Parcels 1 and 3. It recommended an investigation to determine the presence of the USTs and, if present, their removal. These fill/vent pipes were not observed during the July 7 or August 6, 2010, VSIs.

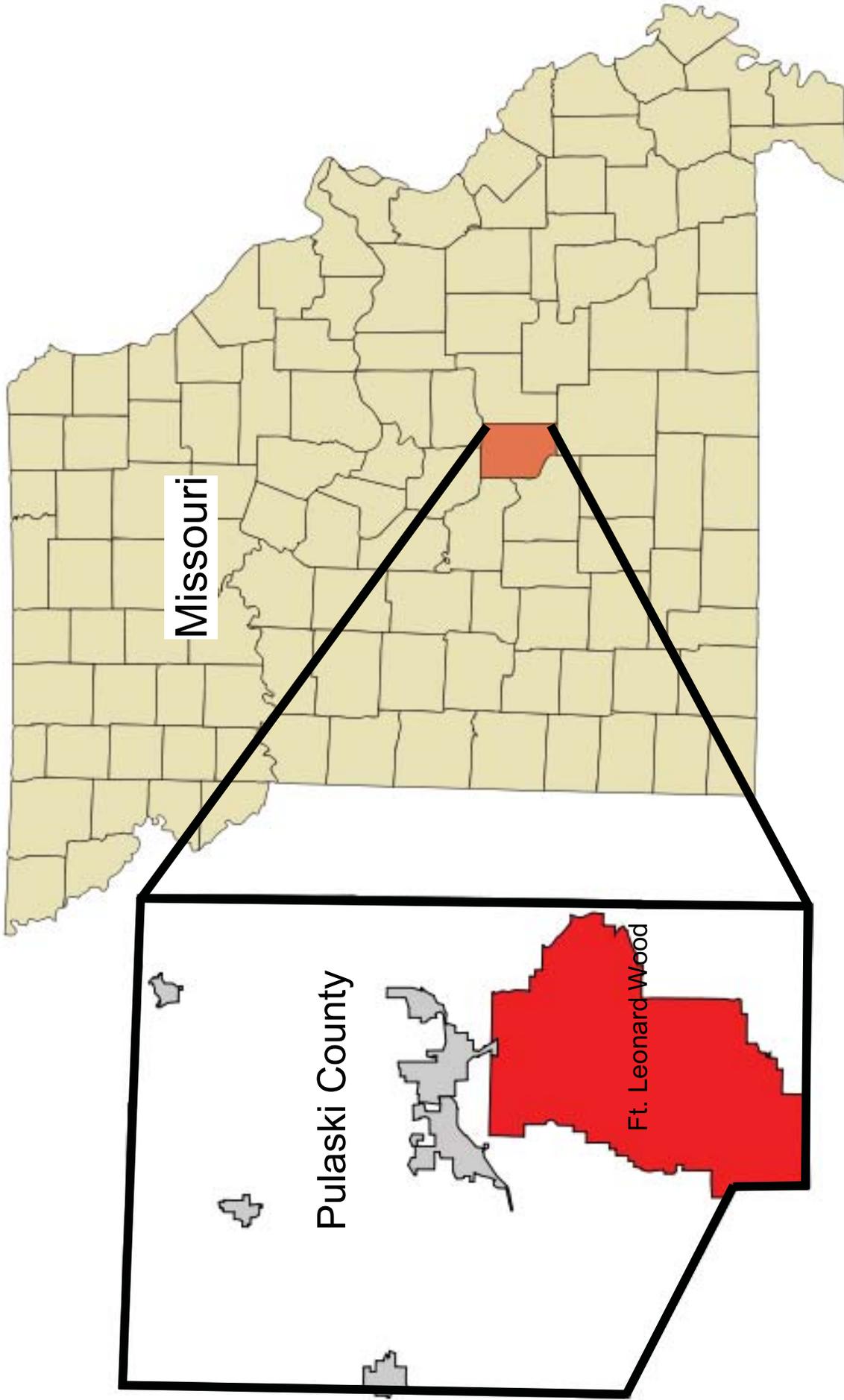
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FIGURES



Missouri

Pulaski County

Ft. Leonard Wood



Figure 1
Location Map
Environmental Baseline Survey – Enhanced Use Lease – 2010
Fort Leonard Wood, Missouri

August 2010

105 Feet

Base map: Wikimedia 2010



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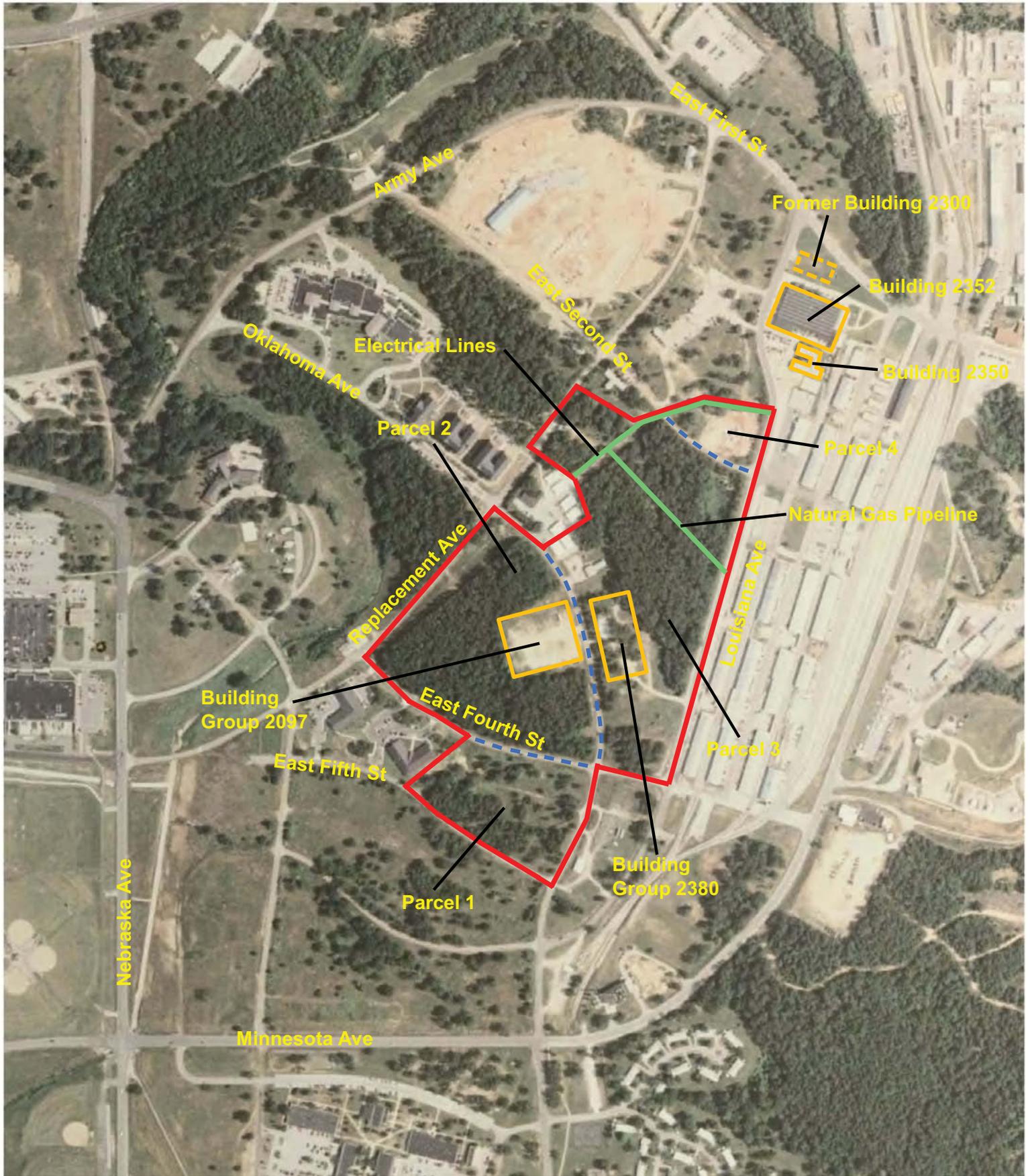
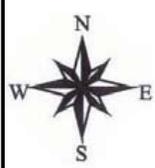


Figure 2
Environmental Baseline Survey – Enhanced Use Lease – 2010
Fort Leonard Wood, Missouri



**US Army Corps
of Engineers®
Kansas City District**



August 2010



- Parcels
- EUL Boundary
- Building
- Utilities

Base map: 2006 Aerial Photograph

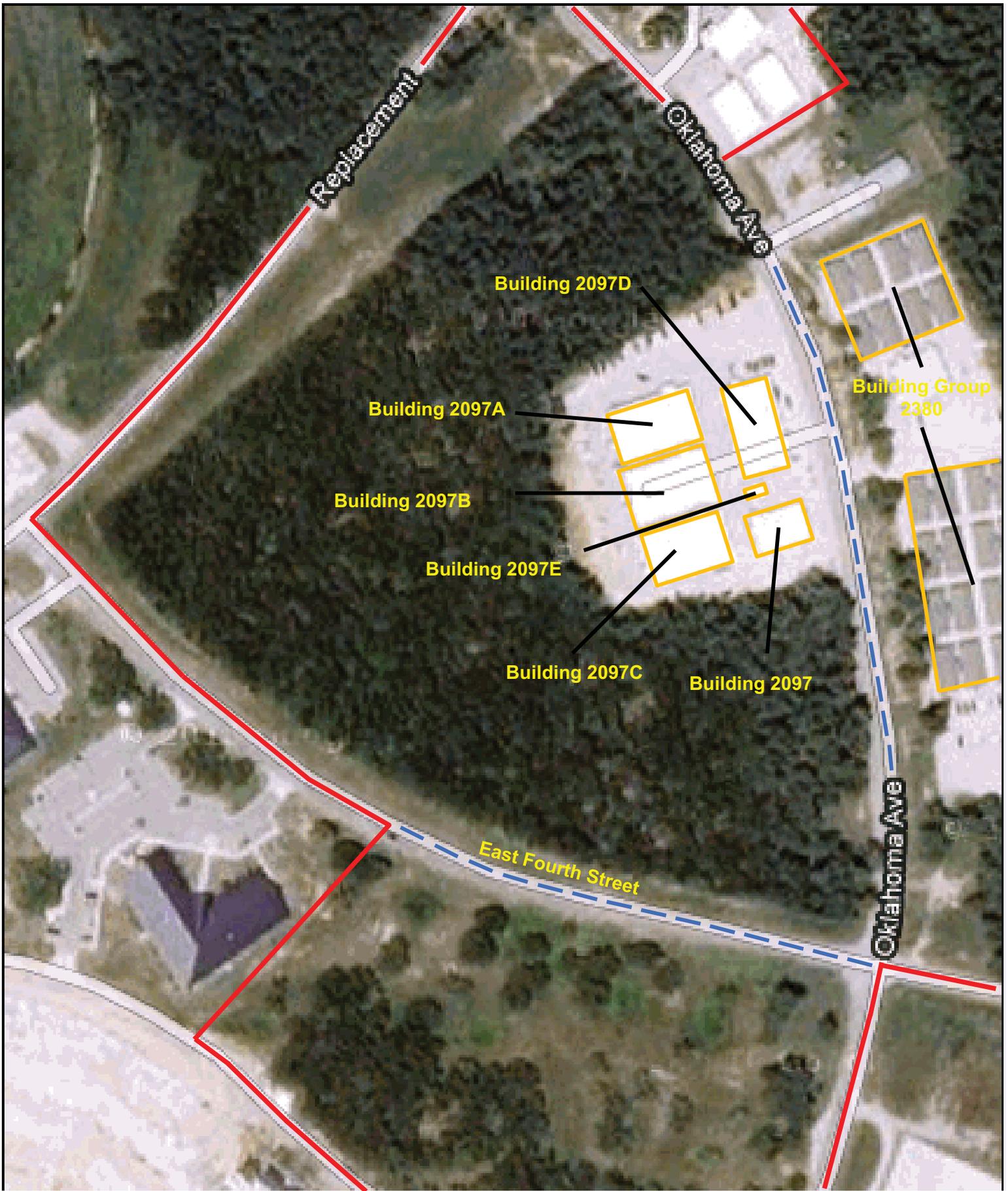


Figure 3
Parcel 2 - Environmental Baseline Survey - Enhanced Use Lease - 2010
Fort Leonard Wood, Missouri



August 2010

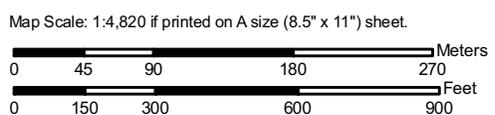
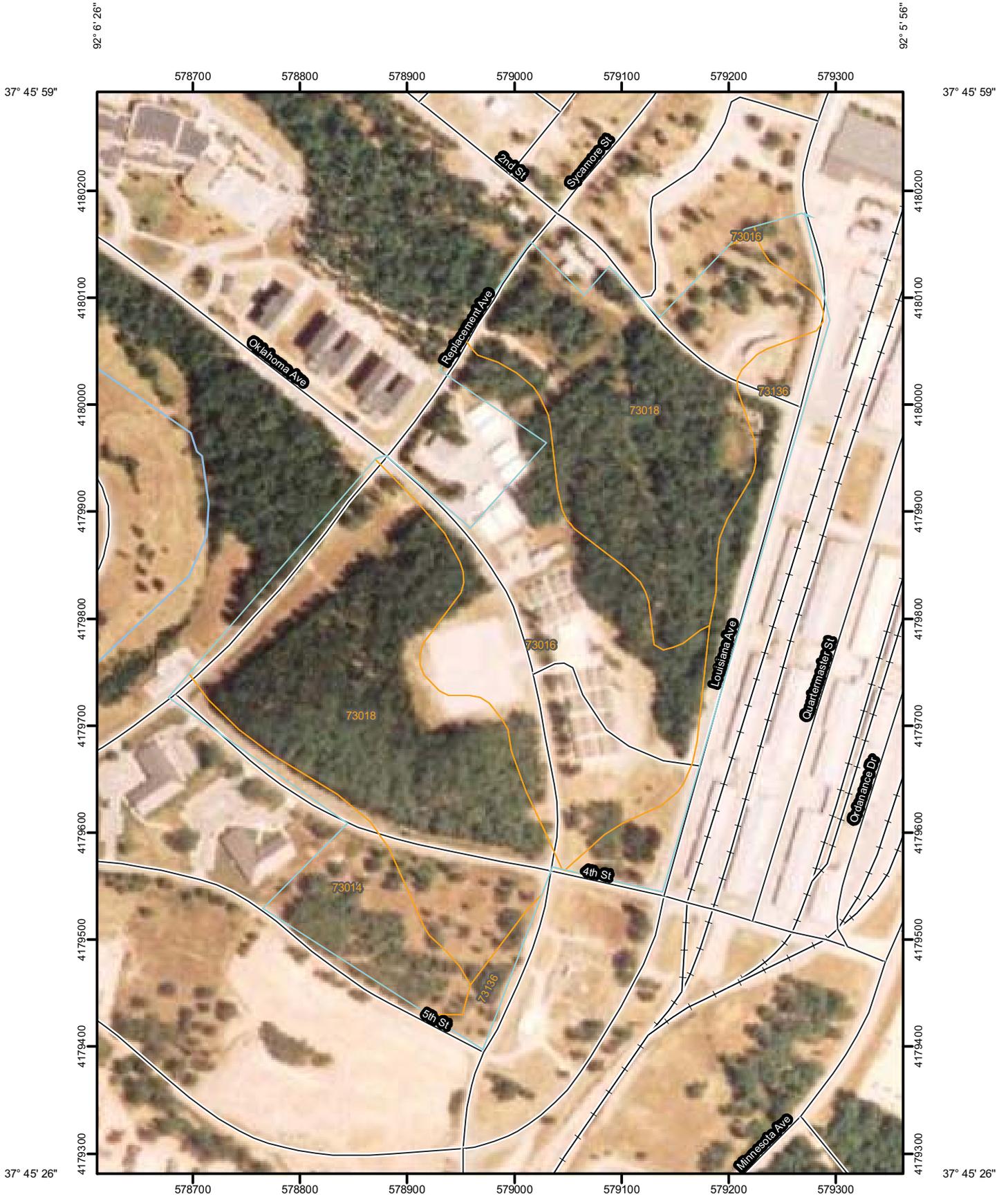


-- Parcels — EUL Boundary
 Building
 Base map: 2010 USDA Digital Image



**US Army Corps
 of Engineers®**
Kansas City District

Soil Map—Pulaski County, Missouri
(Figure 4)



MAP LEGEND

-  Area of Interest (AOI)
-  Area of Interest (AOI)
- Soils**
-  Soil Map Units
- Special Point Features**
-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot

MAP INFORMATION

Map Scale: 1:4,820 if printed on A size (8.5" x 11") sheet.
 The soil surveys that comprise your AOI were mapped at 1:24,000.
 Please rely on the bar scale on each map sheet for accurate map measurements.
 Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: UTM Zone 15N NAD83
 This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.
 Soil Survey Area: Pulaski County, Missouri
 Survey Area Data: Version 10, Jun 4, 2009
 Date(s) aerial images were photographed: 8/12/2007

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

-  Very Stony Spot
-  Wet Spot
-  Other
- Special Line Features**
-  Gully
-  Short Steep Slope
-  Other
- Political Features**
-  Cities
- Federal Land**
-  Department of Defense
- Water Features**
-  Oceans
-  Streams and Canals
- Transportation**
-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Map Unit Legend

Pulaski County, Missouri (MO169)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
73014	Clarksville very gravelly silt loam, 8 to 15 percent slopes	4.9	8.2%
73016	Viraton silt loam, 3 to 8 percent slopes	15.0	25.1%
73018	Clarksville very gravelly silt loam, 15 to 35 percent slopes	33.4	56.0%
73136	Union silt loam, 1 to 3 percent slopes	6.4	10.7%
Totals for Area of Interest		59.7	100.0%

APPENDICES

APPENDIX A



Photo 1

Date: July 7, 2010

Location: Parcel 1, Enhanced Use Lease - 2010, Fort Leonard Wood, Missouri

Description: Unoccupied parcel with a vegetative cover of native grasses, wildflowers, poison ivy, and cedar, pine, hickory, and oak trees.



Photo 2

Date: July 7, 2010

Location: Parcel 2, Enhanced Use Lease - 2010, Fort Leonard Wood, Missouri

Description: Typical vegetative cover in Parcel 2 consisting of poison ivy and cedar, red bud, hickory, and oak trees.



Photo 3

Date: July 7, 2010

Location: Parcel 2, Enhanced Use Lease - 2010, Fort Leonard Wood, Missouri

Description: Relocatable barracks along Oklahoma Avenue in the east-central portion of Parcel 2.



Photo 4

Date: August 6, 2010

Location: Parcel 4, Enhanced Use Lease - 2010, Fort Leonard Wood, Missouri

Description: Entrance to underground cave used for training troops. A second entrance is just to the right in this photograph. The six, 55-gallon metal drums were empty and designated "TRNG USE."



Photo 5

Date: July 7, 2010

Location: Parcel 1, Enhanced Use Lease - 2010, Fort Leonard Wood, Missouri

Description: Stonework structure in the southeast portion of Parcel 1 constructed by World War II prisoners of war.



Photo 6

Date: July 7, 2010

Location: Parcel 1, Enhanced Use Lease - 2010, Fort Leonard Wood, Missouri

Description: Stone bench in the southeast portion of Parcel 1 constructed by World War II prisoners of war.



Photo 7

Date: July 7, 2010

Location: Parcel 1, Enhanced Use Lease - 2010, Fort Leonard Wood, Missouri

Description: Fire pit and based of stone bench in the southeast portion of Parcel 1 constructed by World War II prisoners of war.



Photo 8

Date: August 6, 2010

Location: Parcel 2, Enhanced Use Lease - 2010, Fort Leonard Wood, Missouri

Description: Fire hydrant surrounded by protective bollards at Building Group 2097. Two of four fire mains are shown in the background.



Photo 9

Date: August 6, 2010

Location: Parcel 3, Enhanced Use Lease - 2010, Fort Leonard Wood, Missouri

Description: Concrete floor of former swimming pool. White-colored area is the painted surface of the pool.



Photo 10

Date: August 6, 2010

Location: Parcel 3, Enhanced Use Lease - 2010, Fort Leonard Wood, Missouri

Description: Steel rebar in the area of the former swimming pool.

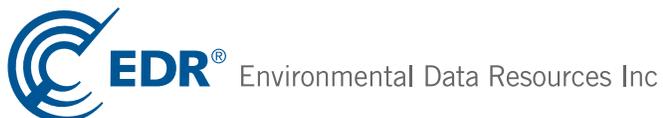
APPENDIX B

Fort Leonard Wood

Replacementave/Oklahomaave
Fort Leonard Wood, MO 65473

Inquiry Number: 2812526.2s
July 09, 2010

The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

REPLACEMENTAVE/OKLAHOMAAVE
FORT LEONARD WOOD, MO 65473

COORDINATES

Latitude (North): 37.761300 - 37° 45' 40.7"
Longitude (West): 92.104100 - 92° 6' 14.8"
Universal Transverse Mercator: Zone 15
UTM X (Meters): 578914.7
UTM Y (Meters): 4179504.0
Elevation: 1110 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 37092-G1 DEVILS ELBOW, MO
Most Recent Revision: 1985

South Map: 37092-F1 BIG PINEY, MO
Most Recent Revision: 1976

West Map: 37092-G2 WAYNESVILLE, MO
Most Recent Revision: 1985

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 search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site List

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

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

Federal institutional controls / engineering controls registries

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

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

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

SWF/LF..... Permitted Facility List

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

UST..... Petroleum Storage Tanks

EXECUTIVE SUMMARY

AST..... Aboveground Petroleum Storage Tanks
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

AUL..... Sites with Controls

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup Program Site Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
SWRCY..... Solid Waste Recycling Facilities
HIST LF..... Solid Waste Facility Database List
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
DEL SHWS..... Registry Sites Withdrawn or Deleted
CDL..... Environmental Emergency Response System
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information
LUCIS..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Environmental Response Tracking Database

Other Ascertainable Records

RCRA-NonGen..... RCRA - Non Generators
DOT OPS..... Incident and Accident Data
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees

EXECUTIVE SUMMARY

ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
UIC.....	Underground Injection Wells Database
DRYCLEANERS.....	Drycleaners in Missouri Listing
MO RRC.....	Certified Hazardous Waste Resource Recovery Facilities
NPDES.....	Permitted Facility Listing
AIRS.....	Permit Facility Listing
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
COAL ASH DOE.....	Sleam-Electric Plan Operation Data
FINANCIAL ASSURANCE.....	Financial Assurance Information Listing
COAL ASH.....	Coal Ash Disposal Sites

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

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

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

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

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

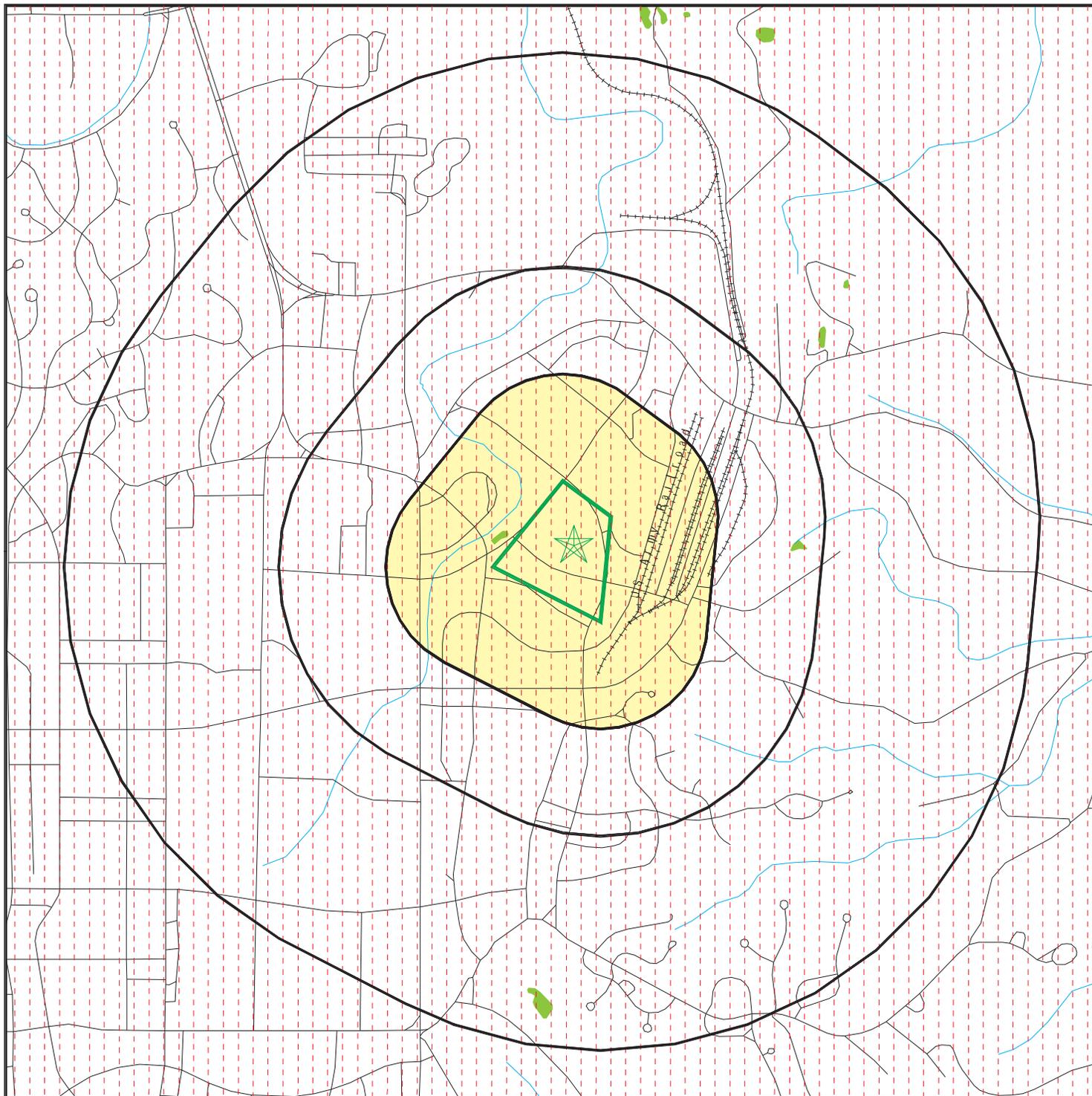
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FORT LEONARD WOOD MILITARY RES		0 - 1/8 (0.000 mi.)	0	7

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
US ARMY ENGINEER CENTER & FT. LEON	AIRS
FT LEONARD WOOD ENGIN-FF	FTTS
FT LEONARD WOOD DRMO-FF	FTTS
FORT LEONARD WOOD LAUNDRY DRY CLEA	DRYCLEANERS
PENN ENTERPRISES, INC	DRYCLEANERS
FORT LEONARD WOOD LAUNDRY DRY CLEA	DRYCLEANERS
ATZT-DPW-EE	LAST, SPILLS
FORT LEONARD WOOD - TANK #1-2553	LUST, UST
PENN ENTERPRISES, INC. -FT. LEONAR	FINDS
FORT LEONARD WOOD (EX) RIFLE QUALI	FINDS
FORT LEONARD WOOD TRAINING SITE (M	TRIS
USA,FT LEONARD WOOD WTP	NPDES
FORT LEONARD WOOD WWTP	NPDES
FT. LEONARD WOOD SMALL MS	NPDES

OVERVIEW MAP - 2812526.2s



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites

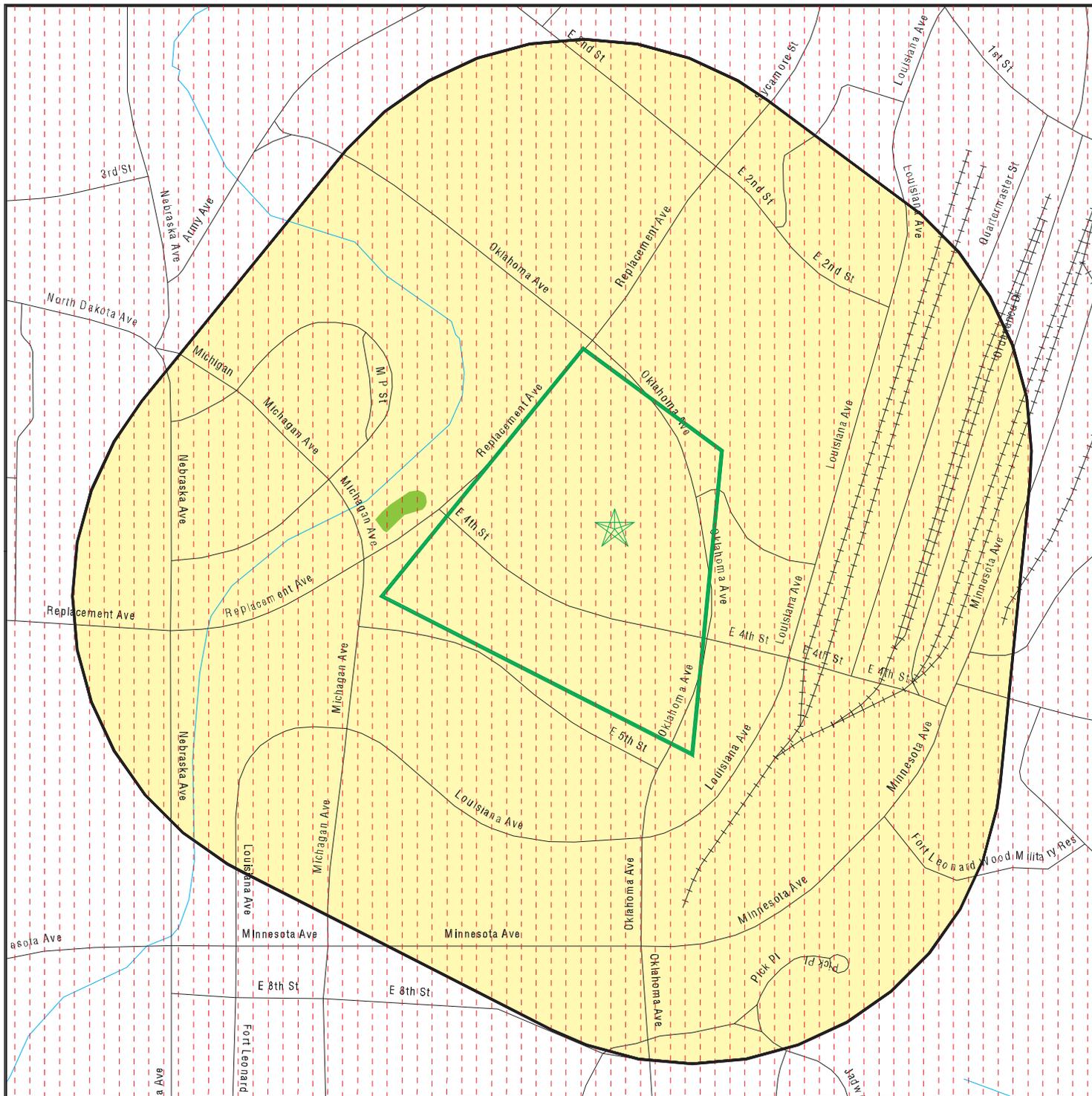
- 
-  Indian Reservations BIA
-  Oil & Gas pipelines
-  National Wetland Inventory



SITE NAME: Fort Leonard Wood
 ADDRESS: Replacementave/Oklahomaave
 Fort Leonard Wood MO 65473
 LAT/LONG: 37.7613 / 92.1041

CLIENT: U.S. Army Corps of Engineers
 CONTACT: James Lyons
 INQUIRY #: 2812526.2s
 DATE: July 09, 2010 9:37 am

DETAIL MAP - 2812526.2s



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



-  Indian Reservations BIA
-  Oil & Gas pipelines
-  National Wetland Inventory



SITE NAME: Fort Leonard Wood
 ADDRESS: Replacementave/Oklahomaave
 Fort Leonard Wood MO 65473
 LAT/LONG: 37.7613 / 92.1041

CLIENT: U.S. Army Corps of Engineers
 CONTACT: James Lyons
 INQUIRY #: 2812526.2s
 DATE: July 09, 2010 9:38 am

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

MAP FINDINGS SUMMARY

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

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
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
MO RRC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
COAL ASH		0.500	0	0	0	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants		1.000	0	0	0	0	NR	0
-------------------------	--	-------	---	---	---	---	----	---

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOD
Region

FORT LEONARD WOOD MILITARY RESERVATION
FORT LEONARD WOOD MILITAR (County), MO

DOD CUSA136124
N/A

< 1/8
1 ft.

DOD:

Feature 1: Army DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Fort Leonard Wood Military Reservation
Name 2: Not reported
Name 3: Not reported
State: MO
DOD Site: Yes
Tile name: MOPULASKI

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FORT LEONARD WOOD	U003980520	FORT LEONARD WOOD - TANK #1-2553	N & A	65473	LUST, UST
FORT LEONARD WOOD	S106490727	ATZT-DPW-EE	ARMY BASE	65473	LAST, SPILLS
FORT LEONARD WOOD	1010004327	FT LEONARD WOOD ENGIN-FF	ATZT DEH EP	65473	FTTS
FORT LEONARD WOOD	S107856296	USA,FT LEONARD WOOD WTP	BLDG		NPDES
FORT LEONARD WOOD	1009316303	PENN ENTERPRISES, INC. -FT. LEONAR	BLDG 2351 LOUISIANA AVE		FINDS
FORT LEONARD WOOD	S107420670	FORT LEONARD WOOD LAUNDRY DRY CLEA	BLDG		DRYCLEANERS
FORT LEONARD WOOD	1010004326	FT LEONARD WOOD DRMO-FF	BLDG 2391 GAS ST	65473	FTTS
FORT LEONARD WOOD	S106877465	PENN ENTERPRISES, INC	BLDG 2352 LOUISIANA AVE	65473	DRYCLEANERS
FORT LEONARD WOOD	1012208348	FORT LEONARD WOOD TRAINING SITE (M	169 CEDAR ST BLDG 1279	65473	TRIS
FORT LEONARD WOOD	S106877030	FORT LEONARD WOOD LAUNDRY DRY CLEA	204 LOUISIANA AVE		DRYCLEANERS
FORT LEONARD WOOD	1010342290	FORT LEONARD WOOD (EX) RIFLE QUALI	100 MAIN ST		FINDS
FORT LEONARD WOOD	S107856297	FORT LEONARD WOOD WWTP	185 SEWER PLANT RD		NPDES
FORT LEONARD WOOD	S108945013	US ARMY ENGINEER CENTER & FT. LEON	1334 1ST ST	65473	AIRS
WAYNESVILLE	S109683986	FT. LEONARD WOOD SMALL MS	320 MANSCEN LOOPE	65473	NPDES

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/07/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 07/26/2010
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/07/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 07/26/2010
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 05/17/2010
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/30/2010
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/07/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 07/26/2010
	Data Release Frequency: Quarterly

Federal CERCLIS list

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

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

Date of Government Version: 01/29/2010	Source: EPA
Date Data Arrived at EDR: 02/09/2010	Telephone: 703-412-9810
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 06/11/2010
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/12/2010
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 06/23/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 703-603-8704
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 04/30/2010
Number of Days to Update: 26	Next Scheduled EDR Contact: 07/26/2010
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 06/23/2009	Source: EPA
Date Data Arrived at EDR: 09/02/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 06/11/2010
Number of Days to Update: 19	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/25/2010
Date Data Arrived at EDR: 03/31/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/17/2010
Next Scheduled EDR Contact: 08/30/2010
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 04/29/2010
Next Scheduled EDR Contact: 07/19/2010
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 04/29/2010
Next Scheduled EDR Contact: 07/19/2010
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 04/29/2010
Next Scheduled EDR Contact: 07/19/2010
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 04/29/2010
Next Scheduled EDR Contact: 07/19/2010
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 12/20/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/20/2010	Telephone: 703-603-0695
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 06/14/2010
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 12/20/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/20/2010	Telephone: 703-603-0695
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 06/14/2010
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 12/31/2009	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/22/2010	Telephone: 202-267-2180
Date Made Active in Reports: 02/11/2010	Last EDR Contact: 04/07/2010
Number of Days to Update: 20	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

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: 03/25/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/25/2010	Telephone: 573-751-1990
Date Made Active in Reports: 04/26/2010	Last EDR Contact: 06/21/2010
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/20/2010
	Data Release Frequency: Quarterly

HWS DETAIL: Registry Annual Report

Each site is described in detail in this annual report and includes the following information: a general description of the site; a summary of any significant environmental problems at and near the site; a summary of any serious health problems in the immediate vicinity of the site; the status of any testing, monitoring or remedial actions in progress or recommended by the department.

Date of Government Version: 06/30/2009	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/24/2010	Telephone: 573-751-3176
Date Made Active in Reports: 04/26/2010	Last EDR Contact: 06/14/2010
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/02/5007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

SWF/LF: Solid Waste Facility List

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

Date of Government Version: 03/15/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/16/2010	Telephone: 573-751-5401
Date Made Active in Reports: 04/26/2010	Last EDR Contact: 07/08/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 09/20/2010
	Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks

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: 06/17/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/18/2010	Telephone: 573-751-0135
Date Made Active in Reports: 06/29/2010	Last EDR Contact: 06/18/2010
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/04/2010
	Data Release Frequency: Semi-Annually

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 06/17/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/18/2010	Telephone: 573-751-6822
Date Made Active in Reports: 06/29/2010	Last EDR Contact: 06/18/2010
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/04/2010
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/01/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2010	Telephone: 415-972-3372
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 40	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 03/10/2010	Source: EPA Region 4
Date Data Arrived at EDR: 03/16/2010	Telephone: 404-562-8677
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 27	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/04/2010	Source: EPA Region 10
Date Data Arrived at EDR: 05/05/2010	Telephone: 206-553-2857
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/19/2009	Source: EPA Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/03/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/03/2010	Source: EPA Region 6
Date Data Arrived at EDR: 05/05/2010	Telephone: 214-665-6597
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009	Source: EPA Region 7
Date Data Arrived at EDR: 05/04/2010	Telephone: 913-551-7003
Date Made Active in Reports: 07/07/2010	Last EDR Contact: 05/04/2010
Number of Days to Update: 64	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/25/2010	Source: EPA Region 8
Date Data Arrived at EDR: 02/25/2010	Telephone: 303-312-6271
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 46	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Petroleum Storage Tanks

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: 06/17/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/18/2010	Telephone: 573-751-0135
Date Made Active in Reports: 06/23/2010	Last EDR Contact: 06/18/2010
Number of Days to Update: 5	Next Scheduled EDR Contact: 10/04/2010
	Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 12/31/2009	Source: Department of Agriculture
Date Data Arrived at EDR: 12/31/2009	Telephone: 573-751-7062
Date Made Active in Reports: 01/28/2010	Last EDR Contact: 06/21/2010
Number of Days to Update: 28	Next Scheduled EDR Contact: 10/04/2010
	Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/25/2010
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 46

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/03/2010
Next Scheduled EDR Contact: 08/16/2010
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/01/2008
Date Data Arrived at EDR: 12/30/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 76

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/12/2010
Next Scheduled EDR Contact: 08/16/2010
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/03/2010
Next Scheduled EDR Contact: 08/16/2010
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/01/2010
Date Data Arrived at EDR: 03/03/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 40

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/03/2010
Next Scheduled EDR Contact: 08/16/2010
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 03/10/2010
Date Data Arrived at EDR: 03/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 27

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 05/03/2010
Next Scheduled EDR Contact: 08/16/2010
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/04/2010
Date Data Arrived at EDR: 05/05/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 22

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/03/2010
Next Scheduled EDR Contact: 08/16/2010
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/03/2010
Date Data Arrived at EDR: 05/05/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 22

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/03/2010
Next Scheduled EDR Contact: 08/16/2010
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/11/2010
Date Data Arrived at EDR: 02/11/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 60

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/03/2010
Next Scheduled EDR Contact: 08/16/2010
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

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

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/19/2010
Next Scheduled EDR Contact: 08/02/2010
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Sites with Controls

Activity and use limitations include both engineering controls and institutional controls.

Date of Government Version: 05/17/2010
Date Data Arrived at EDR: 06/23/2010
Date Made Active in Reports: 06/29/2010
Number of Days to Update: 6

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 06/23/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/08/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

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

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

VCP: Sites Participating in the Voluntary Cleanup Program

Sites participating in the Voluntary Cleanup Program.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/17/2010
Date Data Arrived at EDR: 06/23/2010
Date Made Active in Reports: 06/29/2010
Number of Days to Update: 6

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 06/23/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

Brownfields are sites where redevelopment and reuse is hampered by known or suspected contamination with hazardous substances. While many brownfield sites are minimally contaminated, potential environmental liability can be a problem for owners, operators, prospective buyers and financial institutions. Because of the large number of these sites, their economic impact especially in heavily industrial areas is substantial.

Date of Government Version: 05/17/2010
Date Data Arrived at EDR: 06/23/2010
Date Made Active in Reports: 06/29/2010
Number of Days to Update: 6

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 06/23/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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

Date of Government Version: 03/02/2010
Date Data Arrived at EDR: 03/23/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 55

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/25/2010
Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

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

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 06/21/2010
Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: Varies

SWRCY: Solid Waste Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 11/05/2009
Date Data Arrived at EDR: 12/23/2009
Date Made Active in Reports: 01/21/2010
Number of Days to Update: 29

Source: Department of Natural Resources
Telephone: 573-526-3944
Last EDR Contact: 06/07/2010
Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: Varies

HIST LF: Solid Waste Facility Database List

This database contains detailed information per site. It is no longer maintained by the Department of Natural Resources. For current information on solid waste facilities/landfills see the SWF/LF database.

Date of Government Version: 04/12/2005
Date Data Arrived at EDR: 07/19/2006
Date Made Active in Reports: 08/18/2006
Number of Days to Update: 30

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: No Update Planned

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

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 06/08/2010
Next Scheduled EDR Contact: 08/23/2010
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/19/2009
Date Data Arrived at EDR: 12/29/2009
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/08/2010
Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: Quarterly

DEL SHWS: Registry Sites Withdrawn or Deleted

A list of sites that were removed from the Registry or for which Registry action was suspended due to cleanup.

Date of Government Version: 06/28/2006
Date Data Arrived at EDR: 06/29/2006
Date Made Active in Reports: 07/18/2006
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: 573-522-3710
Last EDR Contact: 06/21/2010
Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CDL: Environmental Emergency Response System

Incidents reported to the Department of Natural Resources where drug lab materials were involved.

Date of Government Version: 05/24/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/23/2010	Telephone: 573-751-3443
Date Made Active in Reports: 06/29/2010	Last EDR Contact: 06/23/2010
Number of Days to Update: 6	Next Scheduled EDR Contact: 10/04/2010
	Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

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

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 02/05/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/11/2010	Telephone: 202-564-6023
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 60	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Varies

LUCIS: Land Use Control Information System

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

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 05/24/2010
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/06/2010
	Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 04/06/2010	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/07/2010	Telephone: 202-366-4555
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 04/07/2010
Number of Days to Update: 50	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Annually

SPILLS: Environmental Response Tracking Database

Releases of hazardous substances reported to the department's Environmental Emergency Response (EER) section.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/24/2010
Date Data Arrived at EDR: 06/23/2010
Date Made Active in Reports: 06/29/2010
Number of Days to Update: 6

Source: Department of Natural Resources
Telephone: 573-526-3349
Last EDR Contact: 06/23/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

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

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 04/29/2010
Next Scheduled EDR Contact: 07/19/2010
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

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

Date of Government Version: 01/12/2010
Date Data Arrived at EDR: 02/09/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 62

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/12/2010
Next Scheduled EDR Contact: 08/23/2010
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 04/21/2010
Next Scheduled EDR Contact: 08/02/2010
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/30/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 62

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/16/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 04/11/2010
Date Data Arrived at EDR: 04/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 28

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/08/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

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

Date of Government Version: 04/29/2010	Source: EPA
Date Data Arrived at EDR: 05/07/2010	Telephone: 703-416-0223
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 06/16/2010
Number of Days to Update: 20	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 01/05/2009	Source: Department of Energy
Date Data Arrived at EDR: 05/07/2009	Telephone: 505-845-0011
Date Made Active in Reports: 05/08/2009	Last EDR Contact: 06/01/2010
Number of Days to Update: 1	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Varies

MINES: Mines Master Index File

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

Date of Government Version: 02/12/2010	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/10/2010	Telephone: 303-231-5959
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 06/09/2010
Number of Days to Update: 68	Next Scheduled EDR Contact: 09/20/2010
	Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2008	Source: EPA
Date Data Arrived at EDR: 01/13/2010	Telephone: 202-566-0250
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 06/04/2010
Number of Days to Update: 36	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/07/2010
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/11/2010
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/01/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/01/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/13/2010
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

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

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

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

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

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2008	Source: EPA
Date Data Arrived at EDR: 01/06/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 05/03/2010
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

Date of Government Version: 04/24/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/29/2010	Telephone: 202-564-5088
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 06/25/2010
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/11/2010
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PADS: PCB Activity Database System

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

Date of Government Version: 09/01/2009	Source: EPA
Date Data Arrived at EDR: 10/21/2009	Telephone: 202-566-0500
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 04/22/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/02/2010
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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

Date of Government Version: 03/18/2010	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/06/2010	Telephone: 301-415-7169
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 06/14/2010
Number of Days to Update: 51	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

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

Date of Government Version: 04/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/14/2010	Telephone: 202-343-9775
Date Made Active in Reports: 05/17/2010	Last EDR Contact: 04/14/2010
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/26/2010
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 04/14/2010	Source: EPA
Date Data Arrived at EDR: 04/16/2010	Telephone: (913) 551-7003
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 07/07/2010
Number of Days to Update: 41	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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

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

BRS: Biennial Reporting System

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 05/12/2010
Number of Days to Update: 76

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/25/2010
Next Scheduled EDR Contact: 09/06/2010
Data Release Frequency: Biennially

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 05/05/2010
Date Data Arrived at EDR: 05/06/2010
Date Made Active in Reports: 06/29/2010
Number of Days to Update: 54

Source: Department of Natural Resources
Telephone: 573-368-2183
Last EDR Contact: 05/03/2010
Next Scheduled EDR Contact: 08/16/2010
Data Release Frequency: Varies

DRYCLEANERS: Drycleaners in Missouri Listing

A listing of drycleaner facilities that are potentially eligible for reimbursement of department approved cleanup costs under the Drycleaning Environmental Response Trust Fund.

Date of Government Version: 03/22/2010
Date Data Arrived at EDR: 03/23/2010
Date Made Active in Reports: 04/26/2010
Number of Days to Update: 34

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 06/21/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Varies

RRC: Certified Hazardous Waste Resource Recovery Facilities

Facilities that take hazardous waste material, either from on-site or off-site, and make it re-usable.

Date of Government Version: 03/11/2010
Date Data Arrived at EDR: 03/16/2010
Date Made Active in Reports: 04/26/2010
Number of Days to Update: 41

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 06/21/2010
Next Scheduled EDR Contact: 09/06/2010
Data Release Frequency: Semi-Annually

NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 10/13/2009
Date Data Arrived at EDR: 10/15/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 8

Source: Department of Natural Resources
Telephone: 573-751-7023
Last EDR Contact: 05/11/2010
Next Scheduled EDR Contact: 07/26/2010
Data Release Frequency: Varies

AIRS: Permit Facility Listing

A listing of Air Pollution Control Program permits.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 03/25/2010
Date Made Active in Reports: 04/26/2010
Number of Days to Update: 32

Source: Department of Natural Resources
Telephone: 573-751-4817
Last EDR Contact: 06/21/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

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

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

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/21/2010
Next Scheduled EDR Contact: 08/02/2010
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 02/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/11/2010	Telephone: 615-532-8599
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 05/10/2010
Number of Days to Update: 60	Next Scheduled EDR Contact: 08/09/2010
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

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

Date of Government Version: 01/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2009	Telephone: 202-566-0517
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 05/14/2010
Number of Days to Update: 100	Next Scheduled EDR Contact: 08/16/2010
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

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

Date of Government Version: 11/09/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/18/2009	Telephone: N/A
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 06/14/2010
Number of Days to Update: 54	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

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

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 04/21/2010
Number of Days to Update: 76	Next Scheduled EDR Contact: 08/02/2010
	Data Release Frequency: Varies

FINANCIAL ASSURANCE: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 06/14/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/16/2010	Telephone: 573-751-3553
Date Made Active in Reports: 06/29/2010	Last EDR Contact: 06/14/2010
Number of Days to Update: 13	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

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

Date of Government Version: 05/12/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/15/2010	Telephone: 573-751-5401
Date Made Active in Reports: 06/29/2010	Last EDR Contact: 06/15/2010
Number of Days to Update: 14	Next Scheduled EDR Contact: 09/27/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH: Coal Ash Disposal Sites

A listing of power plants with coal ash ponds.

Date of Government Version: 05/13/2010
Date Data Arrived at EDR: 06/03/2010
Date Made Active in Reports: 06/29/2010
Number of Days to Update: 26

Source: Department of Natural Resources
Telephone: 573-526-1825
Last EDR Contact: 04/23/2010
Next Scheduled EDR Contact: 07/26/2010
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/21/2010
Next Scheduled EDR Contact: 08/02/2010
Data Release Frequency: N/A

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

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

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

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

OTHER DATABASE(S)

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

CT MANIFEST: Hazardous Waste Manifest Data

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

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

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 06/04/2010
Next Scheduled EDR Contact: 09/06/2010
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY MANIFEST: Facility and Manifest Data

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

Date of Government Version: 04/30/2010
Date Data Arrived at EDR: 05/13/2010
Date Made Active in Reports: 06/21/2010
Number of Days to Update: 39

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/13/2010
Next Scheduled EDR Contact: 08/23/2010
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 05/24/2010
Next Scheduled EDR Contact: 09/06/2010
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 11/03/2009
Date Data Arrived at EDR: 02/12/2010
Date Made Active in Reports: 02/22/2010
Number of Days to Update: 10

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/01/2010
Next Scheduled EDR Contact: 09/13/2010
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 07/17/2009
Date Made Active in Reports: 08/10/2009
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/21/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Annually

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

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.
Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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

AHA Hospitals:

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

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

Medical Centers: Provider of Services Listing

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

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

Nursing Homes

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

Daycare Centers: Licensed Child Care Facilities

Source: Department of Health & Senior Services

Telephone: 573-751-2450

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FORT LEONARD WOOD
REPLACEMENT AVE/OKLAHOMA AVE
FORT LEONARD WOOD, MO 65473

TARGET PROPERTY COORDINATES

Latitude (North): 37.76130 - 37° 45' 40.7"
Longitude (West): 92.1041 - 92° 6' 14.8"
Universal Transverse Mercator: Zone 15
UTM X (Meters): 578914.7
UTM Y (Meters): 4179504.0
Elevation: 1110 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 37092-G1 DEVILS ELBOW, MO
Most Recent Revision: 1985

South Map: 37092-F1 BIG PINEY, MO
Most Recent Revision: 1976

West Map: 37092-G2 WAYNESVILLE, MO
Most Recent Revision: 1985

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

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

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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).

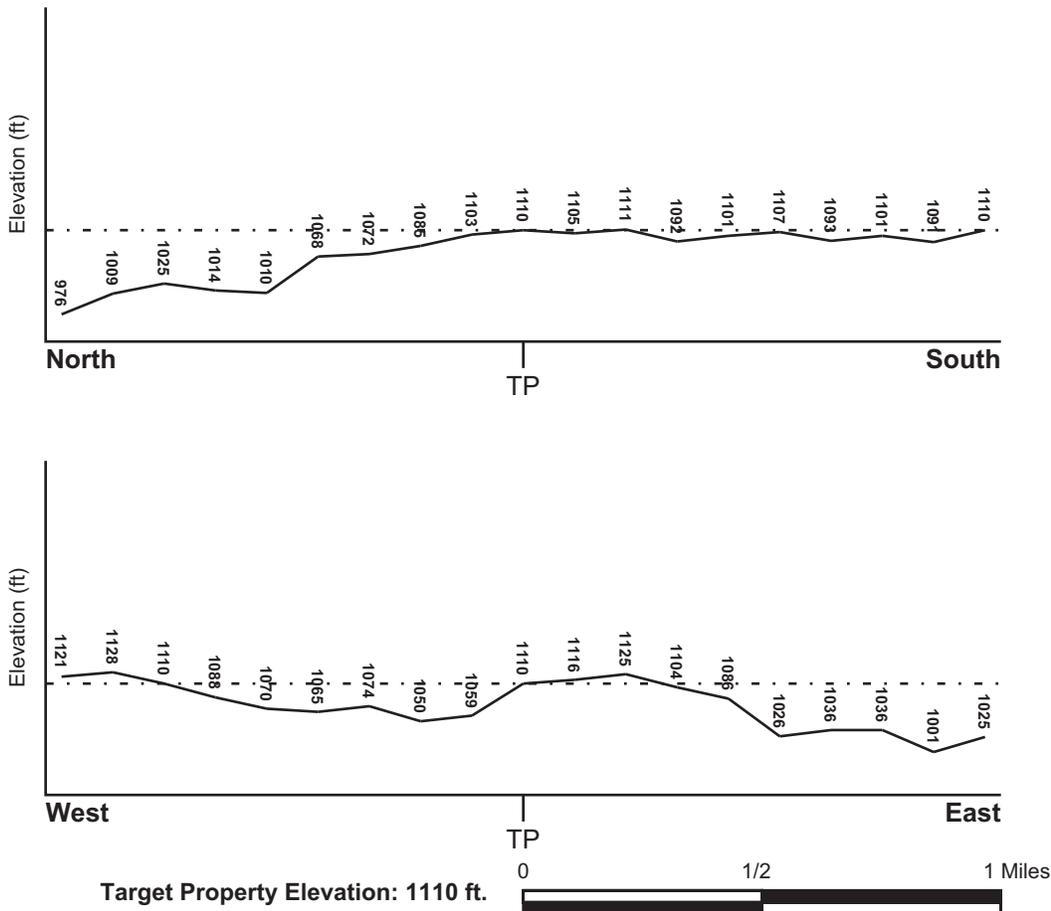
TOPOGRAPHIC INFORMATION

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.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' 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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

<u>Target Property County</u>	<u>FEMA Flood</u>
PULASKI, MO	<u>Electronic Data</u>
	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</u>
DEVILS ELBOW	<u>Data Coverage</u>
	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

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

AQUIFLOW®

Search Radius: 1.000 Mile.

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

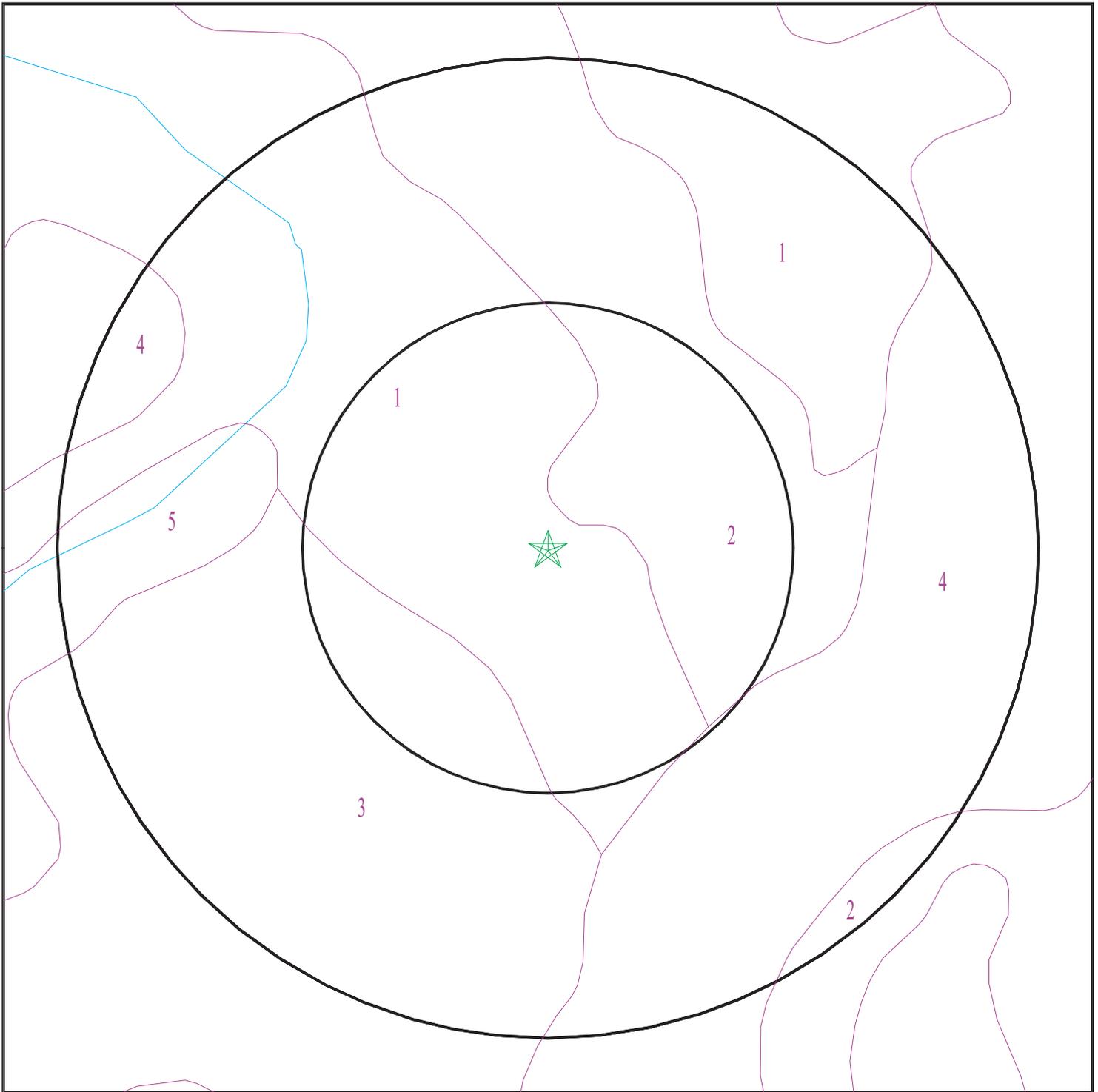
Era:	Paleozoic
System:	Ordovician
Series:	Lower Ordovician (Canadian)
Code:	O1a (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

SSURGO SOIL MAP - 2812526.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Fort Leonard Wood
ADDRESS: Replacementave/Oklahomaave
Fort Leonard Wood MO 65473
LAT/LONG: 37.7613 / 92.1041

CLIENT: U.S. Army Corps of Engineers
CONTACT: James Lyons
INQUIRY #: 2812526.2s
DATE: July 09, 2010 9:38 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Map ID: 1

Soil Component Name: Clarksville

Soil Surface Texture: very gravelly silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	very gravelly silt loam	Not reported	Not reported	Max: 42 Min: 14	Max: 5.5 Min: 3.6
2	16 inches	59 inches	extremely gravelly silty clay loam	Not reported	Not reported	Max: 42 Min: 14	Max: 5.5 Min: 3.6

Soil Map ID: 2

Soil Component Name: Viraton

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 7.3 Min: 4.5
2	5 inches	24 inches	silty clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 7.3 Min: 4.5
3	24 inches	48 inches	extremely gravelly silty clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 7.3 Min: 4.5
4	48 inches	59 inches	gravelly silty clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 7.3 Min: 4.5

Soil Map ID: 3

Soil Component Name: Clarksville

Soil Surface Texture: very gravelly silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	very gravelly silt loam	Not reported	Not reported	Max: 42 Min: 14	Max: 5.5 Min: 3.6
2	14 inches	59 inches	extremely gravelly silty clay loam	Not reported	Not reported	Max: 42 Min: 14	Max: 5.5 Min: 3.6

Soil Map ID: 4

Soil Component Name: Lebanon

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 30 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	silt loam	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 5.5 Min: 4.5
2	3 inches	7 inches	silt loam	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 5.5 Min: 4.5
3	7 inches	20 inches	silty clay	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 5.5 Min: 4.5
4	20 inches	31 inches	very gravelly silt loam	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 5.5 Min: 4.5
5	31 inches	38 inches	extremely gravelly silty clay loam	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 5.5 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
6	38 inches	72 inches	gravelly clay	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 5.5 Min: 4.5

Soil Map ID: 5

Soil Component Name: Cedargap

Soil Surface Texture: gravelly silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	gravelly silt loam	Not reported	Not reported	Max: 42 Min: 14	Max: 7.3 Min: 5.6
2	5 inches	29 inches	very gravelly silt loam	Not reported	Not reported	Max: 42 Min: 14	Max: 7.3 Min: 5.6
3	29 inches	59 inches	extremely gravelly silty clay loam	Not reported	Not reported	Max: 42 Min: 14	Max: 7.3 Min: 5.6

LOCAL / REGIONAL WATER AGENCY RECORDS

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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>
1	USGS2556628	1/8 - 1/4 Mile NNW
2	USGS2556629	1/4 - 1/2 Mile NNE
3	USGS2556636	1/4 - 1/2 Mile NNW
4	USGS2556639	1/4 - 1/2 Mile NNE
A5	USGS2556633	1/2 - 1 Mile NE
A6	USGS2556634	1/2 - 1 Mile NE
A7	USGS2556635	1/2 - 1 Mile NE
8	USGS2556630	1/2 - 1 Mile ENE
9	USGS2556644	1/2 - 1 Mile North
10	USGS2556643	1/2 - 1 Mile NNE
11	USGS2556641	1/2 - 1 Mile NE
B12	USGS2556637	1/2 - 1 Mile NE
B13	USGS2556638	1/2 - 1 Mile NE
C14	USGS2556620	1/2 - 1 Mile SW
C15	USGS2556621	1/2 - 1 Mile SW
C16	USGS2556619	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

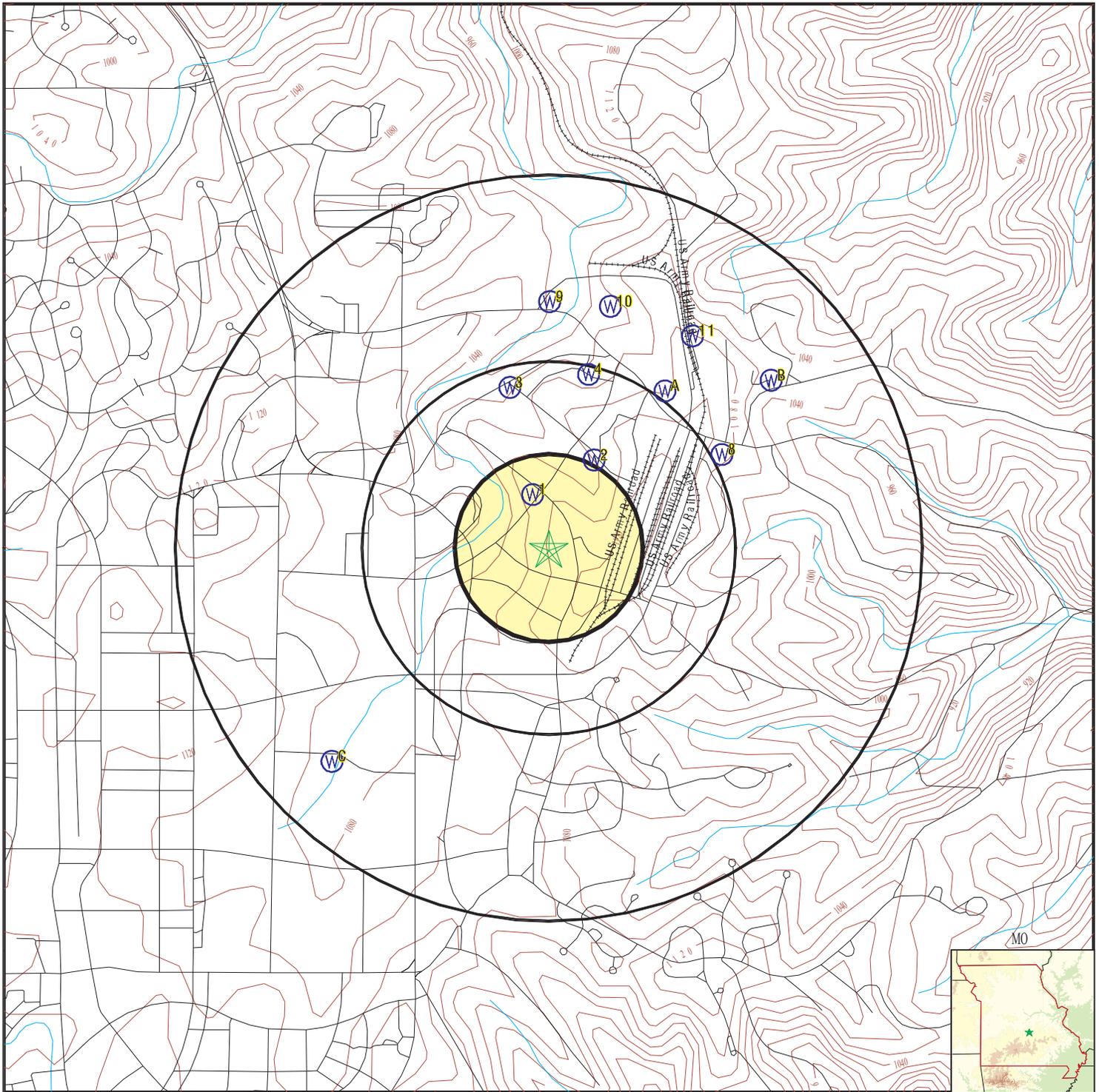
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

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>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 2812526.2s



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



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells



SITE NAME: Fort Leonard Wood
 ADDRESS: Replacementave/Oklahomaave
 Fort Leonard Wood MO 65473
 LAT/LONG: 37.7613 / 92.1041

CLIENT: U.S. Army Corps of Engineers
 CONTACT: James Lyons
 INQUIRY #: 2812526.2s
 DATE: July 09, 2010 9:38 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
NNW
1/8 - 1/4 Mile
Lower

FED USGS USGS2556628

Agency cd:	USGS	Site no:	374548092061701
Site name:	FLW-056 MW-5609	EDR Site id:	USGS2556628
Latitude:	374548	Dec lat:	37.76337432
Longitude:	0920617	Coor meth:	G
Dec lon:	-92.1048854	Latlong datum:	NAD27
Coor accr:	S	District:	29
Dec latlong datum:	NAD83	County:	169
State:	29	Land net:	SENWNES14 T35N R11W 5
Country:	US	Map scale:	24000
Location map:	DEVILS ELBOW		
Altitude:	1090		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney. Missouri. Area = 754 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20040226	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	Not Reported		
Well depth:	232	Hole depth:	240
Source of depth data:	reporting agency (generally USGS)		
Project number:	86119CV00		
Real time data flag:	0		
Daily flow data begin date:	0000-00-00	Daily flow data count:	0
Daily flow data end date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data begin date:	0000-00-00	Water quality data begin date:	0000-00-00
Peak flow data count:	0	Water quality data count:	0
Water quality data end date:	0000-00-00	Ground water data end date:	2004-02-26
Ground water data begin date:	2004-02-26		
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel

2004-02-26 211.6

2
NNE
1/4 - 1/2 Mile
Lower

FED USGS USGS2556629

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	374553092060601
Site name:	FLW-056 MW-5604		
Latitude:	374552.84	EDR Site id:	USGS2556629
Longitude:	0920606.17	Dec lat:	37.76471875
Dec lon:	-92.10187701	Coor meth:	G
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	169
Country:	US	Land net:	SWNENES14 T35N R11W 5
Location map:	DEVILS ELBOW	Map scale:	24000
Altitude:	1066.47		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney. Missouri. Area = 754 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20030701	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	Not Reported		
Well depth:	220	Hole depth:	220
Source of depth data:	reporting agency (generally USGS)		
Project number:	86119CV00		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data count:	0		
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0		
Water quality data begin date:	2003-07-08	Water quality data count:	2
Water quality data end date:	2003-09-17	Ground water data begin date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

3
NNW
1/4 - 1/2 Mile
Lower

FED USGS USGS2556636

Agency cd:	USGS	Site no:	374603092062101
Site name:	FLW-056 MW-5608		
Latitude:	374603	EDR Site id:	USGS2556636
Longitude:	0920621	Dec lat:	37.76754096
Dec lon:	-92.10599662	Coor meth:	G
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	169
Country:	US	Land net:	SESWSES11 T35N R11W 5
Location map:	DEVILS ELBOW	Map scale:	24000
Altitude:	1045		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney. Missouri. Area = 754 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20031219	Mean greenwich time offset:	CST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A5
NE
1/2 - 1 Mile
Lower

FED USGS USGS2556633

Agency cd:	USGS	Site no:	374603092055401
Site name:	FLW-056 MW-5601		
Latitude:	374602.45	EDR Site id:	USGS2556633
Longitude:	0920553.76	Dec lat:	37.76738817
Dec lon:	-92.09842974	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	169
Country:	US	Land net:	SWSWSWS12 T35N R11W 5
Location map:	DEVILS ELBOW	Map scale:	24000
Altitude:	1074.30		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney. Missouri. Area = 754 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19990501
Date inventoried:	19990501	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	260	Hole depth:	260
Source of depth data:	reporting agency (generally USGS)		
Project number:	462910300		
Real time data flag:	0		
Daily flow data begin date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1999-05-20
Water quality data end date:	2003-09-12	Water quality data count:	10
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

A6
NE
1/2 - 1 Mile
Lower

FED USGS USGS2556634

Agency cd:	USGS	Site no:	374603092055402
Site name:	FLW-056 MW-5601A		
Latitude:	374602.46	EDR Site id:	USGS2556634
Longitude:	0920553.76	Dec lat:	37.76739095
Dec lon:	-92.09842974	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	169
Country:	US	Land net:	SWSWSWS12 T35N R11W 5
Location map:	DEVILS ELBOW	Map scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude: 1074.00
 Altitude method: Interpolated from topographic map
 Altitude accuracy: 5
 Altitude datum: National Geodetic Vertical Datum of 1929
 Hydrologic: Big Piney. Missouri. Area = 754 sq.mi.
 Topographic: Hillside (slope)
 Site type: Ground-water other than Spring Date construction: 19990501
 Date inventoried: 19990501 Mean greenwich time offset: CST
 Local standard time flag: Y
 Type of ground water site: Single well, other than collector or Ranney type
 Aquifer Type: Not Reported
 Aquifer: Not Reported
 Well depth: 260 Hole depth: 260
 Source of depth data: reporting agency (generally USGS)
 Project number: 462910300
 Real time data flag: 0 Daily flow data begin date: 0000-00-00
 Daily flow data end date: 0000-00-00 Daily flow data count: 0
 Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00
 Peak flow data count: 0 Water quality data begin date: 1999-08-17
 Water quality data end date: 2000-11-17 Water quality data count: 3
 Ground water data begin date: 0000-00-00 Ground water data end date: 0000-00-00
 Ground water data count: 0

Ground-water levels, Number of Measurements: 0

**A7
NE
1/2 - 1 Mile
Lower**

FED USGS USGS2556635

Agency cd: USGS Site no: 374603092055403
 Site name: FLW-056 MW-5601B
 Latitude: 374602.60 EDR Site id: USGS2556635
 Longitude: 0920553.58 Dec lat: 37.76742984
 Dec lon: -92.09837974 Coord meth: G
 Coord acc: H Latlong datum: NAD27
 Dec latlong datum: NAD83 District: 29
 State: 29 County: 169
 Country: US Land net: SWSWSWS12 T35N R11W 5
 Location map: DEVILS ELBOW Map scale: 24000
 Altitude: 1073.54
 Altitude method: Global Positioning System
 Altitude accuracy: 0.1
 Altitude datum: National Geodetic Vertical Datum of 1929
 Hydrologic: Big Piney. Missouri. Area = 754 sq.mi.
 Topographic: Hillside (slope)
 Site type: Ground-water other than Spring Date construction: Not Reported
 Date inventoried: 20020220 Mean greenwich time offset: CST
 Local standard time flag: Y
 Type of ground water site: Single well, other than collector or Ranney type
 Aquifer Type: Unconfined single aquifer
 Aquifer: Not Reported
 Well depth: 72.6 Hole depth: 72.6
 Source of depth data: reporting agency (generally USGS)
 Project number: 462910300
 Real time data flag: Not Reported Daily flow data begin date: Not Reported
 Daily flow data end date: Not Reported Daily flow data count: Not Reported
 Peak flow data begin date: Not Reported Peak flow data end date: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: Not Reported
 Water quality data end date: Not Reported
 Ground water data begin date: Not Reported
 Ground water data count: Not Reported

Water quality data begin date: Not Reported
 Water quality data count: Not Reported
 Ground water data end date: Not Reported

Ground-water levels, Number of Measurements: 0

8
ENE
1/2 - 1 Mile
Lower

FED USGS USGS2556630

Agency cd:	USGS	Site no:	374554092054401
Site name:	FLW-056 MW-5605	EDR Site id:	USGS2556630
Latitude:	374553.61	Dec lat:	37.76493263
Longitude:	0920543.67	Coor meth:	G
Dec lon:	-92.09562684	Latlong datum:	NAD27
Coor accr:	S	District:	29
Dec latlong datum:	NAD83	County:	169
State:	29	Land net:	NENWNWS13 T35N R11W 5
Country:	US	Map scale:	24000
Location map:	DEVILS ELBOW		
Altitude:	1090.54		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney. Missouri. Area = 754 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	20030407
Date inventoried:	20030407	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	Not Reported		
Well depth:	240	Hole depth:	240
Source of depth data:	reporting agency (generally USGS)		
Project number:	86119CV00		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	2003-04-07
Water quality data end date:	2003-09-18	Water quality data count:	2
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

9
North
1/2 - 1 Mile
Lower

FED USGS USGS2556644

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	374615092061401
Site name:	FLW-056 MW-5607		
Latitude:	374615	EDR Site id:	USGS2556644
Longitude:	0920614	Dec lat:	37.77087427
Dec lon:	-92.10405219	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	169
Country:	US	Land net:	SENWSES11 T35N R11W 5
Location map:	DEVILS ELBOW	Map scale:	24000
Altitude:	1030		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney. Missouri. Area = 754 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20031121	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	Not Reported		
Well depth:	193	Hole depth:	200
Source of depth data:	reporting agency (generally USGS)		
Project number:	86119CV00		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	2002-11-21	Ground water data end date:	2002-11-21
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

2002-11-21	146.0	

**10
NNE
1/2 - 1 Mile
Lower**

FED USGS USGS2556643

Agency cd:	USGS	Site no:	374614092060301
Site name:	FLW-056 MW-5602		
Latitude:	374614.34	EDR Site id:	USGS2556643
Longitude:	0920603.30	Dec lat:	37.77069093
Dec lon:	-92.10107988	Coor meth:	G
Coor accr:	H	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	169
Country:	US	Land net:	NWNESES11 T35N R11W 5
Location map:	DEVILS ELBOW	Map scale:	24000
Altitude:	1018.30		
Altitude method:	Global Positioning System		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney. Missouri. Area = 754 sq.mi.		
Topographic:	Upland draw		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20020220	Mean greenwich time offset:	CST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
2001-08-23	191	

B12
NE
1/2 - 1 Mile
Lower

FED USGS USGS2556637

Agency cd:	USGS	Site no:	374604092053501
Site name:	FLW-056 MW-5610		
Latitude:	374604	EDR Site id:	USGS2556637
Longitude:	0920535	Dec lat:	37.76781872
Dec lon:	-92.09321849	Coor meth:	G
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	169
Country:	US	Land net:	SWSESWS12 T35N R11W 5
Location map:	DEVILS ELBOW	Map scale:	24000
Altitude:	1050		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney, Missouri. Area = 754 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20040204	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	Not Reported		
Well depth:	196	Hole depth:	200
Source of depth data:	reporting agency (generally USGS)		
Project number:	86119CV00		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	2004-02-04	Ground water data end date:	2004-02-04
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
2004-02-04	163.0	

B13
NE
1/2 - 1 Mile
Lower

FED USGS USGS2556638

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	374604092053502
Site name:	FLW-056 MW-5610A		
Latitude:	374604	EDR Site id:	USGS2556638
Longitude:	0920535	Dec lat:	37.76781872
Dec lon:	-92.09321849	Coor meth:	G
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	169
Country:	US	Land net:	SWSESWS12 T35N R11W 5
Location map:	DEVILS ELBOW	Map scale:	24000
Altitude:	1050		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney. Missouri. Area = 754 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20040204	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	Not Reported		
Well depth:	120	Hole depth:	120
Source of depth data:	reporting agency (generally USGS)		
Project number:	86119CV00		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	2004-03-15	Ground water data end date:	2004-03-15
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

2004-03-15	90.0	

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

FED USGS USGS2556620

Agency cd:	USGS	Site no:	374511092065201
Site name:	FLW-006 SP006-2		
Latitude:	374511	EDR Site id:	USGS2556620
Longitude:	0920652	Dec lat:	37.75309664
Dec lon:	-92.1146077	Coor meth:	G
Coor accr:	H	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	169
Country:	US	Land net:	SESWSWS11 T35N R11W 5
Location map:	DEVILS ELBOW	Map scale:	24000
Altitude:	1130		
Altitude method:	Global Positioning System		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney. Missouri. Area = 754 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20020410	Mean greenwich time offset:	CST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Drain dug to water table or potentiometric surface to either lower ground-water level or serve as a water supply		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	462910300		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	2002-04-10
Water quality data end date:	2002-04-10	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

**C15
SW
1/2 - 1 Mile
Lower**

FED USGS USGS2556621

Agency cd:	USGS	Site no:	374511092065202
Site name:	FLW-006 SP006-3	EDR Site id:	USGS2556621
Latitude:	374511	Dec lat:	37.75309664
Longitude:	0920652	Coor meth:	G
Dec lon:	-92.1146077	Latlong datum:	NAD27
Coor accr:	H	District:	29
Dec latlong datum:	NAD83	County:	169
State:	29	Land net:	SESWSWS11 T35N R11W 5
Country:	US	Map scale:	24000
Location map:	DEVILS ELBOW		
Altitude:	1130		
Altitude method:	Global Positioning System		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney. Missouri. Area = 754 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20020410	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Drain dug to water table or potentiometric surface to either lower ground-water level or serve as a water supply		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	462910300		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	2002-04-10
Water quality data end date:	2002-04-10	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C16
SW
1/2 - 1 Mile
Lower

FED USGS USGS2556619

Agency cd:	USGS	Site no:	374510092065301
Site name:	FLW-006 SP006-1		
Latitude:	374510	EDR Site id:	USGS2556619
Longitude:	0920653	Dec lat:	37.75281886
Dec lon:	-92.11488548	Coor meth:	G
Coor accr:	H	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	169
Country:	US	Land net:	SESWSWS11 T35N R11W 5
Location map:	DEVILS ELBOW	Map scale:	24000
Altitude:	1118		
Altitude method:	Global Positioning System		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Big Piney. Missouri. Area = 754 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20020410	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Drain dug to water table or potentiometric surface to either lower ground-water level or serve as a water supply		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	462910300		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	2002-04-10
Water quality data end date:	2002-04-10	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

County	Average	Max Pci/L	Min Pci/L	Num Samples
PULASKI	0.7	2.2	<0.5	12

Federal EPA Radon Zone for PULASKI 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 PULASKI COUNTY, MO

Number of sites tested: 9

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.744 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.450 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

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

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

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

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

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

SSURGO: Soil Survey Geographic Database

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

Telephone: 800-672-5559

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

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

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

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

STATE RECORDS

Missouri Public Drinking Water Wells

Source: Department of Natural Resources

Telephone: 573-526-5448

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database

Source: Department of Natural Resources

Telephone: 573-368-2195

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

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

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

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

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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APPENDIX C



Fort Leonard Wood

Replacementave/Oklahomaave
Fort Leonard Wood, MO 65473

Inquiry Number: 2812526.4
July 09, 2010

EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

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

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

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Historical Topographic Map



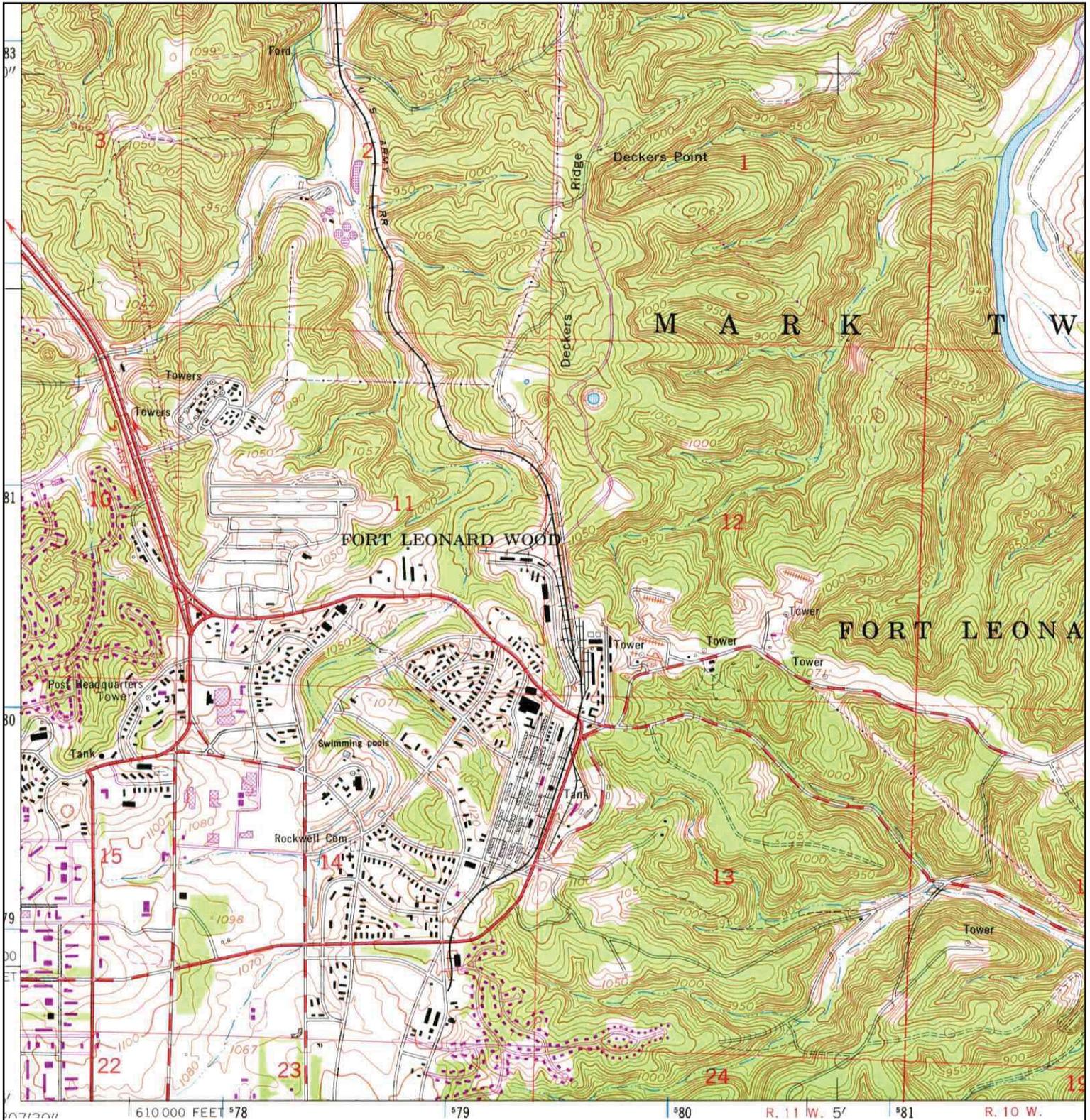
<p>N</p> 	<p>TARGET QUAD NAME: WAYNESVILLE MAP YEAR: 1944</p>	<p>SITE NAME: Fort Leonard Wood ADDRESS: Replacementave/Oklahomaave Fort Leonard Wood, MO LAT/LONG: 37.7613 / -92.1041</p>	<p>CLIENT: U.S. Army Corps of Engineers CONTACT: James Lyons INQUIRY#: 2812526.4 RESEARCH DATE: 07/09/2010</p>
	<p>SERIES: 15</p>		
	<p>SCALE: 1:62500</p>		

Historical Topographic Map



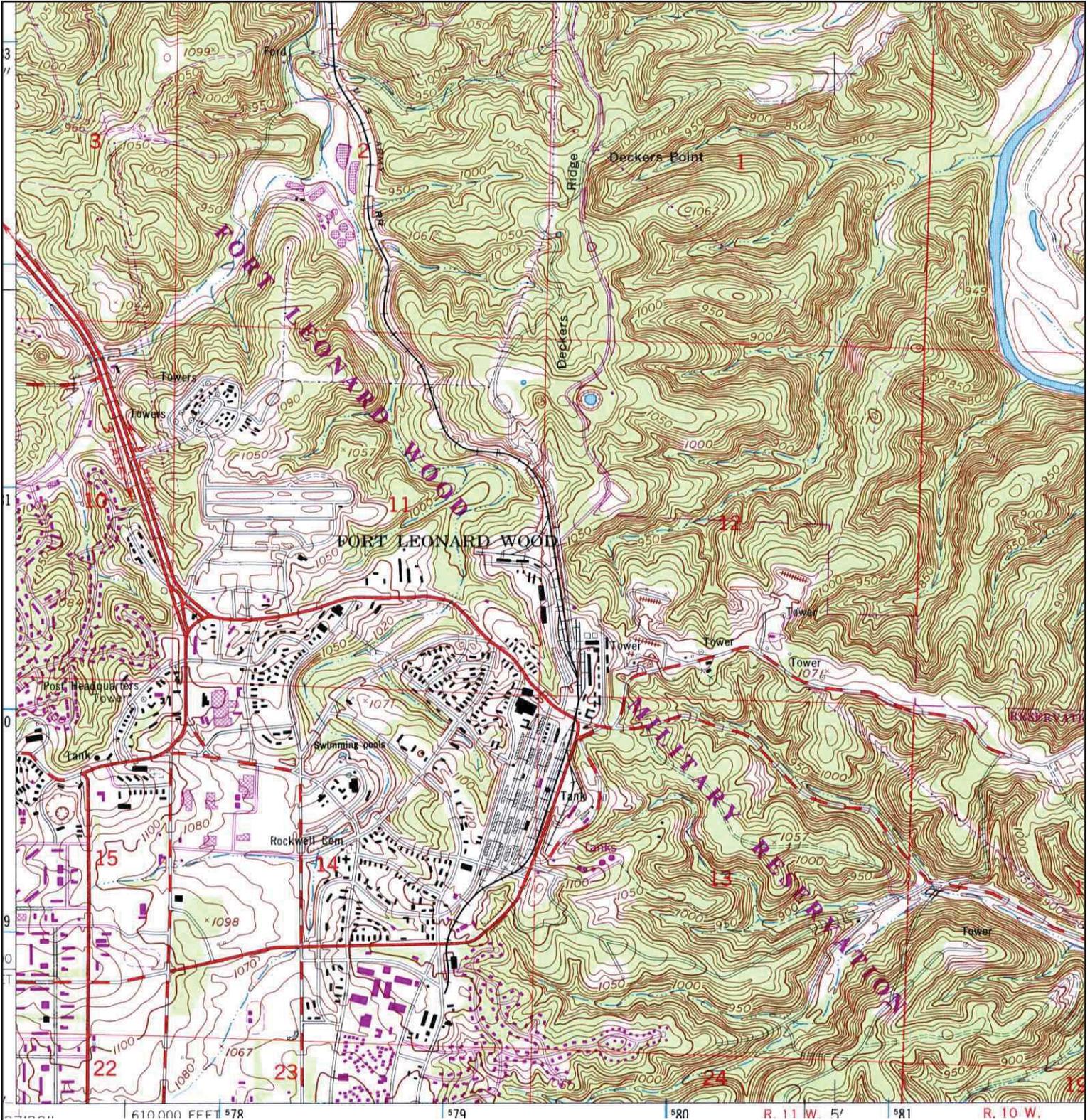
	TARGET QUAD	SITE NAME: Fort Leonard Wood	CLIENT: U.S. Army Corps of Engineers
	NAME: WAYNESVILLE	ADDRESS: Replacementave/Oklahomaave	CONTACT: James Lyons
	MAP YEAR: 1954	FORT LEONARD WOOD, MO	INQUIRY#: 2812526.4
	SERIES: 15	LAT/LONG: 37.7613 / -92.1041	RESEARCH DATE: 07/09/2010
	SCALE: 1:62500		

Historical Topographic Map



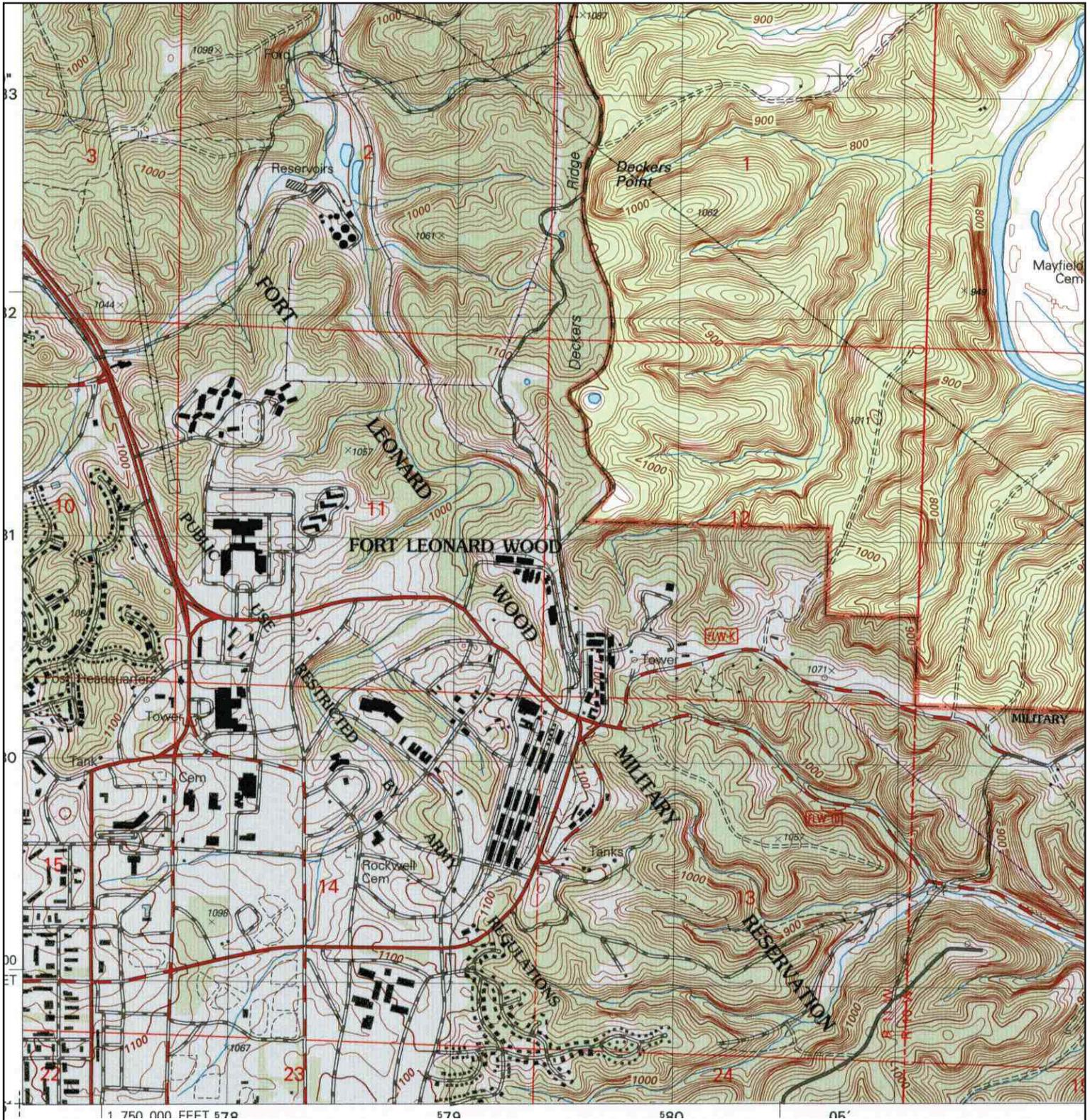
	TARGET QUAD	SITE NAME: Fort Leonard Wood	CLIENT: U.S. Army Corps of Engineers
	NAME: DEVILS ELBOW	ADDRESS: Replacementave/Oklahomaave	CONTACT: James Lyons
	MAP YEAR: 1976	Fort Leonard Wood, MO	INQUIRY#: 2812526.4
	PHOTOREVISED: 1954	LAT/LONG: 37.7613 / -92.1041	RESEARCH DATE: 07/09/2010
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



	TARGET QUAD	SITE NAME: Fort Leonard Wood	CLIENT: U.S. Army Corps of Engineers
	NAME: DEVILS ELBOW	ADDRESS: Replacementave/Oklahomaave	CONTACT: James Lyons
	MAP YEAR: 1985	Fort Leonard Wood, MO	INQUIRY#: 2812526.4
	PHOTOREVISED: 1954	LAT/LONG: 37.7613 / -92.1041	RESEARCH DATE: 07/09/2010
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



	TARGET QUAD NAME: DEVILS ELBOW MAP YEAR: 2004	SITE NAME: Fort Leonard Wood ADDRESS: Replacementave/Oklahomaave Fort Leonard Wood, MO LAT/LONG: 37.7613 / -92.1041	CLIENT: U.S. Army Corps of Engineers CONTACT: James Lyons INQUIRY#: 2812526.4 RESEARCH DATE: 07/09/2010
	SERIES: 7.5 SCALE: 1:24000		

APPENDIX D



Fort Leonard Wood

Replacementave/Oklahomaave
Fort Leonard Wood, MO 65473

Inquiry Number: 2812526.3

July 09, 2010

Certified Sanborn® Map Report

Certified Sanborn® Map Report

7/09/10

Site Name:

Fort Leonard Wood
Replacementave/Oklahomaave
Fort Leonard Wood, MO 65473

Client Name:

U.S. Army Corps of Engineers
601 East 12th Street
Kansas City, MO 64106

EDR Inquiry # 2812526.3

Contact: James Lyons



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

Certified Sanborn Results:

Site Name: Fort Leonard Wood
Address: Replacementave/Oklahomaave
City, State, Zip: Fort Leonard Wood, MO 65473
Cross Street:
P.O. # NA
Project: NA
Certification # 1636-4766-ACE3



Sanborn® Library search results
Certification # 1636-4766-ACE3

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX E



Fort Leonard Wood

Replacementave/Oklahomaave
Fort Leonard Wood, MO 65473

Inquiry Number: 2812526.5
July 12, 2010

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography July 12, 2010

Target Property:

Replacementave/Oklahomaave

Fort Leonard Wood, MO 65473

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1976	Aerial Photograph. Scale: 1"=1000'	Panel #: 37092-G1, Devils Elbow, MO;/Flight Date: March 01, 1976	EDR
1983	Aerial Photograph. Scale: 1"=1000'	Panel #: 37092-G1, Devils Elbow, MO;/Flight Date: April 15, 1983	EDR
1991	Aerial Photograph. Scale: 1"=750'	Panel #: 37092-G1, Devils Elbow, MO;/Flight Date: March 24, 1991	EDR
1995	Aerial Photograph. Scale: 1"=750'	Panel #: 37092-G1, Devils Elbow, MO;/Flight Date: April 13, 1995	EDR
2005	Aerial Photograph. Scale: 1"=604'	Panel #: 37092-G1, Devils Elbow, MO;/Flight Date: January 01, 2005	EDR
2006	Aerial Photograph. Scale: 1"=604'	Panel #: 37092-G1, Devils Elbow, MO;/Flight Date: January 01, 2006	EDR



INQUIRY #: 2812526.5

YEAR: 1976

|—————| = 1000'





INQUIRY #: 2812526.5
YEAR: 1983
|—————| = 1000'





INQUIRY #: 2812526.5

YEAR: 1991

 = 750'





INQUIRY #: 2812526.5

YEAR: 1995

| = 750'





INQUIRY #: 2812526.5

YEAR: 2005

— = 604'





INQUIRY #: 2812526.5

YEAR: 2006

|—————| = 604'



APPENDIX F

EBS INTERVIEW QUESTIONNAIRE

ENVIRONMENTAL BASELINE SURVEY ENHANCED USE LEASE (Lease limits are shown in Appendix A) FORT LEONARD WOOD, MISSOURI INTERVIEW QUESTIONNAIRE

Name of Interviewee: Emily Brown		Organization: DPW Environmental Branch	
Position or Responsibility (<i>Identify as Owner, Occupant, or Both</i>): Both			
Tel. No.: 573-596-0882		Fax No.: 573-596-0869	E-Mail: Emily.s.brown@us.army.mil
Interview conducted by: self		Date of Interview: 14 July 2010	
	QUESTION	YES	NO
1a & 1b.	Is the property or any adjoining property used for industrial purposes? Specify: Proposed lease Parcel: NO FLW Returned Parcel: YES Adjoining properties include laundry facility and former print plant	X	
2a.	Did you observe evidence or do you have prior knowledge that the property has been used for industrial purposes in the past? Specify: Historically the area held WWII era wood barracks, offices, etc.		X
2b.	Did you observe evidence or do you have prior knowledge that adjoining properties have been used for industrial purposes in the past? Specify: Current Landuse is the same as past Landuse.	X	
3a & 3b.	Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one: Proposed lease Parcel: None FLW Returned Parcel: Adjoining properties include laundry facility and former print plant	X	

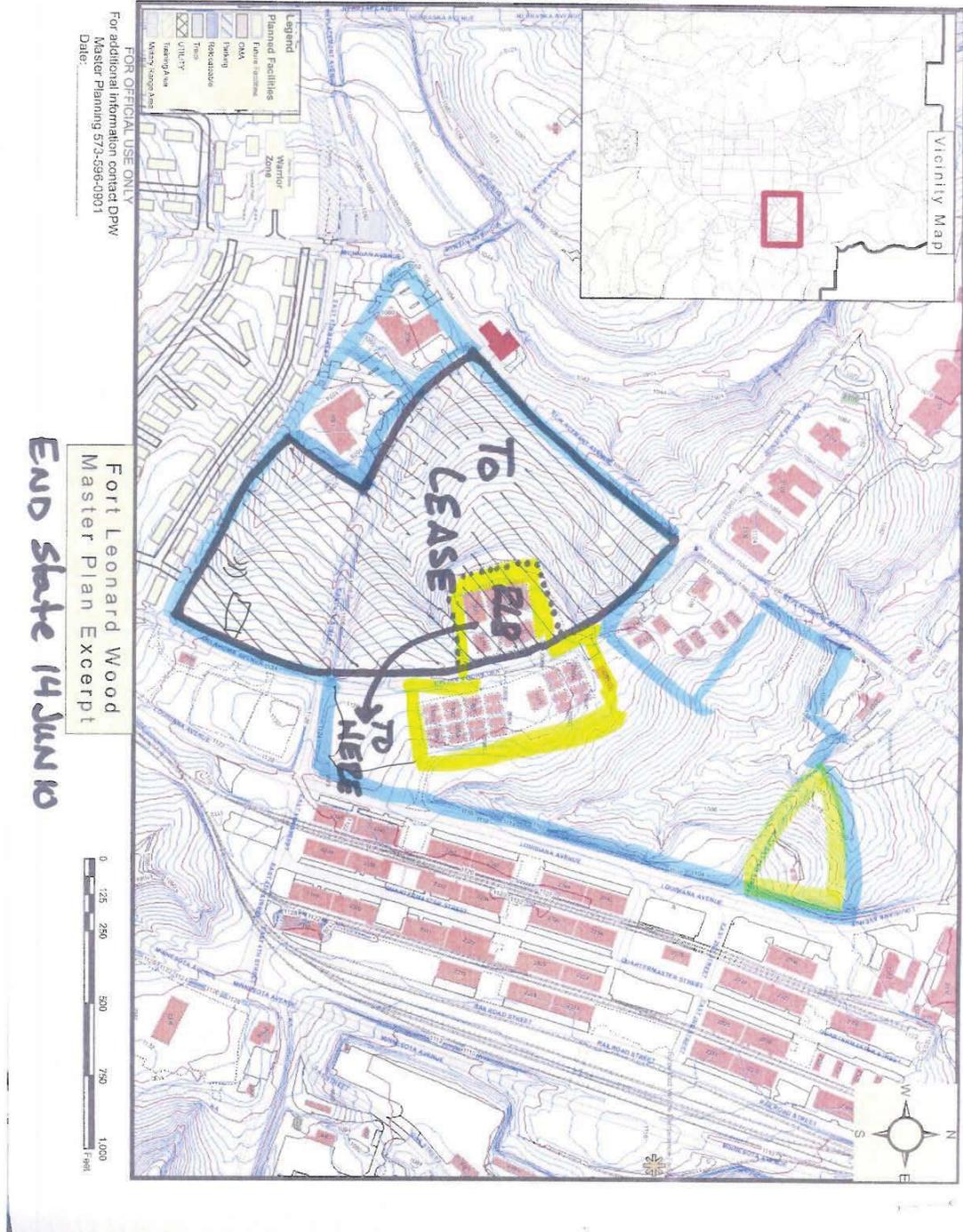
4a.& 4b	<p>Did you observe evidence or do you have any prior knowledge that the property or any adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one:</p> <p>Proposed lease Parcel: No</p> <p>FLW Returned Parcel: Yes. Adjoining properties include laundry facility and former print plant</p>	X	
	QUESTION	YES	NO
5a. & 5b.	<p>Are any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than 5 gallons in volume or 50 gallons in the aggregate currently stored on or used at the property or at the facility? Have any of the above previously been stored on or used at the property or at the facility?</p> <p>Proposed lease Parcel: No</p> <p>FLW Returned Parcel: Yes. Used Dry cleaning filter media waste was historically accumulated at the dry cleaning facility.</p>	X	
6a.	<p>Are any industrial drums (typically 55 gallons) or sacks of chemicals currently located on the property or at the facility?</p>		X
7a.	<p>Did you observe evidence or do you have knowledge that fill dirt that originated from a contaminated or is of an unknown origin site has been brought onto the property?</p>		X
8a & 8b.	<p>Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal? Did you observe evidence or do you have knowledge that any pits, ponds, or lagoons in connection with waste treatment or waste disposal have previously been located on the property?</p>		X
9a & 9b.	<p>Is there currently any stained soil on the property? Did you observe evidence or do you have knowledge that any stained soil has previously been on the property?</p>		X
10a.	<p>Are any or has there previously been registered or unregistered storage tanks (aboveground or underground) currently located on the property?</p> <p>Non-regulated Heating oil tanks were located on the parcels</p>	X	

11a.	Are there any or do you have knowledge of any previously existing vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground located on the property or adjacent to any structure located on the property? Small pipes were identified in the prior EBS.	X	
	QUESTION	YES	NO
12a.	Is there currently evidence of leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		X
12b.	Did you observe any evidence or do you have any prior knowledge that there have been previously any leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		X
13a.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?		X
13b.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency?		X
14a.	Do you have knowledge of environmental liens or notification from government agencies relating to past or recurrent violation of environmental laws with respect to the property or any facility located on the property?		X
15a.	Have you been informed of the current or past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property? Heating oil was used to heat structures formerly located on these parcels.	X	.
15b.	Have you been informed of the past existence of environmental violations with respect to the property or any facility located on the property?		X

15c.	Have you been informed of the current existence of environmental violations with respect to the property or any facility located on the property?		X
16.	Do you have knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property? EBS conducted in 2000 noted small pipes extending out of the ground.		X
17.	Do you have any knowledge of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum product involving the property?		X
18a.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>stormwater</u> system?		X
18b.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>sanitary sewer</u> system?		X
19a.	Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried, and/or burned on the property?		X
20a.	Do any records exist indicating the presence of polychlorinated biphenyls (PCBs) for a transformer, capacitor, or any hydraulic equipment? Electrical distribution was privatized to Laclede Electric Coop. FLW had a program to labeled and/or removed PCB or PCB contaminated transformers throughout Post.		X
21a.	Do you have any knowledge of any asbestos-containing materials or presumed asbestos-containing materials on any facility located on the property? WWII era wood facilities, like the former facilities located on this parcel, had vinyl asbestos flooring, transite siding, and asbestos insulation around flues and chimneys.	X	
22a.	Do you have any knowledge of any lead-based paint or presumed lead-based paint on any facility located on the property? WWII era wood facilities, like the former facilities located on this parcel, had lead-based paint on metal surfaces and railings.	X	

The limits of the lands under consideration for lease are shown in Appendix A and include the Fort Leonard Wood Business Tech Park, excluding the location of the current buildings.

APPENDIX A



EBS INTERVIEW QUESTIONNAIRE

ENVIRONMENTAL BASELINE SURVEY ENHANCED USE LEASE (Lease limits are shown in Appendix A) FORT LEONARD WOOD, MISSOURI INTERVIEW QUESTIONNAIRE

Name of Interviewee: Shannon Cain		Organization: DPW ENV	
Position or Responsibility (<i>Identify as Owner, Occupant, or Both</i>): Hazardous Waste Program Manager			
Tel. No.: 573-596-0131 Ext. 6-1158		Fax No.: 573-5960869	
		E-Mail: shannon.cain@us.army.mil	
Interview conducted by:		Date of Interview: 7-14-10	
	QUESTION	YES	NO
1a & 1b.	Is the property or any adjoining property used for industrial purposes? Specify:		X
2a.	Did you observe evidence or do you have prior knowledge that the property has been used for industrial purposes in the past? Specify:		X
2b.	Did you observe evidence or do you have prior knowledge that adjoining properties have been used for industrial purposes in the past? Specify:		X
3a & 3b.	Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one:		X

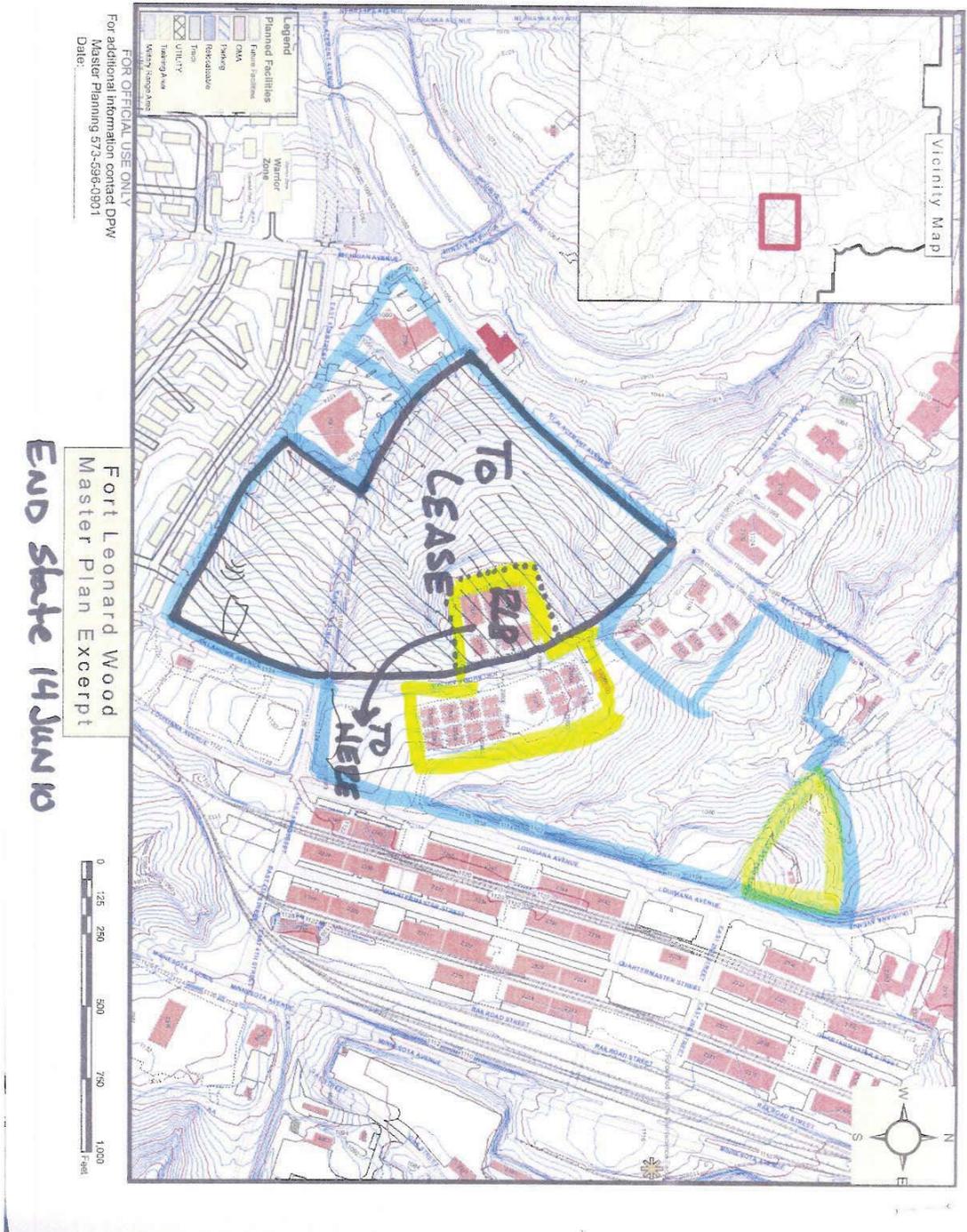
4a.& 4b	Did you observe evidence or do you have any prior knowledge that the property or any adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one:		
	QUESTION	YES	NO
5a. & 5b.	Are any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than 5 gallons in volume or 50 gallons in the aggregate currently stored on or used at the property or at the facility? Have any of the above previously been stored on or used at the property or at the facility?		X
6a.	Are any industrial drums (typically 55 gallons) or sacks of chemicals currently located on the property or at the facility?		X
7a.	Did you observe evidence or do you have knowledge that fill dirt that originated from a contaminated or is of an unknown origin site has been brought onto the property?		X
8a & 8b.	Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal? Did you observe evidence or do you have knowledge that any pits, ponds, or lagoons in connection with waste treatment or waste disposal have previously been located on the property?		X
9a & 9b.	Is there currently any stained soil on the property? Did you observe evidence or do you have knowledge that any stained soil has previously been on the property?		X
10a.	Are any or has there previously been registered or unregistered storage tanks (aboveground or underground) currently located on the property?		X

11a.	Are there any or do you have knowledge of any previously existing vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground located on the property or adjacent to any structure located on the property?		
	QUESTION	YES	NO
12a.	Is there currently evidence of leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		X
12b.	Did you observe any evidence or do you have any prior knowledge that there have been previously any leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		X
13a.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?		X
13b.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency?		X
14a.	Do you have knowledge of environmental liens or notification from government agencies relating to past or recurrent violation of environmental laws with respect to the property or any facility located on the property?		X
15a.	Have you been informed of the current or past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?		X
15b.	Have you been informed of the past existence of environmental violations with respect to the property or any facility located on the property?		X

15c.	Have you been informed of the current existence of environmental violations with respect to the property or any facility located on the property?		X
16.	Do you have knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?		X
17.	Do you have any knowledge of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum product involving the property?		X
18a.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>stormwater</u> system?		X
18b.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>sanitary sewer</u> system?		X
19a.	Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried, and/or burned on the property?		X
20a.	Do any records exist indicating the presence of polychlorinated biphenyls (PCBs) for a transformer, capacitor, or any hydraulic equipment?		X
21a.	Do you have any knowledge of any asbestos-containing materials or presumed asbestos-containing materials on any facility located on the property?		X
22a.	Do you have any knowledge of any lead-based paint or presumed lead-based paint on any facility located on the property?		X

The limits of the lands under consideration for lease are shown in Appendix A and include the Fort Leonard Wood Business Tech Park, excluding the location of the current buildings.

APPENDIX A



EBS INTERVIEW QUESTIONNAIRE

ENVIRONMENTAL BASELINE SURVEY ENHANCED USE LEASE (Lease limits are shown in Appendix A) FORT LEONARD WOOD, MISSOURI INTERVIEW QUESTIONNAIRE

Name of Interviewee:		Organization:	
Position or Responsibility (<i>Identify as Owner, Occupant, or Both</i>):			
Tel. No.:	Fax No.:	E-Mail:	
Interview conducted by:		Date of Interview:	
	QUESTION	YES	NO
1a & 1b.	Is the property or any adjoining property used for industrial purposes? Specify:		
2a.	Did you observe evidence or do you have prior knowledge that the property has been used for industrial purposes in the past? Specify:		
2b.	Did you observe evidence or do you have prior knowledge that adjoining properties have been used for industrial purposes in the past? Specify:		
3a & 3b.	Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one:		
4a. & 4b	Did you observe evidence or do you have any prior knowledge that the property or any adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one:		

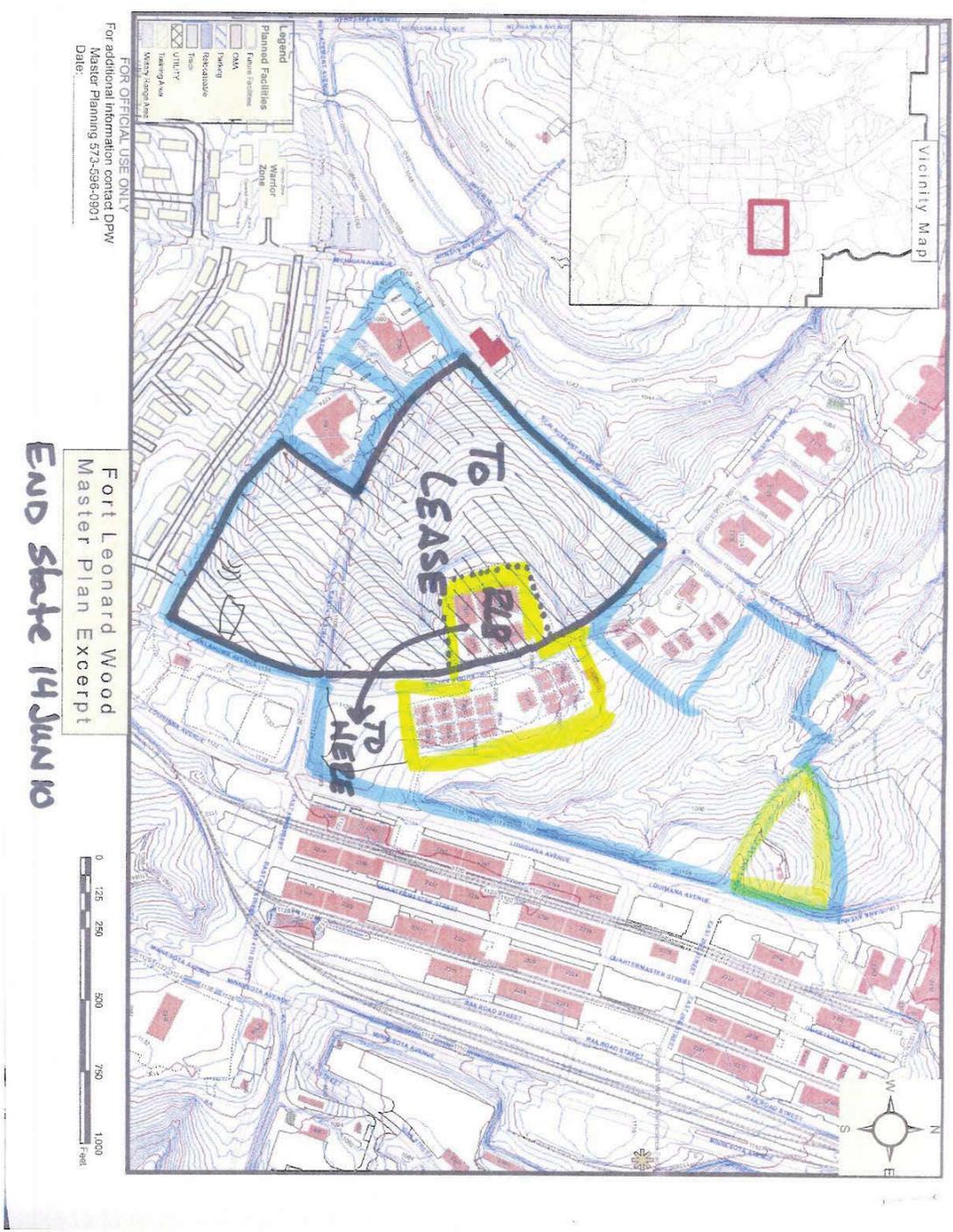
	QUESTION	YES	NO
5a. & 5b.	Are any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than 5 gallons in volume or 50 gallons in the aggregate currently stored on or used at the property or at the facility? Have any of the above previously been stored on or used at the property or at the facility?		
6a.	Are any industrial drums (typically 55 gallons) or sacks of chemicals currently located on the property or at the facility?		
7a.	Did you observe evidence or do you have knowledge that fill dirt that originated from a contaminated or is of an unknown origin site has been brought onto the property?		
8a & 8b.	Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal? Did you observe evidence or do you have knowledge that any pits, ponds, or lagoons in connection with waste treatment or waste disposal have previously been located on the property?		
9a & 9b.	Is there currently any stained soil on the property? Did you observe evidence or do you have knowledge that any stained soil has previously been on the property?		
10a.	Are any or has there previously been registered or unregistered storage tanks (aboveground or underground) currently located on the property?		
11a.	Are there any or do you have knowledge of any previously existing vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground located on the property or adjacent to any structure located on the property?		

	QUESTION	YES	NO
12a.	Is there currently evidence of leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		
12b.	Did you observe any evidence or do you have any prior knowledge that there have been previously any leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		
13a.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?		
13b.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency?		
14a.	Do you have knowledge of environmental liens or notification from government agencies relating to past or recurrent violation of environmental laws with respect to the property or any facility located on the property?		
15a.	Have you been informed of the current or past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?		
15b.	Have you been informed of the past existence of environmental violations with respect to the property or any facility located on the property?		
15c.	Have you been informed of the current existence of environmental violations with respect to the property or any facility located on the property?		

16.	Do you have knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?		
17.	Do you have any knowledge of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum product involving the property?		
18a.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>stormwater</u> system?		
18b.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>sanitary sewer</u> system?		
19a.	Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried, and/or burned on the property?		
20a.	Do any records exist indicating the presence of polychlorinated biphenyls (PCBs) for a transformer, capacitor, or any hydraulic equipment?		
21a.	Do you have any knowledge of any asbestos-containing materials or presumed asbestos-containing materials on any facility located on the property?		Keith Duncan
22a.	Do you have any knowledge of any lead-based paint or presumed lead-based paint on any facility located on the property?		no Keith Duncan

The limits of the lands under consideration for lease are shown in Appendix A and include the Fort Leonard Wood Business Tech Park, excluding the location of the current buildings.

APPENDIX A



EBS INTERVIEW QUESTIONNAIRE

ENVIRONMENTAL BASELINE SURVEY ENHANCED USE LEASE (Lease limits are shown in Appendix A) FORT LEONARD WOOD, MISSOURI INTERVIEW QUESTIONNAIRE

Name of Interviewee: Mark Lenox		Organization: DPW	
Position or Responsibility (<i>Identify as Owner, Occupant, or Both</i>): DPW Environmental Engineer			
Tel. No.: 573-596-0882		Fax No.: 573-596-0869	
E-Mail: Mark.lenox@us.army.mil			
Interview conducted by:		Date of Interview:	
	QUESTION	YES	NO
1a & 1b.	Is the property or any adjoining property used for industrial purposes? Specify:		UNK
2a.	Did you observe evidence or do you have prior knowledge that the property has been used for industrial purposes in the past? Specify:		N
2b.	Did you observe evidence or do you have prior knowledge that adjoining properties have been used for industrial purposes in the past? Specify:		N
3a & 3b.	Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one: Former Print Shop to the NE – Bldng 2350 Dry Cleaning / Laundry to NE – associated ASTs Bldng 2352	Y	
4a. & 4b	Did you observe evidence or do you have any prior knowledge that the property or any adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one: See above	Y	

	QUESTION	YES	NO
5a. & 5b.	Are any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than 5 gallons in volume or 50 gallons in the aggregate currently stored on or used at the property or at the facility? Have any of the above previously been stored on or used at the property or at the facility?		UNK
6a.	Are any industrial drums (typically 55 gallons) or sacks of chemicals currently located on the property or at the facility?		UNK
7a.	Did you observe evidence or do you have knowledge that fill dirt that originated from a contaminated or is of an unknown origin site has been brought onto the property?		UNK
8a & 8b.	Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal? Did you observe evidence or do you have knowledge that any pits, ponds, or lagoons in connection with waste treatment or waste disposal have previously been located on the property?		UNK
9a & 9b.	Is there currently any stained soil on the property? Did you observe evidence or do you have knowledge that any stained soil has previously been on the property?		UNK
10a.	Are any or has there previously been registered or unregistered storage tanks (aboveground or underground) currently located on the property?		UNK
11a.	Are there any or do you have knowledge of any previously existing vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground located on the property or adjacent to any structure located on the property?		UNK

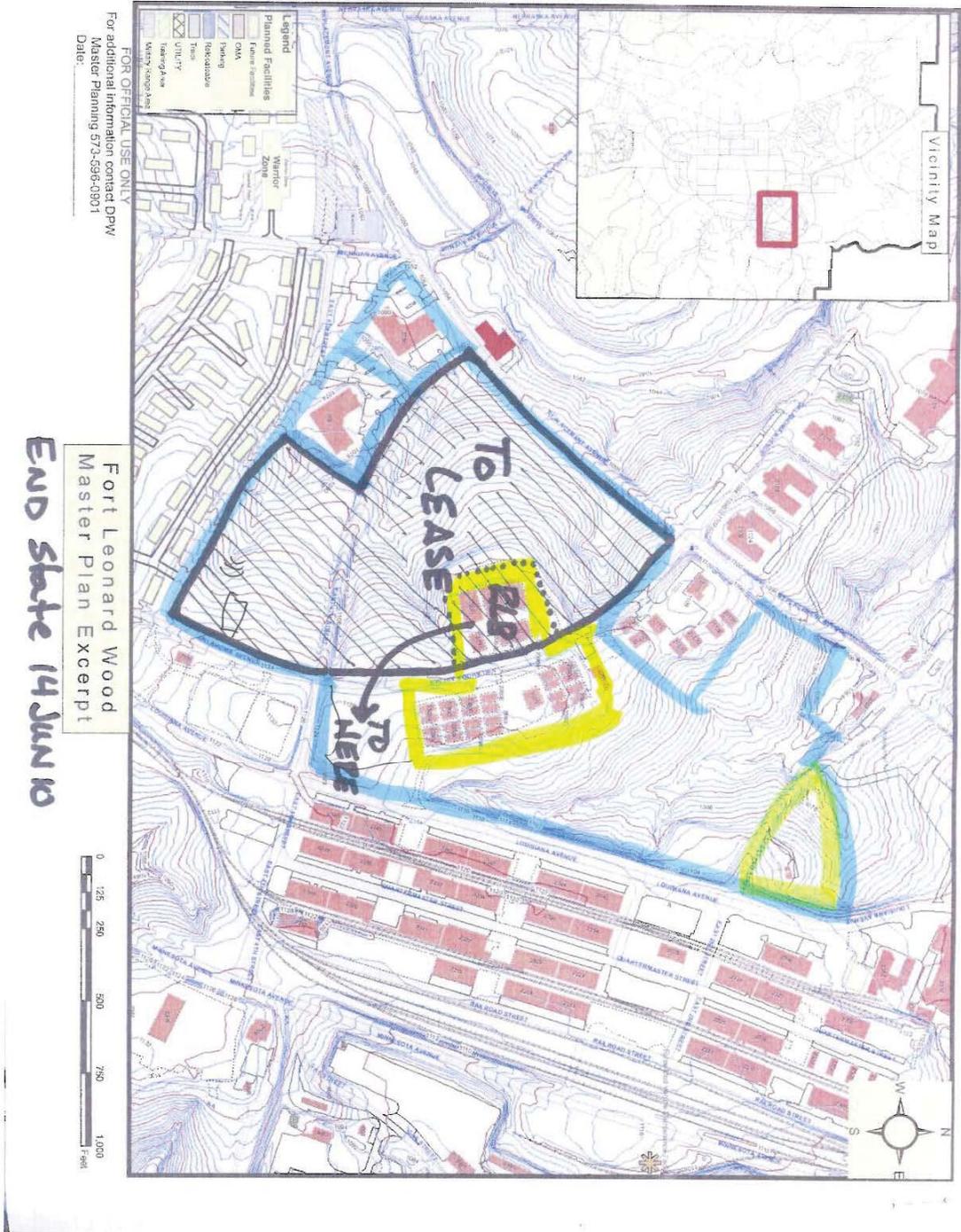
	QUESTION	YES	NO
12a.	Is there currently evidence of leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		UNK
12b.	Did you observe any evidence or do you have any prior knowledge that there have been previously any leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		UNK
13a.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?		UNK
13b.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency?		UNK
14a.	Do you have knowledge of environmental liens or notification from government agencies relating to past or recurrent violation of environmental laws with respect to the property or any facility located on the property?		UNK
15a.	Have you been informed of the current or past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?		N
15b.	Have you been informed of the past existence of environmental violations with respect to the property or any facility located on the property?		N
15c.	Have you been informed of the current existence of environmental violations with respect to the property or any facility located on the property?		N

16.	Do you have knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?		N
17.	Do you have any knowledge of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum product involving the property?		N
18a.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>stormwater</u> system?		UNK
18b.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>sanitary sewer</u> system?		UNK
19a.	Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried, and/or burned on the property?		N
20a.	Do any records exist indicating the presence of polychlorinated biphenyls (PCBs) for a transformer, capacitor, or any hydraulic equipment?		N
21a.	Do you have any knowledge of any asbestos-containing materials or presumed asbestos-containing materials on any facility located on the property?		N
22a.	Do you have any knowledge of any lead-based paint or presumed lead-based paint on any facility located on the property?		N

	There is contaminated groundwater that underlies the area in question and there is an active groundwater monitoring program using existing groundwater wells in the area (see attached figure).		

The limits of the lands under consideration for lease are shown in Appendix A and include the Fort Leonard Wood Business Tech Park, excluding the location of the current buildings.

APPENDIX A



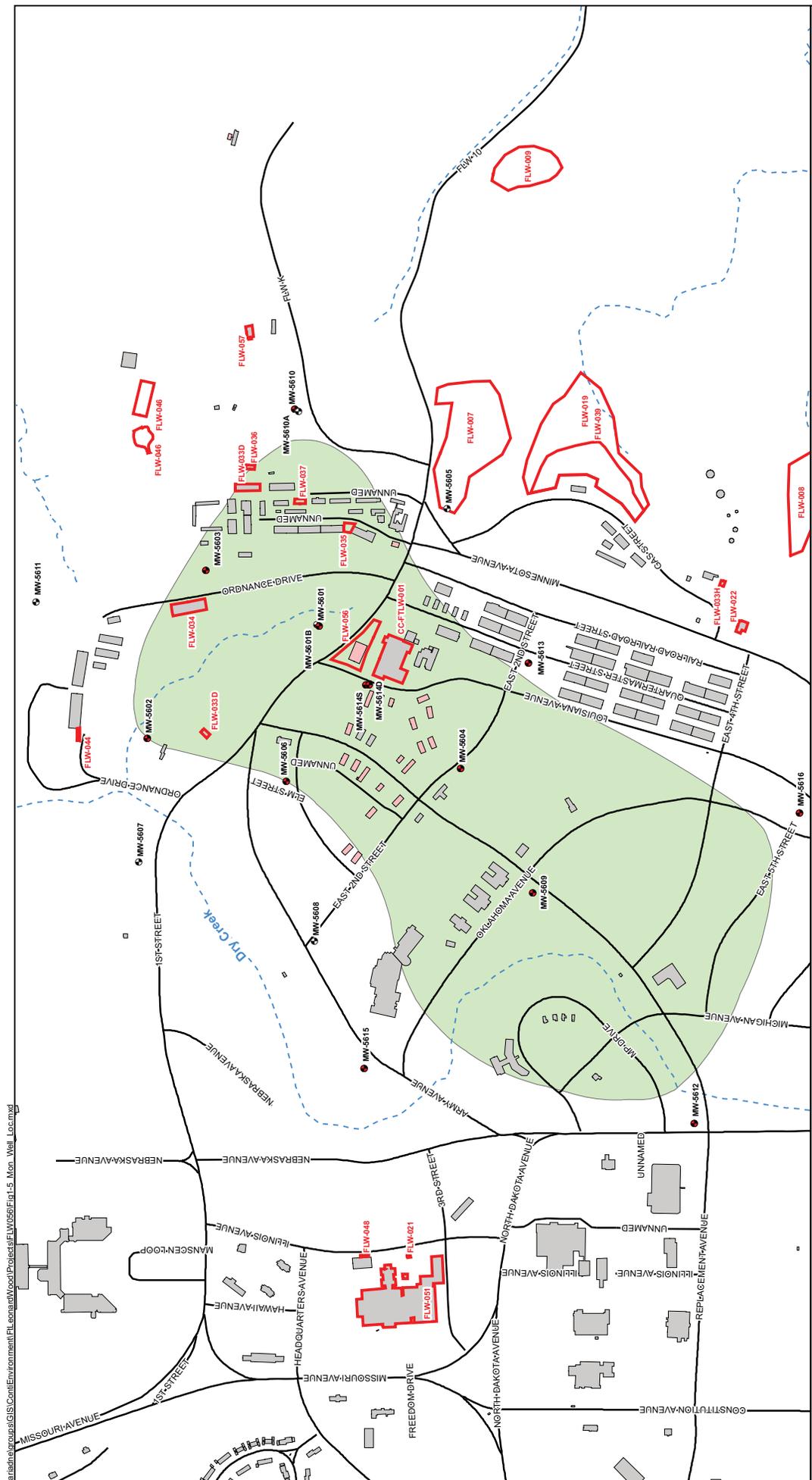


Figure 1-5
 FLW-056 – LUC Groundwater
 Site FLW-056 LUCIP
 Fort Leonard Wood, Missouri

- Legend**
- Monitoring Well to be Sampled
 - Existing Monitoring Well
 - Existing Building
 - Demolished Building
 - IRP Site Boundary
 - Primary Road
 - Groundwater LUC Boundary
 - - - Ephemeral Stream



EBS INTERVIEW QUESTIONNAIRE

ENVIRONMENTAL BASELINE SURVEY ENHANCED USE LEASE (Lease limits are shown in Appendix A) FORT LEONARD WOOD, MISSOURI INTERVIEW QUESTIONNAIRE

Name of Interviewee: Bryan Parker		Organization: DPW	
Position or Responsibility (<i>Identify as Owner, Occupant, or Both</i>): Master Planner			
Tel. No.: 573-596-0901		Fax No.:	E-Mail: Bryan.l.parker@us.army.mil
Interview conducted by:		Date of Interview:	
	QUESTION	YES	NO
1a & 1b.	Is the property or any adjoining property used for industrial purposes? Specify: Adjoining lands include warehouse, maintenance and laundry facilities	x	
2a.	Did you observe evidence or do you have prior knowledge that the property has been used for industrial purposes in the past? Specify: No, however I did not walk or survey the tract and have limited knowledge of the site history.		x
2b.	Did you observe evidence or do you have prior knowledge that adjoining properties have been used for industrial purposes in the past? Specify: Adjoining lands include warehouse, maintenance and laundry facilities	x	
3a & 3b.	Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one: Dry cleaner	x	
4a. & 4b	Did you observe evidence or do you have any prior knowledge that the property or any adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one: Dry cleaner	x	

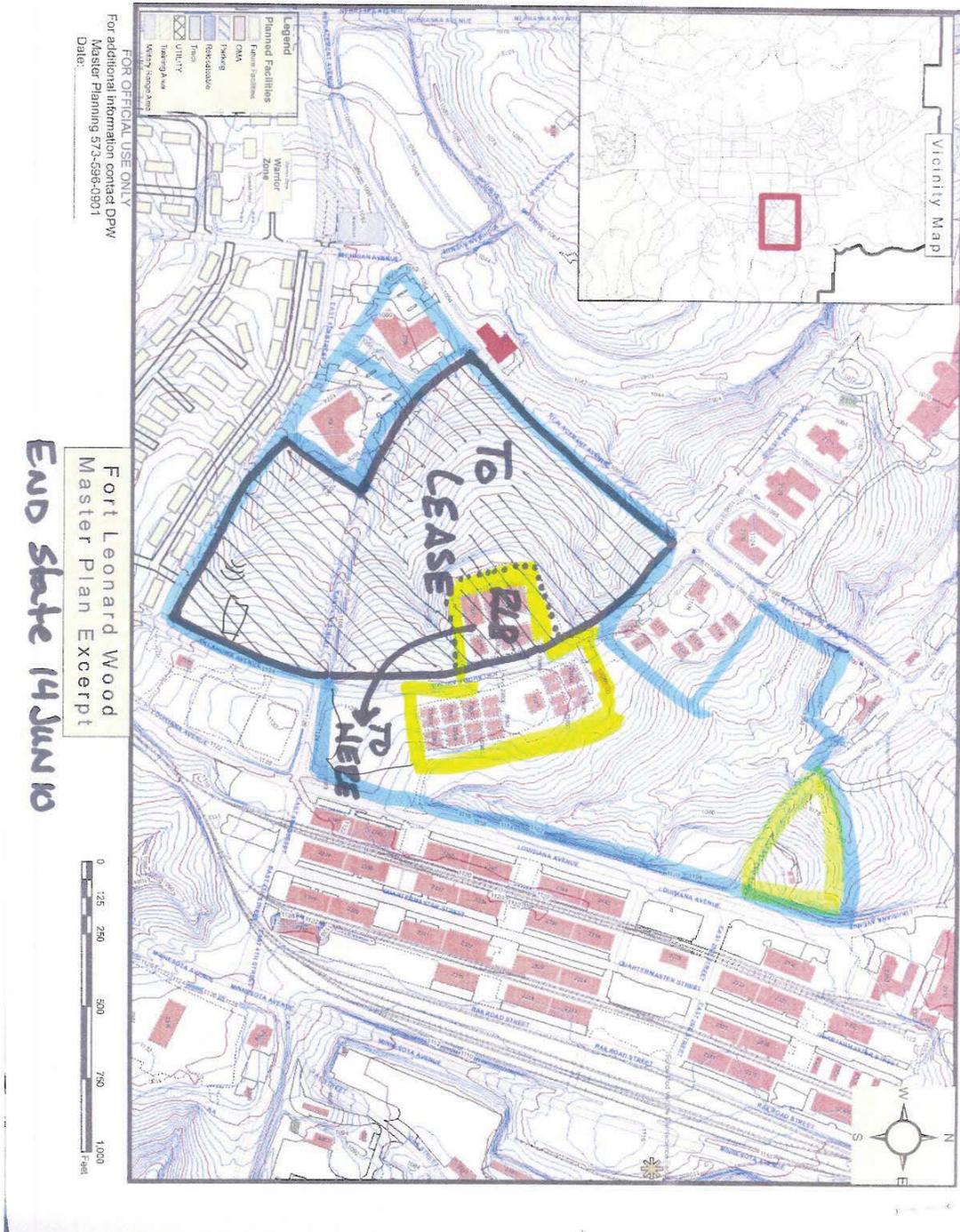
	QUESTION	YES	NO
5a. & 5b.	Are any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than 5 gallons in volume or 50 gallons in the aggregate currently stored on or used at the property or at the facility? Have any of the above previously been stored on or used at the property or at the facility? Unknown		
6a.	Are any industrial drums (typically 55 gallons) or sacks of chemicals currently located on the property or at the facility? Unknown		
7a.	Did you observe evidence or do you have knowledge that fill dirt that originated from a contaminated or is of an unknown origin site has been brought onto the property? No, however I did not walk or survey the tract and have limited knowledge of the site history.		x
8a & 8b.	Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal? Did you observe evidence or do you have knowledge that any pits, ponds, or lagoons in connection with waste treatment or waste disposal have previously been located on the property? No, however I did not walk or survey the tract and have limited knowledge of the site history.		x
9a & 9b.	Is there currently any stained soil on the property? Did you observe evidence or do you have knowledge that any stained soil has previously been on the property? No, however I did not walk or survey the tract and have limited knowledge of the site history.		x
10a.	Are any or has there previously been registered or unregistered storage tanks (aboveground or underground) currently located on the property? Unknown		
11a.	Are there any or do you have knowledge of any previously existing vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground located on the property or adjacent to any structure located on the property? No, however I did not walk or survey the tract and have limited knowledge of the site history.		x

	QUESTION	YES	NO
12a.	Is there currently evidence of leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property? Unknown		
12b.	Did you observe any evidence or do you have any prior knowledge that there have been previously any leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property? No, however I did not walk or survey the tract and have limited knowledge of the site history.		x
13a.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system? Unknown		
13b.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency? Unknown		
14a.	Do you have knowledge of environmental liens or notification from government agencies relating to past or recurrent violation of environmental laws with respect to the property or any facility located on the property?		x
15a.	Have you been informed of the current or past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property? No, however I did not walk or survey the tract and have limited knowledge of the site history.		. x
15b.	Have you been informed of the past existence of environmental violations with respect to the property or any facility located on the property? No, however I did not walk or survey the tract and have limited knowledge of the site history.		x
15c.	Have you been informed of the current existence of environmental violations with respect to the property or any facility located on the property? No, however I did not walk or survey the tract and have limited knowledge of the site history.		x

16.	Do you have knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property? Previous site assessments have been completed. I do not know the results.		x
17.	Do you have any knowledge of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum product involving the property?		x
18a.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>stormwater</u> system?	y	
18b.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>sanitary sewer</u> system? Unknown		
19a.	Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried, and/or burned on the property? No, however I did not walk or survey the tract and have limited knowledge of the site history.		x
20a.	Do any records exist indicating the presence of polychlorinated biphenyls (PCBs) for a transformer, capacitor, or any hydraulic equipment? Unknown		
21a.	Do you have any knowledge of any asbestos-containing materials or presumed asbestos-containing materials on any facility located on the property? I have second hand knowledge that asbestos was in buildings previously located on the site.	x	
22a.	Do you have any knowledge of any lead-based paint or presumed lead-based paint on any facility located on the property? Unknown		

The limits of the lands under consideration for lease are shown in Appendix A and include the Fort Leonard Wood Business Tech Park, excluding the location of the current buildings.

APPENDIX A



EBS INTERVIEW QUESTIONNAIRE

ENVIRONMENTAL BASELINE SURVEY ENHANCED USE LEASE (Lease limits are shown in Appendix A) FORT LEONARD WOOD, MISSOURI INTERVIEW QUESTIONNAIRE

Name of Interviewee: Angela Rinck <i>Angela Rinck</i>		Organization: FLW DPW Environmental	
Position or Responsibility (<i>Identify as Owner, Occupant, or Both</i>): NEPA, Storm Water, Spill Prevention and Response			
Tel. No.: 573/596-0131 x 68627		Fax No.: 573/596-0869	E-Mail: angela.rinck@us.army.mil
Interview conducted by: (email)		Date of Interview: 13 July 2010	
	QUESTION	YES	NO
1a & 1b.	Is the property or any adjoining property used for industrial purposes? Specify:		x
2a.	Did you observe evidence or do you have prior knowledge that the property has been used for industrial purposes in the past? Specify:		x
2b.	Did you observe evidence or do you have prior knowledge that adjoining properties have been used for industrial purposes in the past? Specify:		x
3a & 3b.	Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one: dry cleaners	x	
4a. & 4b	Did you observe evidence or do you have any prior knowledge that the property or any adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one: Dry cleaners and print facility	x	

	QUESTION	YES	NO
5a. & 5b.	Are any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than 5 gallons in volume or 50 gallons in the aggregate currently stored on or used at the property or at the facility? Have any of the above previously been stored on or used at the property or at the facility? 5a. Property needs to be surveyed 5b. No		
6a.	Are any industrial drums (typically 55 gallons) or sacks of chemicals currently located on the property or at the facility? Property needs to be surveyed		
7a.	Did you observe evidence or do you have knowledge that fill dirt that originated from a contaminated or is of an unknown origin site has been brought onto the property?		x
8a & 8b.	Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal? Did you observe evidence or do you have knowledge that any pits, ponds, or lagoons in connection with waste treatment or waste disposal have previously been located on the property?		x
9a & 9b.	Is there currently any stained soil on the property? Did you observe evidence or do you have knowledge that any stained soil has previously been on the property? 9a. Property needs to be surveyed 9b. No		
10a.	Are any or has there previously been registered or unregistered storage tanks (aboveground or underground) currently located on the property?		x
11a.	Are there any or do you have knowledge of any previously existing vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground located on the property or adjacent to any structure located on the property?		x

	QUESTION	YES	NO
12a.	Is there currently evidence of leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property? Property needs to be surveyed		
12b.	Did you observe any evidence or do you have any prior knowledge that there have been previously any leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		X
13a.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?		X
13b.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency?		X
14a.	Do you have knowledge of environmental liens or notification from government agencies relating to past or recurrent violation of environmental laws with respect to the property or any facility located on the property?		X
15a.	Have you been informed of the current or past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?		X
15b.	Have you been informed of the past existence of environmental violations with respect to the property or any facility located on the property?		X
15c.	Have you been informed of the current existence of environmental violations with respect to the property or any facility located on the property?		X

16.	Do you have knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?		x
17.	Do you have any knowledge of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum product involving the property?		x
18a.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>stormwater</u> system?		x
18b.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>sanitary sewer</u> system?		x
19a.	Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried, and/or burned on the property?		x
20a.	Do any records exist indicating the presence of polychlorinated biphenyls (PCBs) for a transformer, capacitor, or any hydraulic equipment?		x
21a.	Do you have any knowledge of any asbestos-containing materials or presumed asbestos-containing materials on any facility located on the property?		x
22a.	Do you have any knowledge of any lead-based paint or presumed lead-based paint on any facility located on the property?		x

The limits of the lands under consideration for lease are shown in Appendix A and include the Fort Leonard Wood Business Tech Park, excluding the location of the current buildings.

EBS INTERVIEW QUESTIONNAIRE

ENVIRONMENTAL BASELINE SURVEY ENHANCED USE LEASE (Lease limits are shown in Appendix A) FORT LEONARD WOOD, MISSOURI INTERVIEW QUESTIONNAIRE

Name of Interviewee: Carl Stenger		Organization: DPW Environmental	
Position or Responsibility (<i>Identify as Owner, Occupant, or Both</i>): Owner			
Tel. No.: (573) 596-3723		Fax No.: (573) 596-0869	E-Mail: Carl.stenger@us.army.mil
Interview conducted by:		Date of Interview:	
	QUESTION	YES	NO
1a & 1b.	Is the property or any adjoining property used for industrial purposes? Specify:		x
2a.	Did you observe evidence or do you have prior knowledge that the property has been used for industrial purposes in the past? Specify:		x
2b.	Did you observe evidence or do you have prior knowledge that adjoining properties have been used for industrial purposes in the past? Specify:		x
3a & 3b.	Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one: Laundry/Dry Cleaner (B. 2352)		x
4a. & 4b	Did you observe evidence or do you have any prior knowledge that the property or any adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, or landfill or as a waste treatment, storage, disposal, processing, or recycling facility? Identify which one: Print Plant (B. 2350) Laundry/Dry Cleaner (B. 2352)	x	

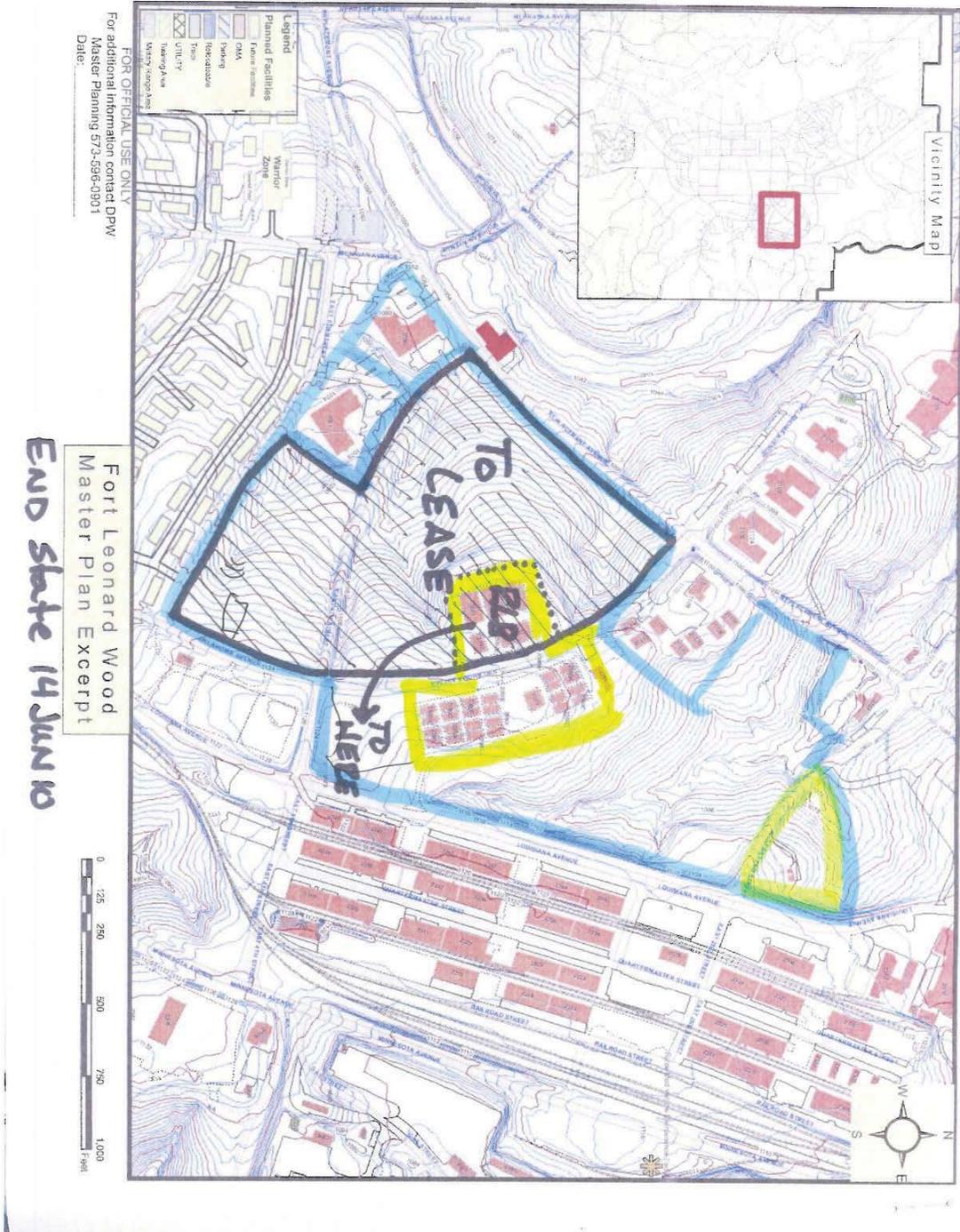
	QUESTION	YES	NO
5a. & 5b.	Are any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than 5 gallons in volume or 50 gallons in the aggregate currently stored on or used at the property or at the facility? Have any of the above previously been stored on or used at the property or at the facility?		x
6a.	Are any industrial drums (typically 55 gallons) or sacks of chemicals currently located on the property or at the facility?		x
7a.	Did you observe evidence or do you have knowledge that fill dirt that originated from a contaminated or is of an unknown origin site has been brought onto the property?		x
8a & 8b.	Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal? Did you observe evidence or do you have knowledge that any pits, ponds, or lagoons in connection with waste treatment or waste disposal have previously been located on the property?		x
9a & 9b.	Is there currently any stained soil on the property? Did you observe evidence or do you have knowledge that any stained soil has previously been on the property?		x
10a.	Are any or has there previously been registered or unregistered storage tanks (aboveground or underground) currently located on the property?		x
11a.	Are there any or do you have knowledge of any previously existing vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground located on the property or adjacent to any structure located on the property?		x

	QUESTION	YES	NO
12a.	Is there currently evidence of leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		x
12b.	Did you observe any evidence or do you have any prior knowledge that there have been previously any leaks, spills or staining by substance other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?		x
13a.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?		x
13b.	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency?		x
14a.	Do you have knowledge of environmental liens or notification from government agencies relating to past or recurrent violation of environmental laws with respect to the property or any facility located on the property?		x
15a.	Have you been informed of the current or past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?		.x
15b.	Have you been informed of the past existence of environmental violations with respect to the property or any facility located on the property?		x
15c.	Have you been informed of the current existence of environmental violations with respect to the property or any facility located on the property?		x

16.	Do you have knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?		x
17.	Do you have any knowledge of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum product involving the property?		x
18a.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>stormwater</u> system?		x
18b.	Does the property discharge waste water on or adjacent to the property, other than stormwater into a <u>sanitary sewer</u> system?		x
19a.	Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried, and/or burned on the property?		x
20a.	Do any records exist indicating the presence of polychlorinated biphenyls (PCBs) for a transformer, capacitor, or any hydraulic equipment?		x
21a.	Do you have any knowledge of any asbestos-containing materials or presumed asbestos-containing materials on any facility located on the property?		x
22a.	Do you have any knowledge of any lead-based paint or presumed lead-based paint on any facility located on the property?		x

The limits of the lands under consideration for lease are shown in Appendix A and include the Fort Leonard Wood Business Tech Park, excluding the location of the current buildings.

APPENDIX A



FOR OFFICIAL USE ONLY
For additional information contact DPW
Master Planning 573-596-9901
Date: _____

Fort Leonard Wood
Master Plan Excerpt
END STATE 14 JUN 10